

Supporting Information

RESULTS

Since some gonocytes and Sertoli cells appeared outside the seminiferous cords in the P2.5 *Arid4b*SCKO testes (Fig. 1V and Supporting Information Fig. S2), we analyzed whether the boundary of the seminiferous tubules in the P2.5 *Arid4b*SCKO testes is still intact. In testes, peritubular myoid cells form a single layer surrounding the seminiferous cords, and together with Sertoli cells constitute the boundary of the seminiferous cords. Sertoli cells have been shown to control peritubular myoid cell fate [1, 2]. We performed double immunofluorescent staining for α 2-smooth muscle actin (ACTA2, cytoplasmic) and WT1 (nuclear) to detect peritubular myoid cells and Sertoli cells, respectively. We found that the peritubular myoid cell layer surrounding the seminiferous cords was disturbed in the P2.5 *Arid4b*SCKO testes, while the peritubular myoid cell layer remained intact in the P2.5 control testes (Supporting Information Fig. S3). Together with the fact that most of Sertoli cells in the p2.5 *Arid4b*SCKO testes were no longer at the periphery of the seminiferous cords (Fig. 1N), these results suggest that the boundary of the seminiferous cords was perturbed in the P2.5 *Arid4b*SCKO testes.

The P1.5 testes were used to perform RNA-Seq analysis. Histological analyses revealed similar structure of the seminiferous cords between the control and *Arid4b*SCKO testes at P1.5 (Supporting Information Fig. S5, A-D). Immunofluorescent staining for AMH and WT1 further detected Sertoli cells at the periphery of seminiferous cords in both control and *Arid4b*SCKO testes at P1.5 (Supporting Information Fig. S5, E-H). In addition, double immunofluorescent staining for ACTA2 (cytoplasmic) and WT1 (nuclear) to detect peritubular myoid cells and Sertoli cells, respectively, confirmed the integrity of the seminiferous cord basement membrane

in both control and *Arid4b*SCKO testes at P1.5 (Supporting Information Fig. S5, G and H). Importantly, when TUNEL assay was performed to detect apoptotic cells, an increase of the TUNEL-positive cells was showed in the *Arid4b*SCKO testes at P2.5, but not at P1.5, compared with the respective control testes (Supporting Information Fig. S5, I-L). Quantification confirmed that total apoptotic cells increased only in the P2.5 *Arid4b*SCKO testes (Supporting Information Fig. S5, M). Together, the P1.5 *Arid4b*SCKO testes appeared to be normal compared to the control testes.

Although RNA-Seq and qRT-PCR analyses showed largely decreased transcripts of *Amh* in the P2.5 *Arid4b*SCKO testes (Fig. 4A, 4B), expression of *Amh* in the P10 *Arid4b*SCKO testes was elevated (Fig. 4B). At puberty, expression of AMH is switched off during Sertoli cell maturation. Therefore, absence of AMH is widely used as an indicator of Sertoli cell functional maturation. Immunofluorescent staining for AMH in the control testis at different stages showed high levels of AMH expression at E18.5 and P2.5, but the levels gradually reduced between P10 and P20, and became undetectable at P30 and P42 (Supporting information Fig. S9). On the other hand, expression of AMH in the *Arid4b*SCKO testes was found to be markedly reduced at P2.5, but was elevated at P10, remained prominent in many tubules at P20, and was still detectable at P30 (Supporting information Fig. S9). Our results are also consistent with the previous report that maturation of Sertoli cell was delayed in the *Arid4b*SCKO testes [3], as the abundance of AMH proteins in the *Arid4b*SCKO testes remained prominent during puberty (after P10) (Supporting information Fig. S9).

MATERIALS AND METHODS

Histological Analysis

Testes were dissected from male mice and fixed in Bouin's fluid (75% saturated picric acid, 5% glacial acetic acid, 9.3% formaldehyde). Histological analysis was performed on 7- μ m thick paraffin-embedded testis sections by hematoxylin and eosin staining.

Immunofluorescent Staining

Testes were dissected from male mice and fixed in 4% paraformaldehyde in phosphate-buffered saline (PBS). Immunofluorescence analysis was performed on 7- μ m thick paraffin-embedded testis sections. Antigen retrieval was performed by boiling the testes sections in citric acid based antigen unmasking solution (Vector Laboratories). Samples were blocked with blocking solution (5% donkey serum, 2% bovine serum albumin, and 0.02% triton-X 100 in PBS), followed by incubation with primary antibodies in blocking solution. The primary antibodies are listed in Supporting Information Table S5. Sections were washed with 0.1% Triton X-100/PBS buffer, and incubated with horseradish peroxidase (*HRP*)-conjugated or biotinylated secondary antibodies (Jackson ImmunoResearch). Signal detection was carried out by Tyramide Signal Amplification system (Life Technology) or Alexa Fluor 488 Streptavidin (Molecular Probes, Life Technology). Sections were mounted with fluorescence mounting medium with DAPI (Vector Laboratories). Images were captured with a Nikon Eclipse *Ti-U* fluorescence microscope or a Carl Zeiss LSM 510 confocal microscope. Since the sizes of the control and *Arid4b*SCKO testes were similar at P2.5 of age (Supporting Information Fig. S4) [3],

cells positive for the markers used (i.e. WT1 and PLZF) were counted per testis section. Testes of three mice from each genotype and different litters were analyzed.

TUNEL Assays

Testes were dissected from male mice and fixed in Bouin's fluid (75% saturated picric acid, 5% glacial acetic acid, 9.3% formaldehyde). For analysis of apoptosis, TUNEL assays were performed on 7- μ m thick paraffin-embedded testis sections. Testis sections were stained by *in situ* cell death detection kit (Roche Diagnostics), the terminal deoxynucleotidyltransferase-mediated dUTP-biotin nick end labeling (TUNEL) based assays. Since the sizes of the control and *Arid4b*SCKO testes were similar at P2.5 of age (Supporting Information Fig. S4) [3], quantifications were performed by counting the number of the TUNEL+ cells per testis section. Testes of three mice from each genotype and different litters were analyzed.

RNA-Seq Analysis

Testes were dissected from the control and *Arid4b*SCKO males at P1.5. Each genotypic group consisted of three pools of testes, and each pool contained four testes. Total RNA was purified using an RNeasy plus kit (Qiagen), and was treated by DNase I (Qiagen). Purified RNA was processed for RNA-Seq analysis and initial data analysis (Expression Analysis). Database for Annotation, Visualization, and Integrated Discovery Bioinformatics Resources (DAVID) v6.7 (<http://david.abcc.ncifcrf.gov/>) and Gene Set Enrichment Analysis (GSEA) on the Molecular Signatures Databases (MSigDB) collection (gsea@broadinstitute.org) analyses were

used on genes to identify enriched biological themes. The NCBI access number of raw data from the ChIP-Seq study is GSE84808.

qRT-PCR Analysis

Testes were dissected from 3 *Arid4b*SCKO and 3 control males. Total RNA was purified from mouse testes using an RNeasy plus kit (Qiagen), and was treated by DNase I (Qiagen). Two micrograms of DNase I-treated total RNA was used for reverse transcription to synthesize the first strand cDNA by the Superscript III First-strand synthesis system (Life Technology). qPCR was performed on the ABI StepOne Plus machine using TaqMan gene expression assays (Applied Biosystems). The TaqMan primer/probe sets for genes are listed in Supporting Information Table S6. The *Gapdh* transcripts were amplified as an internal control to normalize gene expression. The levels of gene expression were normalized against the level of *Gapdh* expression in each sample. In each experiment, the normalized level of the gene of interest from one of the control mice was set as 1.

ChIP-Seq Analysis

A pool of 108 testes dissected from wild type male mice at P1.5 was sent to Active Motif for ChIP, library preparation, sequencing, and initial data analysis. ChIP assays were performed using the anti-ARID4B antibody (A302-233A, Bethyl Laboratories). Input DNA was used for control. Gene calling was based on presence of the ARID4B binding site with 10 kb of the gene margin. The NCBI access number of raw data from the ChIP-Seq study is GSE84808.

ChIP-qPCR Analysis

Testes dissected from 20 *Arid4b*SCKO and 20 control males at P1.5 of age were used for ChIP analysis on the *Gdnf* promoter. ChIP assays were performed as previously described method [3]. Chromatin extracted from mouse testes was immunoprecipitated with normal rabbit IgG or anti-ARID4B antibody (A302-233A, Bethyl Laboratories). DNA from immunoprecipitated chromatin was analyzed by qPCR using the primer sets listed in Supporting Information Table S7.

Detection of RA activity

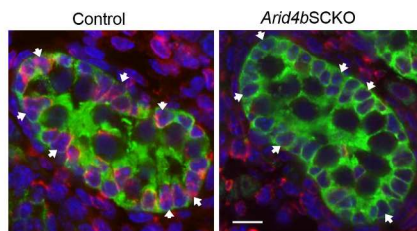
To detect the levels of RA, a previously described RA reporter assay was performed [4]. Briefly, HeLa cells were transfected with a luciferase reporter gene which contains the RA receptor response element fused to a firefly luciferase gene (PGL3-RARE-Luciferase, Addgene). Eight testes from the P1.5 control or *Arid4b*SCKO mice were subjected to freeze/thaw and minced finely in phenol red-free DMEM (Life Technologies), and then centrifuged at 12,000 g for 10 min at 4°C. The supernatant was added to the transfected HeLa cells grown in 24-well plate and incubated for 24 h at 37°C. To perform luciferase reporter assay, the cells were washed twice with PBS and lysed using 100 µl of 1× Passive Lysis Buffer (Promega). After adding 100 µl firefly luciferase assay substrate (Promega) to the lysate, the luciferase activity was measured by the Berthold luminometer. Each sample was assayed in quadruplicate.

Statistical Analysis

Means were calculated from at least three independent experiments. All results were shown as the means \pm standard errors of the means (SEM). Two-tailed unpaired Student's *t*-test was used to compare two groups. *P* values less than 0.05 were considered to be statistically significant.

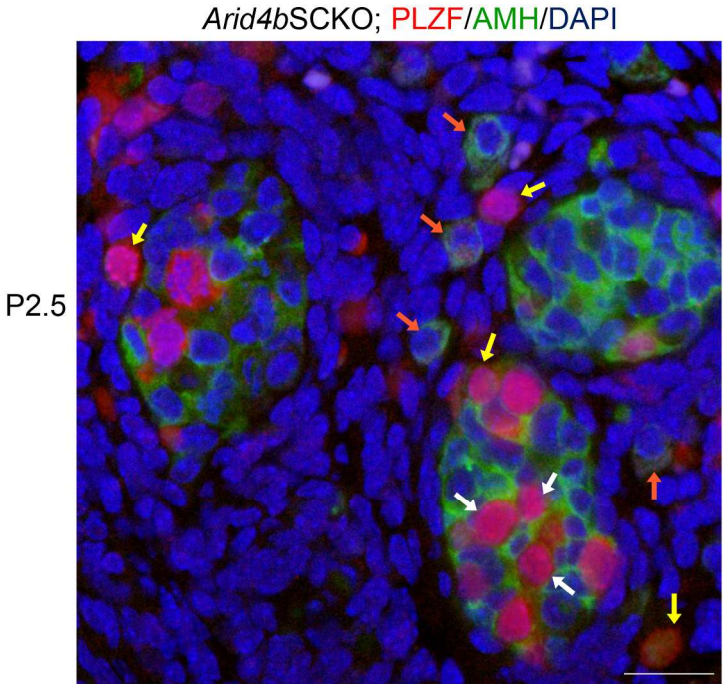
REFERENCES

1. Rebourcet D, O'Shaughnessy PJ, Monteiro A et al. Sertoli cells maintain Leydig cell number and peritubular myoid cell activity in the adult mouse testis. **PloS one**. 2014;9:e105687.
2. Rebourcet D, O'Shaughnessy PJ, Pitetti JL et al. Sertoli cells control peritubular myoid cell fate and support adult Leydig cell development in the prepubertal testis. **Development**. 2014;141:2139-2149.
3. Wu RC, Zeng Y, Pan IW et al. Androgen Receptor Coactivator ARID4B Is Required for the Function of Sertoli Cells in Spermatogenesis. **Mol Endocrinol**. 2015;29:1334-1346.
4. MacLean G, Li H, Metzger D et al. Apoptotic extinction of germ cells in testes of Cyp26b1 knockout mice. **Endocrinology**. 2007;148:4560-4567.



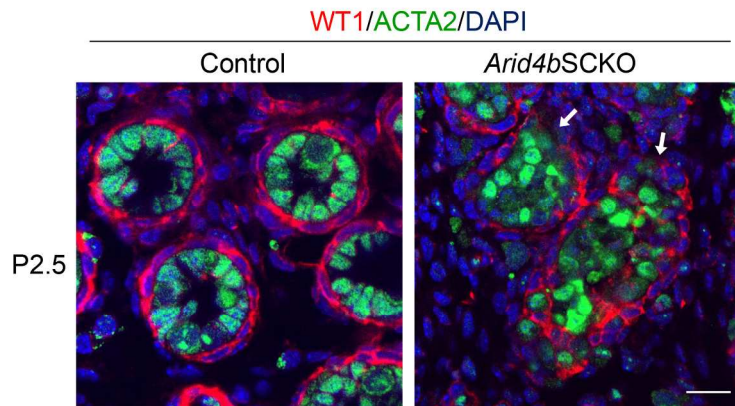
Supporting Information Fig. S1. Ablation of ARID4B in Sertoli cells of the *Arid4bSCKO* testes at E18.5. Immunofluorescent analysis of ARID4B protein (red, nuclear) co-stained with AMH (green, cytoplasmic) were performed in the control and *Arid4bSCKO* testes at E18.5. Nuclear DNA was stained by DAPI (blue). Arrows indicate Sertoli cells. Scale bar = 5 μ m.

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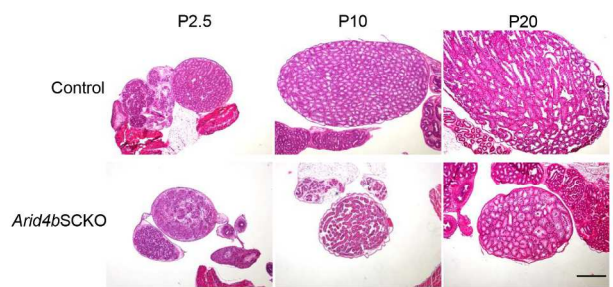
Supporting Information Fig. S2. Defect in gonocyte homing in the *Arid4b*SCKO testes at P2.5. Double immunofluorescent staining of AMH (green, cytoplasmic) and PLZF (red, nuclear) detected Sertoli cells and gonocytes, respectively, in the *Arid4b*SCKO testes at P2.5. Nuclear DNA was stained by DAPI (blue). Yellow arrows point to gonocytes escaping from the seminiferous cords, white arrows point to gonocytes that remained at central location within the cords, and orange arrows point to Sertoli cells that broke away from the seminiferous cords in the *Arid4b*SCKO testes at P2.5. Scale bar = 20mm.

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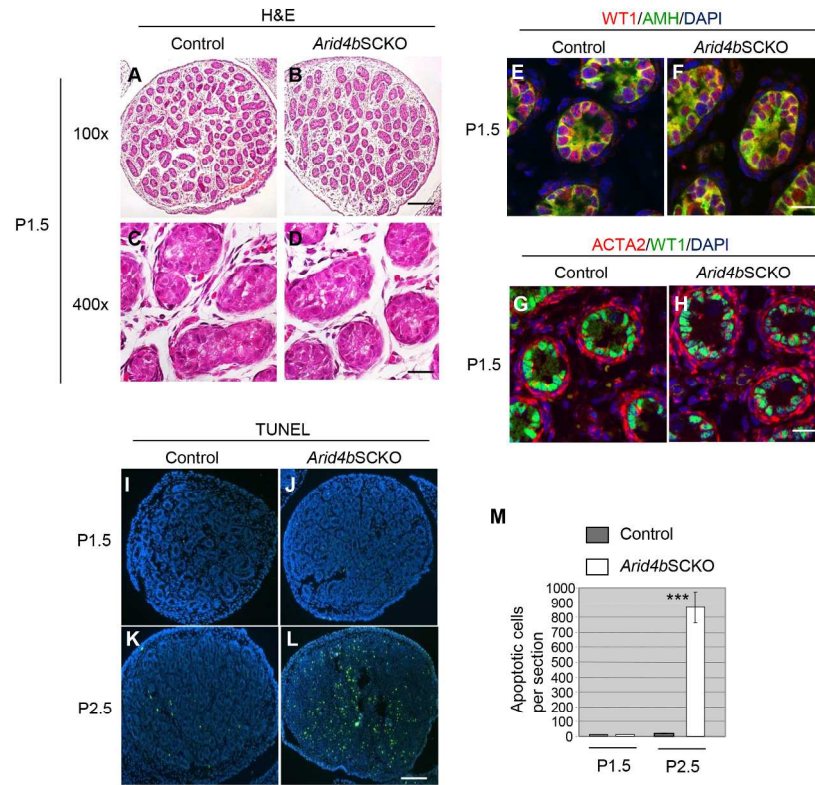
Supporting Information Fig. S3. Loss of integrity of the basement membrane in the *Arid4b*SCKO seminiferous tubules at P2.5. Double immunofluorescent staining of ACTA2 (red, cytoplasmic) and WT1 (green, nuclear) to detect peritubular myoid cells and Sertoli cells, respectively. Testis sections were from the control and *Arid4b*SCKO mice at P2.5. Nuclear DNA was stained by DAPI (blue). White arrows point to the seminiferous cords with loss of integrity in the basement membrane in the *Arid4b*SCKO testes at P2.5. Scale bar = 25 μ m.

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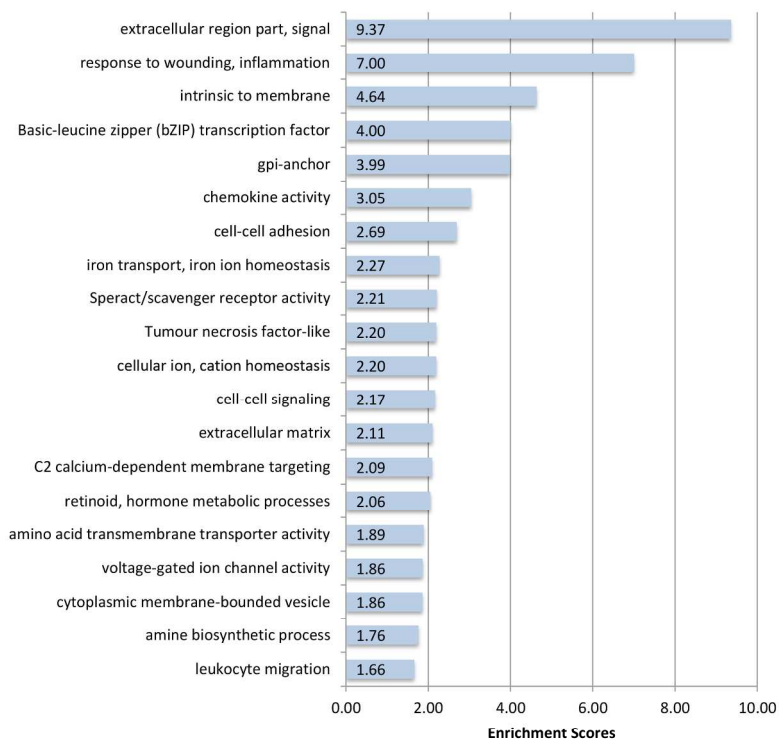
Supporting Information Fig. S4. The *Arid4b*SCKO testes were smaller at P10 and P20. The *Arid4b*SCKO testes were barely increased from P2.5 to P20, although a comparable size of testes in the control and *Arid4b*SCKO mice were found at P2.5. HE stained testis sections were from the *Arid4b*SCKO mice and their control littermates at P2.5, P10, and P20. Original magnification of images was 40x. Scale bars = 500mm.

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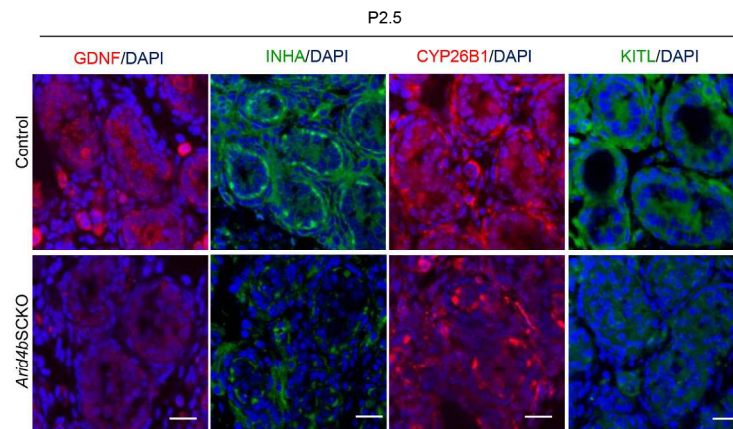
Supporting Information Fig. S5. Normal Sertoli cell distribution in seminiferous cords of the *Arid4bSCKO* testes at P2.5. **(A-D)**: Histological analyses of the control and *Arid4bSCKO* testes at P1.5. Paraffin-embedded testis sections were stained with hematoxylin and eosin (H&E). Original magnifications of images were 100x (A, B) and 400x (C, D). Scale bars = 100 μ m (B) and 25 μ m (D). **(E, F)**: Double immunofluorescent staining of AMH (green, cytoplasmic) and WT1 (red, nuclear) to detect Sertoli cells in testis sections from the *Arid4bSCKO* and control mice at P1.5. DNA was stained by DAPI (blue). Scale bar = 25 μ m. **(G, H)**: Double immunofluorescent staining of ACTA2 (red, cytoplasmic) and WT1 (green, nuclear) to detect peritubular myoid cells and Sertoli cells, respectively. Testis sections were from the control and *Arid4bSCKO* mice at P1.5. Nuclear DNA was stained by DAPI (blue). Scale bar = 25 μ m. **(I-L)**: Detection of apoptosis by TUNEL assay in testis sections from the control and *Arid4bSCKO* mice at P1.5 and P2.5. Apoptotic cells were TUNEL-positive (green). Nuclear DNA was stained by DAPI (blue). Scale bars = 100 μ m. **(M)**: Quantification of apoptotic cells in the control and *Arid4bSCKO* testes at P1.5 and P2.5. Three mice from each genotype and different litters were analyzed. Data are means \pm SEM. *** $P < 0.001$

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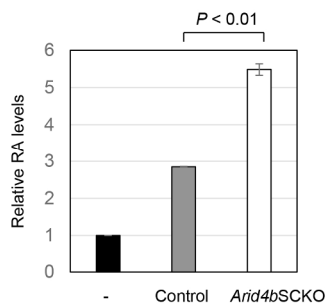
Supporting Information Fig. S6. Top 20 annotation clusters of genes in response to Sertoli cell-specific *Arid4b* knockout in testes were analyzed to identify enriched biological themes using the functional annotation clustering tool at Database for Annotation, Visualization, and Integrated Discovery Bioinformatics Resources (DAVID) v6.7.

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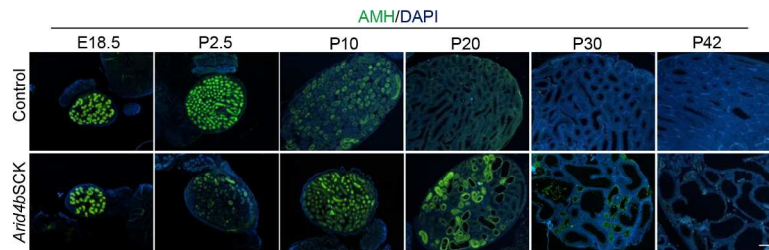
Supporting Information Fig. S7. GDNF, INHA, CYP26B1, and KITL were decreased in the *Arid4b*SCKO testes at P2.5. These proteins in the control and *Arid4b*SCKO testes at P2.5 were detected by immunofluorescent staining. Scale bar = 25 μ m. DNA was stained by DAPI (blue).

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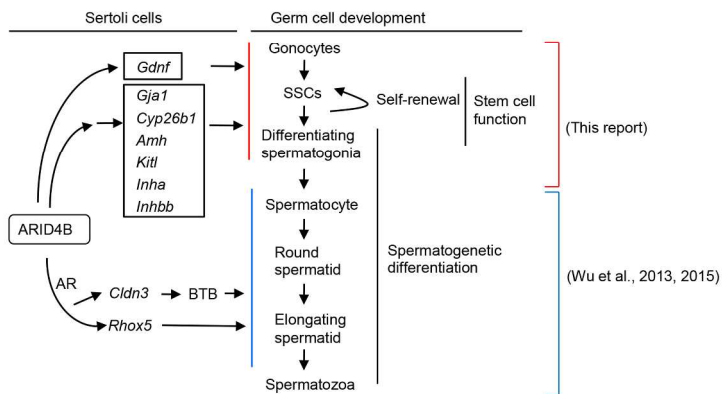
Supporting Information Fig. S8. Elevated RA levels in the P1.5 *Arid4bSCKO* testes. Cells transfected with the RA response element (RARE)-luciferase reporter were incubated with extracts prepared from eight control or eight *Arid4bSCKO* testes for 24 hours. Luciferase activity produced was used as a method to determine the RA levels of the samples. The results were plotted as relative RA levels of the treated samples vs. the non-treated samples. Each sample was assayed in quadruplicate. Data are means \pm SEM.

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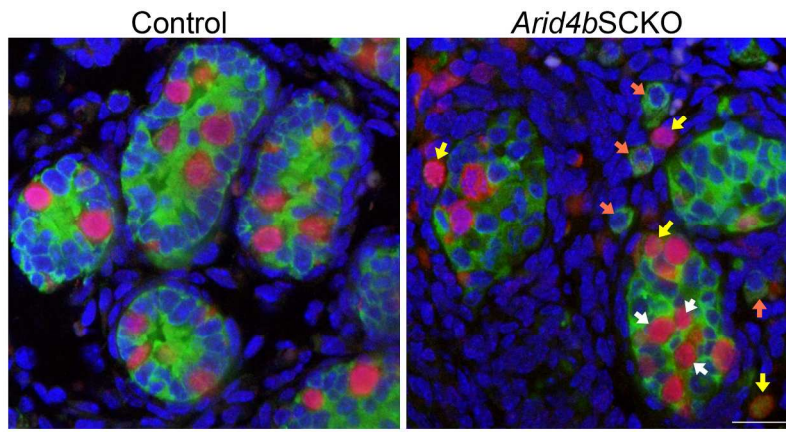
Supporting Information Fig. S9. Levels of AMH protein in Sertoli cells from the control and *Arid4bSCKO* testes at E18.5, P2.5, P10, P20, P30, and P42 were detected by immunofluorescent staining (green, cytoplasmic). Scale bar = 350mm. DNA was stained by DAPI (blue).

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Supporting Information Fig. S10. ARID4B in Sertoli cells regulates germ cell development. ARID4B mediates the establishment of SSC niche by Sertoli cells to control SSC formation, self-renewal, and differentiation. In addition, ARID4B, as an AR coactivator, is involved in regulation of spermatogenic differentiation from undifferentiated spermatogonia through spermatogenic differentiation.

Wu Graphical Abstract



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Supporting Information Table S1. Upregulation or downregulation genes (P -value < 0.05 , $|\text{Log}_2$

gene	mrna	refseq	ucscid	description	entrez	chr	beg
Aqp12	587;NM_00587;NM_00cdc.2;	uc007musculus aquaporin 12 (Aqp12)				chr1	93006333
Psg23	NM_020261;NM_020261;	uc009fjo.1 nancy-specific glycoprotein			56868	chr7	18606342
Gm5868	NM_0010241;NM_0010241;	uc008xrq.1; predicted gene 5868 (Gn			545758	chr5	72581638
Asic4	NM_183022;NM_183022;	uc007bpg.1oton-gated) ion channel f			241118	chr1	75450509
Gfy	NM_0011952;NM_0011952;	uc012fkd.1ociated olfactory signaling			1E+08	chr7	45176348
Ifitm7	NM_0012707;NM_0012707;	uc007ygs.2 induced transmembrane			74482	chr16	13981701
AF529169	NM_153509;NM_153509;	uc009qzn.2NA sequence AF529169 (A			209743	chr9	89590034
Elovl2	NM_019423;NM_019423;	uc007qfb.2ain fatty acids (FEN1/Elo2			54326	chr13	41182381
Slc13a2	NM_022411;NM_022411;	uc007kjf.1 im-dependent dicarboxylate			20500	chr11	78397275
AK189100	AK189100	uc029rrd.1ence:ENSEMBL:Mouse-Transcript-EN				chr12	17791611
1110032F0M_0011679	NM_0011679	uc012cqj.1 DNA 1110032F04 gene (1			68725	chr3	68869585
AK185421	AK185421	uc009jvu.1 ngth enriched library, clor			1E+08	chr7	1.28E+08
BC049966	BC049966	uc008agy.1;uc008n BLAT search;Mus musculus activati				chr17	13699;6356
Otop2	72801;AB0;NM_172801;	uc007musculus otopenin 2 (Otop2			237987	chr11	17162;1153
Cabp1	NM_013879;NM_013879;	uc008zdh.1calcium binding protein 1			29867	chr5	1.15E+08
4933417O1NR_045842	NR_045842	uc029wqb.133417O13 gene (4933417O13Rik), lor				chr7	1.43E+08
Trim60	2331;NM_1;NM_153097;	uc033artite motif-containing 60 (Trim60), i				chr8	10194;6499
Gsdmc2	168274;NM168274;NM1;	uc007musculus gasdermin C2 (Gs			331063	chr15	63824345
AK140147	AK140147	uc008uaf.1 ngth enriched library, clone: B230314				chr4	1.08E+08
Nipal1	1081205;BC1_0010812;	uc007PA-like domain containing 1 (Nipal1),				chr5	72647795
Frem3	NM_0011678;NM_0011678;	uc012ggm.1ited extracellular matrix p			333315	chr8	80611038
Il17f	1977;NM_1;NM_145859;	uc007culus interleukin 17F (Il17f), mRNA				chr1	20777145
Spint3	NM_0011774;NM_0011774;	uc008nfv.2eptidase inhibitor, Kunitz			629747	chr2	1.65E+08
Nkx2-1	385;NM_00385;NM_00;	uc007isculus NK2 homeobox 1 (			21869	chr12	56531934
1700003F1NM_029309	NM_029309	uc008njj.1 DNA 1700003F12 gene (1			75480	chr2	1.55E+08
Defb1	NM_007843;NM_007843;	uc009lby.2 ulus defensin beta 1 (Defl			13214	chr8	21776554
D7Ert143NR_029645	NR_029645	uc012ewd.1ERATO Doi 143, expressed (D7Ert143				chr7	3218783
AK028422	AK028422	uc007nhz.1 gth enriched library, clone: 5430401H				chr12	32113668
Ppp1r42	AK015164;AK015164;	uc007ahd.1phosphatase 1, regulatory subunit 42				chr1	18625;9995
Slc38a3	1155;NM_0;NM_001199;	uc009lute carrier family 38, me			76257	chr9	1.08E+08
Saa2	NM_011314;NM_011314;	uc009gzb.2ilus serum amyloid A 2 (Sae			20209	chr7	46751832
AK054515	AK054515	uc007peo.1full-length enriched library, clone: E33				chr12	1.12E+08
Hamp2	NM_183257;NM_183257;	uc009ghd.2idin antimicrobial peptide			66438	chr7	30922371
Ms4a15	172006;NM_0010348;	uc012bis.1ing 4-domains, subfamily A, member				chr19	10978306
Gldn	NM_17735(NM_17735);	uc009pqx.1usculus gliomedin (Gldn),			235379	chr9	54286485
Etd	NR_034074	uc009tfc.1 c testis differentiation (Etd), long nor				chrX	53434917
Rhox8	NM_0010041;NM_0010041;	uc009szi.1 eproductive homeobox 8			434768	chrX	37874775
AK145481	AK145481	uc009kyw.1 gth enriched library, clone: 11C0003A1				chr8	13998939
Ccdc121	NM_20728(NM_20728);	uc011wxt.1l-coil domain containing 1			403180	chr1	1.82E+08
Odf3l1	1219;NM_1;NM_198673;	uc009ense fiber of sperm tails 3			382075	chr9	56848658
Ctrb1	NM_025583;NM_025583;	uc009nms.2s chymotrypsinogen B1 (C			66473	chr8	1.12E+08
Klkb1	008455;M5;NM_008455;	uc009s kallikrein B, plasma 1 (K			16621	chr8	45269450
Wee2	NM_20137(NM_20137);	uc009bmq.1EE1 homolog 2 (S. pombe			381759	chr6	40442862
Slamf1	1792;NM_0;NM_01373;	uc009ytic activation molecule f			27218	chr1	1.72E+08

Zp1	NM_00958(NM_00958)uc008grh.2	ona pellucida glycoprotein	22786	chr19	10914295
Hs6st3	NM_01582(NM_01582)uc007uzn.2	sulfate 6-O-sulfotransferase	50787	chr14	1.19E+08
AK035994	AK035994	uc008pki.1	gth enriched library, clone:9630025H	chr3	64949222
4933433C11	28961;BC0(NM_028963)iqp.2;	uc008DNA 4933433C11 gene (4933433C11)		chr2	25212558
Anks4b	NM_02808(NM_02808)uc009jnj.2	sterile alpha motif domain	72074	chr7	1.2E+08
Miox	NM_01997(NM_01997)uc007xgc.1	myo-inositol oxygenase	56727	chr15	89334472
Gmnc	N_0012859(N_0012859)uc007yvk.2	minin coiled-coil domain	239789	chr16	26957234
AK048032	AK048032	uc009tvj.1	gth enriched library, clone:C130031C	chrX	99409570
Gpr37l1	NM_13443(NM_13443)uc007csv.2	in-coupled receptor 37-like	171469	chr1	1.35E+08
AK085768	AK085768	uc008mqp.1	gth enriched library, clone:D830006E	chr2	1.44E+08
Rph3a	N_11286;BC0(NM_011286)zim.1;	uc008sculus rabphilin 3A (Rph3a)	19894	chr5	1.21E+08
Rtn4r	NM_02298(NM_02298)uc007ymv.1	reticulon 4 receptor (Rtn4r)	65079	chr16	18127705
Sfrp4	N_16687;AK0(NM_016687)pph.2;	uc008eted frizzled-related protein	20379	chr13	19623174
Mafa	NM_19435(NM_19435)uc007whe.1	fibrosarcoma oncogene	378435	chr15	75746842
Txk	N_013698;N_1598;NM_0013698	uc008xrz.2;	usculus TXK tyrosine kinase (Txk)	chr5	13779;72691
Dnaaf1	NM_02664(NM_02664)uc009npw.1	axonemal assembly factor	68270	chr8	1.2E+08
Pla2g4d	N_0010241(N_0010241)uc008lvh.1	spholipase A2, group IVC	78390	chr2	1.2E+08
Tgm6	N_289749;NM_289749;NM_289749	uc018sculus transglutaminase 6 (Tgm6)		chr2	13274;13011
Kazald1	N_1095;NM_1095;NM_17892	uc008hqs.2;	uc008erine peptidase inhibitor	chr19	15240;45071
Tmem28	N_0010812(N_0010812)uc009tvn.1	inmembrane protein 28 (Tmem28)	620592	chrX	99821068
Hsd17b1	NM_01047(NM_01047)uc007lnb.1	eroid (17-beta) dehydrogenase	15485	chr11	1.01E+08
Ubash3a	N_77823;BC0(NM_177823)bur.2;	uc008ciated and SH3 domain containing	328795	chr17	31208065
Calcr	NM_001042588;NM_001042588	uc009avf.1	usculus calcitonin receptor	chr6	3685719
Kcnh1	N_038607;NM_038607;NM_038607	uc008gated channel, subfamily I	16510	chr1	1.92E+08
AK198029	AK198029	uc029qtf.1	ence:ENSEMBL:Mouse-Transcript-EN	chr1	1.31E+08
Aass	NM_01393(NM_01393)uc009bbc.2	adipate-semialdehyde synthase	30956	chr6	23072172
Gcm2	NM_00810(NM_00810)uc007qey.1	s missing homolog 2 (Drosophila) (Gcm2)		chr13	41101426
Bcl11b	N_00107988;N_00107988	uc007ozh.1	B cell leukemia/lymphoma	chr12	1.08E+08
9630001P10	AK044526;NM_044526;NM_044526	uc008xjc.2;	30001P10 gene (9630001P10Rik), long	chr5	19274;45631
Pvalb	N_1986;NM_01364	uc007sculus parvalbumin (Pvalb)	19293	chr15	78191117
Gm826	N_0010334(N_0010334)uc008nqv.1	s predicted gene 826 (Gm826)	329554	chr2	1.6E+08
Emilin3	N_82840;BC0(NM_182840)nrl.1;	uc008elastin microfibril interfac		chr2	16437;16091
Fgf18	N_2395;NM_00800	uc008ikc.2;	uc008us fibroblast growth factor	chr11	33116977
Flt3	NM_01022(NM_01022)uc009aob.2	FMS-like tyrosine kinase	14255	chr5	1.47E+08
Ankrd63	N_0010819(N_0010819)uc008lsh.1	kyrin repeat domain 63 (Ankrd63)	383787	chr2	1.19E+08
AK029949	AK029949	uc009sig.2;	uc008male testis cDNA, RIKEN full-length	chr4	156350_ran213;425524
Fgf22	N_1054;NM_02330	uc008fzp.1;	uc008ibroblast growth factor 22	chr10	79755118
Anks1b	N_1;NM_0011001177397	uc033frw.1;	and sterile alpha motif domain containing	chr10	189873508;
AK042124	AK042124	uc008yms.1	gth enriched library, clone:A630060I	chr5	1.08E+08
Svs6	NM_01367(NM_01367)uc008nuh.1	inal vesicle secretory protein	20945	chr2	1.64E+08
Sptlc3	N_75467;AK0(NM_175467)nje.1;	uc008yltransferase, long chain	228677	chr2	13919;13941
Gm6792	N_189;NM_001011774	uc033iwl.1;	uc033ulus predicted gene 6792	chr7	6252709
AK053246	AK053246	uc007cit.1	th enriched library, clone:E030050D1	chr1	1.2E+08
Tfap2b	NM_001025(NM_009334)uc007akq.2;	transcription factor AP-2 beta (Tfap2b)		chr1	19213926;
4933411G11	NM_17788(NM_17788)uc009ajr.1	NA 4933411G11Rik gene (4933411G11)	330228	chr5	1.43E+08
Kctd19	N_77791;BC0(NM_177791)ncy.1;	uc008hel tetramerisation domain	279499	chr8	1.05E+08
Fcrl1	N_178165;M_178165	uc008psb.2	usculus Fc receptor-like 1	chr3	87376386

AK085652	AK085652	uc009qtf.1;th enriched library, clone:D630050M	chr9	77046681
Fezf2	U080433;BC00NM_080433;7sfs.2;uc000's Fez family zinc finger 2 (Fezf2), mRNA		chr14	12341891
AK015607	AK015607	uc007uyg.1;riched library, clone:1700085D13 prc	chr14	1.15E+08
Cga	NM_009888;NM_009888;uc008sgq.1;protein hormones, alpha	12640	chr4	34893778
Erich5	NM_173421;NM_173421;uc007vls.2;plus glutamate rich 5 (Eric	239368	chr15	34453311
AK177772	AK177772	uc009cdd.1h enriched library, clone:5730409F18	chr6	58831888
Gsdmcl-ps	NR_029414	uc007vzd.1; C-like, pseudogene (Gsdmcl-ps), non	chr15	63914460
Kcne1	U5;X60457;NM_008424;uc007zza.1;ited channel, Isk-related s	16509	chr16	18564;9234
Alpl2	NM_007433;NM_007433;uc007bvy.1e phosphatase, placental-	11650	chr1	87086690
A530065N	NR_046142	uc029sbo.130046M15 gene (A530065N20Rik), lo	chr13	60029710
Onecut3	NM_139226;NM_139226;uc007gdn.1;t domain, family membe	246086	chr10	80494905
AK019773	AK019773	uc009nhj.1; enriched library, clone:4930517G24	chr8	1.07E+08
Slc13a2os	NR_003282	uc007kje.1;arboxylate transporter), member 2, c	chr11	78394484
Ptprh	NM_207277;NM_207277;uc009exz.1osine phosphatase, recep	545902	chr7	4548613
Trpc3	U714;AK082;NM_019513;ozt.2;uc000;tential cation channel, subfamily C, n		chr3	36620481;
Csrnp3	U1688;NM_018634;NM_03jwq.2;uc000;teine-serine-rich nuclear protein 3 (C		chr2	65845766;
Klk1	NM_010639;NM_010639;uc009goo.1;usculus kallikrein 1 (Klk1),	16612	chr7	44225436
Grm5	U1113;AK13;3834;NM_09ifr.2;uc000;utamate receptor, metabotropic 5 (G		chr7	6510;8758
Prmt3	U;AK045491;00128970;uc009dgr.2oline-rich transmembrane protein 3 (		chr6	6299;1134
Grin2c	U10350;BC1;NM_01035;yhk.1;uc000;eptor, ionotropic, NMDA2	14813	chr11	1.15E+08
Amh	NM_007445;NM_007445;uc007get.1;s anti-Mullerian hormone	11705	chr10	80805247
Ky	NM_024291;NM_024291;uc009rfp.1;s kyphoscoliosis peptidas	16716	chr9	1.03E+08
4921507P0	NM_027564;NM_027564;uc009bxf.1DNA 4921507P07 gene (4	70821	chr6	50573303
Slc6a2	NM_009209;NM_009209;uc009muh.2;otransmitter transporter,	20538	chr8	92961046
AK045688	AK045688	uc007wxx.1length enriched library, clone:B23030	chr15	81800790
Fcgbp	U0011226;U0011226;uc009fxt.2;agment of IgG binding protein (Fcgbp		chr7	28071235;
AK142999	AK142999	uc007agf.1;CURSOR (COAT POLYPROTEIN) [CON	chr1	7375887
Lect1	U10701;AK0;NM_010701;utg.2;uc010;ocyte cell derived chemota	16840	chr14	79637689
Them5	U517;NM_0;NM_02541;qfv.2;uc000;terase superfamily memb	66198	chr3	3254;9434;
Ido1	NM_008324;NM_008324;uc009lfa.1;oleamine 2,3-dioxygenas	15930	chr8	24584140
Gucy2f	U46;NM_00;U0010075;ulq.2;uc033;is guanylate cyclase 2f (Gucy2f), mRNA		chrX	9288;1420;
Hpcal4	NM_174998;NM_174998;uc008uox.1;us hippocalcin-like 4 (Hpc	170638	chr4	1.23E+08
Edar	NM_01010;NM_01010;uc007fdh.2;ectodysplasin-A receptor	13608	chr10	58600787
Nol4	U199024;A1024;NM_00;uc008efo.2;usculus nucleolar protein	319211	chr18	22693154
Cbln1	NM_019626;NM_019626;uc009mqr.1;rebellin 1 precursor prote	12404	chr8	87468852
Mylk3	U1;AK16521;NM_175441;uc009mpt.1;nyosin light chain kinase 3	213435	chr8	7052;8532;
Dnmt3l	U284197;NM;284197;NM;fxh.2;uc000;cytosine-5-)-methyltransf	54427	chr10	2286;7804;
Grem2	U5545;NM;NM_011823;foe.1;uc000; cysteine knot superfamil	23893	chr1	6774;1748;
Kcnh5	NM_172805;NM_172805;uc007nwz.2d channel, subfamily H (e	238271	chr12	74897216
Galnt14	U27864;AK0;NM_027864;dnl.2;uc000;mine:polypeptide N-acety	71685	chr17	2783;7349;
Gm13544	NR_040365	uc008jsq.1;d gene 13544 (Gm13544), long non-c	chr2	58276778
Grk1	NM_011881;NM_011881;uc009kxw.2;tein-coupled receptor kir	24013	chr8	13405080
Serpina5	NM_172953;NM_172953;uc007ows.1) peptidase inhibitor, clad	268591	chr12	1.04E+08
Hhip	NM_020255;NM_020255;uc009mix.2;edgehog-interacting prote	15245	chr8	79965850
Fam57b	U20734;NM;?;NM_02999;jsx.1;uc000;with sequence similarity 5	68952	chr7	2682;1268;
Cbln2	U72633;BC0;NM_172633;fvc.1;uc000;rebellin 2 precursor prote	12405	chr18	1109;8671;
Rbfox1	U021477;BC;3188;NM;abb.1;uc007ing protein, fox-1 homolog (C. elegan		chr16	4792;6173;

Kcnt1	3;AK08611145403;NM_001145403.1;uc008ito.1;ssium channel, subfamily T, member 1	chr2	3853;25908
Pde6c	170959;NM_170959;NM_170959.1;uc008sterase 6C, cGMP specific,	chr19	38132780
Klhdc7a	NR_035519NM_173421uc008vmt.1lch domain containing 7A	chr4	1.4E+08
Elavl4	598;DQ460598;NM_001145403.1;uc012hal, abnormal vision, Dros	chr4	3736;11021
170003002	NR_045345 uc007hch.100030020 gene (1700030020Rik), lor	chr10	1.17E+08
Slc6a11	NM_17289(NM_17289uc009dhs.1eurotransmitter transport	chr6	1.14E+08
St8sia1	NM_01137(NM_01137uc009epv.1-neuraminide alpha-2,8-si	chr6	1.43E+08
Gm11744	1163318;AKM_0011633nlx.2;uc007predicted gene 11744 (Gn	chr11	3533;11661
Slc25a42	1007570;AKM_0010075!gex.1;uc00carrier family 25, member	chr8	70184339
Kl	1088;NM_013823auk.2;uc00s musculus klotho (Kl), mF	chr5	1.51E+08
Fer1l5	176;KC4409(NM_0012770uc007aqb.2 fer-1-like 5 (C. elegans) (Fer1l5), mRI	chr1	36372290;
AK016085	AK016085 uc008jyx.1 enriched library, clone:4930550G17	chr2	69885727
Ccl17	NM_01133(NM_01133uc009mwz.2mokine (C-C motif) ligand	chr8	94810452
Gsg1l	(NM_0011014(NM_0011014 uc009jqp.2usculus GSG1-like (Gsg1l),	chr7	1.26E+08
Ppp1r1b	8;AY640621(NM_144828uc007lfz.1;tase 1, regulatory (inhibitc	chr11	98349995;
Hsd17b3	NM_00829(NM_00829uc007qyf.1roid (17-beta) dehydroge	chr13	64058273
Edn2	NM_00790(NM_00790uc008unb.1sculus endothelin 2 (Edn2	chr4	1.2E+08
AK008705	AK008705 uc009mlp.1enriched library, clone:2210011C24 p	chr8	84010229
Pipox	NM_00895(NM_00895uc007kkm.2s pipecolic acid oxidase (F	chr11	77880614
Arid4b	;NM_194268122;NM_194268122.1uc007pnb.1ch interactive domain 4B	chr13	14063783;
Wdr95	309;NM_02944(NM_02944apv.1;uc009WD40 repeat domain 95 (	chr5	8678;1495;
Pla2g5	122954;NM_122954;NM_122954.2;uc008s phospholipase A2, gro	chr4	1.39E+08
4921513D1	AK014877 uc008dqa.141086; SubName: Full=Pr	chr17	79626676
Ppp1r16b	_153089;NM_153089;NM_153089.2;uc008nqo.2;hatase 1, regulatory (inhi	chr2	6629;15861
Lrrc66	NM_15356(NM_15356uc008xta.1ine rich repeat containing	chr5	73606641
Sgpp2	(NM_0010041(NM_0010041uc007bqe.1sine-1-phosphate phosph	chr1	78310345
Slc25a18	(NM_0010810(NM_0010810uc009dnq.1ly 25 (mitochondrial carri	chr6	1.21E+08
Ly6g6c	547;NM_023463(NM_023463cfl.1;uc008yte antigen 6 complex, loc	chr17	35067324
Wfdc9	(NM_0011604(NM_0011604uc008nvn.2 four-disulfide core doma	chr2	1.65E+08
Srrm3	NM_02140(NM_02140uc008zza.1e/arginine repetitive mati	chr5	6889;1358;
Ggps1	NM_01028(NM_01028uc007pmv.1geranyl diphosphate synt	chr13	2444;14051
Plp1	(NM_011123;NM_011123uc012hpb.1s proteolipid protein (my	chrX	1070;1368;
Tmprss13	(NM_0010133(NM_0010133 uc009pfr.1embrane protease, serine	chr9	45319099
Fam198a	K134876;NM_1743;NM_1743.1uc012hcv.1th sequence similarity 198, member	chr9	0987;12191
Sh3gl2	NM_01953(NM_01953uc008tlo.1 SH3-domain GRB2-like 2 (	chr4	85205455
Tbata	1017419;NM_1017419;NM_1017419.1uc007ffq.1ymus, brain and testes as	chr10	61175261;
Ankmy1	1700;NM_17285(NM_17285wpl.1;uc008at and MYND domain cor	chr1	92870128
AK214512	AK214512 uc009ize.1nce:ENSEMBL:Mouse-Transcript-ENS	chr7	1.06E+08
Lrrc7	58;BC1384(NM_0010813uc012dac.1;cine rich repeat containing 7 (Lrrc7),	chr3	1.58E+08
Nlrp2	NM_17769(NM_17769uc009fae.1mily, pyrin domain contai	chr7	5298546
Sim2	;NM_01137(NM_01137uc008aae.1-minded homolog 2 (Dros	chr16	5259;9412;
AK198271	AK198271 uc008ufz.1nce:ENSEMBL:Mouse-Transcript-ENS	chr4	1.16E+08
Gm19689	NR_045094 uc029tkw.1d gene, 19689 (Gm19689), long non-	chr17	83033591
Fam46c	142952;CCM_0011429qqu.2;uc03. sequence similarity 46, member C (Fa	chr3	1535;1004;
Hrasls	3482;NM_01375(NM_01375yvw.1;uc008is HRAS-like suppressor (H	chr16	9694;29211
T	NM_00930(NM_00930uc008ajq.1 musculus brachyury (T), n	chr17	8434422
Slc17a1	(NM_001170198;NM_001170198.2;uc007pvf.2;r family 17 (sodium phos	chr13	9017;23871

Enpep	AK0107934;NM_007934	rhz.1;uc009glutamyl aminopeptidase (Enpep), m	chr3	18593;12921
Atp12a	NM_138652	NM_138652uc007ubw.2ansporting, nongastric, al	chr14	56365067
Nlrp9b	NM_194058	NM_194058;uc009fnt.1nily, pyrin domain containing 9B (Nlrp	chr7	;20019109;
Mmp25	1033339;AKM_0010333	asq.1;uc01atrix metallopeptidase 25	chr17	;1005;2362!
Tef	;AK053229;3484;NM_0c007wxi.2;	lus thyrotroph embryonic	chr15	;81802672;
Cldn18	194921;NM194921;NM0	rer.2;uc009 musculus claudin 18 (Cld	chr9	99690796
AK019848	AK019848	uc029shu.1n enriched library, clone:4931406H21	chr14	25586546
Dcstamp	1512;NM_029422	NM_029422voj.2;uc007expressed seven transmembrane pro	chr15	39745929
Igdcc3	108988;BC010898	NM_008988qcv.1;uc009n superfamily, DCC subcla	chr9	65141188
Tenm2	11856;AK011856	NM_011856ilm.1;uc011neurin transmembrane protein 2 (Te	chr11	16668;3614!
Slc1a6	NM_009200	NM_009200uc007fyg.2affinity aspartate/glutamate	chr10	78780495
Icos	NM_017480	NM_017480uc011wlz.2nducible T cell co-stimulat	chr1	60977913
Chp2	NM_027363	NM_027363uc009jos.1 ineurin-like EF hand prote	chr7	1.22E+08
Hoxd1	NM_010467	NM_010467uc008kei.1ulus homeobox D1 (Hoxd	chr2	74762979
Cited1	276473;NM276473;NM0	tyo.3;uc003nsactivator with Glu/Asp-	chrX	1.02E+08
Akr1b7	NM_009731	NM_009731uc009bhd.2) reductase family 1, mem	chr6	34412361
Slc25a45	4;AK133879	NM_134154uc008gfr.1;carrier family 25, member	chr19	'8465;5877!
Prkcb	174;NM_008859	NM_008859jot.1;uc009s protein kinase C, beta (f	chr7	1.22E+08
Map2k6	943;X98067	NM_011943uc007mdt.1activated protein kinase kinase 6 (Ma	chr11	'9286;1103!
Faim2	_00103865	038658;NMuc007xpr.2as apoptotic inhibitory mc	chr15	.0119;9949'
Vsx2	107701;BC010770	NM_007701ofm.1;uc00visual system homeobox 2	chr12	84569851
Gm9866	NR_045868	NR_045868uc007nfm.2ulus predicted gene 9866 (Gm9866)	chr12	27140795
Pnmt	NM_008890	NM_008890uc007lgg.1thanolamine-N-methyltra	chr11	98386631
Fndc5	NM_027402	NM_027402uc008uwe.1ctin type III domain conta	chr4	1.29E+08
Stamos	NR_038162	uc008ikf.1;H3 domain and ITAM motif) 1, oppos	chr2	14070332
Doc2b	NM_007873	NM_007873uc007kev.1ulus double C2, beta (Doc	chr11	75769089
Wdr72	1033500;BC10010335	qre.1;uc009s WD repeat domain 72 (V	chr9	74110333
Hydin	AK142981;NM_172916	uc009nkr.1nemal central pair apparatus protein	chr8	1.1E+08
Kcns2	NM_0012717317;NM_00	uc033gtl.1;oltage-gated channel, subfamily S, 2	chr15	;34838048;
Cphx2	NM_175342	NM_175342uc007ssn.2mic polyadenylated home	chr14	!1903;2608:
D430041D05	1047;AK0525	NM_0010333;uc008ljr.1;DNA D430041D05 gene (D430041D05	chr2	!3074;1041!
Svs5	NM_009301	NM_009301uc008nui.1inal vesicle secretory prot	chr2	1.64E+08
Cuzd1	NM_008411	NM_008411uc009kbc.1id zona pellucida-like dom	chr7	1.31E+08
CK137956	NM_0011347	NM_0011347 uc012dln.1NA sequence CK137956 (C	chr4	1.28E+08
Plekhg4	1029859;NM10010813;	uc009ncx.1ontaining, family G (with RhoGef don	chr8	105375380
Srgap3	8;AK051262	NM_080448uc009deh.1D Rho GTPase activating protein 3 (Sr	chr6	112738882
Ak8	NM_0010338	NM_0010338 uc008izd.1ulus adenylate kinase 8 (A	chr2	28700160
Shisa2	NM_145463	NM_145463uc007uer.2a homolog 2 (Xenopus lae	chr14	59625280
Cpn1	1629;NM_030703	NM_030703hpb.1;uc009oxypeptidase N, polypeptide 1 (Cpn1)	chr19	!6307;4396:
Exoc3l2	BC148721	uc009flz.1 Full=Putative uncharacteri	chr7	19489604
Pdyn	863;NM_00863;NM_00	mic.2;uc009musculus prodynorphin (f	chr2	1.3E+08
Otogl	NM_0011775	NM_0011775 uc011xnc.1sculus otogelin-like (Otogl	chr10	1.08E+08
Greb1	764;AK045764;NM_00	rrb.1;uc007lated by estrogen in brea	chr12	;16670614;
Myo7b	NM_032394	NM_032394uc008eix.2;culus myosin VIIB (Myo7b	chr18	31959233
Dydc2	NM_027717	NM_027717uc007tck.1 PY30 domain containing 2	chr14	41049208
Mylk2	NM_0010810	NM_0010810 uc008ngs.2 polypeptide kinase 2, ske	chr2	1.53E+08
Rasl12	;AK087136;3158;NM_	(uc012gvk.1sculus RAS-like, family 12 (Rasl12)	chr9	65398487

Acsm3	12441;AK0:NM_212442	9jlt.1;uc005ynthetase medium-chain f	20216	chr7	'4512;11970
Scrn2	VM_14602	VM_14602uc007ldk.2.usculus secernin 2 (Scrn2)	217140	chr11	97029951
Gm21284	NR_078345	uc009cnu.2.d gene, 21284 (Gm21284), long non-		chr6	83568038
Ciita	1;NM_0012_00124376	1uc007ydt.1.usculus class II transactivator (Ciita)		chr16	;10480071;
AK047272	AK047272	uc007msh.1gth enriched library, clone:	268515	chr11	1.2E+08
Perm1	VM_17241	VM_17241uc008wgm.1.d ESRR induced regulator	74183	chr4	1.56E+08
Tox	AK161718;NM_145711	uc008rxt.1.ection-associated high mc	252838	chr4	);6687385;(
AK144897	AK144897	uc007ytv.1:h enriched library, clone:G730049K0		chr16	23520318
Oprl1	541;NM_01012;NM_002	uc008onj.culus opioid receptor-like	18389	chr2	181715347
Alpk2	VM_0010372	VM_0010372 uc008feu.3.culus alpha-kinase 2 (Alpk)	225638	chr18	65265530
Kcnj10	039484;CCM_0010394	'dqj.1;uc03:-rectifying channel, subfamily J, mem		chr1	1209;17230
St18	_001244693_001244693	uc007aga.1 suppression of tumoriger	240690	chr1	10050;6487;
493142911	24;NM_001VM_0010811	pac.1;uc005DNA 4931429111 gene (4	70989	chr9	40894848
Cln3	146311;NM146311;NM9jsa.1	uc009neural 3, juvenile (Batt	12752	chr7	'8371;1265'
Kcna3	VM_00841	VM_00841uc008qwp.2.d channel, shaker-related	16491	chr3	1.07E+08
Gja1	17559;AY42NM_01028	fcc.2;uc007ap junction protein, alpha 1 (Gja1), m		chr10	;56377272;
Scn1a	33;AK0460(NM_01873	;uc008jxa.1.hannel, voltage-gated, type I, alpha (S		chr2	'0781;6634'
4833423E2M_0010816	VM_0010816	uc008kkj.1 DNA 4833423E24 gene (4	228151	chr2	85484091
Slc22a29	6;AF536195VM_17277	uc008glu.1;carrier family 22. member	236293	chr19	8160167
TRAV7-6	AK050592	uc007tru.1.e: Full=TRAV7-6; Flags: Fragment		chr14	53324631
Kcnk9	VM_0010338	VM_0010338uc007wbk.1n channel, subfamily K, m	223604	chr15	72512118
Enam	VM_01746	VM_01746uc008xzt.2 usculus enamel (Enam),	13801	chr5	88487974
Prss27	VM_17544	(VM_17544uc008aug.1)s protease, serine, 27 (Pr	213171	chr17	24038242
AK030561	AK030561	uc008pic.1.ength enriched library, clone:533043		chr3	58788406
Uchl1os	NR_102714	uc008xpe.1.al hydrolase L1, opposite strand (Ucl		chr5	66626494
4930539MNR_040597		uc008oox.20539M17 gene (4930539M17Rik), lo		chr3	9061963
AK135813	AK135813	uc007myz.1gth enriched library, clone:7420420P		chr12	5808216
Eef1a2	VM_00790	(VM_00790uc008olh.1 anslation elongation fact	13628	chr2	1.81E+08
Myh13	1081250;AKM_0010812	jmu.1;uc009avy polypeptide 13, skelet	544791	chr11	);4784;6732'
Acan	1351;NM_0NM_00742	4hxw.1;uc009usculus aggrecan (Acan),	11595	chr7	17751;7905:
Rnf213	U76754	uc007mqo.1Uncharacterized protein; Flags: Fragn		chr11	1.19E+08
Slc22a3	VM_01139	VM_01139uc008aku.1 22 (organic cation transp	20519	chr17	12419973
1700009P1M_0010812	VM_0010812	uc007dna.1DNA 1700009P17 gene (1	75472	chr1	1.71E+08
Fam211b	VM_19886	(VM_19886uc029qyw.1equence similarity 211, m	192734	chr10	75550124
Zfyve28	1015039;AKM_0010150	xca.1;uc008ger, FYVE domain containi	231125	chr5	1968;3419-
P4ha3	VM_17716	1VM_17716uc012fqc.1. 4-dioxygenase (proline 4-	320452	chr7	);5519;1002'
Cebpa	VM_00767	VM_00767uc009gjl.2 enhancer binding protein	12606	chr7	35119292
Gm5083	NR_045285	uc007qgn.2ted gene 5083 (Gm5083), long non-cc		chr13	44121166
Cyp2j13	3C016446;NM_14554	;uc008ttf.1;0, family 2, subfamily j, pc	230459	chr4	96042659
AK131873	AK131873	uc008igm.1.ngth enriched library, clone:2010309		chr2	6471993
Pcdhb1	VM_05312	(VM_05312uc008epm.1.s protocadherin beta 1 (Pc	93872	chr18	37264997
Nt5c1a	VM_0010855	VM_0010855uc008uoy.1-nucleotidase, cytosolic IA	230718	chr4	1.23E+08
Gm20735	NR_015497	uc029wwq.1.d gene, 20735 (Gm20735), long non-		chr8	1.22E+08
Kif4-ps	NR_033653	uc011yqh.1ly member 4, pseudogene (Kif4-ps), n		chr12	1.01E+08
Gm904	VM_0010337	VM_0010337 uc007qld.1)s predicted gene 904 (Gn	380845	chr13	50643227
Nat3	18674;CCDSVM_00867	4lvj.1;uc035s N-acetyltransferase 3 (Nat3), mRN		chr8	13853;6754'
A630010A(33556;AK139693	uc012abk.1;uc0030010A05	gene (A630010A05Rik), lor		chr16	12316;14580

Olf2r283	NM_147036;NM_147036;uc007xmi.1	olfactory receptor 283 (O	259038	chr15	98378178
Mup5	NM_008649;NM_008649;uc008tbq.1	major urinary protein 5 (	17844	chr4	61831318
4930578MNR_045991	uc007xol.1;0578M01	gene (4930578M01Rik), lo		chr15	98985964
Psg19	_011964;X9;NM_011964	fas.1;uc00nancy specific glycoprotei	26439	chr7	18789124
Sycp1-ps1	NR_024208	uc012far.1	plex protein 1, pseudogene 1 (Sycp1-	chr7	18786301
AK143961	AK143961	uc007mds.1	nriched library, clone:F530007B04 pr	chr11	1.1E+08
Grin2b	59263;AK1;NM_008173	elq.1;uc012eptor, ionotropic, NMDA2	14812	chr6	9804;1360
AK138941	AK138941	uc008jcc.1	nriched library, clone:A530052B1!	chr2	30713149
AK008288	AK008288	uc008elz.1	length enriched library, clone:2010005	chr18	35182491
Slc22a8	NM_001164;NM_001164	uc012bia.1	mily 22 (organic anion tra	chr19	1253;8593
Adamts16	NM_172053;NM_172053	uc011zbn.1	se (reprolysin type) with thrombospo	chr13	14826;7072
Spin2c	005370;CCM_0010053	jux.1;uc009indlin family, member 2C	278240	chrX	13192;1538
Ajap1	M_0010992;M_0010992	uc008was.1	ns junction associated pr	chr4	1.53E+08
Grm3	NM_18185;NM_18185	uc008wll.1	mate receptor, metabotrc	chr5	9485235
Itpka	NM_146125;NM_146125	uc008luf.1	l 1,4,5-trisphosphate 3-ki	chr2	1.2E+08
Zfp467	_00108541;085415;NM	uc012eld.1	ulus zinc finger protein 467 (Zfp467)	chr6	17691;4843
Dll3	NM_007866;NM_007866	uc009fye.1	s delta-like 3 (Drosophila)	chr7	28293554
Cdc20b	M_0012814;M_0012814	uc033gng.1	cell division cycle 20B (C	chr13	1.13E+08
Ankk1	3C145078;NM_172922	uc009pjb.1	eat and kinase domain co	chr9	15221;4941
AK029418	AK029418	uc009bzx.1	th enriched library, clone	chr6	54551518
Trim62	NM_178111;NM_178111	uc008uvo.1	artite motif-containing 6	chr4	1.29E+08
Ccdc135	83;NM_001;M_0010427	nxr.1;uc009	-coil domain containing 1	chr8	95055102
Gm2016	l28;NM_00;M_0011226	gep.1;uc00	predicted gene 2016 (Gn	chr12	14071;8787
Tmem206	NM_025864;NM_025864	uc007ech.1	smembrane protein 206 (	chr1	1.91E+08
Zcchc12	IM_028325;NM_028325	uc033jpf.1	er, CCHC domain containi	chrX	17431;3619
Tgfa	l31199;AK1;NM_031199	crj.2;uc009	sforming growth factor a	chr6	86195250
Lemd1	l50;AK0160;M_0010332	uc007coi.2	;EM domain containing 1 (Lemd1), ml	chr1	16313;1321
Gabbr2	M_0010811;M_0010811	uc008sug.1	nobutyric acid (GABA) B ri	chr4	46663897
Nkx3-1	NM_010921;NM_010921	uc007umd.1	ription factor, locus 1 (Dr	chr14	69190691
Slc22a2	NM_013667;NM_013667	uc008akw.1	22 (organic cation transp	chr17	12584188
Lama3	80;AK1387;NM_010683	uc008ecf.2	ulus laminin, alpha 3 (Lam	chr18	14023;1250
Sult2b1	l17465;AF4;NM_017465	gxa.1;uc009	ase family, cytosolic, 2B, l	chr7	45729982
Fam83f	NM_145986;NM_145986	uc007wvr.1	sequence similarity 83, r	chr15	80671846
Dhh	NM_007857;NM_007857	uc007xoh.2	ulus desert hedgehog (Dh	chr15	98893026
Dppa4	610;NM_00610;NM_007zjl.1	uc007	lopmental pluripotency a	chr16	48283734
Tspan15	l97996;BC0;NM_197996	fgw.1;uc00	ulus tetraspanin 15 (Tspan15), mRNA	chr10	62185395
AK085275	AK085275	uc007don.1	gth enriched library, clone:D630003P	chr1	1.71E+08
Gad1	l08077;AK1;NM_008077	jzm.1;uc009	lutamate decarboxylase	chr2	170563688
Nfe2	NM_008685;NM_008685	uc007xxu.1	ear factor, erythroid deriv	chr15	1.03E+08
Chst10	l50676;BC0;NM_145142	wjt.1;uc00	ohydrate sulfotransferase 10 (Chst10)	chr1	170142;3886
Aldh3a1	436;NM_00436;NM_00	jhd.2;uc00	dehydrogenase family 3,	chr11	61208741
Reep6	292;NM_00292;NM_00	gct.2;uc00	s receptor accessory prot	chr10	80330144
Kbtbd13	NM_028974;NM_028974	uc009qde.2	nd BTB (POZ) domain cor	chr9	65388683
Mfsd7c	NM_145447;NM_145447	uc007ohe.1	or superfamily domain co	chr12	85746538
4933413JO	5003;NR_038005	uc007ssp.1	uc02933413JO9 gene (4933413JO9Rik), lon	chr14	17546;2636
Zc3h7b	l16;AK1719;M_0010810	uc007wxe.1	nger CCCH type containing 7B (Zc3h7)	chr15	14847;8177
Timp4	l814;NM_0;NM_080639	dip.1;uc00	nhibitor of metalloproteinase 4 (Tim	chr6	15615;1152

Ptpr	NM_001161	NM_001161uc007hbt.2	tyrosine phosphatase, re	19279	chr10	7257;1160:
Inhbb	NM_008381	NM_008381uc007cir.1	culus inhibin beta-B (Inhbb	16324	chr1	1.19E+08
C530008M29	AK01645	NM_0011637	xvh.2;uc007NA C530008M17 gene (C	320827	chr5	0598;7680:
Unc13b	348;BC0247468	NM_00spg.2;uc008unc-13	homolog B (C. elegans) (Unc1		chr4	3806;4305:
Wfdc10	NM_0010395	NM_0010395uc008nvo.1	our-disulfide core domain	629756	chr2	1.65E+08
Synpo2	NM_080451	NM_080451uc012cxa.1	ulus synaptopodin 2 (Synp	118449	chr3	1.23E+08
Sh2d4a	NM_028182	NM_028182uc009lwe.2	H2 domain containing 4A	72281	chr8	68276527
Trpm6	NM_153417	NM_153417uc008gyb.1	ential cation channel, sub	225997	chr19	8624;1874:
Srms	NM_011481	NM_011481uc008oll.1	inal regulatory tyrosine a	20811	chr2	1.81E+08
Prodh	938;NM_0	NM_011172	mu.1;uc007; proline dehydrogenase (l	19125	chr16	0356;1807:
Cnr1	CDS18025	NM_00772	uc012dbm.1; cannabinoid receptor 1 (brain) (Cnr1), r		chr4	3613;3392:
Cacng5	1;BC12089199301	NM_007mbb.1	nnel, voltage-dependent,	140723	chr11	4604;1078:
Slc25a48	NM_17780	NM_17780uc007qsn.2	carrier family 25, member	328258	chr13	56438354
Gata1	80;NM_00	NM_00808	snl.2;uc009; GATA binding protein 1 (Gata1), mRI		chrX	9259;7963:
Kcnb2	NM_0010985	NM_0010985uc007aje.1	ed channel, Shab-related	98741	chr1	15312451
Dtna	808;NM_0	5808;NM_2uc008eft.2	sculus dystrobrevin alpha (Dtna)		chr18	23310019;
Dntt	345;NM_00345	NM_003hlo.1;uc008oxynucleotidyltransferase		21673	chr19	41029274
Cxxc4	NM_0010043	NM_0010043uc008rkw.2	culus CXXC finger 4 (Cxxc	319478	chr3	1.34E+08
Klhl23	NM_17778	NM_17778uc008jys.2	culus kelch-like 23 (Klhl2	277396	chr2	69822369
Cntn4	73004;BC04_00110975	1uc012epu.1; musculus contactin 4 (Cntn4)			chr6	9367;1061:
2410004I0	NR_037963	uc007lta.2	410004I01 gene (2410004I01Rik), lon		chr11	1.03E+08
Olf316	NM_0010118	NM_0010118uc007jce.1	olfactory receptor 316 (O	258064	chr11	58757666
Aqp6	75087;DQ8	NM_17508	xpw.1;uc007sculus aquaporin 6 (Aqp6	11831	chr15	99601399
Nkx2-6	10920;AF0	NM_01092	umc.2;uc007ulus NK2 homeobox 6 (Nkx	18092	chr14	1801;6917:
Acss1	NM_08057	NM_08057uc008muf.2	thetase short-chain famil	68738	chr2	1.51E+08
Chrm4	7699;CCDS	NM_00769	9;uc003;nergic receptor, muscarinic 4 (Chrm4		chr2	2188;9192:
AK007907	AK007907	uc009aoy.1	ngth enriched library, clone:1810059		chr5	1.49E+08
Prkce	11104;AK0	NM_01110	duh.2;uc007; protein kinase C, epsilon	18754	chr17	7784;8616:
Vil1	NM_00950	NM_00950uc007bmb.2	musculus villin 1 (Vil1), m	22349	chr1	74409383
Hspa1l	13558;CCDS	NM_01355	hdb.1;uc007heat shock protein 1-like (	15482	chr17	6986;3497:
Rbm24	NM_0010814	NM_0010814uc007qhe.1	A binding motif protein 2	666794	chr13	46418299
Myo1a	76;NM_001	0010812	hkh.2;uc007sculus myosin IA (Myo1a)	432516	chr10	9327;1277:
Gdnf	010275;U7	NM_01027	5vef.1;uc007l line derived neurotrophin	14573	chr15	7811010
Nccrp1	NM_0010811	NM_0010811uc009fzg.2	c cell receptor protein 1 h	233038	chr7	28543595
Slco4a1	1688;BC033	NM_148933	oje.2;uc007nic anion transporter fam	108115	chr2	180472404
Shank2	01113373;3373	NM_0009kqe.2	s SH3/ankyrin domain ger	210274	chr7	144396625
Mat1a	NM_13365	NM_13365uc007tcm.2	ine adenosyltransferase I	11720	chr14	41105032
Masp1	08555;AK0	NM_00855	ytu.1;uc007-binding lectin serine peptidase 1 (Ma		chr16	9320;2346:
Fam222a	NM_0010041	NM_0010041uc008yzt.1	equence similarity 222, m	433940	chr5	1.15E+08
Nrap	;NM_0012	8M_198059	1uc008hyu.3nebulin-related anchoring protein (Nr		chr19	0040;5636:
AK142135	AK142135	uc033gch.1	enriched library, clone:D230048N02		chr12	3451661
Hist1h1b	NM_02003	NM_02003uc007pri.1	histone cluster 1, H1b (Hi	56702	chr13	21779882
Ldoc1l	NM_17763	NM_17763uc007xcc.1	er, down-regulated in cai	223732	chr15	84553397
Cntn1	3C055360	NM_00115	9;uc007xil.2; musculus contactin 1 (Cntn1)		chr15	1164;9194:
Lrrc55	21;NM_001	0010333	byq.1;uc007ine rich repeat containing 55 (Lrrc55)		chr2	2333;8518:
Reep1	NM_17860	NM_17860uc009chc.2	ceptor accessory protein	52250	chr6	71707680
Tmsb15a	NM_03010	NM_03010uc009uhj.1	s thymosin beta 15a (Tms	78478	chrX	1.36E+08

Amigo3	NM_177275;NM_177275uc009rom.1h molecule with Ig like dor	320844	chr9	1.08E+08
Sspo	.42699;AJ49;NM_173428bul.1;uc02sculus SCO-spondin (Sspo), mRNA		chr6	:7901;4848(
Slc13a4	428;NM_172892bip.2;uc0013 (sodium/sulfate symporters), men		chr6	:6502;3526'
Lpl	08509;AK0;NM_008509wq.1;uc00sculus lipoprotein lipase (Lpl), mRNA		chr8	68880554
Rnf182	6480;NM_183204gli.1;uc007 ring finger protein 182 (Rnf182), mR		chr13	.5796;4366'
Aff2	081;NM_008032tjb.1;uc00F4/FMR2 family, member 2 (Aff2), m		chrX	:0330;6985(
3830417A127512;CCDS	NM_027512jqf.1;uc00DNA 3830417A13 gene (3830417A13		chrX	'7440;6417:
Kif1a	147640;AY4110315;NMcd.2;uc007ilus kinesin family membe	16560	chr1	93015455
Hecw2	001883;NM001883;NMzk.2;uc011w domain containing E3 ul	329152	chr1	;53930814;
2900011O(NM_14451	NM_14451uc007ygu.1DNA 2900011O08 gene (2	67254	chr16	13986636
Gatm	NM_025961NM_025961uc008maw.ferase (L-arginine:glycine	67092	chr2	1.23E+08
1600029O(NR_033522	uc012gul.11600029O15 gene (1600029O15Rik),		chr9	58202896
Adora1	10;NM_001A_001008533flj.1;uc03ilus adenosine A1 receptc	11539	chr1	1.34E+08
Slc15a2	301;NM_00301;NM_00afh.1;uc00amily 15 (H+/peptide tran	57738	chr16	'1876;3675(
Grhl3	M_0010137M_0010137 uc008vgr.1ainyhead-like 3 (Drosophil	230824	chr4	1.36E+08
Dmbt1	909;NM_00776kax.1;uc009d in malignant brain tumc	12945	chr7	1.31E+08
Cage1	568;NM_02772qdf.1;uc007ilus cancer antigen 1 (Cag	71213	chr13	:0910;3800(
Ankrd36	3C120817;NM_02381uc007hwr.1hkyrin repeat domain 36 (	76389	chr11	:9683;5628:
Lrrc63	NM_027581NM_027581uc007uql.2ine rich repeat containing	70859	chr14	75084302
Alox12b	NM_009659NM_009659uc007jpk.1nate 12-lipoxygenase, 12f	11686	chr11	69157071
Mug1	NM_008649NM_008649uc009dor.1ilus murinoglobulin 1 (Mu	17836	chr6	1.22E+08
Nlrp14	M_0010028M_0010028 uc009jax.2aily, pyrin domain contain	76858	chr7	1.07E+08
Fam167a	NM_177628NM_177628uc007uhr.2equense similarity 167, m	219148	chr14	63436393
Casq1	865;NM_009813dqa.2;uc00ilus calsequestrin 1 (Casq	12372	chr1	1.72E+08
AK198904	AK198904 uc008bss.1nce:ENSEMBL:Mouse-Transcript-ENS		chr17	29332075
Med12l	77855;AK0;NM_177858pii.2;uc00ator complex subunit 12-like (Med12l		chr3	;59005824;
Rnf152	8;NM_1787160368;NMuc011wpz.1ulus ring finger protein 152 (Rnf152)		chr1	'6916;1052(
Abcc2	NM_013806NM_013806uc008how.1ette, sub-family C (CFTR/N	12780	chr19	43782307
Plcb2	8;AK045469NM_177568;uc008lsi.1ulus phospholipase C, beta 2 (Plcb2)		chr2	.4238;1187:
Fmo4	562;NM_144878dhw.1;uc00i containing monooxygen	226564	chr1	:3882;1628(
Gprasp2	163017;CCIM_0011630jtc.1;uc009upled receptor associated	245607	chrX	:9033;1358:
Rab25	NM_016899NM_016899uc008pvn.1, member RAS oncogene f	53868	chr3	88542028
Esr2	NM_20770.0157;NM_uc007nxw.1ilus estrogen receptor 2 (beta) (Esr2)		chr12	76120418
Tmc5	2;AK02840105252;NMuc009jke.2;membrane channel-like g	74424	chr7	:7296;1186:
Cpvl	_001289714_001289714uc012emc.2carboxypeptidase, vitellogenic-like (C		chr6	53873278
Nap115	NM_021432NM_021432uc009cdg.1some assembly protein 1-	58243	chr6	58905232
Slc16a14	NM_027921NM_027921uc007btd.1nonocarboxylic acid trans	71781	chr1	84906704
Pak3	NM_008778NM_008778uc009umi.2rotein (Cdc42/Rac)-activated kinase		chrX	:3286;1435:
Brdt	_054054;N054;NM_00uc008ymb.1us bromodomain, testis-sj	114642	chr5	:9771;1073:
AK157878	AK157878 uc009mlj.1iched library, clone:F930003C09 proc		chr8	83932328
Inha	NM_010564NM_010564uc007bps.1sculus inhibin alpha (Inha	16322	chr1	75507076
Oas1c	NM_033541NM_033541uc008zid.1 oligoadenylate synthetas	114643	chr5	1.21E+08
Atp1b2	NM_013415NM_013415uc007jqo.1/K+ transporting, beta 2 p	11932	chr11	69599749
Cdc6	79;NM_011025779;NMuc007lhw.1sculus cell division cycle (	23834	chr11	:8150;9890'
Pcsk6	60;NM_0111048hw.2;uc00rotein convertase subtilisin	18553	chr7	65862135
Ptch1	B214501;NM_008957uc007qxy.1us patched homolog 1 (Ptch1), mRNA		chr13	.1531;6354:
Arnt2	AK032628;NM_007488uc009ieh.2;arbon receptor nuclear translocator 2		chr7	84246274

Ptprv	NM_007955;NM_007955 uc007csr.2 osine phosphatase, receptor type, V (	chr1	1.35E+08
Hhat1	29095;NR_CNM_029095sdx.2;uc009s hedgehog acyltransferase 1 (Hhat1)	chr9	1.22E+08
Gm595	M_0010854;M_0010854 uc009tcu.1 is predicted gene 595 (Gm 209005	chrX	48841465
Celf3	);NM_1724289620;NM;uc008qgp.2UGBP, Elav-like family member 3 (Celf3)	chr3	12721;94478
Soga2	963;NM_00963;NM_00963du.2;uc009ulus SOGA family member 2 (Soga2)	chr17	17965;66330
Xylb	;AK167735;I9568;NM_(uc009sav.2ylulokinase homolog (H. influenzae) (Xylb)	chr9	119357380
Rasgrf1	_011245;NM_011245;NM_00909qzt.1 pecific guanine nucleotide exchange factor 1 (Rasgrf1)	chr9	89909774
Zkscan16	M_0010993;M_0010993 uc008szl.1 with KRAB and SCAN domain (Zkscan16)	chr4	58943627
Gucy2e	1282;NM_01282;NM_008197jpn.2;uc009s guanylate cyclase 2e (Gucy2e)	chr11	18116;69220
Vnn1	NM_011704;NM_011704uc007eqc.2nusculus vanin 1 (Vnn1), rat	chr10	23894687
Nrm	NM_134122;NM_134122 uc008cis.1 nuclear envelope membrane protein 1 (Nrm)	chr17	35861317
Lrrn1	0399;NM_CNM_008518itr.1;uc009rich repeat protein 1, neuronal (Lrrn1)	chr6	109725;10750
Spock2	152994;AK152994;NM_052994fel.1;uc009wcv and kazal-like domains proteoglycan 2 (Spock2)	chr10	60106256
Nkx2-3	NM_008699;NM_008699uc008hok.1lus NK2 homeobox 3 (Nkx2-3)	chr19	43612324
Abca13	1546;NM_01546;NM_178259iaa.1;uc009sette, sub-family A (ABC1), member 13 (Abca13)	chr11	9191941
Slc37a2	258;NM_00258;NM_00258oul.2;uc00937 (glycerol-3-phosphate 3-kinase, cytosolic) (Slc37a2)	chr9	37229148
Fbxo16	143554;AK0143554;NM_015797ujd.1;uc009lus F-box protein 16 (Fbxo16), mRNA	chr14	65266700
Kitl	40534;AK040534;NM_013598uc007gxr.1;nusculus kit ligand (Kitl), rat	chr10	100015823
AK040967	AK040967 uc007rjl.1 length enriched library, clone:A530052	chr13	89739459
Plekhd1	1177503;AK1177503;NM_0011775obf.2;uc009ntaining, family D (with coiled-coil domain) (Plekhd1)	chr12	12600;80720
AK039373	AK039373 uc007jwn.1gth enriched library, clone:A330033M	chr11	70748704
Slc26a7	NM_145947;NM_145947uc008saz.2: carrier family 26, member 7 (Slc26a7)	chr4	14505196
Cecr6	NM_033567;NM_033567uc009dnk.1ome chromosome region, chromosome 6 (Cecr6)	chr6	1.2E+08
Pou2f3	NM_011139;NM_011139uc009pbe.1ain, class 2, transcription factor 3 (Pou2f3)	chr9	43123938
Fam19a5	R_045510;NR_045510;NM_00907xef.1th sequence similarity 19, member A1 (Fam19a5)	chr15	187715546;
Fgf13	NM_010200;NM_010200uc009thu.2us fibroblast growth factor 13 (Fgf13)	chrX	12149;59130
Flrt1	11411;CCDS11411;NM_201411gkh.3;uc03leucine rich transmembrane protein 1 (Flrt1)	chr19	12010;70950
Ccdc96	NM_025725;NM_025725uc008xeq.1d-coil domain containing protein 96 (Ccdc96)	chr5	36484587
Stpg1	NM_030189;NM_030189uc012dnb.1 tail PG rich repeat containing protein 1 (Stpg1)	chr4	15986;13540
Ttll11	129774;BC1129774;NM_029774hmq.1;uc009osine ligase-like family, member 11 (Ttll11)	chr2	35751225
Gm13225	BC086318 uc008vrz.1Name: Full=Protein Gm13225	chr4	1.46E+08
Slit1	NM_015748;NM_015748uc008hmf.2slit homolog 1 (Drosophila) (Slit1)	chr19	41600256
Xylt1	AK033309;NM_017564uc012fsp.1;lus xylosyltransferase 1 (Xylt1)	chr7	15491;11730
Abhd3	NM_134130;NM_134130uc008eba.1rdrolase domain containing protein 3 (Abhd3)	chr18	10644410
Vat1l	NM_173016;NM_173016uc009noa.1sport protein 1 homolog-1 (Vat1l)	chr8	1.14E+08
Fbxo32	NM_026346;NM_026346uc007vtk.3 lus F-box protein 32 (Fbxo32)	chr15	58175878
Gpr68	75493;NM_0175493otb.2;uc009G protein-coupled receptor 68 (Gpr68)	chr12	16681;10080
Atp8b5	77195;AK077195;NM_177195spl.1;uc009se, class I, type 8B, member 5 (Atp8b5)	chr4	43267158
Gylt1b	13;AK08179166633;NMuc008kxq.2us glycosyltransferase-like 1B (Gylt1b)	chr2	18068;92360
Neo1	M_001042584;NM_001042584uc009pxj.1is musculus neogenin (Neo1)	chr9	14679;58910
Gjb3	M_00116001160012;NMuc008uus.2 us gap junction protein, beta 3 (Gjb3)	chr4	15234;12730
Rho	NM_145383;NM_145383uc009djk.1usculus rhodopsin (Rho), rod outer segment (Rho)	chr6	1.16E+08
Prrg2	1453;NM_01453;NM_022999gsw.1;uc009(G-carboxyglutamic acid) synthase 2 (Prrg2)	chr7	45053606
Rnf144b	170643;NM170643;NMqhz.2;uc009lus ring finger protein 144 (Rnf144b)	chr13	14002;47120
1700019B21	5442;NR_045443 uc009til.1;uc029N cDNA 1700019B21 gene (1700019B21)	chrX	62510538
Plxdc1	199;NM_00199;NM_00199lfc.2;uc011us plexin domain containing protein 1 (Plxdc1)	chr11	97923236
Slc6a12	1532;NM_01532;NM_133661dok.1;uc009transmitter transporter, beta 12 (Slc6a12)	chr6	13087;12130

Tmem30b	NM_178715;NM_178715;uc007nwm.1;smembrane protein 30B (	238257	chr12	73543113
Nxf7	8;AJ305317NM_130888;uc009uhh.1;nuclear RNA export factor	170722	chrX	1.36E+08
Kcng1	uc010811;uc010811;uc008oat.1;g-gated channel, subfam	241794	chr2	1.68E+08
Zbtb39	4249;NM_1NM_198037;hkl.1;uc03;er and BTB domain containi	320080	chr10	1558;1277:
Tmem180	1169;NM_0NM_029188;htl.1;uc008;smembrane protein 180 (	75146	chr19	46356879
Glb1l2	1057;NM_1NM_15380;opu.1;uc01;alactosidase, beta 1-like 2	244757	chr9	5287;2676:
Cyp19a1	107810;EU2NM_007810;omu.1;uc01l cds;Mus musculus cytoc	13075	chr9	3256;5416:
Fam181a	358;NM_00NM_0011957;yx.1;uc03;equence similarity 181, m	1.01E+08	chr12	4958;1033:
Rprm	NM_023396;NM_023396;uc008jrp.1;ependent G2 arrest med	67874	chr2	54084092
Tbx6	10951;NM_0NM_011532;ftu.1;uc00;musculus T-box 6 (Tbx6), r	21389	chr7	1.27E+08
Extl1	119578;AK1NM_019578;imu.1;uc00exostoses (multiple)-like 1	56219	chr4	1.34E+08
Pvrl1	NM_021424;NM_021424;uc009pbj.1;oliovirus receptor-related	58235	chr9	43744575
2900056M1	10269;NR_040270;uc029xnp.2;uc02;N cDNA 2900056M20 gene (2900056)		chrX	1.52E+08
Itgae	M_008399;18399;NM_;uc007jzx.2;tegrin alpha E, epithelial-e	16407	chr11	73090594
Unc13d	10010095;10010095;uc007mjt.1-13 homolog D (C. elegans:	70450	chr11	5410;1160:
Tyro3	1343;NM_01NM_019392;luq.1;uc00;TYRO3 protein tyrosine ki	22174	chr2	9513;1197:
Scara5	1903;NM_00903;NM_00ujn.2;uc007;er receptor class A, memb	71145	chr14	65666402
Sema3g	10010253;10010253;uc007sxe.1 main (lg), short basic dor	218877	chr14	31217872
Pzca	NM_028216;NM_028216;uc007wfr.2 prostate stem cell antiger	72373	chr15	74714838
Kcnn2	AK033158;ANM_080465;uc012bco.1;uctance calcium-activate	140492	chr18	9350;4526:
Rapsn	109023;AK0NM_009023;bzc.1;uc008;associated protein of the	19400	chr2	91035626
Zxda	NR_003292 uc009ttr.1 er, X-linked, duplicated A (Zxda), non-		chrX	94791284
Capn5	11767;NM_0NM_007602;ikd.1;uc00;usculus calpain 5 (Capn5),	12337	chr7	98121564
Epha8	NM_007939;NM_007939;uc008vis.1;ulus Eph receptor A8 (Eph	13842	chr4	1.37E+08
1700086L1	NR_030734;NR_030734;uc011ynu.1;N cDNA 1700086L19 gene (1700086)		chr12	74284275
Cyp26b1	13;NM_175177713;NMuc009coz.2;P450, family 26, subfamily	232174	chr6	84571413
Mycn	10783;NM_0NM_00870;nbg.2;uc00;ral related oncogene, neu	18109	chr12	12936092
Pcdhgc4	NM_033582;NM_033582;uc008erf.1;adherin gamma subfamily	93703	chr18	37815078
Prokr1	121381;AK1NM_021381;ctp.1;uc00; prokineticin receptor 1 (Prokr1), mRI		chr6	87578591
Abhd6	111887;AK1NM_025341;zfu.1;uc007;drolase domain containin	66082	chr14	12901;8002:
Gab3	NM_181584;NM_181584;uc009tpn.2;eptor bound protein 2-ass	210710	chrX	74988544
Kcnc4	NM_145922;NM_145922;uc008qxa.1;ed channel, Shaw-related	99738	chr3	1.07E+08
Gckr	NM_144909;NM_144909;uc008wyf.1;ucokinase regulatory prot	231103	chr5	31297580
1700008I0	NM_027952;NM_027952;uc009uhi.2;DNA 1700008I05 gene (1	71841	chrX	1.36E+08
Hdc	NM_008233;NM_008233;uc008mdr.2;is histidine decarboxylase	15186	chr2	1.27E+08
Zcchc18	3;NM_00100103551;C9ujk.1;uc00;finger, CCHC domain cont	66995	chrX	14637;1369:
Negr1	1039094;NM039094;NM;rvc.2;uc008;is neuronal growth regula	320840	chr3	1.57E+08
Pnma5	1100461;CCM_0011004;hjj.1;uc03;neoplastic antigen family	385377	chrX	5217;7303:
St8sia6	NM_145838;NM_145838;uc008ikc.2 -neuraminide alpha-2,8-si	241230	chr2	13654935
Dcdc2a	1577;NM_00577;NM_00;ww.2;uc00;ublecortin domain contai	195208	chr13	25056003
Fam184b	1544;NM_0NM_021418;xa.2;uc008;equence similarity 184, m	58227	chr5	9704;4555:
1810041L1	11163145;AKM_0011631;xcb.2;uc00;DNA 1810041L15 gene (1	72301	chr15	84379202
Six2	NM_011383;NM_011383;uc008duc.2;ie oculis-related homeobc	20472	chr17	85684267
Sytl4	130401;BC0NM_013757;ufe.1;uc00;sculus synaptotagmin-like	27359	chrX	16384;1339:
Tcf24	10012854;10012854;uc033fhz.1;s transcription factor 24 (	1E+08	chr1	9960162
Cdo1	NM_033037;NM_033037;uc008evt.1;eine dioxygenase 1, cytos	12583	chr18	46713204
Hsd11b2	108289;BC0NM_008289;nde.1;uc00;eroid 11-beta dehydrogei	15484	chr8	1.06E+08

Gamt	10255;AK1	NM_010255	gcl.2;uc01	dinoacetate methyltransf	14431	chr10	80258150
Mcf2l	1_0011594	00115948	uc009kwp.1	mcf.2 transforming seque	17207	chr8	7918;1300
L3mbtl4	77278;AK0	NM_177278	kk.2;uc0083	jmbt-like 4 (Drosophila) (L3mbtl4), n		chr17	68273796
Spire2	72287;BC0	NM_172287	nvk.1;uc00	ire homolog 2 (Drosophila) (Spire2), r		chr8	12712;1233
Ppp1r26	336;NM_00	1_0010054	hme.1;uc00	sphatase 1, regulatory su	241289	chr2	17940;2845
Bpifc	NM_17777	2NM_17777	uc007gnj.2	PI fold containing family	270757	chr10	85959690
Dhtkd1	1081131;AK	1_0010811	iga.1;uc00	1 and transketolase domain containir		chr2	4088;5898
Btn1a1	NM_01348	3NM_01348	uc007ptq.2	philin, subfamily 1, memb	12231	chr13	16992;2346
Slc38a5	72479;AK1	NM_172479	sos.1;uc00	9 carrier family 38, memb	209837	chrX	11641;8271
B4galt6	NM_01973	7NM_01973	uc008eeu.2	beta 1,4-galactosyltransfe	56386	chr18	20684598
Rph3al	3335;NM_0	NM_02954	kkx.1;uc00	7philin 3A-like (without C2	380714	chr11	12157;7589
Lphn1	NM_18103	9NM_18103	uc009mlh.2	sculus latrophilin 1 (Lphn1	330814	chr8	14150;8390
Palm3	128877;AK0	NM_028877	ggy.1;uc00	9sculus paralemmin 3 (Palm	74337	chr8	84021473
Sorcs3	NM_02569	6NM_02569	uc008hvx.1	d VPS10 domain containir	66673	chr19	48206024
Dgkg	3258;NM_1	NM_13865	ysh.2;uc00	1acylglycerol kinase, gamn	110197	chr16	22466568
Bcan	529;NM_00	529;NM_00	ptp.2;uc00	8us musculus brevican (Bca	12032	chr3	17530;8799
Zmym1	26670;AK1	NM_026670	ue.1;uc00	8ger, MYM domain contain	68310	chr4	127051077
Lmln	NM_17282	3NM_17282	uc007yzx.1	sin-like (metallopeptidase	239833	chr16	33062520
Arc	1_018790;	N790;NM_00	uc007wfo.2	regulated cytoskeletal-as	11838	chr15	11181;7466
Rnf43	8;AK15363	8NM_17244	uc007kud.1	is ring finger protein 43 (R	207742	chr11	187727171;
Msh3	34;BC02506	VM_01082	uc033gmq.1	mutS homolog 3 (E. coli)	17686	chr13	192345868;
Fanca	08119;AF2	(NM_01692	nvng.1;uc00	9nemia, complementation group A (Fa		chr8	18243;1232
Hsbp111	1_0011361	1_0011361	uc008fs.2	k factor binding protein 1	66255	chr18	80229755
Plxna1	NM_00888	1NM_00888	uc009cwg.2	sculus plexin A1 (Plxna1)	18844	chr6	89316313
AK134928	AK134928		uc009qrz.1	ength enriched library, clone:643051		chr9	75310334
Erbp2	1_0010038	1_0010038	uc007lgi.1	ne homolog 2, neuro/glio	13866	chr11	98412483
Dtl	1999;AB095	VM_02976	ecnc.1;uc00	7nticleless homolog (Drosophila) (Dtl),		chr1	19828;1915
Abcg5	NM_03188	4NM_03188	uc008dsz.1	ssette, sub-family G (WHI	27409	chr17	84658233
Rps6ka6	54113;AK0	NM_02594	uda.1;uc00	1 protein S6 kinase polype	67071	chrX	1.11E+08
Map6d1	NM_19859	9NM_19859	uc007ypk.1	AP6 domain containing 1	208158	chr16	20233308
Fam60a	1519;NM_0	NM_01964	etr.1;uc00	9sequence similarity 60, m	56306	chr6	1.49E+08
Opcml	6;AK01379	2NM_17790	uc009oqq.1	g protein/cell adhesion m	330908	chr9	13148;2779
Slc5a3	7403;NM_C	NM_01739	7zyt.2;uc03	5 family 5 (inositol transporters), membe		chr16	17056;9205
Cngb1	601;NM_00	501;NM_00	myb.2;uc00	lic nucleotide gated chan	333329	chr8	19042;9529
Plxnc1	NM_01879	7NM_01879	uc007gvz.3	sculus plexin C1 (Plxnc1),	54712	chr10	94790865
Iqgap2	1038;NM_0	NM_02771	1mo.1;uc00	7ntaining GTPase activating	544963	chr13	11401;9562
AK039686	AK039686		uc012esz.1	ermline small RNA gsRNA124, comple		chr6	1.28E+08
AU015836	NR_028320		uc009tsy.2	quence AU015836 (AU015836), long		chrX	93968655
Osbp2	8;BC05835	6NM_15281	uc007htq.1	xysterol binding protein 2 (Osbp2), m		chr11	13724401;3
Plekha7	5;BC06067	8NM_17274	uc009jja.1	zy domain containing, family A memb		chr7	13790;1161
Sh3rf2	146299;NM	146299;NM	betk.2;uc00	13 domain containing ring	269016	chr18	42053709
Jam2	123844;AK0	NM_023844	7ztg.2;uc00	1nction adhesion molecule	67374	chr16	84774122
Dmrtc1a	5;NM_0275	5;NM_0275	uc009tzd.2	ulus DMRT-like family C1a	70887	chrX	1.03E+08
Naalad1	1_0010095	1_0010095	uc008ghk.1	lpha-linked acidic dipepti	381204	chr19	6105797
Tmem54	13881;NM_	(13881;NM_	lwa.2;uc00	5 transmembrane protein	66260	chr4	1.29E+08
Wdr27	AK002615;	NM_17517	uc008and.1	WD repeat domain 27 (Wdr27), mRN		chr17	14829330;
Ctnna2	1_009819;	M_009819;	uc009cjq.2	1 (cadherin associated pro	12386	chr6	76881636

Cobll1	<083510;NM7025;NM_uc008jwa.2; musculus Cobl-like 1 (Cobll1)	chr2	;65088338;
Osbpl11	NM_17684(NM_17684uc007zyz.2:erol binding protein-like 106326	chr16	33185070
Adam3	9;BC060975NM_009615uc009lfd.1; metallopeptidase domain 3 (cyritest	chr8	17246;2467
Mbnl3	3;AK167342NM_13416uc009tdu.1 scleblind-like 3 (Drosophil 171170	chrX	51113493
Dbx2	NM_20753NM_20753uc007xjs.1 :veloping brain homeobox 223843	chr15	95623562
Arxes2	NM_02982NM_02982uc009uhz.2:d X-chromosome express 76219	chrX	1.36E+08
Syt6	1276680;NF580;NM_00uc008qtb.1:usculus synaptotagmin VI (Syt6)	chr3	103575281
Nr3c2	NM_0010839NM_0010839uc009mhl.1:ptor subfamily 3, group C 110784	chr8	76902507
Fbxo47	1081435;BC0100108147lfa.1;uc007:us F-box protein 47 (Fbxo 72973	chr11	97854306
A730020E08Rik	1081435;BC0100108147lfa.1;uc007:us F-box protein 47 (Fbxo 72973	chr6	61175603
AK132074	AK132074 uc008zfm.1:gth enriched library, clone:3010060E1	chr5	1.17E+08
Capn11	NM_0010137NM_0010137 uc008crh.1:sculus calpain 11 (Capn11 268958	chr17	45630203
Fev	53111;BC1NM_153111wnd.1;uc007 FEV (ETS oncogene family 260298	chr1	74881508
Grip2	NM_0011595NM_0011595uc012epd.2:te receptor interacting pr 243547	chr6	91761509
Epb4.1l3	146;NM_01NM_01381awk.1;uc01ocyte protein band 4.1-like 3 (Epb4.1l	chr17	17858;69248
Ptgds	NM_00896NM_00896uc008isf.1 :taglandin D2 synthase (br 19215	chr2	25466711
Esr1	638;NM_0(NM_007955gv.1;uc007estrogen receptor 1 (alph 13982	chr10	10157;47123
Fign	NM_001267NM_001267uc008jvv.3;1:us musculus fidgetin (Fign)	chr2	63971507
Syt15	NM_176931;6931;NM_1uc007tal.2:sculus synaptotagmin XV 319508	chr14	34220045
Zfp831	NM_0010993NM_0010993 uc008ofh.1. zinc finger protein 831 (Z 1E+08	chr2	1.75E+08
Frmd4a	;NM_00117NM_001177ieq.1;uc008s FERM domain containin 209630	chr2	10975;41528
Rtn4rl1	NM_17770NM_17770uc007kdh.1:eticulon 4 receptor-like 1 237847	chr11	75193992
lqsec1	;AK157963;4383;NM_1uc009cxq.2;1:us IQ motif and Sec7 doma 232227	chr6	19579;90658
Aox2	NM_0010084NM_0010084uc007bbp.1:us aldehyde oxidase 2 (A 213043	chr1	58278325
8430427H17	1001001986;1986;NM_1uc008nhv.2:N cDNA 8430427H17 gen 329540	chr2	17460;15348
Gm15787	10431;NR_040430uc029vkj.1;uc008lus predicted gene 15787 (Gm15787)	chr5	1.1E+08
Gm7008	4585;NR_045157 uc029rrz.1;uc007ted gene 7008 (Gm7008), long non-cc	chr12	40223363
Ppara	144;NM_00144;NM_001xdk.2;uc007ime proliferator activated 19013	chr15	15563;85738
Gng7	319;NM_00319;NM_00gfn.1;uc007leotide binding protein (C 14708	chr10	80948623
Col25a1	1085241;NM_00124498riy.1;uc03s collagen, type XXV, alpha 1 (Col25a: 10844;13048	chr3	10844;13048
Pnkd	3999;BC058NM_019999;tblu.1;uc007roxysmal nonkinesinogenic 56695	chr1	15033;74338
Glyctk	1039586;NM_039586;NM_09riz.1;uc008usculus glycerate kinase (235582	chr9	1.06E+08
Pgpep1	NM_02321NM_02321uc009mbc.2:yroglutamyl-peptidase I (66522	chr8	70646435
Sult5a1	1243;NM_0(NM_020564mn.1;uc008nsferase family 5A, member 1 (Sult5: 1.23E+08	chr8	1.23E+08
Nudt10	NM_0010316NM_0010316uc009skw.2:iphosphate linked moiety X)-type mo 6168695	chrX	6168695
Peg10	7407;NM_1040611;NM_iob.1;uc008ulus paternally expressed 170676	chr6	17305;47548
Prokr2	NM_14494NM_14494uc008mmp.2:rokineticin receptor 2 (F 246313	chr2	1.32E+08
lqsec3	7268;NM_019685;NM_1dom.2;uc008us IQ motif and Sec7 doma 243621	chr6	14809;12138
S100a14	NM_00116352NM_00116352uc012csy.1;100 calcium binding protei 66166	chr3	90526848
Syt13	NM_03072NM_03072uc008lfn.1 :us synaptotagmin XIII (Sy 80976	chr2	92915100
A230056J06	NR_045633 uc007qut.1:230056J06 gene (A230056 67269	chr13	59580175
lpcef1	NM_0010313391;NM_1efs.1;uc011n protein for cytohesin ex 320495	chr10	126886364;6
Plac1	;AK145876NM_019535uc009teu.1:alacental specific protein 1 (Plac1), ml 10001;53078	chrX	10001;53078
Brwd3	1081477;AK10010814jcn.1;uc008n and WD repeat domain 382236	chrX	13351;10878
Slc29a3	17065;AK0(NM_023595eo.1;uc011ly 29 (nucleoside transpor 71279	chr10	14620;60718
C1galt1	NM_05299NM_05299uc009axg.2:N-acetylgalactosamine 3-t 94192	chr6	7845223
BC069935	BC069935 uc009eje.1:ne, EG381818, mRNA (cDNA clone IN 1.32E+08	chr6	1.32E+08

Cdh20	NM_011806	NM_011806uc007cgc.1	sculus cadherin 20 (Cdh20)	23836	chr1	1.05E+08
Tmem245	NM_175518	NM_175518uc008sxw.2	membrane protein 245 (Tmem245)	242474	chr4	56876012
Phf13	NM_172705	NM_172705uc008vyx.2	s PHD finger protein 13 (Phf13)	230936	chr4	1.52E+08
Mettl21c	NM_001013	NM_0010137avv.1;uc007	thyltransferase like 21C (Mettl21c), r	76;245537	chr1	.0509;4400!
Nlgn3	NM_172932	NM_1729329txi.2;uc00!	sculus neuroligin 3 (Nlgn3)	245537	chrX	!5290;1012!
Sema7a	NM_011352	NM_011352uc009pvy.1	main (Ig), and GPI memt	20361	chr9	57940134
Atp8a2	NM_015802	NM_015802uc007uet.1	lipid transporter-like, class I, type 8A,	245537	chr14	!7512;5964!
Snap25	NM_011428	NM_011428uc008mop.1	aptosomal-associated pr	20614	chr2	1.37E+08
Enpp2	NM_011428	NM_011428uc008mop.1	aptosomal-associated pr	20614	chr2	1.37E+08
Enpp2	NM_011428	NM_011428uc008mop.1	aptosomal-associated pr	20614	chr2	1.37E+08
Enpp2	NM_011428	NM_011428uc008mop.1	aptosomal-associated pr	20614	chr2	1.37E+08
Ass1	NR_002687	NR_002687uc008jdu.1	glinosuccinate synthetas	11898	chr2	31470269
Calr4	NM_001285	NM_001285uc008uce.2	musculus calreticulin 4 (Calr4)	54725	chr4	5631;1092!
Bcat2	NM_001242	NM_001242uc009wd.2;uc00!	chain aminotransferase :	12036	chr7	!45570152;
Abat	NM_170978	NM_170978uc007lmyco.2;uc007!	-aminobutyrate aminotra	268860	chr16	8513428
Cadm1	NM_005383	NM_005383770;NM_00!	cell adhesion molecul	54725	chr9	!0351;4781!
Ppt1	NM_008917	NM_008917uc008uoh.2	mitoyl-protein thioesterase 1 (Ppt1),	17196	chr4	1.23E+08
Mbp	NM_001025	NM_001025254;NM_00!	myelin basic protei	17196	chr18	!5122;8255!
4930405A21	NR_040505	NR_040505uc008nns.230405A21	gene (4930405A21Rik), lor	17196	chr2	1.57E+08
Bsn	NM_007567	NM_007567uc009rov.1	musculus bassoon (Bsn), r	12217	chr9	1.08E+08
Rims4	NM_183022	NM_183022uc008nto.1	g synaptic membrane exo	241770	chr2	1.64E+08
Ston2	NM_175367	NM_175367okw.1;uc00!	musculus stonin 2 (Ston2),	108800	chr12	!3008;9173!
Wipf3	NM_017861	NM_017861uc012emf.1;uc01!	ASL interacting protein far	330319	chr6	54452882
Olfml2a	NM_172854	NM_172854uc008jnv.1	olfactomedin-like 2A (Ol	241327	chr2	38931979
Epdr1	NM_134065	NM_134065ppf.3;uc007	min related protein 1 (zek	105298	chr13	19591707
Dpysl4	NM_011992	NM_011992uc009kfj.2	ihydropyrimidinase-like 4 (Dpysl4), m	19401	chr7	!6000;1390!
Rara	NM_001177	NM_00117730177302;NMuc007!	retinoic acid receptor,	19401	chr11	!4871;9893!
Fam178a	NM_001081	NM_0010812iqb.1;uc012	equence similarity 178, member A (Fa	19401	chr19	!1458;4493!
Rhof	NM_175092	NM_175092znc.1;uc00!	omolog gene family, member f (Rhof	19401	chr5	!3043;1231!
Sh3tc2	NM_172628	NM_172628fcu.1;uc01!	in and tetratricopeptide r	225608	chr18	!3074;6198!
Bricd5	NM_175682	NM_175682awk.1;uc00!	CHOS domain containing	319259	chr17	!3883;2447!
Fmn2	NM_019445	NM_019445vxb.1;uc00!	musculus formin 2 (Fmn2),	54418	chr1	174612506
Bag4	NM_026121	NM_026121uc009lgy.1	L2-associated athanogen	67384	chr8	25764538
Trim67	NM_198632	NM_198632uc012gmz.1	bartite motif-containing 6	330863	chr8	1.25E+08
Fgf11	NM_010191	NM_010191xxa.1;uc00!	us fibroblast growth factc	14166	chr11	!7094;6979!
Zfp600	NM_017545	NM_017545uc011dpa.2;uc01!	ulus zinc finger protein 60	667666	chr4	!7689;1461!
1700113A16	NR_045997	NR_045997uc008puf.2;uc00!	113A16 gene (1700113A16Rik), lor	667666	chr3	88171559
Aqp11	NM_175109	NM_175109ijt.1;uc00!	culus aquaporin 11 (Aqp1	66333	chr7	97726378
Rbm20	NM_011708	NM_011708hxa.1;uc00!	A binding motif protein 20 (Rbm20),	66333	chr19	!3209;5367!
Mphosph9	NM_026907	NM_026907867;NM_!	M-phase phosphoprotein	269702	chr5	!8514;1242!
Crispld1	NM_031402	NM_031402akh.1;uc00!	etory protein LCCL domai	83691	chr1	!7416;1772!
F630042J09	NR_033540	NR_033540uc011zbg.1530042J09	gene (F630042J09Rik), lon	83691	chr13	67278593
E130309D14	NM_001013	NM_0010137avv.1;uc007	thyltransferase like 21C (Mettl21c), r	76;245537	chr11	74619604
Agmat	NM_001081	NM_001081uc008vpe.1	ne ureohydrolase (agmati	75986	chr4	1.42E+08
Barhl2	NM_001005	NM_001005uc008ylm.1	BarH-like 2 (Drosophila) (	104382	chr5	1.06E+08
Slc19a3	NM_030556	NM_030556bsi.2;uc00!	carrier family 19, membe	80721	chr1	83012522
Atp6v0e2	NM_133764	NM_133764uc009bup.2	nsporting, lysosomal VO s	76252	chr6	48537568
Fdxr	NM_007997	NM_007997uc007mgj.1	us ferredoxin reductase (f	14149	chr11	1.15E+08
Zmat4	NM_277239	NM_277239uc011lew.3;uc01!	ulus zinc finger, matrin type 4 (Zmat4)	14149	chr8	23669660

Bahcc1	1250;NM_019842;msd.2;uc01nain and coiled-coil conta	268515	chr11	120232946
Esrrg	12;NM_011243792;NMuc007eab.2estrogen-related receptor	26381	chr1	17826;18761
Hs6st2	C047151;NB19;NM_000099tdx.1;aran sulfate 6-O-sulfotransferase 2 (f		chrX	16782;5138
Sp4	166385;NM166385;NM7pif.3;uc011 trans-acting transcription	20688	chr12	1.18E+08
Tstd1	1_0011645_1_0011645;uc011wwd.1;nsferase (rhodanese)-like	22278	chr1	1.71E+08
Derl3	0;BC099615;NM_02444;uc007ftj.1;-like domain family, member 3 (Derl3		chr10	75893397
Ccbl2	173763;AF3;NM_173763rpa.1;uc00iteine conjugate-beta lyas	229905	chr3	1.43E+08
Mthfd1	138745;AK1;NM_138745yny.1;uc00ident), methenyltetrahydr	108156	chr12	76255231
Rragb	1_0010041_1_0010041;uc012hqx.1Ras-related GTP binding B	245670	chrX	1.53E+08
Sel1l3	0;AK03177;NM_17271;uc008xlc.1;pressor of lin-12-like 3 (C. elegans) (Se		chr5	153198217;
Ahi1	203;NM_00203;NM_000xhc.1;uc00Abelson helper integration site 1 (Ah		chr10	120959611;
Polr2a	100;NM_000090857jrk.1;uc00RNA) II (DNA directed) po	20020	chr11	69734409
Unc5c	2;AK142974;NM_00947;uc008rod.1;c-5 homolog C (C. elegans) (Unc5c), r		chr3	1.41E+08
Tmem200b	1_0012013_1_0012013;uc012dlz.1 membrane protein 200B (	623230	chr4	1.32E+08
Wdr62	3C026444;NM_14618;uc009gdv.1; WD repeat domain 62 (V	233064	chr7	10137;3024
Ung	1M_001040677;NM_00;uc008yzyg.1;culus uracil DNA glycosyl	22256	chr5	114130434
Zfp275	9;CCDS5309160229;NMuc009tlq.2;ulus zinc finger protein 275 (Zfp275)		chrX	13249;7334
Zc3h12b	1034907;AK1_0010349tua.1;uc00ger CCCH-type containing	547176	chrX	95711677
Bcar3	1_01386_1_01386;uc008req.2;ancer anti-estrogen resis	29815	chr3	1.22E+08
Tmem25	1375;NM_01027865em.1;uc00insmembrane protein 25 (Tmem25), r		chr9	44793778
6330419J2	NR_028086 uc009tgd.2330419J24 gene (6330419J24Rik), lon		chrX	56374585
Celsr2	1_00100417392;NM_00;uc008qyx.1;-pass G-type receptor 2 (	53883	chr3	12375;1083
Hist2h2be	1_17821_1_17821;uc008qmj.1;istone cluster 2, H2be (Hi	319190	chr3	96221120
Pm20d1	178079;BC0;NM_178079qtg.1;uc00itidase S precursor (EC 3.4	212933	chr1	16671;1317
Pank1	114339;NM114339;NMhgw.3;uc00ulus pantothenate kinase	75735	chr19	34806935
Smad6	1_00854_1_00854;uc009qbk.2SMAD family member 6 (	17130	chr9	63953075
Gmpr	125508;AK1;NM_025508qha.1;uc00sine monophosphate redu	66355	chr13	17468;4552
Dag1	176481;NM176481;NMjna.1;uc009musculus dystroglycan 1 (Dag1)		chr9	1.08E+08
Rab36	1K046113;ANM_02978;uc007fpw.1, member RAS oncogene f	76877	chr10	175037225;
Gm10789	NR_033476 uc012aid.1;d gene 10789 (Gm10789), long non-c		chr16	90142236
Mblac2	128372;BC1;NM_028377rib.1;uc00ita-lactamase domain containing 2 (M		chr13	11529;8171
Kcng4	1_02573_1_02573;uc009nqb.1;ge-gated channel, subfami	66733	chr8	1.2E+08
Nell1	106;AK0359_1_0010379;uc009hby;usculus NEL-like 1 (Nell1),	338352	chr7	49975349
Ticrr	5;AK054492;NM_02983;uc012fnj.1;cting checkpoint and replication regul		chr7	79660195
E2f2	1_17773_1_17773;uc008vht.2 E2F transcription factor 2	242705	chr4	1.36E+08
Casp6	1_00981_1_00981;uc008riq.2 usculus caspase 6 (Casp6),	12368	chr3	1.3E+08
Slf9	172796;AK0;NM_172796koc.1;uc00;usculus schlafen 9 (Slf9),	237886	chr11	12153;8298
Lrrc4	1_13868_1_13868;uc009bcu.1;cine rich repeat containin	192198	chr6	28828125
Rad51c	1204;NM_0105326;ktp.2;uc01;us RAD51 homolog C (Rad51c), mRNA		chr11	87377606
Nhlrc1	1_17534_1_17534;uc007qhp.2NHL repeat containing 1 (	105193	chr13	47012556
Ptpro	13;NM_011164403;NMuc009emv.2 tyrosine phosphatase, re	19277	chr6	10720;1372
Mttp	542;NM_00542;NM_00mw.2;uc00rosomal triglyceride trans	17777	chr3	1.38E+08
Zfp618	128326;AK0;NM_028326tfm.2;uc00 zinc finger protein 618 (Z	72701	chr4	62965573
Ifitm5	1_05308_1_05308;uc009kiy.1 induced transmembrane	73835	chr7	1.41E+08
Smim1	1;NM_001163722;NM_1;uc008waz.1mall integral membrane pi	68859	chr4	1.54E+08
Acvr1b	1_00739_1_00739;uc007xsr.1ctivin A receptor, type 1B	11479	chr15	1.01E+08
Mterfd3	4088;NM_01028837gld.2;uc03TERF domain containing 3	74238	chr10	19600;8511

Zfp41	1_011759;N759;NM_001007wgx.1;culus zinc finger protein 4	22701	chr15	.8200;7561
Arhgap36	1081123;BC1_0010811;tddd.1;uc001TPase activating protein 36 (Arhgap36)		chrX	'0449;4946:
Fam53b	M_175268;5268;NM_10009kcf.1; sequence similarity 53, member 1	77938	chr7	:9267;1327:
Aff3	3C052061;NM_010675uc007asu.1.F4/FMR2 family, member 3 (Aff3), member 1		chr1	;38209552;
Cdan1	105239;BC1_026891wu.1;uc008erythropoietic anemia, type 1	68968	chr2	1.21E+08
Npl	NM_028749NM_028749uc007dac.1.etylneuraminate pyruvate	74091	chr1	1.54E+08
1700016K1	NM_198637NM_198637uc007key.2DNA 1700016K19 gene (1700016K1)	74230	chr11	75999911
Dna2	3C030382;ANM_177372;uc007fji.2lication helicase 2 homolog (yeast) (Dna2)		chr10	;5680;6294:
Gprin3	0199;NM_101183isd.1;uc009GPRIN family member 3 (GPRIN3)	243385	chr6	;3028;5935:
Sox18	NM_009236NM_009236uc008ona.1x determining region Y)-box 18	20672	chr2	1.82E+08
Rbl1	_011249;N1249;NM_001008nor.2us retinoblastoma-like 1 (p107) (Rbl1)		chr2	157174995
Ptchd3	1943;NM_001029049mwf.2;uc01tched domain containing 3 (Ptchd3), member 3		chr11	1.22E+08
E2f1	7841;NM_001007893bnj.1;uc008ulus E2F transcription factor 1	13555	chr2	;2937;1545:
Nudt11	NM_021431NM_021431uc009sku.1liphosphate linked moiety X)-type motif 11		chrX	6047506
Osbpl7	1081434;AK1_0010814ldq.1;uc00sterol binding protein-like 7 (Osbpl7), member 7		chr11	;97050819;
Slc44a3	NM_145394NM_145394uc008rdz.2: carrier family 44, member 3	213603	chr3	1.21E+08
Ubn2	9;BC044744NM_177185uc009bkh.2sculus ubinuclein 2 (Ubn2)	320538	chr6	;3553;3844:
Zranb3	322;NM_005678;NM_00707clg.1;uc00iger, RAN-binding domain containing 3	226409	chr1	;7109;1279:
Grid1	NM_008166NM_008166uc007tbj.1 ate receptor, ionotropic, glutamate-gated	14803	chr14	34820135
Mmd2	NM_175217NM_175217uc009aix.1acrophage differentiation factor 2	75104	chr5	1.43E+08
AB349717	AB349717 uc007kkx.3., oocyte_clustered_small_RNA6755, member 1		chr11	79694888
Gpr149	NM_177346NM_177346uc008pjo.1otein-coupled receptor 149	229357	chr3	62529962
AK003327	AK003327 uc007apm.1length enriched library, clone:111000		chr1	35879844
Tigd4	NM_207278NM_207278uc008pqh.1transposable element derivative	403175	chr3	84593573
Gm13752	NR_040370 uc008khk.1:d gene 13752 (Gm13752), long non-coding RNA		chr2	80391363
Cacna1a	_00125206252061;NM1009mmm.voltage-dependent, P/Q type, alpha 1C		chr8	.5363;8454:
Aldh1a7	NM_011921NM_011921uc008gyn.1hydrogenase family 1, subfamily 7	26358	chr19	20692952
Wdr76	151037;AK001030234ccs.1;uc01ulus WD repeat domain 76 (Wdr76)		chr2	1.22E+08
Dmrt1	5;DQ53063(NM_015826uc008hbi.1d mab-3 related transcription factor 1	50796	chr19	25505705
6720468P1	10306;NR_040307uc008iah.2;uc025N cDNA 6720468P15 gene (6720468P1)		chr19	;8563;5750:
Palb2	1289844;NM_001289844ftg.2;uc012ls partner and localizer of BRCA1	233826	chr7	122107261
Ano4	1277188;AM_00127713frt.1;uc007 musculus anoctamin 4 (Ano4)		chr10	;89015603;
Foxred2	NM_001017983;NM_1017983;uc00dent oxidoreductase domain containing 2		chr15	;2752;7794:
Jmjd8	NM_028101NM_028101uc008bce.2monji domain containing 8	72106	chr17	25829042
Exoc3l	1618;NM_10177789nci.1;uc009st complex component 3	277978	chr8	1.05E+08
Wdr66	.6965;AK030281 uc008znm.1;uc00ull=Protein Wdr66;SubName:Wdr66	269701	chr5	;9881;1232:
Rif1	1320;NM_101752388jqt.1;uc00teracting factor 1 homolog (yeast) (Rif1)		chr2	;52089523;
Svip	K029831;NM_0011603;uc009hcn.1small VCP/p97-interacting protein	75744	chr7	51997160
Chic1	NM_009767NM_009767uc009tzi.2 ine-rich hydrophobic domain containing 1	12212	chrX	1.03E+08
Faxc	59864;AK0010175233sdk.2;uc00n connections homolog (Drosophila) (Faxc)		chr4	21931325
Fndc7	1_177091;A165965;NM_10177092v.2;uc012onectin type III domain containing 7	320181	chr3	;9319;1088:
Rab27a	AF304376;NM_023635uc009qqx.1, member RAS oncogene family	11891	chr9	;4242;7304:
D330045A2	NM_175326NM_175326uc009ukg.2DNA D330045A20 gene (D330045A2)	102871	chrX	1.39E+08
Dach1	1M_001038826;NM_001038826uc007uus.2lus dachshund 1 (Drosophila) (Dach1)		chr14	;5865;9778:
Rab11fip4	NM_175545NM_175545uc007kku.1ily interacting protein 4 (Cytochrome b5 domain)	268451	chr11	79591211
E2f7	78609;AK0010178605xne.1;uc00E2F transcription factor 7	52679	chr10	1.11E+08
Pla2g12a	196;NM_001023196;h1zq.1;uc01phospholipase A2, group XIA (Pla2g12a)		chr3	'8605;1298:

Chaf1a	1016;NM_013733	assembly factor 1, subunit	27221	chr17	7717;5604
Inmt	NM_009349	thylamine N-methyltrans	21743	chr6	55170626
4930578G1	AK016301	uc008snw.1me: Full=Protein 4930578G10Rik		chr4	42735866
Fcho1	NM_028715	sculus FCH domain only 1 (Fcho1)		chr8	8386;7171
Bfsp1	NM_009751	uc011mqh.1;uc01	12075	chr2	1.44E+08
Tshz3	NM_172298	uc009gkj.1 irt zinc finger family mem	243931	chr7	36698117
Odf1	NM_008757	uc011zsh.1er dense fiber of sperm ta	18285	chr15	38219202
Pde8b	263;EF6441263;NM_008757	uc011ulus phosphodiesterase 8	218461	chr13	95024104;
Srp19	508;NM_025527	uc009ekh.2;uc009	66384	chr18	34331144
DQ727060	DQ727060	uc029wec.1th enriched library, clone:4833408D1		chr7	27821959
Gstm6	108184;AK016301	uc008cvy.1;uc008	14867	chr3	1.08E+08
Stt3a	NM_008408	uc009oty.1;uc009	16430	chr9	36732412
Cars	742;NM_00742;NM_008408	uc009kpn.2;uc009	27267	chr7	1.44E+08
Bdh1	177;AK1469177;NM_00742	uc009yxl.2;uc009	71911	chr16	31422296;
Tradd	NM_0010331	uc009nby.1;1A-associated via death c	71609	chr8	1.05E+08
Klf4	NM_010637	uc008sxx.2 Kruppel-like factor 4 (gut	16600	chr4	55527136
Minos1	745;NM_0010331	uc009vlu.2;uc012	433771	chr4	1.39E+08
Chchd2	NM_024166	uc008ztn.1x-coiled-coil-helix domain	14004	chr5	1.3E+08
2310009B146;	NM_0010331	uc009cvw.1;uc009	69549	chr1	1.39E+08
Slc39a6	NM_139143	uc008egv.1ily 39 (metal ion transpor	106957	chr18	24579880
1600002K03	NM_027207	uc007gcf.1 DNA 1600002K03 gene (1	69770	chr10	80172943
Kdelr3	NM_134096	uc007wto.2;uc007	105785	chr15	79516407
Irf1	08390;AY208390	uc009wy.2;uc009	16362	chr11	0013;5377
Brsk1	8572;NM_08572;NM_08390	uc009eyf.1;uc009	381979	chr7	4690927
Dbn1	NM_001177	uc011yzu.1is musculus drebrin 1 (Dbn1)		chr13	55473427
Tbc1d23	1591;NM_026254	uc009znd.1;uc009	67581	chr16	8863;5720
Tmem204	NM_0010011	uc008azp.1ismembrane protein 204 (	407831	chr17	25057701
Ppp1r3c	NM_016854	uc008hhs.1tase 1, regulatory (inhibit	53412	chr19	36731730
Ralb	NM_022327	uc007cis.2;uc007	64143	chr1	1.19E+08
Clic1	NM_033444	uc008cfg.1loride intracellular channe	114584	chr17	35050242
Gng8	NM_010326	uc009fik.1;uc009	14709	chr7	16891785
Mrpl52	1;BC028522	uc009twa.1;uc009		chr14	54426908;
Snx7	655;NM_00655;NM_00852	uc008rdc.2;uc008	76561	chr3	1.18E+08
Mars2	NM_175439	uc007baj.1;-tRNA synthetase 2 (mito	212679	chr1	55237176
Fam98a	5481;NM_133747	uc009doq.1;uc009		chr17	7085;7553
Pcdh19	15246;NM_05246;NM_05246	uc009ew.2;uc009	279653	chrX	1.34E+08
Crif2	15;BC01658164735;NM_00852	uc008yph.2s cytokine receptor-like factor 2 (Crif		chr5	1.1E+08
Aldh18a1	AK134148;3554;NM_00852	uc008hky.2;dehydrogenase 18 family, member A		chr19	0256;4055
Lgals9	708;NM_00708;NM_00852	uc009kke.2;uc009	16859	chr11	78962978
Prss23	NM_02961	uc009iga.1;uc009		chr7	7784;8950
Tgfb1	NM_011577	uc009ftq.1;forming growth factor, be	21803	chr7	25687001
Lmna	NM_001002	uc008pvj.3us musculus lamin A (Lmn	16905	chr3	1147;8848
Ppp1r3b	BC060261;NM_177741	uc009lkw.1tase 1, regulatory (inhibit	244416	chr8	35376678;
Tmem160	NM_026938	uc009fhu.1ismembrane protein 160 (	69094	chr7	16452778
Hmg20b	NM_001163	uc007ghk.2;uc007	15353	chr10	81346045
Med21	NM_025315	uc009esg.1;uc009	108098	chr6	1.47E+08
Atp6v0b	NM_033617	uc008ujc.1ransporting, lysosomal VO	114143	chr4	1.18E+08

AB341725	AB341725	uc007mts.2, oocyte_clustered_small_RNA6924,		chr11	1.21E+08
Uba5	NM_025692	NM_025692uc009rhf.2-like modifier activating e	66663	chr9	1.04E+08
Psmg7	289476;NM_289476;NM_118000	hrv.1;uc008 (prosomes, macropain) sul	26444	chr2	1.8E+08
Psmg4	.0515;NM_00515;NM_00515	(qbe.3;uc007 prosomes, macropain) ass	69666	chr13	34162963
Golt1b	NM_025872	NM_025872uc009epg.1sport 1 homolog B (S. cer	66964	chr6	1.42E+08
Uap1	U139;AK047	NM_133802dlw.1;uc006tylglucosamine pyrophosph	107652	chr1	12002;17014
5330426P1	AK151508;NR_002830	uc007zla.2;30426P16 gene (5330426P16Rik), lon		chr16	9296;50721
Plcd1	U6;JN63559	NM_019676uc012hch.1 phospholipase C, delta 1 (Plcd1), mR		chr9	1.19E+08
Nfkbib	U10908;AY1	NM_010908fzs.1;uc006 polypeptide gene enhanc	18036	chr7	9042;28751
Derl1	NM_024207	NM_024207uc007vsq.1-like domain family, meml	67819	chr15	57869501
Etv4	;NM_00881	NM_00881uc007lpw.1 e 4 (E1A enhancer bindin	18612	chr11	101774402
Gabrq	U859;NM_0	NM_020488tkr.1;uc005butyric acid (GABA) A rec	57249	chrX	72825435
Clec2d	NM_05310	NM_05310uc009efe.2actin domain family 2, mei	93694	chr6	1.29E+08
Baz1a	NM_01381	NM_01381uc007nnz.2in adjacent to zinc finger	217578	chr12	54892988
Ptpcr	U00126828	NM_0012687cvk.2;uc006 tyrosine phosphatase, receptor type		chr1	138113563
Slc35f5	NM_028787	NM_028787uc007ckg.1 carrier family 35, membe	74150	chr1	1.26E+08
Zfp704	U106;NM_1	NM_13321fcng.1;uc012 zinc finger protein 704 (Z	170753	chr3	9427009
Pdlim7	AK049902;NM_026131	uc007qrg.3ulcus PDZ and LIM domain	67399	chr13	16772;55501
Loxl2	AK081898;NM_03332	uc029slk.1;ulus lysyl oxidase-like 2 (Lo	94352	chr14	69609475;
Ninj1	NM_01361	(NM_01361uc007qiw.1usculus ninjurin 1 (Ninj1),	18081	chr13	49187546
Hoxb5	NM_00826	NM_00826uc007lbu.2ulcus homeobox B5 (Hoxb	15413	chr11	96303511
Pdia5	NM_02829	NM_02829uc007zbl.1 disulfide isomerase assoc	72599	chr16	35397311
Dnajb5	U322;BC048	NM_019874som.1;uc007) homolog, subfamily B, r	56323	chr4	10849;42951
Ostc	NM_02550	NM_02550uc008rjc.2 charyltransferase comple	66357	chr3	1.31E+08
Klf3	U;DQ98186	(NM_008452uc008xmu.1Kruppel-like factor 3 (basi	16599	chr5	1873;64811
Cd9	NM_00765	NM_00765uc009dun.1usculus CD9 antigen (Cd9)	12527	chr6	1.25E+08
Plac9b	NM_20722	NM_20722uc007ssd.2us placenta specific 9b (Pl	211623	chr14	26167317
AK087886	AK087886	uc007gwe.1y, clone:E330036K19 product:CASP2 ;		chr10	95318246
Tspan17	U272;NM_0	NM_028841qpl.2;uc007ilus tetraspanin 17 (Tspan	74257	chr13	54789404
2810428I1	NM_02557	NM_02557uc009mal.1DNA 2810428I15 gene (2	66462	chr8	70504295
Mical1	U171779;NM_164433;NM_164433	uc007monooxygenase, calponin	171580	chr10	176313;41471
Krtcap3	U516;NM_0	NM_027221wxx.1;uc007inocyte associated protein 3 (Krtcap3		chr5	1705;31251
Slc39a13	U1;BC02010	(NM_026721uc008kug.1amily 39 (metal ion transp	68427	chr2	91061790
Il1rl1	U743;NM_00025602;NM_00025602	uc007us interleukin 1 receptor-l	17082	chr1	40439648;
Rrbp1	U81;AF27369;3626;NM_00008mqm.1us ribosome binding protein 1 (Rrbp1			chr2	15863;14391
Med11	NM_02539	NM_02539uc007juv.1diator complex subunit 1	66172	chr11	70451930
Blzf1	U00116020	NM_00116020uc007dii.2asic leucine zipper nuclea	66352	chr1	1.64E+08
Mfhas1	U59;NM_001	NM_00108129lla.1;uc007us histiocytoma amplific	52065	chr8	18955;35581
Creg1	U006;NM_0	NM_011804ljm.1;uc012pressor of E1A-stimulated genes 1 (C		chr1	1.66E+08
Chmp4c	NM_02551	NM_02551uc008opu.1 multivesicular body prote	66371	chr3	10366972
Ptafr	U399;NM_000	NM_00108129vbn.1;uc03elet-activating factor rece	19204	chr4	19300;13251
Larp6	NM_02623	NM_02623uc009pzh.1eoprotein domain family,	67557	chr9	60713120
Fbxl22	NM_17520	(NM_17520uc009qex.2nd leucine-rich repeat pro	74165	chr9	66508458
Tmem238	U29384;CCDS	NM_029384eyr.1;uc033ismembrane protein 238 (Tmem238),		chr7	19011;47841
Mpc1	U9944;NM_C	NM_01881shao.1;uc033ochondrial pyruvate carrier 1 (Mpc1),		chr17	8283812
Map3k14	U16896;AK0	NM_016896lua.1;uc007ated protein kinase kinase kinase 14 (		chr11	19763;10321
Nod1	U729;NM_00729;NM_00729	uc007caf.2;uc007binding oligomerization d	107607	chr6	54923941

Tars	NM_033074;NM_033074uc007vhc.1 threonyl-tRNA synthetase	110960	chr15	11383662
Tagln	NM_011526;NM_011526uc009pgs.2 usculus transgelin (Tagln),	21345	chr9	45929627
Hspb1	1388;NM_013561uc001s heat shock protein 1 (H	15507	chr5	1.36E+08
4833419F2NR_040328	uc008dyg.233419F23 gene (4833419F23Rik), lon		chr18	4353546
Ntsr1	1633;NM_018766uc012s neurotensin receptor 1 (	18216	chr2	1.8E+08
Gpx4	1;NM_0081037741;NMuc007gbj.1;musculus glutathione peroxidase	625249	chr10	;80047165;
Ckap4	NM_175451;NM_175451uc007gkq.1skeleton-associated prote	216197	chr10	84526304
Il21r	7;AK040073;NM_021887uc012ftn.1;s interleukin 21 receptor (	60504	chr7	1.26E+08
S1pr1	17901;CCDS;NM_007901hzh.1;uc001g sine-1-phosphate recep	13609	chr3	.1794;1157:
Pea15a	NM_011063;NM_011063uc007dpy.1hoprotein enriched in asti	18611	chr1	1.72E+08
Abca7	1708;BC038;NM_013851;ba.1;uc007ssette, sub-family A (ABC	27403	chr10	;80011923;
Lpin3	18;NM_022199118;NM;uc008nrj.2mus musculus lipin 3 (Lpin:	64899	chr2	;0669;1608:
Pid1	164328;NM_0010039;uc007bst.2 osine interaction domain	98496	chr1	;84157128;
Gabarap	NM_019749;NM_019749uc007jtg.2 utyric acid receptor associ	56486	chr11	69991369
B2m	NM_009735;NM_009735uc008maf.1us beta-2 microglobulin (f	12010	chr2	1.22E+08
Myl12a	NM_026064;NM_026064uc008dlw.1hain 12A, regulatory, non	67268	chr17	70993792
Myo1g	NM_178444;NM_178444uc007hyt.2isculus myosin IG (Myo1g)	246177	chr11	6506547
Dyrk3	NM_145508;NM_145508uc007cmw.3sine-(Y)-phosphorylation	226419	chr1	1.31E+08
Adamts1	NM_009621;NM_009621uc012aho.1ase (reprolysin type) with	11504	chr16	85793827
Tha1	1872;NM_027915;uc007us threonine aldolase 1 (Tha1), mRNA		chr11	1.18E+08
Rel	NM_009044;NM_009044uc007ifo.1 ticuloendotheliosis oncog	19696	chr11	23741728
Bet1l	NM_018742;NM_018742uc009kii.2 r transport 1 homolog (S.	54399	chr7	1.41E+08
Elovl1	1;NM_0010101039178;uc001g chain fatty acids (FEN1/l	54325	chr4	;8092;1184:
Nudt19	NM_033080;NM_033080uc009gka.1iphosphate linked moiety	110959	chr7	35547184
Cln8	NM_012000;NM_012000uc009kze.1 oid-lipofuscinosis, neuron	26889	chr8	14888535
Rprm1	NM_00103321;NM_00103321uc007lvn.1;culus reprimo-like (Rprm	104582	chr11	1.04E+08
Tbcc	NM_178385;NM_178385uc008cum.1ubulin-specific chaperone	72726	chr17	46890620
Epha2	NM_010139;NM_010139uc008voc.2;culus Eph receptor A2 (Eph	13836	chr4	1.41E+08
Hk3	1;NM_001036390;NM_001036390uc007qpr.2; musculus hexokinase 3 (l	212032	chr13	55005984
Mt1	17262;NM_013602;uc009ulus metallothionein 1 (Mt1), mRNA		chr8	94179088
Flot1	NM_008027;NM_008027uc008cip.1 usculus flotillin 1 (Flot1),	14251	chr17	35823356
Il2rg	3;AK037584;NM_013561uc033jrn.1;leukin 2 receptor, gamma chain (Il2rg		chrX	;4386;1012:
Smpdl3a	NM_020561;NM_020561uc007fcu.1lin phosphodiesterase, aci	57319	chr10	57794543
Gars	NM_180678;NM_180678uc009cai.1 s glycyl-tRNA synthetase (	353172	chr6	55038000
Nov	NM_010930;NM_010930uc007vrn.1roblastoma overexpressed	18133	chr15	54745927
Ubtd1	NM_145500;NM_145500uc008hmz.1iquitin domain containing	226122	chr19	41981762
Pstpip2	AK031963;NM_013831uc008frw.1 racting protein 2 (Pstpip2), mRNA;Sul		chr18	;4549;7778:
Trmt61b	15549;AK004123;NM_0121awu.1;uc001 tRNA methyltransferase 61B (Trmt61		chr17	;8514;7155:
Uso1	NM_019490;NM_019490uc008ycl.1JSO1 vesicle docking factor (Uso1), m		chr5	;4011;9213:
Ndufb2	126612;AK012661;md.1;uc009nase (ubiquinone) 1 beta	68198	chr6	39592582
Cope	1279;NM_021539;uc001r protein complex, subuni	59042	chr8	70302784
Vegfa	3146;NM_00111021;uc008sacular endothelial growth factor A (V		chr17	;46025210;
Shmt2	252316;NM_0252316;NM_0252316;uc001roxymethyltransferase 2	108037	chr10	1.28E+08
Gm10653	NR_003965 uc012gus.1cted gene 10653 (Gm10653), non-coc		chr9	62841476
Fbxo6	NM_001163;NM_001163uc008vuf.1 usculus F-box protein 6 (l	50762	chr4	1.48E+08
Sap30	NM_021788;NM_021788uc009lsu.2 n3 associated polypeptide	60406	chr8	57482701
Ccr2	NM_009911;NM_009911uc009shc.1;mokine (C-C motif) recept	12772	chr9	;5684;1241:

Adam1a	NM_172126;NM_172126;uc008zjo.1; and metalloproteinase domain 1 (Adam1a)	280668	chr5	1.22E+08
Cldn11	NM_008777;NM_008777;uc008ovw.2; sculus claudin 11 (Cldn11)	18417	chr3	31149919
Dbil5	5062;NM_C;NM_021297;7kfk.1;uc03;epam binding inhibitor-like 5 (Dbil5)	13168	chr11	7612;7621;
Hebp1	NM_013546;NM_013546;uc009elh.1; heme binding protein 1 (Hebp1)	15199	chr6	1.35E+08
Cox6a1	NM_007748;NM_007748;uc008zdt.1; c oxidase subunit VIa polypeptide chain 6A (Cox6a1)	12861	chr5	1.15E+08
Gm4013	NR_033452 uc008etq.2;ted gene 4013 (Gm4013), long non-coding RNA (Gm4013)		chr18	42274379
Sec61g	NM_001109;NM_001109;uc011xrs.1;ulus SEC61, gamma subunit (Sec61g)	20335	chr11	16501637
AK050516	AK050516 uc007mzr.1;RIKEN full-length enriched library, clone AK050516		chr12	8511200
Nt5c	NM_015807;NM_015807;uc007mhu.5;3'-nucleotidase, cytosolic (Nt5c)	50773	chr11	1.15E+08
Mlkl	I29005;AK0;NM_029005;me.1;uc005ed lineage kinase domain (Mlkl)	74568	chr8	1.11E+08
Ero1l	NM_015774;NM_015774;uc007tgm.2; ERO1-like (S. cerevisiae) (Ero1l)	50527	chr14	45283086
Gm11974	I2548;NR_045893;uc029rkn.1;uc007ad gene 11974 (Gm11974), long non-coding RNA (Gm11974)		chr11	6525590
Ptpn18	I11206;AK0;NM_011206;aos.1;uc007he phosphatase, non-receptor type 18 (Ptpn18)		chr1	2735;3445;
Golim4	75193;AK0;NM_175193;jni.1;uc008bgi integral membrane protein 4 (Golim4)	73124	chr3	75876383;
Mrpl54	NM_025317;NM_025317;uc007ggy.1;ondrial ribosomal protein L54 (Mrpl54)	66047	chr10	81264721
2410004N09	I8151;NR_038152;uc008ejv.2;uc029N cDNA 2410004N09 gene (2410004N09)		chr18	33794891
Ocel1	I29865;AK1;NM_029865;ncu.2;uc007udin/ELL domain containing protein 1 (Ocel1)	77090	chr8	71371297
Ift20	IY082613;NM_018854;uc007kjt.1; intraflagellar transport 20 (Ift20)	55978	chr11	78536435
Pam16	NM_025571;NM_025571;uc007xzx.1; e-associated motor 16 homolog (Pam16)	66449	chr16	4616465
Selp	I335;NM_0;NM_011347;dhz.2;uc03;ulus selectin, platelet (Selp), mRNA		chr1	4704;1641;
Rtn4	NM_194054;NM_194054;uc007ihn.2s musculus reticulon 4 (Rtn4)	68585	chr11	29693773;
Emilin2	45158;AK1;NM_145158;mf.1;uc008stin microfibril interfacial protein 2 (Emilin2)	246707	chr17	71252175
Tnfrsf1b	NM_011611;NM_011611;uc008vrt.1;actor receptor superfamily member 1b (Tnfrsf1b)	21938	chr4	1.45E+08
Gmip	NM_198101;NM_198101;uc009lxu.1; Gem-interacting protein (Gmip)	78816	chr8	69808686
Arhgdib	I07486;AK0;NM_007486;mo.1;uc009 dissociation inhibitor (GDI) beta (Arhgdib)	11857	chr6	1.37E+08
Nfkbia	NM_010907;NM_010907;uc007nor.2; polypeptide gene enhancer in C. elegans (Nfkbia)	18035	chr12	55489408
Tmem208	NM_025486;NM_025486;uc009ncs.2;ismembrane protein 208 (Tmem208)	66320	chr8	1.05E+08
Sec23a	NM_009147;NM_009147;uc007npw.1; SEC23A (S. cerevisiae) (Sec23a)	20334	chr12	58958383
Tpgs1	NM_148934;NM_148934;uc007fzh.1; olyglutamylase complex subunit 1 (Tpgs1)	110012	chr10	79669409
Arl4c	I77305;BC0;NM_177305;woz.1;uc007P-ribosylation factor-like protein 4 (Arl4c)	320982	chr1	18225;8867;
Folr1	I4;BC002072;52554;NM;uc009ipo.2;ulus folate receptor 1 (adult) (Folr1)	14275	chr7	1.02E+08
Sf3b5	NM_175102;NM_175102;uc007eki.2; plicing factor 3b, subunit 5 (Sf3b5)	66125	chr10	13008449
Cd7	NM_009854;NM_009854;uc007mvc.2;sculus CD7 antigen (Cd7)	12516	chr11	1.21E+08
Crip1	NM_007763;NM_007763;uc007pfz.1;eine-rich protein 1 (intestine) (Crip1)	12925	chr12	1.13E+08
Sp100	I0004;CT01;NM_013673;juh.1;uc007s nuclear antigen Sp100 (Sp100)	20684	chr1	85650049
Gjc2	CCDS24760;5452;NM;uc033fvv.1s gap junction protein, gamma 2 (Gjc2)	118454	chr11	76331;5917;
Cyb561	I978;NM_0;NM_007805;7lxs.1;uc007us cytochrome b-561 (Cyb561), mRNA		chr11	1.06E+08
Btg3	7662;NR_0;NM_009777;cahh.1;uc007B cell translocation gene 3 (Btg3)	12228	chr16	78359859
Sec61b	NM_024171;NM_024171;uc008sur.1;us Sec61 beta subunit (Sec61b)	66212	chr4	47474660
Eif6	I313;NM_0;NM_010579;uhr.1;uc007otic translation initiation factor 6 (Eif6)	16418	chr2	9836;1558;
Crybb3	K053552;N352;NM_00;uc012ebl.1;sculus crystallin, beta B3 (Crybb3)	12962	chr5	7023;1130;
Npdc1	I08721;BC0;NM_008721;birx.2;uc007eration, differentiation and control 1 (Npdc1)		chr2	13049;2540;
Ostf1	NM_017375;NM_017375;uc008gxs.2;teoclast stimulating factor 1 (Ostf1)	20409	chr19	18580363
2410006H16	I7519;NR_030738 uc007jjl.1;uc00710006H16 gene (2410006H16Rik), long non-coding RNA (2410006H16)		chr11	62602876
Ftl1	I960;NM_0;NM_010240;gvf.1;uc007ilus ferritin light chain 1 (Ftl1)	14325	chr7	45457943
Krt8	NM_031171;NM_031171;uc007xui.1;nusculus keratin 8 (Krt8), isoform 1 (Krt8)	16691	chr15	1.02E+08
Srm	NM_009272;NM_009272;uc008vuw.1;lus spermidine synthase (Srm)	20810	chr4	1.49E+08

Fam210b	NM_025912;NM_025912;uc012ckn.1	sequence similarity 210, m	67017	chr2	1.72E+08
Ssr4	166480;NM166480;NM	tms.2;uc00's signal sequence recepto	20832	chrX	73787027
8030411F24	532;NM_0;NM_030135;ntm.1;uc01	DNA 8030411F24 gene (8030411F24)		chr2	1.49E+08
Chst7	21715;CCDS;NM_021713;joq.1;uc00	N-acetylglucosamino) sulfotransferas		chrX	9569;2005
Fam114a1	1499;NM_0;NM_026667;wn.1;uc01	2quence similarity 114, member A1 (F		chr5	64970074
Mthfd2	NM_008638;NM_008638;uc009cne.2	se (NAD+ dependent), me	17768	chr6	83305703
Slc35a2	K008095;N1484;NM_00uc009snb.1	ily 35 (UDP-galactose tra	22232	chrX	5748;7884
Golgb1	3C145221;ENM_030035;uc007zdh.2	gen, golgin subfamily b, macrogolgin		chr16	5201;3688
Rcn1	NM_009037;NM_009037;uc008lks.1	culus reticulocalbin 1 (Rcn	19672	chr2	1.05E+08
Trim7	188;NM_0;NM_053166;xy.1;uc00	ipartite motif-containing	94089	chr11	7470;4882
Dpt	NM_019759;NM_019759;uc007diq.1	culus dermatopontin (Dp	56429	chr1	1.65E+08
Myzap	N_0010332;N_0010332;uc009qpa.1	rdial zonula adherens pro	102371	chr9	71504346
Ly9	N_0012779534;NM_00;uc033fnx.1	culus lymphocyte antigen 9 (Ly9)		chr1	1.72E+08
Fam83g	7262;NM_1;NM_178618;7jic.1;uc00	member G (Fam83g), mRN	69640	chr11	4409;6168
Myo1b	346;AK0537863;NM_00axv.2;uc025	musculus myosin IB (Myo	17912	chr1	51749765;
Vamp5	080742;NM080742;NM	ncil.2;uc009cle-associated membrane	53620	chr6	72368048
Csf1r	99;AK17154;N_0010378fbn.1;uc01	2y stimulating factor 1 receptor (Csf1r		chr18	5780;6110
Tuba1a	NM_011655;NM_011655;uc007xok.1	lus tubulin, alpha 1A (Tub	22142	chr15	98949846
Slc7a6	127;BC042;NM_178798;nf.1;uc00	onic amino acid transporter, y+ syste		chr8	106189112
Birc3	097;NM_0;NM_007464;dd.2;uc00	loviral IAP repeat-containing 3 (Birc3)		chr9	7857173;7
Anxa1	NM_01073;NM_01073;uc008gyi.1	culus annexin A1 (Anxa1	16952	chr19	20373433
Gorasp2	27343;BC0;NM_027352;zn.2;uc00	lgi reassembly stacking pr	70231	chr2	2896;7066
Vcam1	465;NM_0;NM_011693;rbx.1;uc00	ular cell adhesion molecule 1 (Vcam1)		chr3	3435;1161
Srpr	860;NM_0;NM_026130;osz.1;uc00	tion particle receptor ('dc	67398	chr9	2711;3521
Gabrb1	NM_008069;NM_008069;uc008xrb.1	ric acid (GABA) A recepto	14400	chr5	71700015
Stx3	5307;NM_(5307;NM_)gsz.1;uc00	8s musculus syntaxin 3 (Stx3)		chr19	7484;1177
Esd	285423;NM285423;NM	uqd.2;uc00terase D/formylglutathion	13885	chr14	74732296
Rhoc	NM_007484;NM_007484;uc008qul.2	omolog gene family, mem	11853	chr3	1.05E+08
Ccdc69	77471;BC0;NM_177477;iyv.1;uc00	id-coil domain containing	52570	chr11	0729;5504
Tmem37	NM_019432;NM_019432;uc007cjd.1	nsmembrane protein 37 (	170706	chr1	1.2E+08
Tppp3	NM_026481;NM_026481;uc009ndc.2	ation-promoting protein f	67971	chr8	1.05E+08
Akr1c13	NM_013778;NM_013778;uc007pj.2	eductase family 1, memk	27384	chr13	4191186
Plk3	013807;U2;NM_013807;dj.1;uc00	ulus polo-like kinase 3 (Pl	12795	chr4	1.17E+08
Eif4ebp1	NM_007918;NM_007918;uc009lih.1	ion initiation factor 4E bir	13685	chr8	27260326
2310039H	02596;NM_02596;uc008cui.1	DNA 2310039H08 gene (2	67101	chr17	46772634
Tmem150	646;BC062;NM_182841;yhf.1;uc00	8membrane protein 150C	231503	chr5	7872;1000
Glipr1	NM_028608;NM_028608;uc007haj.2	athogenesis-related 1 (glic	73690	chr10	1.12E+08
Sec13	NM_024206;NM_024206;uc009dhm.1	C13 homolog (S. cerevisia	110379	chr6	1.14E+08
Rin1	NM_145495;NM_145495;uc008gca.1	Ras and Rab interactor 1	225870	chr19	5050807
Sars	79;AK14782204979;NM	uc008qza.2 seryl-aminoacyl-tRNA synthetase (Sa		chr3	4396;1084
Fam46a	0378;NM_(0378;NM_)gxn.1;uc00	s with sequence similarity 4	212943	chr9	85320438
Dok5	163686;NM163686;NM	bcg.2;uc012usculus docking protein 5	76829	chr2	1.71E+08
Atp11a	3C145399;B;NM_015804;uc009kwj.2	TPase, class VI, type 11A	50770	chr8	12757015
Ece2	145126;NM;NM_17794;uc007yqh.1	endothelin converting enzyme 2 (Ecc		chr16	20611600;
Nfkbiz	NM_001159;NM_001159;uc007zlo.2	light polypeptide gene en	80859	chr16	55811376
Cd37	54466;AK1;NM_007649;gui.1;uc00	musculus CD37 antigen (C	12493	chr7	45233631;
Acbd3	NM_133225;NM_133225;uc007dwq.2	yme A binding domain co	170760	chr1	1.81E+08

Rexo2	1202;NM_01024233	lipin 1;uc009xonuclease 2 homolog (S	104444	chr9	13490;4846
Herpud1	122331;AK01022331	hwg.1;uc009reticulum stress-inducibl	64209	chr8	94386499
Fkbp11	9;BC022900	NM_024165uc007xnn.1;K506 binding protein 11 (Fkbp11), m		chr15	16814;9872
Adamts14	106;NM_0010010811	hes.1;uc009se (reprolysin type) with thrombospor		chr10	61197111
Copb2	101582;NM_015821	uc009rdm.1in complex, subunit beta	50797	chr9	98563730
Jun	101059;NM_010591	uc008tsq.2ilus jun proto-oncogene (J	16476	chr4	95049035
AK077474	AK077474	uc009rdl.1;th enriched library, clone:5730419C0		chr9	98562228
Sec24d	10981;NM_01027135	exb.1;uc009gene family, member D (S	69608	chr3	19144;1232
5430435G2	14550;NM_145501	uc007cnp.1DNA 5430435G22 gene (5430435G22		chr1	1.32E+08
Pgm1	102570;NM_025701	uc008xmi.1; phosphoglucomutase 1 (	66681	chr5	64092949
Wnt2b	100952;NM_009521	uc008qut.1related MMTV integrator	22414	chr3	1.05E+08
Tfrc	101163;NM_011631	uc007yzb.2ilus transferrin receptor (T	22042	chr16	14441;3260
Rras	100910;NM_009101	uc009gss.1rat sarcoma oncogene, su	20130	chr7	45018006
Tbrg1	102528;NM_025281	uc009ovh.1; growth factor beta regul	21376	chr9	37649181
Mapkapk3	1178;AK170456	17890;uc009rky.1;rotein kinase-activated pi	102626	chr9	19554;1072
Arhgef6	13019723;NM_152801	uc009the.1;ine nucleotide exchange f	73341	chrX	157272229;
Pawr	154056;DQ41054051	xnd.1;uc009C, apoptosis, WT1, regulator (Pawr),		chr10	12687;1083
Elovl7	129001;AK01029001	rva.2;uc009r 7, elongation of long cha	74559	chr13	1.08E+08
H2afj	117768;NM_177681	uc009eme.1A histone family, membe	232440	chr6	1.37E+08
Vat1	1178;NM_01020371	loz.1;uc009ransport protein 1 homolog (T californ		chr11	18747;1014
Pafah2	1001285;NM_001285	uc008vey.3;let-activating factor acetyl	100163	chr4	17470;1343
Spty2d1	117531;NM_175311	uc009gzx.2of Ty, domain containing :	101685	chr7	46990395
Tnfsf13	1517;NM_005171;NM_007jrd.1;uc009osis factor (ligand) superfamily, memk			chr11	69682576
Tbxas1	185414;AK11011531	9blc.1;uc009boxane A synthase 1, platelet (Tbxas		chr6	138983309;
Slc1a5	100920;NM_009201	uc009fib.1.1 (neutral amino acid tran	20514	chr7	16781345
Slc37a1	1001242;D62;NM_001008buy.1	r 37 (glycerol-3-phosphate	224674	chr17	131295482;
Rcn3	126555;BC01026551	gta.3;uc009in 3, EF-hand calcium bin	52377	chr7	45082913
Lcp2	110696;AK010691	7ikv.1;uc009mphocyte cytosolic protei	16822	chr11	34047200
Stambpl1	110122;AK01029681	zhgc.1;uc029NM binding protein like 1 (Stambpl1),		chr19	12624;3419
Zhx2	17483;NM_119944	1vsps.1;uc039ic fingers and homeoboxes 2 (Zhx2), r		chr15	11236;5769
Map1b	1157749;NM_008631	uc007rpt.2;tubule-associated protein 1B (Map1k		chr13	199429211;
Mfap5	101577;NM_015771	uc009dpi.1ofibrillar associated prote	50530	chr6	1.23E+08
AK076318	AK076318	uc009nwn.1;th enriched library, clone:4732419C:		chr8	1.24E+08
Chst4	12659;NM_10119981	3jhr.1;uc009chondroitin 6/keratan) sul	26887	chr8	19074;1100
Gm10941	NR_026944	uc007fvi.2:d gene 10941 (Gm10941), long non-c		chr10	77257772
Dapp1	10584;NM_011931	7mt.1;uc009hosphotyrosine and 3-phc	26377	chr3	1.38E+08
Samd4	1163751;NM_028961	uc007thp.1ile alpha motif domain co	74480	chr14	14174;4688
C6	116704;AK010670	zqw.1;uc009complement component	12274	chr15	4727209
Tfpi2	100936;NM_009361	uc009avh.1ue factor pathway inhibiti	21789	chr6	3962594
Efnb2	101011;NM_010111	uc009kue.1usculus ephrin B2 (Efnb2),	13642	chr8	8617438
Rorc	10941;NM_011281	2ctn.1;uc009related orphan receptor g	19885	chr3	17459;9437
Gmppb	117791;NM_177911	uc009rog.1annose pyrophosphoryla	331026	chr9	1.08E+08
Lgmn	1104;NM_011171	5oue.1;uc009usculus legumain (Lgmn),	19141	chr12	1.02E+08
Ctss	1281;NM_002811;NM_001qjz.3;uc009s musculus cathepsin S (C		13040	chr3	95526785
Zfp456	10010011;NM_0010011	uc007rar.1. zinc finger protein 456 (Z	408065	chr13	67363583
Maats1	143;NM_0010010810	7zer.1;uc009-associated, testis expressed 1 (Maat		chr16	17753;3833
Ankrd61	102573;NM_025731	uc009akv.1kyrin repeat domain 61 (	66729	chr5	1.44E+08

Slc25a33	NM_02746(NM_02746uc008vxe.1carrier family 25, member	70556	chr4	1.5E+08
S100a13	NM_00911(NM_00911uc008qcu.2calcium binding protein A	20196	chr3	90514434
9630014M	AK035890 uc008esm.1ne: Full=Protein 9630014M24Rik		chr18	38601533
Ogfod2	3946;NM_0(NM_025671zoy.1;uc008n-dependent oxygenase (	66627	chr5	1.24E+08
Usp43	4;AK04733(NM_173754uc007jne.1; ubiquitin specific peptidase 43 (Usp4		chr11	67854522
Tmem62	3C049167;NM_175285uc012ccj.1nsmembrane protein 62 (Tmem62), r		chr2	'7630;1209'
Tubb2a	NM_00945(NM_00945uc007qbb.3ubulin, beta 2A class IIA (	22151	chr13	34074279
Sec22b	NM_011342(NM_011342uc008qpj.1fficking protein homolog f	20333	chr3	97901226
Cib1	3450;NM_0(NM_011870hzt.1;uc008cium and integrin binding	23991	chr7	80227159
Fam83b	1045518;AK100104551qtc.1;uc008sequence similarity 83, m	208994	chr9	76490704
Arl1	NM_02585(NM_02585uc007grw.1DP-ribosylation factor-like	104303	chr10	88731413
Clec4n	;NM_0011(NM_001190321esk.1;uc008e lectin domain family 4,	56620	chr6	:9856;1232:
Phospho1	53104;AK103104;NM_7las.2;uc008hosphatase, orphan 1 (Ph	237928	chr11	:4499;9571:
1810043H	(NM_0011102(NM_0011102uc007mru.2DNA 1810043H04 gene (1	208501	chr11	1.2E+08
Tspo	NM_00977(NM_00977uc007xbg.2lus translocator protein (T	12257	chr15	83563572
Mrgprx2	53;NM_001(NM_0010348har.2;uc008S-related GPR, member X2 (Mrgprx2),		chr7	:0625;4847:
Rabac1	3109;NM_0(NM_010263frd.1;uc008b acceptor 1 (prenylated)	14470	chr7	24969749
Cd52	NM_01370(NM_01370uc008vea.2sculus CD52 antigen (Cd52	23833	chr4	1.34E+08
Nfil3	;CCDS2651(NM_017373uc007qni.1;ir factor, interleukin 3, regulated (Nfil		chr13	:7477;5296'
Igfbp5	10518;BC0(NM_010518bkx.1;uc028) product:unclassifiable, full insert sec		chr1	:8064;7285:
Bspry	NM_13865(NM_13865uc008tex.1;x and SPRY domain contai	192120	chr4	62480066
Fbxo2	NM_17684(NM_17684uc008vuk.1ulus F-box protein 2 (Fbxc	230904	chr4	1.48E+08
Gmfg	K153228;N024;NM_00uc009fyy.1s glia maturation factor, gamma (Gmf		chr7	;28437446;
Plk2	3452;NM_1(NM_152807rvr.1;uc008ulus polo-like kinase 2 (Plk	20620	chr13	:5047;1103:
Uqcrc	3160;NM_0(NM_025357ivy.2;uc008irome c reductase, compl	22272	chr11	53428947
Itga6	M_001277397;NM_00uc008kbd.2nusculus integrin alpha 6 (	16403	chr2	;71786938;
Vmo1	M_0010136(M_0010136 uc007jvc.1 brane outer layer 1 homo	327956	chr11	70513515
Tspan18	AK171054;NM_18318(NM_18318uc033hom.1ulus tetraspanin 18 (Tspan18), mRNA		chr2	;93291835;
Mgam	32;NM_001(M_0011710iow.1;uc008s maltase-glucoamylase (M	232714	chr6	;40628830;
Cxadr	NM_00998(NM_00998uc007zso.2sackie virus and adenoviru	13052	chr16	78301670
Lpar3	NM_02298(NM_02298uc008rra.2hosphatidic acid receptc	65086	chr3	1.46E+08
Odc1	NM_01361(NM_01361uc007ncv.1ine decarboxylase, struct	18263	chr12	17544872
Igsf3	NM_20720(NM_20720uc008qrg.2oglobulin superfamily, me	78908	chr3	1.01E+08
Syt7	NM_01880(NM_01880uc012bin.1 usculus synaptotagmin VI	54525	chr19	10389089
Gdpd5	3443;NM_2(NM_2013529ilp.1;uc008ster phosphodiesterase domain conta		chr7	:8838;9938:
Hist1h4i	NM_17565(NM_17565uc007psc.1 histone cluster 1, H4i (Hi	69386	chr13	22040815
Tubb2b	NM_02371(NM_02371uc007qbd.1ubulin, beta 2B class IIB (	73710	chr13	34127007
Fxyd5	3;BC03111111073;NM;uc009gho.ain-containing ion transj	18301	chr7	:2722;3103:
Fam131c	M_0010855(M_0010855uc008vod.2equence similarity 131, m	277743	chr4	1.41E+08
Asic2	034013;NM034013;NM:ml.2;uc007-sensing (proton-gated) ic	11418	chr11	80880162
Anxa3	NM_01347(NM_01347uc008yfl.2; sculus annexin A3 (Anxa3), mRNA		chr5	:3384;9681:
Furin	046;NM_00046;NM_009iau.1;uc008aired basic amino acid cle	18550	chr7	80389193
Hmga1	.76;NM_00176;NM_009anz.1;uc008 high mobility group AT-h	15361	chr17	:6573;2755:
Frat1	NM_00804(NM_00804uc008hmi.2arranged in advanced T cell lymphom		chr19	41829969
Nxn12	NM_02917(NM_02917uc007qme.1us nucleoredoxin-like 2 (N	75124	chr13	51171024
Sema5a	09154;AK0(NM_009154vkp.1;uc0081-like), transmembrane domain (TM)		chr15	:1674;3224:
Itgbl1	1773;NM_1(NM_145467zqq.1;uc008us integrin, beta-like 1 (Itgbl1), mRNA		chr14	1.24E+08

Filip1l	CCDS49877.7871;NM_001027822.2;ilamin A interacting prote	78749	chr16	;57549241;
Ctla2b	145801;NM_0145801.1;NM_001027822.2;uc007.2; T lymphocyte-associated	13025	chr13	60895350
Snx10	NM_028035;NM_028035;uc009bxt.1;musculus sorting nexin 10 (	71982	chr6	;3902;5154;
Ppp1r35	NM_027242;NM_027242;uc009adx.1;phosphatase 1, regulatory su	69871	chr5	1.38E+08
18100320	(NR_027819;NM_014782.2;uc007mlz.2 N cDNA 1810032008 gene (18100320		chr11	1.17E+08
AI413582	1002895;AKM_0010028bpf.1;uc008essed sequence AI413582 (AI413582)		chr17	;3768;2756;
Clec4a2	NM_001117;NM_001117;uc009dqb.2;lectin domain family 4, r	26888	chr6	;3315;1231;
Tgm2	09373;AK0;NM_009373;npr.1;uc008glutaminase 2, C polypeptide (Tgm2)		chr2	;0379;1581;
Xbp1	'30;BC0160342;NM_001007hwn.2;musculus X-box binding protein 1 (Xbp1)		chr11	;4238;5520;
Daam1	64;BC048851;NM_0012864nuz.2;uc007d associated activator of n	208846	chr12	;71831067;
Arf4	NM_007479;NM_007479;uc007sta.1. ADP-ribosylation factor 4	11843	chr14	26638196
Tlr4	NM_021297;NM_021297;uc008thv.1;musculus toll-like receptor 4 (Tl	21898	chr4	66827810
Prr13	4;NM_0253385;NM_00100xvr.2;uc007musculus proline rich 13 (f	66151	chr15	102459231
Tmsb4x	NM_021278;NM_021278;uc009uwx.1;osin, beta 4, X chromosor	19241	chrX	1.67E+08
Tsku	BC129978;M8540;NM_001009iki.2;musculus musculus tsukushi (Tsku)		chr7	;2057;9835;
Pex5l	_00116351;289505;NM_001008owu.1;peroxisomal biogenesis factor 5-like (P		chr3	;32949633;
Flnb	NM_134080;NM_134080;uc007sek.1;musculus filamin, beta (Flnb)	286940	chr14	.7956;7919;
Srgap1	;AK016279;1037;NM_001007hgc.2;OBO Rho GTPase activating protein 1		chr10	1.22E+08
Arl11	77337;CCDS;NM_177337ufu.1;uc003P-ribosylation factor-like 11 (Arl11), r		chr14	.0742;6130;
Runx2	073392;NM_0271630;NM_00100cqc.3;uc008unt related transcription f	12393	chr17	;3988;4463;
Nfam1	NM_001271;NM_001271;uc007wzu.2;activating molecule with ITAM motif 1		chr15	82996735
Lrat	NM_023624;NM_023624;uc012cqv.1;rase (phosphatidylcholine	79235	chr3	82892581
Chsy3	M_0010813;M_0010813;uc008ezv.1;ondroitin sulfate synthase 3 (Chsy3), r		chr18	'5339;5917';
Coq10b	039710;NM_039710;NM_00100mazz.1;uc007zyme Q10 homolog B (S. c	67876	chr1	55052769
Fam83h	168253;NM_0168253;NM_00100wic.2;uc007with sequence similarity 8:	105732	chr15	76001091
Timm10b	4;AK131168;NM_019502;uc009iyt.1; inner mitochondrial mem	14356	chr7	;0539;1056;
Rhbdd1	122685;NM_0122685;NM_00100brq.3;uc007rhomboid domain contain	76867	chr1	;9048;8231;
Mitf	08601;BC1;NM_008601dba.2;uc007hthalmia-associated tran	17342	chr6	;7057;9792;
Dusp3	NM_028207;NM_028207;uc007lqa.2;atase 3 (vaccinia virus pho	72349	chr11	1.02E+08
Lrrc59	NM_133807;NM_133807;uc007kze.1;ine rich repeat containing	98238	chr11	94629823
Ms4a6d	NM_026835;NM_026835;uc008gsm.1;ing 4-domains, subfamily	68774	chr19	11586605
BC020394	BC020394 uc008opv.1; enriched library, clone:9030406H22		chr3	10390322
Zbtb18	909;BC0893915;NM_001007dun.2;uc007finger and BTB domain containing 18		chr1	177444660
Snhg18	NR_038186 uc007vkn.2;lar RNA host gene 18 (Snhg18), long r		chr15	32240567
Palmd	;939;NM_001023243rcx.1;uc008culus palmdelphin (Palmd	114301	chr3	;1857;1169;
Josd2	05072;BC01001205072gpm.2;uc007Cs Josephin domain contain	66124	chr7	44467979
Tnni1	2;NM_0214;NM_021467;uc033flp.1;musculus troponin I, skeletal, slc	21952	chr1	135799510
Ffar2	2;NM_0011001168511fhx.1;uc007musculus free fatty acid recept	233079	chr7	.8356;3081;
Taldo1	NM_011528;NM_011528;uc009kkv.2;musculus transaldolase 1 (Tald	21351	chr7	1.41E+08
Ptrh1	.78595;AK1;NM_178595jgx.1;uc008A hydrolase 1 homolog (S	329384	chr2	32775820
Mnda	150;AK0887;M_0010334 uc007drx.1;cell nuclear differentiator	381308	chr1	;8971;1738;
Rasal1	832;NM_00832;NM_00100zhs.2;uc008 protein activator like 1 (GAP1 like) (f		chr5	;9187;1206;
Gvin1	M_0010391;039160;NM_0010033bjb.1;ase, very large interferon	74558	chr7	1.06E+08
Clec3b	NM_011606;NM_011606;uc009sfw.2;ctin domain family 3, mei	21922	chr9	1.23E+08
Aif1	19467;BC0;NM_019467cgm.1;uc007lograft inflammatory fact	11629	chr17	35170991
Pam	013626;AK;NM_013626cfr.1;uc007cine alpha-amidating monooxygenase		chr1	;97821093;
F3	1273;NM_0010173ree.2;uc007musculus coagulation factor III (F3), mRNA		chr3	;3536;1217;

Prr18	NM_178774;NM_178774;uc012ajr.1;nusculus proline rich 18 (Prr18)	320111	chr17	3,8341013;8
A330023F21382	;NR_015566;uc007ees.1;uc00730023F24 gene (A330023F24Rik), lor		chr1	.7398;1950:
Yif1a	NM_026553;NM_026553;uc008gcd.2;cting factor homolog A (S.	68090	chr19	5088537
Galnt16	l21;AK1731;NM_0010814;uc007oaw.1;mine:polypeptide N-acety	108760	chr12	;80518801;
Prosc	9078;AK049;NM_001035;uc009lhv.1;proline synthetase co-trar	114863	chr8	27042554
Ccl5	NM_013653;NM_013653;uc007kpi.2;emokine (C-C motif) ligan	20304	chr11	83525778
Nrp1	:992;AK135;NM_008737;nzq.2;uc007isculus neuropilin 1 (Nrp1), mRNA		chr8	;9072;1283!
C2cd4c	DS23979;N614;NM_00;uc007fzc.1;ium-dependent domain c	237397	chr10	.2051;7960!
Fstl3	286;NM_0;NM_031387;fzs.2;uc007sculus follistatin-like 3 (Fstl	83554	chr10	'7273;7978!
Tmem202	NM_178388;NM_178388;uc009pxv.1;ismembrane protein 202 (	73893	chr9	59518684
Atf5	3136;NM_C;NM_030693;gqu.2;uc01s activating transcription f	107503	chr7	44812255
Acsf5	NM_027976;NM_027976;uc008hxp.1;thetase long-chain famil	433256	chr19	55253368
2210408F20261	;NR_040259;NR_029vtz.1;uc013N cDNA 2210408F21 gene (2210408!		chr6	31220350
Cysltr1	NM_021476;NM_021476;uc009ubt.1;cysteinyl leukotriene receptor 1 (Cysl		chrX	1.07E+08
Fkbp1a	AK141261;NM_00801;uc008ndz.1;K506 binding protein 1a (	14225	chr2	1.52E+08
1700056E2NM_02851	;NM_02851;uc011wxw.1;DNA 1700056E22 gene (1	73363	chr1	1.84E+08
4930523C06	;NR_0281;NM_0011628;uc007deb.2;N cDNA 4930523C07 gen	67647	chr1	'5161;1600!
Sdc4	NM_011521;NM_011521;uc008nuq.1;sculus syndecan 4 (Sdc4)	20971	chr2	1.64E+08
Ptpn7	1;BC098475;NM_177081;uc011wsh.1;ine phosphatase, non-rec	320139	chr1	135133749
Nags	;765;NM_1;NM_145829;lqq.2;uc007N-acetylglutamate synthas	217214	chr11	6365;1021!
Hcrtr1	C119582;N959;NM_00;uc012dlu.1; hypocretin (orexin) rece	230777	chr4	1.3E+08
Adamts15	43;NM_001;NM_0012854;gcv.3;uc03isculus ADAMTS-like 5 (Ac	66548	chr10	80339792
Zfp36	11756;AK0;NM_011756;wef.1;uc007 Short=TIS11; AltName: Full=TPA		chr7	'6783;2837!
Mtmr11	NM_181409;NM_181409;uc008qmd.2;ubularin related protein 1	194126	chr3	96161969
Ms4a6c	595;NM_00595;NM_00;gsg.2;uc008banning 4-domains, subfar	73656	chr19	11469367
Rras2	125846;AK1;NM_025846;fsk.1;uc009AS viral (r-ras) oncogene homolog 2 (F		chr7	1.14E+08
Zc3h12a	NM_153159;NM_153159;uc008urx.2;ger CCCH type containing	230738	chr4	6366;1251!
Ooep	NM_02648;NM_02648;uc009quh.2;oocyte expressed protein	67968	chr9	78376902
Chrn1	NM_009601;NM_009601;uc007jrj.2;or, nicotinic, beta polype	11443	chr11	69784035
Tagln2	.78598;AF4;NM_178598;dp.1;uc02, complete cds;Mus musci	21346	chr1	6910;1725!
Pla2g16	AK052657;NM_139265;uc008glh.1;ospholipase A2, group XVI	225845	chr19	;7458;7557!
Cd68	109853;AK1;NM_009853;jqy.1;uc007sculus CD68 antigen (Cd68	12514	chr11	69664370
Fam219a	C172173;N993;NM_00;uc008siz.2 th sequence similarity 219, member /		chr4	.8928;4151!
Cytip	1790;AK172;NM_139208;jsl.1;uc008tohesin 1 interacting prot	227929	chr2	;58129138;
Anxa5	NM_009673;NM_009673;uc008ozj.2 sculus annexin A5 (Anxa5	11747	chr3	36448923
Trim66	NM_00117;NM_00117;uc012frz.1; tripartite motif-containir	330627	chr7	1.09E+08
Arpc1b	1275;NM_0;NM_02314;amb.2;uc008d protein 2/3 complex, su	11867	chr5	1.45E+08
Pde2a	057029;NM_0011438;uc009iop.3;phodiesterase 2A, cGMP-stimulated		chr7	.0519;1014!
Fjx1	NM_010218;NM_010218;uc008lhw.1;ur jointed box 1 (Drosoph	14221	chr2	1.02E+08
Csf1	1529;NM_0;NM_00777;eqxm.1;uc008ony stimulating factor 1 (n	12977	chr3	107745594
Panx1	1265;NM_0;NM_019482;gon.2;uc008sculus pannexin 1 (Panx1	55991	chr9	15005784
Atf4	716;NM_00716;NM_00;gvi.1;uc007s activating transcription f	11911	chr15	80255183
Cidea	NM_007702;NM_007702;uc012beh.1;fragmentation factor, alpl	12683	chr18	67343563
Stx11	29075;NM_0;NM_001163;foq.1;uc007; musculus syntaxin 11 (Stx11)		chr10	;9982;1294!
Timp1	044384;NM_044384;NM_0;sty.1;uc008ue inhibitor of metalloprc	21857	chrX	20870165
Gas2l1	;NM_030220408;NM_0;uc007hvr.2; growth arrest-specific 2 |	78926	chr11	1;5060469;!
C1qtnf4	6417;NM_C;NM_026161;ktq.1;uc033;or necrosis factor related protein 4 (C		chr2	;5785;9088!

Lilra6	IM_011090;NM_011090uc009ewq.1;in-like receptor, subfamily	18726	chr7	3908279
Lyve1	NM_053247;NM_053247uc009jfr.1;ssel endothelial hyalurona	114332	chr7	1.11E+08
Pvr	I446;NM_0;NM_027514fno.2;uc009ulus poliovirus receptor (P	52118	chr7	13577;1991!
Txnrd1	NM_001042762;NM_00uc007gij.1;ilus thioredoxin reductase 1 (Txnrd1)		chr10	14604;8285!
Rhoq	NM_145491;NM_145491uc008dum.1;homolog gene family, mem	104215	chr17	86963110
Ly6g5b	0;AJ315554:8939;NM_0;uc033hdc.1;te antigen 6 complex, loc	266614	chr17	35113945
Creb5	8;AK05223(NM_172728uc009bzj.1;ponsive element binding protein 5 (C		chr6	53573373
Tmem140	;CCDS1999;NM_197988uc033ior.1;ismembrane protein 140 (Tmem140),		chr6	12550;3486!
Gdf15	NM_011819;NM_011819uc009mba.2;wth differentiation factor	23886	chr8	70629393
Pck2	NM_028994;NM_028994uc007tyw.1;ruvate carboxykinase 2 (mitochondr		chr14	55540265
Laptm5	6;AK171053;NM_010688uc008uzu.1;ssociated protein transmembrane 5 (l		chr4	1.31E+08
Foxp2	051668;NM_0012866uc009aza.1;usculus forkhead box P2 (	114142	chr6	11348;1518!
Tox2	NM_0010987;NM_0010987uc008nso.1;nobility group box family	269389	chr2	1.63E+08
Gltpd2	NM_14602(NM_14602uc007jvd.1;ansfer protein domain co	216871	chr11	70519208
Fam132b	NM_173395;NM_173395uc007caj.1;equence similarity 132, m	227358	chr1	91366429
Ust	1782;NM_1;NM_177387xaa.1;uc009;ronyl-2-sulfotransferas	338362	chr10	8204752
Emr1	155862;U6;NM_010130eu.2;uc012ing, mucin-like, hormone receptor-lik		chr17	57358685
Tex40	194;BC1720;NM_0010394uc012bhp.1;us testis expressed 40 (Te	67077	chr19	6922425
Zmynd15	128979;NM_0010299uc007juz.1;er, MYND-type containin	574428	chr11	19621;7046!
Kcnk13	NM_001164426;NM_001164426uc007osi.2;ium channel, subfamily K,	217826	chr12	99964498
Mgp	NM_00859;NM_00859uc009eml.1;ilus matrix Gla protein (M	17313	chr6	1.37E+08
Irgc1	NM_19901;NM_19901uc009fpp.1;y-related GTPase family, c	210145	chr7	11998;2443!
Dennd3	12;NM_001;NM_0010810ztv.1;uc007/MADD domain containin	105841	chr15	73512559
Slc1a4	NM_018861;NM_018861uc007idb.2;amate/neutral amino aci	55963	chr11	20302179
Sqstm1	NM_011018;BC0;NM_0110187irx.1;uc007;usculus sequestosome 1 (S	18412	chr11	50200151
Htatip2	46049;NM_0011460499hbo.2;uc007;nteractive protein 2, homolog (hum		chr7	19105;4975!
Lonp1	1735;NM_0;NM_028782dco.2;uc009;eptidase 1, mitochondri	74142	chr17	56614297
Gm10471	NM_0011775;NM_0011775uc012dtn.1;redicted gene 10471 (Gm10471), mF		chr5	26082171
Gpr39	NM_02767;NM_02767uc007ckh.2;rotein-coupled receptor	71111	chr1	1.26E+08
AK147021	AK147021 uc007dbi.1;clone:1920088N03 product:hypothetic		chr1	1.56E+08
Psmc8	126545;AK1;NM_026545gbb.2;uc009;me, macropain) 26S subui	57296	chr7	14186;2917!
Defb36	NM_0010372;NM_0010372uc008nfu.2;ilus defensin beta 36 (Defl	266620	chr2	1.53E+08
Ncf4	108677;AK1;NM_008677ow.2;uc009;eutrophil cytosolic factor 4 (Ncf4), m		chr15	14810;7825!
BC032181	BC032181 uc008gyu.1;gth enriched library, clone:9230105K		chr19	21161931
Cpne8	1;NM_025033851;NMuc007xho.1; musculus copine VIII (Cpi	66871	chr15	17480;9064!
Ddit3	NM_00783;NM_00783uc007hiy.2;NA-damage inducible tra	13198	chr10	1.27E+08
Ttc34	NM_172878;NM_172878uc012dql.1;tricopeptide repeat doma	242800	chr4	1.55E+08
1810034E1	NR_045798 uc007qys.1;10034E14 gene (1810034E14Rik), lon		chr13	64248699
Serpine2	109255;AK1;NM_009255bqz.2;uc009;eptidase inhibitor, clade E, membe		chr1	14320;7981!
Esyt3	NM_17777;NM_17777uc009reb.1;led synaptotagmin-like pri	272636	chr9	99309966
H2-D1	NM_010380;267808;NM;chf.1;uc009;ompatibility 2, D region locus 1 (H2-D		chr17	14027;3526!
Tubb2a-ps2	NR_003964 uc011yki.1;ta 2a, pseudogene 2 (Tubb2a-ps2), nc		chr12	11882195
Dcblid2	128523;BC0;NM_028523znr.1;uc007;UB and LCCL domain containing 2 (D		chr16	158460242;
Gda	1078;NM_0;NM_010268gyx.1;uc009;ilus guanine deaminase (Gda), mRNA		chr19	18724;2139!
Arhgap15	7;NM_001025377;NM;jox.1;uc009;io GTPase activating prote	76117	chr2	43748823
Zfp652os	NR_045780 uc007lao.2;in 652, opposite strand (Zfp652os), lc		chr11	95700105
Gm6377	037917;CCM_0010379;ucu.2;uc03; predicted gene 6377 (Gm6377), mRf		chrX	17814;1091!

Eif2ak3	AK139679;NM_010121uc009cgc.1	slation initiation factor 2 alpha kinase	chr6	'8560;7084
2410131K1M_0010812M_0010812	uc008zgj.1	DNA 2410131K14 gene (2	chr5	1.18E+08
Apoc2	1277944;BCI_0012779	fbh.2;uc009us apolipoprotein C-II (Ap	chr7	19671578
E130114P115513;BC048847;AK068	ttto.2;uc0030114P18	gene (E130114P18Rik), lon	chr4	97567874
Slc22a23	05;NM_001M_0010331	qbh.1;uc00carrier family 22, member	chr13	34179157
Sectm1a	AK170159;NM_14537	uc007mve.1	chr11	1.21E+08
AK042791	AK042791	uc009cts.1	chr6	87672381
Tfec	8;AK15742(NM_03119	uc009aze.2	chr6	1415;1683
AK192600	AK192600	uc029rqe.1	chr11	1.21E+08
F13a1	166391;NM166391;NMqcn.2;uc00	coagulation factor XIII, A1	chr13	;36867177;
Mcpt4	NM_01077(NM_01077	uc007ubl.1	chr14	56059743
Plat	108872;AK0(NM_00887	ldx.2;uc009	chr8	22757743
Arap2	.78407;AK0(NM_17840	xlz.2;uc008AP	chr5	62602445
Cebpb	NM_00988(NM_00988	uc008oaf.2	chr2	1.68E+08
Tbr1	NM_00932(NM_00932	uc008jvd.1	chr2	61804452
BC021614	1269;NM_1(NM_14486	3fyh.1;uc00NA	chr19	4057486
Stac2	NM_14602(NM_14602	uc007lfl.1	chr11	98036623
Cma1	NM_01078(NM_01078	uc007ubf.1	chr14	55941450
Tpsb2	NM_01078(NM_01078	uc008bas.1	chr17	25366332
Rdh10	NM_13383(NM_13383	uc007ajm.1	chr1	16105881
Srrm4	NM_02688(NM_02688	uc008zfb.1	chr5	3155;1164
Klhdc8a	NM_14481(NM_14481	uc007con.1	chr1	1.32E+08
Npw	M_0010996M_0010996	uc008axm.2	chr17	24657329
Scand1	8298;NM_CNM_02025	ennc.2;uc03CAN	chr2	.1845;1563
Il6ra	10559;AK1(NM_01055	qaf.1;uc008	chr3	89869323
Cd53	NM_00765(NM_00765	uc008qwm.1	chr3	1.07E+08
Shc4	1946;NM_1(NM_19902	ncy.1;uc008	chr2	125649104
AK084494	AK084494	uc008lll.1	chr2	1.07E+08
Gfod1	1033399;AKM_0010333	'qfx.1;uc008	chr13	15424;4319
Dok3	113739;AK1(NM_01373	qrm.1;uc00	chr13	55523234
Gm15417	10404;NR_04040	uc008pzf.1;uc008	chr3	11863;8939
C1qb	NM_00977(NM_00977	uc008vip.2	chr4	1.37E+08
Ttyh2	153273;AK1(NM_05327	enfm.1;uc01	chr11	1.15E+08
Klf6	NM_01180(NM_01180	uc007pjw.1	chr13	5861488
AK020645	AK020645	uc007cpy.1	chr1	1.33E+08
4930448K2NR_004448		uc012dal.1	chr4	9915964
Bpifb9a	NM_17516(NM_17516	uc008niz.1	chr2	1.54E+08
AK082432	AK082432	uc008nsn.1	chr2	1.63E+08
AK171153	AK171153	uc008ccf.1;uc008	chr17	16546;3428
Speer5-ps1	11582;NR_02750	uc011xdm.1;uc00	chr10	10446;4421
Adam4	NM_00962(NM_00962	uc007ocd.1	chr12	81419548
Tyrobp	NM_01166(NM_01166	uc009gef.1	chr7	30413787
E130317F2NR_029447		uc011xib.1	chr10	79851376
Fcgr2b	M_010187;077189;NM	lms.2;uc00	chr1	10558;1709
Pappa	121362;AF4(NM_02136	zhm.1;uc01	chr4	65124173
Steap1	NM_02739(NM_02739	uc008wjb.2	chr5	5736321
Gm12250	M_0011351M_0011351	uc011xvf.1	chr11	58183842

H2-K1	92;BC080711;NM_001001811;uc033hct.1	histocompatibility 2, K1, K region (H2-K1)	chr17	;33996011;
Sema3b	364;BC0906153;NM_001001811;uc009g	domain (Ig), short basic (Sema3b)	chr9	1.08E+08
BC071253	BC071253	uc012hdm.10051L08 product:NADH-ubiquinone oxidoreductase	chrM	11719
C1qa	NM_007572;NM_007572;uc008vir.1	onent 1, q subcomponent (C1qa)	chr4	1.37E+08
Chpf2	AK122504;NM_133913;uc012dte.1	ndroitin polymerizing factor (Chpf2)	chr5	;6749;2458;
Cdr2	NM_007672;NM_007672;uc012ftc.2	bellar degeneration-related protein 2 (Cdr2)	chr7	1.21E+08
Jdp2	NM_030887;NM_030887;uc007ohb.1	ilus Jun dimerization protein 2 (Jdp2)	chr12	;85599104;
Dusp10	NM_022019;NM_022019;uc007dym.1	specificity phosphatase 10 (Dusp10)	chr1	1.84E+08
2610016A17	NR_045347	uc008hbl.210016A17 gene (2610016A17Rik), loricrin	chr19	25671133
Tesc	4;GQ85626(NM_021344;uc008zgd.1	nusculus tescalcin (Tesc), protein	chr5	;6032;1180;
C1qc	NM_007574;NM_007574;uc008viq.1	component 1, q subcomponent (C1qc)	chr4	1.37E+08
Gm14005	NR_028590;NR_028590;uc012cdr.1	lus predicted gene 14005 (Gm14005)	chr2	128316299
C4b	0;BC039141;NM_009780;uc008cdl.2	nt component 4B (Chido) (C4b)	chr17	34728380
Ptchd1	NM_00109371;NM_00109371;uc009urw.1	tched domain containing protein 1 (Ptchd1)	chrX	1.56E+08
H2-Q5	NR_051981	uc008chn.2itibility 2, Q region locus 5 (H2-Q5), non-polyomorphic	chr17	35394098
Csrnp1	1658;NM_111153287;sbu.1;uc009ser.1	le-serine-rich nuclear protein 1 (Csrnp1)	chr9	1.2E+08
Nfatc1	6791;NM_16791;NM_16791;uc012div.1	ivated T cells, cytoplasmic, calcineurin-dependent nuclear factor of activated T cells	chr18	;7434;8060;
Gm19461	NR_037984	uc007cpw.2nted gene, 19461 (Gm19461), non-coding RNA	chr1	1.33E+08
Mettl7b	NM_027853;NM_027853;uc007hpd.1	ethyltransferase like 7B (Mettl7b)	chr10	1.29E+08
Bach2os	4923;NR_026843;uc008seu.1;uc009hol.2	ology 2, opposite strand (Bach2os), loricrin	chr4	;1201;3255;
Cpa3	NM_007753;NM_007753;uc008osp.2	boxypeptidase A3, mast cell chymase (Cpa3)	chr3	20215615
Cdr2l	NM_00108091;NM_00108091;uc007mhi.1	degeneration-related protein 2 (Cdr2l)	chr11	1.15E+08
Slc35c1	15832;NM_15832;NM_15832;uc009kyb.1	ulate carrier family 35, member 1 (Slc35c1)	chr2	92452764
Slc15a3	123044;AK1123044;NM_023044;gra.2;uc009car.1	carrier family 15, member 3 (Slc15a3)	chr19	10842543
Rhbdl2	3;BC115495;NM_183163;uc008upx.1	oid, veinlet-like 2 (Drosophila) (Rhbdl2)	chr4	;7874;1238;
Prelp	NM_054077;NM_054077;uc007crc.3	ginine-rich end leucine-rich repeat protein (Prelp)	chr1	1.34E+08
Selplg	3874;AK0809;NM_009153;yyt.2;uc009tin.1	tin, platelet (p-selectin) ligand (Selplg)	chr5	8535;1138;
Atp1b1	NM_009721;NM_009721;uc007dip.2	/K ⁺ transporting, beta 1 protein (Atp1b1)	chr1	1.64E+08
Kcnp1	01190886;NM_00119071;ikp.2;uc009kv.1	v channel-interacting protein 1 (Kcnp1)	chr11	33629340
1810011H11	NM_00116361;NM_00116361;uc007szh.1	DNA 1810011H11 gene (1810011H11Rik)	chr14	32785962
BC024571	BC024571	uc008kbg.1n alpha 6, mRNA (cDNA clone IMAGE:100000000)	chr2	71856763
Serpina3g	1065;NM_001009251;rs.1;uc007pep.1	peptidase inhibitor, clade A, member 3 (Serpina3g)	chr12	;6241;1042;
AK085201	AK085201	uc008iqj.1ength enriched library, clone:D530008	chr2	25141796
Abca12	75210;AK075210;NM_175210;jo.2;uc011set.1	ette, sub-family A (ABC1) (Abca12)	chr1	;0012;7136;
Slc11a1	NM_013612;NM_013612;uc007bly.2	-coupled divalent metal ion transporter 1 (Slc11a1)	chr1	74375202
Mab21l3	NM_172295;NM_172295;uc008qrk.2	ab-21-like 3 (C. elegans) (Mab21l3)	chr3	1.02E+08
Ces1b	NM_00108131;NM_00108131;uc009muk.1	s carboxylesterase 1B (Ces1b)	chr8	93056726
Cyp2d26	NM_029562;NM_029562;uc007wzn.1	, family 2, subfamily d, member 26 (Cyp2d26)	chr15	82790106
AK041310	AK041310	uc008rgq.1ength enriched library, clone:A530098	chr3	1.27E+08
D130058E05	AK036422	uc007bzc.1-Protein D130058E05Rik; Flags: Fragr	chr1	89930233
Prodh2	1815;NM_001019546;fhr.1;uc009de.1	dehydrogenase (oxidase) family 2, member 2 (Prodh2)	chr7	;9766;3049;
Bex6	116;NM_001010335;yyk.1;uc033s	s brain expressed gene 6 (Bex6), mRNA	chr16	;9799;3218;
AK080816	AK080816	uc007fpc.1ength enriched library, clone:U080816	chr10	73099341
BC057675	BC057675	uc033gmj.1;uc020016E24 product:unclassifiable, full length	chr13	;4228;6821;
Itgb2	108404;BC1108404;NM_008404;fvw.1;uc01cul	culus integrin beta 2 (Itgb2)	chr10	;1931;7753;
Mfsd6	NM_178081;178081;NM_178081;uc007aym.1	ilitator superfamily domain containing protein 6 (Mfsd6)	chr1	;52675622;
Rrad	NM_019662;NM_019662;uc009naz.1	related associated with diazepam (Rrad)	chr8	1.05E+08

Tnfrsf1	71456;NM_001271456	7ip.3;uc00s TNFAIP3 interacting pro	57783	chr11	.6795;54910
Irf4	1319;NM_001013674	pyz.1;uc00s interferon regulatory facto	16364	chr13	30749257
Rgs1	1306;NM_001015817	cxk.1;uc00s ulator of G-protein signali	50778	chr1	1.44E+08
Padi2	3685;NM_001008813	vnj.1;uc00s idyl arginine deiminase, type II (Padi2	16190	chr4	14158;14090
IL4ra	1001008;NM_001008710	uc009jqb.1;interleukin 4 receptor, alpl	16190	chr7	1.26E+08
Uchl1	11670;AK1011670	xpf.2;uc00s in carboxy-terminal hydrolase L1 (Uchl1)	16190	chr5	16892;66670
Nfya	100869;NM_001008690	uc008cqv.1;olypeptide gene enhance	18037	chr17	45555715
AK017306	AK017306	uc007ecv.1;length enriched library, clone:2900001	18037	chr1	1.92E+08
Pilra	153510;AK0153510	aeb.2;uc00s hnuoglobin-like type 2 rec	231805	chr5	1.38E+08
Stat4	7;AK037598;NM_011487	uc007axw.1;ducer and activator of transcription 4	18037	chr1	18243;51980
Ccr1	3666;NM_001009912	sgy.2;uc03s mokine (C-C motif) recept	12768	chr9	13423;12390
Rhob	100748;NM_001007483	uc007mzp.1;homolog gene family, mem	11852	chr12	8497758
C1qtnf3	888;NM_00888;NM_001008882	uc00s tumor necrosis factor rela	81799	chr15	12356;10950
Pf4	101993;NM_019932	uc008ybi.2;culus platelet factor 4 (Pf4)	56744	chr5	90772434
6430562O15Rik	NR_015515	uc007rpp.230562O15 gene (6430562O15Rik), lor	56744	chr13	99410835
C3ar1	109779;CCDS109779	siuo.1;uc00s ment component 3a rece	12267	chr6	17139;12280
Clec4d	819;NM_00819;NM_001008192	uc00s e lectin domain family 4, member d	12267	chr6	1.23E+08
Meox1	1010791;NM_010791	uc007lpx.1;mesenchyme homeobox 1	17285	chr11	1.02E+08
Slc40a1	1987;FJ2074;NM_016917	awv.1;uc01s 40 (iron-regulated transp	53945	chr1	145921155;
Speer4c	10012815;NM_00102815	uc008wmt.2;associated glutamate (E)-	1.01E+08	chr5	15709504
Alox5ap	100966;NM_009663	uc009app.1e 5-lipoxygenase activatin	11690	chr5	1.49E+08
Creb3	1013497;NM_013497	uc008sqg.1;ponsive element binding |	12913	chr4	43562633
Il1b	1;AK225003;NM_008361	uc008mht.1;ulus interleukin 1 beta (Il1b), mRNA	12913	chr2	1.29E+08
Fam43b	10010816;NM_0010816	uc008vnx.2;sequence similarity 43, m	625638	chr4	1.38E+08
Pdlim1	1992;NM_001016861	hkl.2;uc00s Z and LIM domain 1 (elfin) (Pdlim1), r	625638	chr19	17291;40220
Sh3gl3	100127795;NM_001027795	uc029wmn.2;ilus SH3-domain GRB2-like	20408	chr7	82259907
Srgn	1011157;NM_011157	uc007fhi.1;nusculus serglycin (Srgn), |	19073	chr10	62494427
Isg15	101578;NM_015783	uc012dri.1;G15 ubiquitin-like modifi	1E+08	chr4	1.56E+08
Thbs1	1011580;M811580	18lrq.1;uc00s ilus thrombospondin 1 (Thbs1), mRNA	1E+08	chr2	1.18E+08
Slc16a5	134;BC0539;NM_0010809	uc007mhp.1;(monocarboxylic acid trar	217316	chr11	115462472
Fcgr1	180;NM_0110181	qmr.1;uc00s e receptor, IgG, high affinity I (Fcgr1), r	217316	chr3	96282908
Lilrb4	1170368;NM_0113532	uc007fas.1;obulin-like receptor, subfamily B, me	217316	chr10	10974;51490
Bik	107546;BC0107546	xbe.1;uc00s us BCL2-interacting killer (Bik), mRNA	217316	chr15	16861;83520
Nr1h4	109108;NM_009108	gsh.2;uc00s eceptor subfamily 1, group H, membe	217316	chr10	17409;89450
Baiap2l1	102583;NM_025833	uc009alq.1;-associated protein 2-like	66898	chr5	1.44E+08
Rbp1	101125;NM_011254	uc009rdj.1;nol binding protein 1, cell	19659	chr9	98422960
Cgref1	770;NM_00770;NM_00100770	vwo.1;uc01s owth regulator with EF hand domain	19659	chr5	30933142
Kcna6	1;CCDS2055;NM_013568	uc009dvd.2;d channel, shaker-related	16494	chr6	18328;12670
Ptx3	100898;NM_008987	uc008pla.1;s pentraxin related gene |	19288	chr3	66219886
Crym	116669;AK1016669	jml.1;uc00s sculus crystallin, mu (Crym), mRNA	19288	chr7	17137;12010
Mrgprb2	1303;NM_0117553	19hat.2;uc03s s-related GPR, member B2 (Mrgprb2)	19288	chr7	11958;48550
Ctgf	1010217;NM_010217	uc011xbr.1;nnective tissue growth fa	14219	chr10	24595441
Fdx1l	10010398;NM_0010398	uc009okb.1;ulus ferredoxin 1-like (Fdx	68165	chr9	21066939
Tpsab1	31187;NR_031187	anf.1;uc00s ulus tryptase alpha/beta 1 (Tpsab1)	68165	chr17	25343244
Tubb3	102327;NM_023275	uc009nvt.1;s tubulin, beta 3 class III (T	22152	chr8	1.23E+08
Rgs16	101126;NM_011267	uc007dae.2;lator of G-protein signalin	19734	chr1	1.54E+08
Cbr3	117304;NM_017304	uc007zsz.2;us carbonyl reductase 3 (C	109857	chr16	93683218

Pmm1	U040;NM_001282	musculus phosphomannomutase 1 (Pmm1), mRNA	29858	chr15	5553;8195
Madcam1	U013591;S8NM_013591	musculus addressin cell adhesion molecule 1 (Madcam1), mRNA	79664573	chr10	79664573
Trem14	U172623;NM_004895	musculus receptor expressed on myeloid cells 14 (Trem14), mRNA	224840	chr17	48264294
A930001C045990;AK048995;BC084895	U48995;BC084895	musculus cDNA A930001C03 gene (A930001C03), mRNA	34446812	chr19	34446812
Cystm1	U17;NM_001001081	musculus transmembrane module containing 1 (Cystm1), mRNA	66060	chr18	36348623
Dpep2	U196;AK171	musculus dipeptidase 2 (Dpep2), mRNA	106E+08	chr8	1.06E+08
Cybb	U07807;AK007807	musculus chromosome b-245, beta polypeptide (Cybb), mRNA	5253;9464	chrX	5253;9464
Ly86	U01074;NM_01074	musculus lymphocyte antigen 86 (Ly86), mRNA	17084	chr13	37345344
4930430D2061;NM_001010348	U010348	musculus DNA 4930430D24 gene (4930430D24), mRNA	8346;3803	chrX	8346;3803
Ceacam1	U39187;NM_186;NM_004009	musculus antigen-related cell adhesion molecule 1 (Ceacam1), mRNA	1701;2547	chr7	1701;2547
Nfkb2	U134081;NM_001177	musculus light polypeptide gene enhancer in B-cells 2 (Nfkb2), mRNA	4799;4630	chr19	4799;4630
Hid1	U861;NM_101754	musculus HID1 domain containing (Hid1), mRNA	1.15E+08	chr11	1.15E+08
Phlda1	U9344;CCDS100934	musculus phalloidin-binding domain-like domain, family A, member 1 (Phlda1), mRNA	6404;1115	chr10	6404;1115
Ccdc109b	U25779;AK102577	musculus coil domain containing 109 (Ccdc109b), mRNA	66815	chr3	1.3E+08
Slamf7	U154;NM_101445	musculus SLAM family member 7 (Slamf7), mRNA	6228;1716	chr1	6228;1716
Gale	U78389;AK007838	musculus galactose-4-epimerase, UCE (Gale), mRNA	74246	chr4	3729;1359
Slc22a4	U595;NM_00101968	musculus organic cation transporter 22 (Slc22a4), mRNA	30805	chr11	53983125
Gsg1	U010352;NM_010352	musculus germ cell-specific protein 1 (Gsg1), mRNA	14840	chr6	1.35E+08
Il34	U0;NM_029135	musculus interleukin 34 (Il34), mRNA	76527	chr8	1.11E+08
Smim5	U414;NM_101832	musculus integral membrane protein 5 (Smim5), mRNA	66528	chr11	1.16E+08
Kcnk6	U1033525;BCU0010335	musculus potassium channel, subfamily A, member 6 (Kcnk6), mRNA	52150	chr7	29221927
Ptprn	U00898;NM_00898	musculus protein tyrosine phosphatase, receptor type C, member 1 (Ptprn), mRNA	19275	chr1	5533;7524
2900026A02	U17288;NM_17288	musculus DNA 2900026A02 gene (2900026A02), mRNA	243219	chr5	1.13E+08
Prkca	U011101;NM_011101	musculus protein kinase C, alpha (Prkca), mRNA	18750	chr11	1.08E+08
Sirpb1b	U0011734;NM_0011734	musculus regulatory protein beta 1B (Sirpb1b), mRNA	15495753	chr3	15495753
Lgals3	U3;NM_010145	musculus galactose binding protein 3 (Lgals3), mRNA	16854	chr14	3973;4737
Apela	NR_040692	musculus early endogenous ligand (Apela), loricrin (Apela), loricrin (Apela), mRNA	65028416	chr8	65028416
Tmem71	U17251;NM_17251	musculus transmembrane protein 71 (Tmem71), mRNA	213068	chr15	66526211
Tor3a	U151390;NM_023141	musculus TOR signaling pathway, member A (Tor3a), mRNA	30935	chr1	5326;1566
Cd44	U00103915039150;NM_001039150	musculus CD44 antigen (Cd44), mRNA	12505	chr2	1141;1028
Vwde	U0010137;NM_0010137	musculus von Willebrand factor D and EGF repeats (Vwde), mRNA	232585	chr6	13185610
Btg2	U00757;NM_00757	musculus location gene 2, anti-proliferative (Btg2), mRNA	12227	chr1	1.34E+08
Haao	U02532;NM_02532	musculus 3,4-dihydroxyanthranilate 3,4-dioxygenase (Haao), mRNA	107766	chr17	1353;8383
Slc16a10	U114332;NM_011433	musculus monocarboxylic acid transporter 16 (Slc16a10), mRNA	72472	chr10	3534;4007
Myc	U010849;NM_0011773	musculus myelocytomatosis oncogene (Myc), mRNA	17869	chr15	7421;6198
Krt80	U811;NM_00102877	musculus keratin 80 (Krt80), mRNA	74127	chr15	101356933
Cebpd	U00767;NM_00767	musculus cancer binding protein (C/EBP), delta (Cebpd), mRNA	15887285	chr16	15887285
Ctsh	U07801;AK100780	musculus cathepsin H (Ctsh), mRNA	13036	chr9	90054266
AK028711	AK028711	musculus tyk1 gene enriched library, clone:4732441L2 (AK028711), mRNA	1.06E+08	chr4	1.06E+08
Zfp389	NR_026798	musculus finger protein 389 (Zfp389), non-coding RNA	21504315	chr13	21504315
Cfp	U00882;NM_00882	musculus complement factor properdin (Cfp), mRNA	18636	chrX	20925534
Tlr2	U11905;CCDS101190	musculus toll-like receptor 2 (Tlr2), mRNA	6419;8383	chr3	6419;8383
Slc10a3-ub5	U110;NM_00127827	musculus Slc10a3-Ubl4 readthrough (Slc10a3-ub5), mRNA	7446;7435	chrX	7446;7435
Ntn5	U0012896;NM_0012896	musculus netrin 5 (Ntn5), mRNA	243967	chr7	45684021
Relb	U39799;NM_009046	musculus reovirus-induced endothelial cell death-inducing factor (Relb), mRNA	19698	chr7	19606221
Sowahb	U17527;NM_17527	musculus kyrim repeat domain family 1 (Sowahb), mRNA	78088	chr5	93041122
Rhbdf2	U00116768167680;NM_001167680	musculus rhomboid 5 homolog 2 (Rhbdf2), mRNA	217344	chr11	3252;1165

B4galt5	NM_019835	NM_019835uc008nzm.1	beta 1,4-galactosyltransfe	56336	chr2	1.67E+08	
Gp49a	3C065784;	ANM_008147uc007fan.1;	lus glycoprotein 49 A (Gp	14727	chr10	10678;51481	
Zfp365	NM_178679	NM_178679uc007fmb.1	zinc finger protein 365 (Z	216049	chr10	16104;67891	
Coro6	NM_139129	NM_139129uc007kgq.1	nusculus Coro6 mRNA for coronin6/c		chr11	177463910;	
Nudt18	1446;	NM_153131uc011uok.1;	uc011iphosphate linked moiety	213484	chr14	170577846	
Nes	NM_016701	NM_016701uc008ptl.1	musculus nestin (Nes), m	18008	chr3	187971092	
6030419C1	1614;	NM_176921pwz.1;	uc000DNA 6030419C18 gene (6	319477	chr9	19607;58481	
Pdgfb	111057;	AK011057mva.1;	uc000rived growth factor, B po	18591	chr15	12390;79991	
Wnt10b	718;	U61971NM_011711uc007xnu.2;	elated MMTV integration site 10b (W		chr15	198771751	
Sntb1	NM_016667	NM_016667uc007vsk.1	lus syntrophin, basic 1 (Sn	20649	chr15	155639153	
Agpat9	5;	AK13841(NM_172711uc008yii.1;	ol-3-phosphate O-acyltra	231510	chr5	16363;10081	
Msr1	195;	NM_00195;	NM_00mk.1;	uc012macrophage scavenger re	20288	chr8	13451;39581
Gadd45b	NM_008655	NM_008655uc007gfl.1	and DNA-damage-inducib	17873	chr10	180930090	
Prune2	NM_181348	NM_181348uc008gkx.2	ne homolog 2 (Drosophil	353211	chr19	17136767;	
Gpr126	N_0010022	N_0010022 uc007elk.1	otein-coupled receptor 1:	215798	chr10	14402584	
Gadd45a	NM_007836	NM_007836uc009cfc.1	and DNA-damage-inducib	13197	chr6	167035095	
Lgr5	5;	AK134981NM_010195uc007hbk.1;	at containing G protein coup		chr10	1115450313	
Tnfrsf23	124290;	AK112429(kpu.1;	uc000factor receptor superfamily, member 2		chr7	1.44E+08	
Cxcl16	123158;	AK012315(xxt.1;	uc000okine (C-X-C motif) liganc	66102	chr11	170455158;	
Gm1631	NR_037979	uc008kay.1	ted gene 1631 (Gm1631), long non-cc		chr2	171719416	
Pira6	1093;	NM_1093;	NM_1(exh.1;	uc000ilus paired-Ig-like recepto	18722	chr7	123884213;1
Wfdc17	N_0010819	N_0010819uc007kpq.1	our-disulfide core domair	1E+08	chr11	183704055	
Nlrp10	NM_175532	NM_175532uc009jdb.1	ily, pyrin domain contain	244202	chr7	1.09E+08	
Tinagl1	140827;	NM168333;	NMuyy.1;	uc020ointerstitial nephritis ant	94242	chr4	130165599
AA467197	97;	NM_00110010041naz.1;	uc000ssed sequence AA467197	433470	chr2	17914;12261	
Sgms2	NM_028945	NM_028945uc008rjq.2	phingomyelin synthase 2	74442	chr3	1.31E+08	
Hspb8	NM_030704	NM_030704uc008zez.1	is heat shock protein 8 (H	80888	chr5	1.16E+08	
Gm13889	N_0011450	N_0011450 uc012bxz.1	redicted gene 13889 (Gm	620695	chr2	193955809	
Samsn1	AK016072;	NM_023381uc007zrs.1;	domain and nuclear localization signa		chr16	12530;75851	
Lif	501;	NM_00501;	NM_00hut.1;	uc000ulus leukemia inhibitory f	16878	chr11	17567;42661
Slitrk4	1);	BC117891NM_178741uc009tio.1;	nd NTRK-like family, mem	245446	chrX	19443;64271	
2200002D0	NM_028175	NM_028175uc009gbj.2	DNA 2200002D01 gene (2	72275	chr7	129247520	
I730030J21	15782;	NR_045781uc007xsd.2;	uc020EN cDNA I730030J21 gene (I730030J		chr15	1.01E+08	
Gm19510	NR_045076	uc007vxy.1	d gene, 19510 (Gm19510), long non- <i>i</i>		chr15	159788416	
Gm3143	18347;	NR_038348uc029ulb.1;	uc020ulus predicted gene 3143 (Gm3143)		chr3	19622;34691	
Itgax	17200;	NM_021331ajyc.1;	uc000ulus integrin alpha X (Itgax), mRNA		chr7	1.28E+08	
Maff	NM_010755	NM_010755uc007wth.1	tic fibrosarcoma oncogen	17133	chr15	179347677	
Rtn1	6;	NM_00100100759envk.2;	uc000is musculus reticulon 1 (Rtn1)		chr12	172211748	
Casp4	1730;	AB480NM_007601obs.2;	uc000poptosis-related cysteine	12363	chr9	18859;53211	
AK150172	AK150172	uc008eqj.1	ched library, clone:G530001019 proc		chr18	137652752	
Tomt	11679;	NM_11679;	NM_0ipu.1;	uc000ansmembrane O-methyltr	791260	chr7	1.02E+08
Rnf183	8775;	NM_153501icp.1;	uc000ring finger protein 183 (R	76072	chr4	17986;62421	
Gm13498	NR_033595	uc012bvh.1	cted gene 13498 (Gm13498), non-coc		chr2	150909683	
Ly6a	117;	NM_00117;	NM_00uh.1;	uc007nphocyte antigen 6 compl	110454	chr15	174994876
Hcst	3C145545;	NM_011821uc012fhm.1	atopoietic cell signal trans	23900	chr7	17777;30411	
AK190779	AK190779	uc029ssm.1	ence:ENSEMBL:Mouse-Transcript-EN		chr15	177915046	
Lyz2	NM_017372	NM_017372uc007hda.1	usculus lysozyme 2 (Lyz2),	17105	chr10	1.17E+08	

Tnf	001278601278601;NM:uc008cgr.2	sculus tumor necrosis factor (Tnf)	chr17	35199366
Sh3bgr	VM_015825VM_015825uc008acu.1g	domain glutamic acid-ric	chr16	96200469
Emb	VM_010333VM_010333uc007rym.2	nusculus embigin (Emb), r	chr13	1.17E+08
Mvp	VM_080638VM_080638uc009jtw.2	lus major vault protein (M	chr7	1.27E+08
Ccl6	VM_009139VM_009139uc007kpm.1	emokine (C-C motif) ligan	chr11	83587885
Ccl9	VM_011338VM_011338uc007kpi.1	emokine (C-C motif) ligan	chr11	83572916
Gch1	VM_008102VM_008102uc007tth.1	s GTP cyclohydrolase 1 (C	chr14	47153894
Cda	VM_028176VM_028176uc008vkw.1	ilus cytidine deaminase (C	chr4	1.38E+08
Ltbp1	;NM_019916958;NM_(uc008doo.2	forming growth factor bet	chr17	15528;7517:
Plaur	.011113;X6:VM_011113fpr.1;uc01	ogen activator, urokinase receptor (PI	chr7	24462499
9430076C15	;AK035031;AK035031uc009bze.2	30076C15 gene (9430076C15Rik), lor	chr6	53287294
Serp1b10	160307;NM160307;NM160307uc01	ptidase inhibitor, clade B (ovalbumin)	chr1	1.08E+08
Tnfrsf12a	749;NM_00749;NM_00749uc008s	factor receptor superfar	chr17	23675444
Cd209b	7211;NM_CNM_001037fyz.2;uc009	sculus CD209b antigen (C	chr8	3917654
AK041109	AK041109 uc009sff.1	ength enriched library, clone:A53008:	chr9	1.23E+08
Gm9199	NR_027860 uc011zoh.1	icted gene 9199 (Gm9199), non-codi	chr14	73025602
Lyz1	VM_01359VM_01359uc007hdc.2	usculus lysozyme 1 (Lyz1),	chr10	1.17E+08
Fosl1	VM_010235VM_010235uc008gdc.1	ulus fos-like antigen 1 (Fo:	chr19	5447697
Traf1	.009421;AKVM_009421bjl.1;uc008	receptor-associated factr	chr2	13257;3494:
C5ar1	577;NM_00577;NM_00577uc008	plement component 5a r	chr7	16246742
Dner	1642;NM_152915bsx.1;uc007	notch-like EGF-related rei	chr1	13943;8436:
Bves	VM_024285VM_024285uc007ezz.1	od vessel epicardial subst:	chr10	45335761
Itgam	189521;AK1082960;NM1082960uc009	usculus integrin alpha M (	chr7	1.28E+08
Nt5e	1143;NM_011851qyj.2;uc008	us 5' nucleotidase, ecto (Nt5e), mRNA	chr9	88327608
Ccr5	0821;NM_CNM_009917joe.1;uc008	emokine (C-C motif) receptor 5 (Ccr5),	chr9	11542;1241:
Ntn4	VM_02132VM_02132uc007gux.2	nusculus netrin 4 (Ntn4), r	chr10	93641048
Ptprz1	VM_0010813VM_0010813uc012eim.1	hosphatase, receptor type Z, polypep	chr6	22875501
Bbc3	VM_133234VM_133234uc009fho.2	CL2 binding component :	chr7	16309582
Fabp3	VM_010174VM_010174uc008uzd.1	inding protein 3, muscle	chr4	1.3E+08
Sbk2	VM_0011463VM_0011463uc012exa.1	ng domain kinase family,	chr7	4957080
Cldn23	VM_027998VM_027998uc009llc.2	sculus claudin 23 (Cldn23	chr8	35824708
Slc17a9	83161;AK0NM_183161me.1;uc008	carrier family 17, membe	chr2	16417;1807:
C1ql2	VM_207235VM_207235uc007cjk.1	component 1, q subcomp	chr1	1.2E+08
Ltbp2	9;AK05298VM_013589uc011ypc.1	ing growth factor beta binding prote	chr12	17716;8478:
Nfe2l3	10903;AK0NM_010903bxl.1;uc008	factor, erythroid derived 2	chr6	51432669
Mocos	126779;BC0VM_026779egz.1;uc008	ybdenum cofactor sulfura	chr18	13690;2465:
Apobec1	159;NM_00159;NM_00159uc008	mRNA editing enzyme, ca	chr6	1.23E+08
Dusp8	VM_008748VM_008748uc009kmo.2	al specificity phosphatase	chr7	1.42E+08
Cd5l	VM_00969VM_00969uc008psa.2	ulus CD5 antigen-like (Cd	chr3	87357880
Nkx1-2	VM_009125VM_009125uc009kcc.1	ion factor related, locus 2	chr7	1.33E+08
Hao1	VM_010405VM_010405uc008mns.1	ydroxyacid oxidase 1, live	chr2	1.34E+08
Klrk1	83322;NM_001083322egh.2;uc008	lectin-like receptor subfar	chr6	1571;1296:
Pde6g	12065;DQ2VM_012065yja.1;uc007	erase 6G, cGMP-specific,	chr11	1.2E+08
Cd163	170395;NM170395;NM170395uc008	usculus CD163 antigen (C	chr6	1.24E+08
Cited4	VM_019565VM_019565uc008unl.1	tivator, with Glu/Asp-rich	chr4	1.21E+08
AK049264	AK049264 uc008zex.1	ngth enriched library, clone:93301151	chr5	1.16E+08
Cdh19	VM_0010813VM_0010813uc007chx.1	us cadherin 19, type 2 (Cd	chr1	1.11E+08

Tes	07176;BC0NM_207170	azi.1;uc009is testis derived transcript	21753	chr6	17065148
Rab32	NM_026405	NM_026405uc007ejg.1, member RAS oncogene f	67844	chr10	10545038
Lrrc14b	NM_00103301	NM_00103301uc007rfe.1e rich repeat containing 1	432779	chr13	74359581
Syt12	NM_134164	NM_134164uc008gad.1ilus synaptotagmin XII (Syt	171180	chr19	4445907
Serpinb2	NM_00117417	NM_001174170;NM_001174170uc011wqe.1eine) peptidase inhibitor, clade B, me		chr1	107511509
Cd83	NM_00128991	NM_001289915;NM_001289915uc007qgj.2musculus CD83 antigen (Cd83)		chr13	5111;4378
Sema3d	NM_028882	NM_028882uc008wly.2main (Ig), short basic dom	108151	chr5	12383165
Timd4	NM_178755	NM_178755uc007iox.1;lobulin and mucin domai	276891	chr11	46810798
Mybpc3	NM_008655	NM_008655uc033hoe.1in binding protein C, cardi	17868	chr2	91118143
Nupr1	NM_019738	NM_019738uc009jsd.1 protein transcription regu	56312	chr7	1.27E+08
Gm9758	NM_198666	NM_198666uc008wmm.; predicted gene 9758 (Gn	381714	chr5	14910123
Il1r2	NM_0011645	NM_0011645uc011wvi.1ulin-like domain containing receptor		chr1	1.66E+08
Spsb4	NM_145134	NM_145134rcy.1;uc009ceptor domain and SOCS	211949	chr9	14048;9694
Mmp24	NM_010808	NM_010808uc008nlj.1atrix metalloproteinase 24	17391	chr2	1.56E+08
Dusp4	NM_176933	NM_176933uc009lks.1al specificity phosphatase	319520	chr8	34807609
Cdkn1a	NM_001111099	NM_001111099;NM_001111099uc008bsg.2;-dependent kinase inhibit	12575	chr17	29093771;
Edn1	NM_010104	NM_010104uc007qfl.2sculus endothelin 1 (Edn1	13614	chr13	42301269
Fcna	NM_007999	NM_007999bsd.1;uc00nuscusculus ficolin A (Fcna), r	14133	chr2	25624666
Cadps	NM_001042	NM_001042061;NM_001042061uc007sfw.1a2+-dependent secretion activator (C		chr14	2562;1243
Scin	NM_00132	NM_00132;NM_00132uc001us musculus scinderin (Sci	20259	chr12	40059770
Insc	NM_173767	NM_1737679jik.2;uc00cuteable homolog (Droso	233752	chr7	12061;1147
Srxn1	NM_029688	NM_029688uc008new.2doxin 1 homolog (S. cerev	76650	chr2	1.52E+08
Cyr61	NM_010516	NM_010516uc008rqg.2cysteine rich protein 61 (	16007	chr3	1.46E+08
Prrg4	NM_178693	NM_178693lki.2;uc008i-carboxyglutamic acid) 4	228413	chr2	1.05E+08
Junb	NM_008416	NM_008416ghn.2;uc009is jun B proto-oncogene (Junb), mRNA		chr8	4483;8497
Cdkn2b	NM_00767	NM_00767uc008tok.2t kinase inhibitor 2B (p15,	12579	chr4	89306288
Slc7a11	NM_011993	NM_011993pdj.1;uc009nic amino acid transporte	26570	chr3	14935;5041
Adh7	NM_009626	NM_009626uc008rnd.2enase 7 (class IV), mu or s	11529	chr3	1.38E+08
Tfr2	NM_00509	NM_00509inc.1;sculus transferrin recepto	50765	chr5	137570804
Tcte3	NM_198104	NM_198104uc029tah.1mplex-associated testis expressed 3 (		chr17	14964188
Klhl30	NM_027551	NM_027551uc007cai.1;culus kelch-like 30 (Klhl30	70788	chr1	91351072
Wnt11	NM_028579	NM_0285792;NM_0285792uc009ess-related MMTV integra	22411	chr7	18844;9883
Myoz2	NM_021503	NM_021503rff.2;uc008sculus myozenin 2 (Myoz2), mRNA		chr3	14042;1230
Gstm3	NM_010355	NM_010355uc008qvx.2athione S-transferase, mu	14864	chr3	1.08E+08
A330050F15	NM_0011451	NM_0011451uc008dkx.2DNA A330050F15 gene (A	320722	chr17	69439325
Pparg	NM_127330	NM_127330;NM_127330uc03ene proliferator activated r	19016	chr6	11220;1154
Ms4a8a	NM_022430	NM_022430grp.1;uc009ing 4-domains, subfamily A, member		chr19	15570;1106
Ccl7	NM_013654	NM_013654uc007kmq.2emokine (C-C motif) ligan	20306	chr11	82045711
Popdc3	NM_024286	NM_024286ezy.1;uc011peye domain containing 3	78977	chr10	45289304
Clic5	NM_172621	NM_172621cpw.1;uc00loride intracellular channe	224796	chr17	18571;4423
Tmod1	NM_021883	NM_021883stf.1;uc008ilus tropomodulin 1 (Tmod1), mRNA		chr4	19221;4607
Fam26d	NM_0010811	NM_0010811uc007eup.1sequence similarity 26, m	270711	chr10	34038783
Trib3	NM_175093	NM_175093uc008nff.1)bles homolog 3 (Drosoph	228775	chr2	1.52E+08
Clca2	NM_030601	NM_030601uc008rqa.2de channel calcium activa	80797	chr3	1.45E+08
Mmp10	NM_019471	NM_019471uc009ocq.2atrix metalloproteinase 10	17384	chr9	7502341
Mybphl	NM_026831	NM_026831uc008qyt.1osin binding protein H-lik	68753	chr3	1.08E+08
Arid5a	NM_145996	NM_145996uc011wjg.1ch interactive domain 5A (	214855	chr1	36307732

Hist1h3c	NM_175653;NM_175653;uc007pur.1	histone cluster 1, H3c (Hist1h3c)	15077	chr13	23745041
Lrp8	C127061;AM_0010809	lac.2;uc008in receptor-related protein 8 (Lrp8)	16975	chr4	107830964
Cxcl1	NM_008176;NM_008176;uc008ybl.2	mokine (C-X-C motif) ligand 1 (Cxcl1)	14825	chr5	90891244
BC096410	BC096410	uc007kye.1;culus cDNA clone IMAGE:1548556		chr11	94122816
Slc7a3	U07593;NM_001007515	tw.1;uc005onic amino acid transporter 7A3 (Slc7a3)	11989	chrX	1.01E+08
Gm5082	U00114587;145878;NM_0010033glh.1	ulus predicted gene 5082 (Gm5082)		chr13	;41650761;
Cox6a2	NM_009943;NM_009943;uc009jyi.1	c oxidase subunit VIa polypeptide 2 (Cox6a2)	12862	chr7	1.28E+08
H2-M2	U08204;BC1_001008204	cmz.1;uc000mpatibility 2, M region locus (H2-M2)	14990	chr17	;1225;3748;
Cxcl2	U09140;AK1_001009140	bn.1;uc008mokine (C-X-C motif) ligand 2 (Cxcl2)		chr5	90903898
Ier3	NM_133662;NM_133662;uc008cio.1	mediate early response gene 3 (Ier3)	15937	chr17	35821712
Il1rn	NM_0011159;NM_0011159;uc008io.2	interleukin 1 receptor antagonist 1 (Il1rn)	16181	chr2	;24345370;
Inpp5j	U9;AK165718;NM_172435	uc029rkf.1; polyphosphate 5-phosphatase 2B (Inpp5j)	170835	chr11	;3498949;3;
A830018L11	U23;NM_00100173;NM_0010007ahx.2	N cDNA A830018L16 gene (A830018L11)	320492	chr1	.4104;1159;
Rasl10a	NM_145216;NM_145216;uc007hvs.1	-like, family 10, member 10 (Rasl10a)	75668	chr11	5058127
A1848285	U0012070;U0012070	uc029sua.1;essed sequence A1848285	435145	chr15	82206951
Gsta1	NM_008181;NM_008181;uc009qtz.1	ione S-transferase, alpha class 1 (Gsta1)	14857	chr9	78230668
Reg3b	NM_011036;NM_011036;uc009cju.1	nerating islet-derived 3 beta (Reg3b)	18489	chr6	78370884
Atf3	NM_007498;NM_007498;uc011wyt.1	tivating transcription factor 3 (Atf3)	11910	chr1	1.91E+08
Aldh1l2	U413;NM_100115354	gkh.2;uc003hydrogenase 1 family, member L2 (Aldh1l2)		chr10	;4741;8348;
Ankrd1	NM_013468;NM_013468;uc008hhh.1	repeat domain 1 (cardiac repressin) (Ankrd1)	107765	chr19	36111964
D030025P21	NR_028577	uc011ype.130025P21 gene (D030025P21Rik), long isoform		chr12	84875801
Hcrtr2	U98962;AY3_00198962	qs.1;uc005ocretin (orexin) receptor 2 (Hcrtr2)	387285	chr9	;5879;7622;
Chac1	NM_026929;NM_026929;uc008lts.3	+, cation transport regulator 1 (Chac1)	69065	chr2	1.19E+08
Ccl2	NM_011333;NM_011333;uc007kmp.1	emokine (C-C motif) ligand 2 (Ccl2)	20296	chr11	82035576
Neur13	U53408;AK0_00153408	aps.1;uc000l homolog 3 homolog (Drosophila) (Neur13)	214854	chr1	;8956;3626;
AK084486	AK084486	uc007civ.1;e cDNA, RIKEN full-length enriched library clone		chr1	1.2E+08
Cxcl10	U967;NM_001021274	ya.2;uc000mokine (C-X-C motif) ligand 10 (Cxcl10)	15945	chr5	;6806;9234;
Fgf21	NM_020013;NM_020013;uc009gwe.1	ibroblast growth factor 21 (Fgf21)	56636	chr7	45613889
Adm2	NM_182928;NM_182928;uc007xgb.2	ilus adrenomedullin 2 (Adrenomedullin 2) (Adm2)	223780	chr15	89322898
1500009C09	U7697;NR_037698	c007wyp.2;uc011N cDNA 1500009C09 gene (1500009C09)		chr15	;6022;8225;
Cldn4	NM_009903;NM_009903;uc008zxd.3	usculus claudin 4 (Cldn4)	12740	chr5	1.35E+08
Sprr1a	U7559;NM_001009264	qed.1;uc033hall proline-rich protein 1A (Sprr1a), rat		chr3	;4257;9248;
Hrk	U9236;NM_001007543	zgg.1;uc03eracting protein (contains proline-rich domain) (Hrk)	12123	chr5	;9782;1181;

$FC \geq 0.59$) in the *Arid4b* SCKO testes at P1.5.

end	djusted P-v	FDR	log2FC	iroupe Log2	Group Log2	FC (MU/CL)
93012269	0.01525	0.14806	-4.35076	3.002402	6.634247	0.049010555
18616501	0.012759	0.14304	-3.78999	0.713146	3.93468	0.072293512
72587550	0.008338	0.1286	-3.51209	4.228549	7.159663	0.087650828
75474340	0.008944	0.13085	-3.47664	6.257947	9.205042	0.08983098
45179597	0.002738	0.10008	-3.26614	0.396429	3.395182	0.103942541
13986867	0.016436	0.15187	-3.26614	0.655354	3.262782	0.103942541
89622986	0.010331	0.13549	-3.14231	5.094583	8.076403	0.113258474
41220403	0.010681	0.13694	-2.98626	8.419046	11.37097	0.126196304
78422185	0.021056	0.16698	-2.95433	5.505549	7.950582	0.129020253
17791930	0.000667	0.079206	-2.89552	0	3.173522	0.134388733
68872163	0.00787	0.1261	-2.89548	6.763314	9.189878	0.134392413
1.2E+08	0.004461	0.10974	-2.88577	0	2.584128	0.135299689
3118;6411	0.000661	0.079206	-2.87867	0	2.858163	0.135967477
1.15E+08	0.000477	0.070995	-2.8611	0	3.134778	0.137632988
1.15E+08	0.006357	0.11846	-2.80897	4.895512	7.713331	0.142697741
1.43E+08	0.001822	0.091058	-2.80822	0	2.485882	0.14277148
1595;6501	0.03114	0.1927	-2.80822	0.655354	2.887442	0.14277148
63845176	0.003953	0.10733	-2.78381	0.396429	2.790484	0.145207429
1.08E+08	0.002899	0.10081	-2.70506	3.155349	5.513181	0.1533543
9058;7267	0.022993	0.17202	-2.66864	6.204321	8.575887	0.157274528
80695557	0.008946	0.13085	-2.5736	4.41311	6.873413	0.167983992
9554;2078	4E-05	0.026776	-2.56708	0	2.452489	0.168745043
1.65E+08	0.000182	0.053538	-2.56708	0	2.543534	0.168745043
6908;5653	0.003015	0.10081	-2.56708	0	2.474663	0.168745043
1.55E+08	0.014698	0.14782	-2.56708	0	2.188738	0.168745043
21795185	0.003203	0.10284	-2.55421	1.229381	3.550588	0.170257108
3221015	0.01506	0.14785	-2.5369	0.396429	2.304644	0.172312782
32123702	0.016209	0.15131	-2.5369	0.396429	2.395441	0.172312782
10009130	0.0203	0.16526	-2.5369	0.431614	2.305642	0.172312782
107668968	0.002586	0.098152	-2.49776	5.529974	7.79116	0.177051154
46754314	0.005097	0.11285	-2.46339	1.591407	3.715001	0.181320346
1.12E+08	0.026538	0.1812	-2.43265	4.838032	6.969161	0.185225196
30924181	0.004829	0.11123	-2.41538	2.996709	5.336699	0.187454935
10993250	0.036167	0.20588	-2.41401	1.159793	3.50485	0.187633366
54341777	0.006617	0.11969	-2.37358	7.295671	9.205325	0.192966193
53443576	0.033802	0.20023	-2.36805	7.252903	9.075501	0.193707467
37878944	0.0173	0.15431	-2.31797	8.611271	10.59502	0.200549039
14003533	0.00181	0.091058	-2.25078	0	2.285504	0.210110518
1.82E+08	0.009234	0.1313	-2.25078	0.396429	2.340093	0.210110518
4679;5685	0.016454	0.15195	-2.25078	0.396429	2.193247	0.210110518
1.12E+08	0.019689	0.16334	-2.24147	2.802189	5.016828	0.21147108
8559;4529	0.01801	0.15697	-2.23645	3.665594	6.11638	0.212207649
40466815	0.01894	0.16013	-2.2359	1.605223	3.493268	0.212288753
1184;1717	0.000193	0.054707	-2.231	0	2.082679	0.213010693

10920601	0.000482	0.070995	-2.231	0	2.192617	0.213010693
1.2E+08	0.007007	0.12231	-2.231	0	1.87327	0.213010693
65223701	0.012437	0.14213	-2.231	0	2.070378	0.213010693
.3651;2521	0.015567	0.14886	-2.231	0.401338	2.57402	0.213010693
1.2E+08	0.018396	0.15788	-2.231	0.396429	2.283057	0.213010693
89337007	0.021819	0.16927	-2.21372	7.509583	9.341323	0.215577826
8245;2699	0.000106	0.043749	-2.20242	0	2.081123	0.217273221
99418895	0.000555	0.073734	-2.20242	0	2.19315	0.217273221
1.35E+08	0.005833	0.11645	-2.20242	0	1.868444	0.217273221
1.44E+08	0.017013	0.15386	-2.20242	0.401338	2.081754	0.217273221
.0080;1210	0.02502	0.17768	-2.19826	2.496831	4.391036	0.217900162
18152408	0.001909	0.091058	-2.1888	5.425662	7.509415	0.219334441
2994;1963	0.026298	0.18039	-2.18545	6.69357	8.466439	0.219843345
75747922	0.023434	0.17351	-2.1803	5.862042	7.603555	0.2206305
2777;7273	0.03201	0.19521	-2.16924	3.850563	5.653695	0.222327008
1.2E+08	0.036824	0.20735	-2.15973	5.545713	7.376741	0.223797645
1.2E+08	0.011316	0.13865	-2.15235	1.807082	3.708659	0.224946376
1.3E+08	0.012984	0.1441	-2.08462	1.012072	3.320707	0.235757632
45079289	0.033055	0.19883	-2.08087	10.14038	11.84542	0.236371184
99846345	0.014861	0.14785	-2.06625	3.248327	4.888919	0.238780019
1.01E+08	0.013108	0.14423	-2.06078	10.05508	11.99603	0.239686035
2403;3121	0.004317	0.10962	-2.04465	2.99853	4.820218	0.242380968
3623;3764	0.002838	0.10065	-2.02955	1.453121	3.254711	0.244931373
1.93E+08	0.001003	0.081742	-2.01574	8.713527	10.50221	0.247287429
1.31E+08	0.000283	0.065605	-1.99367	0	1.923653	0.251098556
23132986	0.022519	0.17073	-1.97247	7.338031	8.944031	0.254816102
;41105683;	0.037606	0.21001	-1.95278	2.302504	4.139575	0.258318168
1.08E+08	0.008819	0.13079	-1.95187	5.204478	7.151197	0.258481512
5469;4564	0.03496	0.2035	-1.94397	2.539702	4.847853	0.259900754
6351;7820	0.042138	0.22005	-1.93872	1.042348	2.974754	0.260846915
1.6E+08	0.043607	0.22347	-1.93676	4.242372	5.963343	0.261201672
.2328;1609	0.013799	0.14588	-1.91571	10.89673	12.63036	0.265040594
33147400	0.011784	0.14024	-1.90238	6.528665	8.231151	0.267502009
1.47E+08	0.007673	0.12553	-1.89465	4.648579	6.577916	0.26893922
1.19E+08	0.01287	0.14327	-1.87288	6.064782	8.063182	0.273028709
779;425870	0.039796	0.21464	-1.86703	0.237957	1.992864	0.274137837
7522;7975	0.013792	0.14588	-1.86269	1.927995	3.718034	0.2749627
2984;9092	0.019834	0.16396	-1.81243	5.617333	7.104528	0.284711311
1.08E+08	0.000133	0.05045	-1.80995	0	1.93481	0.285200924
1.64E+08	0.001404	0.087457	-1.80995	0	2.047763	0.285200924
1.4E+08	0.021269	0.16752	-1.80995	0.396429	1.93481	0.285200924
6281861	0.021269	0.16752	-1.80995	0.396429	1.93481	0.285200924
1.2E+08	0.022268	0.17019	-1.80995	0.401338	1.93481	0.285200924
.4442;1923	0.025275	0.17842	-1.80995	0.396429	2.047763	0.285200924
1.43E+08	0.030044	0.18991	-1.80995	0.431614	1.935736	0.285200924
1.05E+08	0.032665	0.19764	-1.80995	0.431614	2.047763	0.285200924
87392133	0.034834	0.20327	-1.79581	1.704255	3.189023	0.288010048

77051992	0.002027	0.09233	-1.79206	0	1.580014	0.288758627
5865;1234	0.002027	0.09233	-1.79206	0	1.580014	0.288758627
1.15E+08	0.002027	0.09233	-1.79206	0	1.580014	0.288758627
34907374	0.002027	0.09233	-1.79206	0	1.580014	0.288758627
34473892	0.00589	0.11645	-1.79206	0	1.726957	0.288758627
58832527	0.018398	0.15788	-1.79206	0	1.930398	0.288758627
63925453	0.026147	0.18023	-1.79206	0.396429	2.048762	0.288758627
;92359468;	0.00879	0.13079	-1.79013	5.791164	7.558021	0.289145022
87089928	0.043566	0.22344	-1.7786	4.232555	5.622678	0.291465363
60116669	0.001469	0.087831	-1.76626	0	1.576744	0.293970662
80517260	0.001469	0.087831	-1.76626	0	1.576744	0.293970662
1.07E+08	0.001691	0.091058	-1.76626	0	1.578073	0.293970662
78405657	0.004922	0.11201	-1.76626	0	1.723056	0.293970662
4604041	0.010499	0.13624	-1.76626	0	1.835083	0.293970662
;36644349;	0.031854	0.19474	-1.76146	7.489041	8.910298	0.294948774
1546;6587	0.009173	0.13115	-1.75798	5.843401	7.339407	0.295662434
44229617	0.010593	0.13633	-1.74337	2.235005	3.723011	0.298670621
;87805180;	0.033095	0.19884	-1.74166	1.591407	3.119827	0.299024985
1931;1135	0.038002	0.21082	-1.73983	3.547863	5.14475	0.299405192
7243;1152	0.024668	0.17704	-1.73648	5.365854	6.69044	0.300101816
80807648	0.039802	0.21464	-1.7065	12.62813	14.25198	0.3064028
1.03E+08	0.006682	0.11994	-1.67855	5.346725	7.04879	0.312396618
50596590	0.006769	0.12067	-1.66513	5.983385	7.33615	0.315316493
93001667	0.007767	0.12553	-1.652	2.764065	4.164586	0.318198587
81802613	0.005889	0.11645	-1.6497	2.331279	3.954968	0.318706563
28120864	0.009324	0.1313	-1.64536	3.408779	5.23439	0.319667256
7397869	0.001416	0.087457	-1.64409	0	1.53735	0.319948808
79662170	0.00029	0.065605	-1.63637	5.795526	7.484508	0.321664625
7350;9434	0.005786	0.11645	-1.63546	1.229381	2.774607	0.321867665
24597009	0.030598	0.19136	-1.63546	1.453121	2.832387	0.321867665
;9936;1421	0.037569	0.20992	-1.63546	0.832952	2.561976	0.321867665
1.23E+08	0.000939	0.080556	-1.63523	3.775301	5.563941	0.321919897
58675696	0.010209	0.13468	-1.63523	3.839233	5.386434	0.321919897
0754;2277	0.016283	0.15149	-1.63494	3.935702	5.269774	0.321984797
87472592	0.04343	0.22314	-1.62906	11.9597	13.18501	0.323299726
;0978;8536	0.003744	0.10537	-1.62229	6.08259	7.536871	0.324818556
78063622	0.043604	0.22347	-1.62222	6.875909	8.163529	0.324835571
7281;1749	0.023188	0.17257	-1.62006	10.07505	11.41558	0.325321341
75177332	0.040206	0.21567	-1.61893	1.051783	2.821984	0.325576083
73710451	0.007284	0.12439	-1.61311	2.843592	4.168921	0.326893744
58286902	0.042052	0.21992	-1.61311	2.96941	4.154114	0.326893744
13421949	0.020855	0.16625	-1.6042	1.229381	2.485882	0.328916936
1.04E+08	0.013155	0.14423	-1.60307	10.81607	12.16418	0.329175886
80058008	0.011286	0.13856	-1.58962	10.03816	11.42765	0.332258225
;0219;1268	0.004075	0.10822	-1.57826	4.815502	6.33209	0.334884676
86718283	0.007276	0.12439	-1.5761	7.09327	8.460314	0.335387674
7412480	0.003685	0.10503	-1.57198	5.14478	6.604324	0.336346788

5175;2591	0.019291	0.16134	-1.56736	7.651096	9.120418	0.337424636
38183951	0.027791	0.18396	-1.56652	2.15962	3.770096	0.337620645
1.4E+08	0.013282	0.1444	-1.56073	5.851773	7.538083	0.338980255
2787;1102	0.030753	0.19145	-1.55825	3.682173	5.032299	0.339563612
1.17E+08	0.005456	0.11563	-1.55586	1.807082	3.378486	0.340124638
1.14E+08	0.013736	0.14588	-1.55101	5.469996	6.881482	0.341270395
1.43E+08	0.008237	0.1283	-1.54629	6.292369	8.096108	0.342389532
1.17E+08	0.009773	0.13301	-1.52548	6.498005	7.899168	0.347364994
70212281	7.77E-05	0.037696	-1.52129	7.46642	9.009389	0.348373694
3817;1509	0.035237	0.20409	-1.51489	2.950544	4.476863	0.3499222
4882;3642	0.004403	0.10974	-1.51338	1.445056	2.745468	0.350289826
69888155	0.01338	0.14479	-1.51338	1.443686	2.633441	0.350289826
94812036	0.021965	0.16957	-1.51204	8.886312	10.49182	0.350615879
1.26E+08	0.007898	0.12631	-1.50908	9.26278	10.50481	0.351336038
98357795	0.007981	0.1267	-1.50561	6.820291	8.373868	0.352182338
64089201	0.03518	0.20409	-1.50372	11.40704	12.5951	0.352643668
1.2E+08	0.002266	0.096252	-1.49802	2.648933	4.000566	0.354040033
84011442	0.034392	0.20183	-1.49631	3.03105	4.781114	0.35445887
77893872	0.000107	0.043749	-1.48793	4.768244	6.237558	0.356523337
5682;1419	0.000162	0.053538	-1.48526	8.681271	10.19279	0.357183095
9907;1496	0.001321	0.086773	-1.48038	2.764065	4.287007	0.358393907
9257;1388	0.009924	0.13347	-1.47496	10.0484	11.34796	0.359743851
79628681	0.040458	0.21624	-1.47385	2.236261	3.492123	0.360019167
9334;1587	0.005935	0.11684	-1.46238	9.498815	10.77888	0.362893913
73632421	0.016134	0.15124	-1.46212	2.539634	3.71465	0.362958474
78420286	0.029816	0.18938	-1.46071	8.355409	9.733425	0.363314732
1.21E+08	0.024319	0.17599	-1.45981	5.692184	6.982986	0.363540268
0048;3506	0.030394	0.19094	-1.43891	2.38336	3.551472	0.368846365
1.65E+08	0.029396	0.18779	-1.43394	1.227747	3.352721	0.370118598
4772;1358	0.002626	0.098152	-1.43175	2.934188	4.648314	0.370680572
14063401	0.000215	0.054854	-1.42944	7.964728	9.419867	0.371275875
1.37E+08	0.034716	0.20291	-1.42672	9.486439	10.7206	0.371974512
45347580	0.010905	0.13733	-1.42371	8.681562	10.09588	0.372753742
1.22E+08	0.00163	0.090935	-1.4231	7.877429	9.332271	0.372909373
85389379	0.010851	0.13733	-1.41808	8.55506	9.978935	0.374211028
8841;6118	0.006652	0.11984	-1.41734	7.09304	8.404246	0.374402025
92902906	0.00497	0.11216	-1.41683	3.012073	4.646847	0.374535158
1.06E+08	0.000331	0.065605	-1.4151	1.883101	3.372578	0.374983109
1.59E+08	0.03832	0.21111	-1.39868	0.797767	2.474251	0.379276507
5351035	0.037659	0.21009	-1.39548	2.74036	4.35462	0.38011801
7032;9412	0.00961	0.1322	-1.38395	1.229381	2.685508	0.383168399
1.16E+08	0.012887	0.14332	-1.38395	1.453121	2.730517	0.383168399
83078225	0.028961	0.18693	-1.38253	2.150581	3.196786	0.383546497
9192;1004	0.002426	0.096556	-1.37122	9.767212	11.07019	0.386565422
29230530	0.029565	0.18844	-1.36761	2.849713	4.095789	0.387533047
8442496	0.010814	0.1373	-1.36324	4.333257	5.774753	0.388709198
23895730	0.044746	0.22642	-1.36307	1.012072	2.563982	0.38875483

1.29E+08	0.005852	0.11645	-1.36135	9.525969	10.68358	0.389219252
56388551	0.043425	0.22314	-1.35885	4.480859	5.467017	0.389891909
2938;2007	0.037608	0.21001	-1.35799	3.18014	4.330435	0.390124297
23645269	0.007947	0.12639	-1.35772	3.766044	5.085978	0.390199431
6863;8182	0.005531	0.11593	-1.35638	11.21551	12.45852	0.390562382
0063;9971	0.03083	0.19167	-1.34858	4.37819	5.481874	0.392679116
25593936	0.020192	0.16503	-1.34761	0.828043	2.618737	0.392942068
39760938	0.038367	0.21113	-1.34761	0.828043	2.395441	0.392942068
65185870	0.012272	0.14144	-1.34063	7.028922	8.296284	0.394847616
7745;3694	0.010541	0.13629	-1.33976	4.308297	5.496323	0.395086185
78814825	0.027186	0.18273	-1.33807	8.648531	9.706721	0.395550423
61000321	0.033538	0.19986	-1.33586	2.465263	3.897246	0.39615558
1.22E+08	0.013632	0.14572	-1.33233	10.04209	11.10018	0.397126149
74765142	0.00947	0.13132	-1.32258	2.14367	3.372398	0.399819892
102251843	0.011484	0.13915	-1.31977	9.561363	10.77096	0.400598222
34423137	0.022076	0.16974	-1.31823	8.38571	9.582051	0.401026693
5766;5885	0.01948	0.16236	-1.30983	8.072352	9.240116	0.403368182
4401;1226	0.003482	0.10464	-1.30933	8.332991	9.541357	0.403507024
7974;1105	0.004727	0.11036	-1.30524	7.325696	8.492553	0.404652547
99528165	0.021695	0.16861	-1.30425	5.978982	7.057179	0.404931027
84595457	0.003952	0.10733	-1.30008	2.030822	3.352721	0.406103506
27160516	0.030527	0.19125	-1.30008	1.930375	3.320809	0.406103506
98388097	0.014634	0.14782	-1.29974	8.702846	10.23379	0.406198352
1.29E+08	0.003242	0.10285	-1.29583	7.919536	9.345451	0.407302717
14073934	0.019495	0.16242	-1.28708	3.829819	4.882484	0.409780146
75796057	0.0003	0.065605	-1.28645	8.834882	10.13135	0.409959822
3203;7414	0.040357	0.21591	-1.27707	4.577207	5.678347	0.412632843
110381751	0.035519	0.20491	-1.27622	4.643532	5.850477	0.412876071
3407;3483	0.004723	0.11036	-1.2743	7.71069	8.913202	0.413427086
6127;2623	0.016304	0.15157	-1.2721	2.504127	3.967971	0.414055261
104230568	0.007532	0.12517	-1.27036	6.540288	7.68397	0.414557518
1.64E+08	0.005591	0.11644	-1.26524	3.988258	5.218205	0.416029073
1.31E+08	0.006807	0.12087	-1.25845	1.667426	3.055004	0.417993145
1.28E+08	0.024559	0.1766	-1.25845	1.667426	3.362672	0.417993145
1.05E+08	0.009169	0.13115	-1.25428	7.071154	8.486721	0.419203597
1.13E+08	0.002349	0.096556	-1.25295	9.331665	10.6127	0.419588134
28813165	0.044433	0.22518	-1.24972	4.909307	6.124498	0.420529051
59631660	0.039974	0.21503	-1.24895	9.15883	10.14178	0.420754519
8693;4398	0.033158	0.199	-1.24874	6.288465	7.237788	0.420815594
19496760	0.029608	0.18855	-1.24046	10.51764	11.60121	0.423237442
9938;1296	0.025273	0.17842	-1.23976	8.960751	10.03473	0.423441812
1.08E+08	0.008434	0.12898	-1.23961	1.883101	2.964563	0.423486876
0886;1674	0.002086	0.093854	-1.23855	9.718973	10.83674	0.423797906
32036931	0.0329	0.19842	-1.23489	4.129377	5.050367	0.424873588
41069074	0.016293	0.15152	-1.23488	2.728362	3.884145	0.42487654
1.53E+08	0.041067	0.21761	-1.2277	3.684922	4.87358	0.426998769
2707;6541	0.040267	0.21579	-1.22707	9.795453	10.9571	0.427183152

'9229;1197'	0.020224	0.16517	-1.22417	5.50871	6.768223	0.428042397
97033960	0.0118	0.14024	-1.22158	9.230676	10.25649	0.428811647
83588126	0.032312	0.19635	-1.21812	3.188537	4.370635	0.429841124
;10527564;	0.016391	0.15172	-1.21746	3.292926	4.331301	0.430037768
1.2E+08	0.026209	0.18024	-1.21575	6.057412	7.125585	0.43055036
1.56E+08	0.00142	0.087457	-1.21484	2.648933	3.816593	0.430819469
7;6990723;€	0.003532	0.10464	-1.21333	6.972198	8.244928	0.431270887
23560080	0.020947	0.16668	-1.20145	3.109933	4.272124	0.43483795
181720647	0.015046	0.14785	-1.19996	4.219782	5.509672	0.435287574
65393888	0.002616	0.098152	-1.19359	4.743541	5.989096	0.437212871
'4085;1723'	0.028126	0.18439	-1.18978	3.653676	4.848956	0.438368296
6860940	0.011192	0.1384	-1.1891	3.168536	4.355061	0.438576552
¡4112;4089'	0.009177	0.13115	-1.1888	3.258091	4.56649	0.438668774
126583236	0.03785	0.21062	-1.18661	9.536398	10.48102	0.43933385
1.07E+08	0.040647	0.21675	-1.1773	2.650841	3.672108	0.442177533
¡8695;5639!	0.011972	0.14071	-1.1766	13.36297	14.3581	0.442392431
¡0800;6644!	0.030451	0.19113	-1.17658	2.91895	3.970121	0.442399095
85518935	0.002429	0.096556	-1.17191	0	1.365394	0.443832941
8218839	0.003005	0.10081	-1.17191	0	1.367334	0.443832941
53326266	0.003005	0.10081	-1.17191	0	1.367334	0.443832941
72546279	0.003005	0.10081	-1.17191	0	1.367334	0.443832941
88506049	0.003005	0.10081	-1.17191	0	1.367334	0.443832941
24045949	0.003005	0.10081	-1.17191	0	1.367334	0.443832941
58792019	0.003005	0.10081	-1.17191	0	1.367334	0.443832941
66676497	0.011983	0.14071	-1.17191	0	1.510781	0.443832941
9071076	0.011983	0.14071	-1.17191	0	1.510781	0.443832941
5856142	0.02162	0.16855	-1.17191	0	1.589362	0.443832941
1.81E+08	0.039618	0.21453	-1.17075	4.170658	5.081012	0.444189275
67371502	0.030174	0.1903	-1.16807	4.275778	5.318506	0.445016317
79115099	0.002167	0.095407	-1.16715	7.071023	8.152163	0.445299475
1.19E+08	0.040143	0.21562	-1.16533	4.490397	5.410943	0.445863315
12507704	0.022273	0.17019	-1.16529	2.898435	4.169301	0.445876064
1.71E+08	0.008887	0.13085	-1.16501	4.107564	5.084333	0.445961774
75560330	0.004613	0.10974	-1.16445	8.951515	10.34287	0.446133034
¡8324;3424!	0.017061	0.15392	-1.16313	8.667089	9.728885	0.446543083
.9699;1002!	0.013081	0.14423	-1.16288	6.922473	7.85341	0.446621443
35121931	0.005468	0.11563	-1.15963	8.645648	9.737648	0.447626841
44125179	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
'1707;9607'	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
6478619	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
37267454	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
1.23E+08	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
1.22E+08	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
1.01E+08	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
50645838	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
¡8343;6754!	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
14621284	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061

98379108	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
61835180	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
98989281	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
18798510	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
18789414	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
1.1E+08	3.14E-08	4.38E-05	-1.15801	0	1.155984	0.448129061
'3511;1361'	0.00344	0.10464	-1.15801	0	1.368664	0.448129061
30717043	0.00344	0.10464	-1.15801	0	1.368664	0.448129061
35183016	0.014581	0.14768	-1.15801	0	1.515607	0.448129061
8611835	0.014581	0.14768	-1.15801	0	1.515607	0.448129061
!1808;7084:	0.022175	0.17002	-1.15592	9.906879	11.00044	0.448780482
!3966;1538:	0.022551	0.17076	-1.15373	7.386404	8.458714	0.449462044
1.53E+08	0.028724	0.18628	-1.15133	5.872588	7.183989	0.450209013
9725352	0.039526	0.21444	-1.1507	3.090756	4.478126	0.45040811
1.2E+08	0.005809	0.11645	-1.14998	7.121964	8.108278	0.450631148
;48445090;	0.016808	0.15336	-1.14968	8.798419	9.723105	0.450726072
28301785	0.009466	0.13132	-1.14432	2.41115	3.882668	0.452402947
1.13E+08	0.018418	0.15788	-1.14381	2.38336	3.577611	0.452562614
!7021;4942'	0.020521	0.16539	-1.14354	3.026509	4.042438	0.452648562
54554449	0.014121	0.14652	-1.14197	3.909536	4.876545	0.453139481
1.29E+08	0.021035	0.16694	-1.14122	10.2196	11.45799	0.453375632
!1977;9507!	0.040852	0.21725	-1.13928	2.612984	3.571266	0.453987262
'7019;8787'	0.003947	0.10733	-1.13803	0	0.989589	0.454380225
1.91E+08	0.009214	0.13125	-1.13776	10.63411	11.61793	0.454465994
!9158;3619!	0.000761	0.080556	-1.13382	5.502475	6.576697	0.455706256
!9914;8627!	0.001451	0.08778	-1.1337	8.256383	9.468115	0.455743916
132209546	0.010832	0.1373	-1.13186	6.556619	7.476298	0.456325478
46991714	0.027695	0.18389	-1.13154	1.967249	3.410856	0.456428484
69194658	0.03176	0.19455	-1.13144	7.790927	8.99088	0.456458995
12628488	0.043792	0.22387	-1.12459	1.930375	3.286852	0.458632671
!3012;1254'	0.008613	0.13015	-1.12176	8.969762	10.15093	0.45953374
!2483;4575!	0.021212	0.16752	-1.12083	4.802276	5.841529	0.459829693
80700425	0.000429	0.068927	-1.1192	6.179493	7.308335	0.460348276
98898540	0.030467	0.19118	-1.11546	11.26303	12.1277	0.461542596
48294292	0.041502	0.21852	-1.11019	8.472268	9.330065	0.463232744
62231218	0.01436	0.14729	-1.11011	10.70257	11.88122	0.463260139
1.71E+08	0.017572	0.15566	-1.1076	4.523042	5.445158	0.464063874
;70585121;	0.011538	0.13915	-1.10646	3.705394	4.806234	0.46443095
1.03E+08	0.016475	0.15199	-1.1042	6.424084	7.371084	0.465161451
38898160	0.00621	0.1184	-1.09626	8.512189	9.410097	0.467728072
61218416	0.042735	0.22164	-1.09583	4.851772	5.778193	0.467866786
80336441	0.001847	0.091058	-1.09558	7.436219	8.464973	0.4679468
65391652	0.010092	0.1344	-1.09542	5.309269	6.259478	0.468001298
85813585	0.010708	0.13701	-1.09401	8.215543	9.370821	0.468456918
26400456	0.02661	0.18143	-1.0934	6.209701	7.1661	0.468655093
;81796269;	0.002238	0.096252	-1.09327	12.18282	13.34022	0.468698635
1.15E+08	0.014341	0.14723	-1.09286	3.093521	4.007095	0.468829501

1.16E+08	0.009119	0.13115	-1.08788	4.653347	5.597104	0.470453406
1.19E+08	0.034533	0.20219	-1.07941	11.88274	12.83117	0.473223597
3554;7684;	0.018777	0.15963	-1.07817	8.637775	9.852385	0.473628437
6432;4316;	0.010412	0.13607	-1.07556	11.66746	12.90277	0.474488252
1.65E+08	0.020352	0.16528	-1.07463	7.342433	8.617002	0.474793534
1.23E+08	0.001547	0.089465	-1.07361	5.602027	6.732301	0.475127878
68347704	0.004183	0.10876	-1.07264	9.159999	10.14589	0.475448547
2511;1882;	0.011465	0.13915	-1.07226	5.144981	6.275092	0.475572493
1.81E+08	0.007102	0.12333	-1.07044	2.030822	3.112507	0.476173065
18089190	0.042059	0.21992	-1.06841	6.36501	7.120181	0.476843186
8831;3394;	0.026765	0.18191	-1.06816	6.105345	6.99778	0.476927553
5055;1079;	0.034851	0.20331	-1.06677	5.076641	5.997636	0.477385541
56472363	0.022046	0.16962	-1.0654	3.829839	5.160666	0.477840997
7910;7976;	0.042472	0.22118	-1.06537	4.804362	6.073397	0.477851315
15714214	0.016754	0.15336	-1.06198	4.458863	5.496165	0.4789744
;23634426;	0.021989	0.16959	-1.06168	9.752398	10.83445	0.479075515
41059525	0.035873	0.20565	-1.06149	0.828043	2.631038	0.479136026
1.34E+08	0.000101	0.043205	-1.05911	7.690107	8.73046	0.479927059
69836651	0.017923	0.15672	-1.05674	12.0446	13.04195	0.480718701
106672936	0.009558	0.13188	-1.05084	7.647907	8.495055	0.482685477
1.03E+08	0.010543	0.13629	-1.04792	2.960051	4.246554	0.483663535
58758587	0.004414	0.10974	-1.04676	1.229381	2.430891	0.484052612
5477;9960;	0.03424	0.20133	-1.04676	1.453121	2.340093	0.484052612
69175540	0.039609	0.21453	-1.04172	0.797767	2.195074	0.485749585
1.51E+08	0.023711	0.17434	-1.04113	8.929927	10.00376	0.485947776
8688;9192;	0.004378	0.10974	-1.04087	3.025355	4.061257	0.486034603
1.49E+08	0.010678	0.13694	-1.04035	2.295772	3.476744	0.486208742
86657919	0.00226	0.096252	-1.03837	8.526679	9.544234	0.486877168
74435560	0.017092	0.15392	-1.03647	5.160322	6.295184	0.487518352
9228;3497;	0.025973	0.17971	-1.03575	4.178124	5.295721	0.487761741
46431099	0.020001	0.16463	-1.03376	4.761691	5.642385	0.488434743
1.28E+08	0.01406	0.14644	-1.03193	8.428624	9.266581	0.489055723
7837575	0.017036	0.15392	-1.02933	8.645468	9.746738	0.489938458
28547254	0.029203	0.1876	-1.0289	1.807716	3.088104	0.490083543
1.8E+08	0.012641	0.14286	-1.02612	3.403112	4.331856	0.491028944
1.44E+08	0.036199	0.20595	-1.0248	7.774449	8.767739	0.491477732
41124428	0.032606	0.19739	-1.0199	4.683108	5.802775	0.493149009
23520590	0.026931	0.18258	-1.01975	9.868059	10.70997	0.493201347
1.15E+08	0.014431	0.14768	-1.01908	8.502699	9.477447	0.493430427
9164;5639;	0.020998	0.16684	-1.01689	5.663142	6.669654	0.494181224
3454169	0.019064	0.1606	-1.01006	1.807082	2.91236	0.496524767
21780554	0.039004	0.21311	-1.01006	1.820898	3.035827	0.496524767
84557823	0.003713	0.10504	-1.00907	8.503886	9.52982	0.49686611
;92139465;	0.001742	0.091058	-1.00693	5.011608	6.09375	0.497604529
85196699	0.010263	0.13492	-1.00349	5.249471	6.320155	0.498792977
71810705	0.023752	0.17439	-1.00282	11.51394	12.44713	0.499023691
1.36E+08	0.016468	0.15199	-0.98844	1.668796	2.822342	0.504023695

1.08E+08	0.005361	0.11503	-0.98524	6.575657	7.533346	0.505142879
1250;4848	0.026248	0.18026	-0.98234	4.901085	6.135806	0.506158335
35308126	0.040989	0.21735	-0.98219	4.153694	4.958748	0.50620973
6932;6888	0.007088	0.12331	-0.98151	11.34116	12.33011	0.506449619
8718;4367	0.040369	0.21592	-0.97749	5.644069	6.434905	0.507863572
8037;6986	0.017754	0.15589	-0.97676	7.517993	8.41585	0.508119818
8778;6417	0.025664	0.17945	-0.97594	5.148443	5.927608	0.508409145
2480;9310	0.00562	0.11645	-0.97412	7.4514	8.293594	0.509051059
54195034	0.003726	0.10515	-0.97392	8.417659	9.383212	0.509120621
14101494	0.000496	0.070995	-0.96987	5.98284	7.017746	0.510552899
1.23E+08	0.018325	0.15788	-0.96853	12.74671	13.56056	0.511027982
58208808	0.033975	0.2004	-0.96852	4.189886	4.997721	0.511030074
1.34E+08	0.041514	0.21852	-0.96653	10.98077	12.02385	0.511733875
36784962	0.015349	0.14831	-0.95953	6.184655	6.966546	0.514225343
1.36E+08	0.000285	0.065605	-0.95924	6.20597	7.113493	0.514327311
1.31E+08	0.033232	0.19912	-0.95878	3.979669	4.913611	0.514492863
7069;3803	0.038216	0.21092	-0.95865	6.965291	7.843684	0.514538305
5;5645153;5	0.001866	0.091058	-0.9582	2.179177	3.254711	0.514698221
75130883	0.00294	0.10081	-0.95718	1.883101	2.821573	0.515062391
69169791	0.012992	0.14413	-0.95687	4.237161	5.093829	0.515173191
1.22E+08	0.035173	0.20409	-0.95594	0.876794	2.507244	0.515506156
1.07E+08	0.039847	0.21472	-0.95523	4.469999	5.302746	0.515760402
63465502	0.01094	0.13733	-0.94892	4.593219	5.788454	0.518019206
9895;1722	0.017672	0.15566	-0.94887	5.555146	6.389346	0.518036283
29332742	0.022106	0.16991	-0.94788	4.049836	4.833686	0.518392868
;59318412;	0.033768	0.20023	-0.94441	7.411759	8.292698	0.5196406
6710;1052	0.015409	0.1486	-0.93585	7.461643	8.420442	0.522732645
43838218	0.042809	0.22164	-0.93287	2.728362	3.617547	0.523815381
118728438	0.031948	0.19503	-0.93176	6.247158	7.233236	0.524217799
.2653;1628	0.001424	0.087457	-0.92544	3.752271	4.838155	0.526518344
4730;1358	0.033542	0.19986	-0.92483	10.60103	11.41259	0.526740777
88548279	0.023587	0.1741	-0.92425	5.118976	6.146328	0.526953675
76177259	0.008837	0.13079	-0.92292	7.307102	8.21489	0.52743915
1.19E+08	0.0243	0.17599	-0.92062	5.215157	5.929865	0.528282324
53978673	0.002906	0.10081	-0.92052	4.33585	5.441629	0.528319256
58907126	0.037678	0.21009	-0.91879	4.691018	5.747552	0.528953553
84935083	0.027542	0.18363	-0.91689	3.705841	4.668913	0.529649653
1.44E+08	0.003608	0.10464	-0.91478	10.4264	11.42348	0.530424258
0741;1073	0.034442	0.20204	-0.91058	8.416152	9.10875	0.53197033
83955205	0.020209	0.16511	-0.90805	3.304435	4.122625	0.532903176
75510354	0.035717	0.20536	-0.90687	13.64011	14.54893	0.533341093
1.21E+08	0.001682	0.091058	-0.90535	4.617372	5.508532	0.533902987
69605960	0.009931	0.13347	-0.90232	11.98946	13.11089	0.53502388
98923942	0.001038	0.083045	-0.90111	8.640748	9.512827	0.535474434
66050386	0.001385	0.087457	-0.89724	9.091996	10.06126	0.536913298
;63565520;	0.015079	0.14785	-0.89617	11.73802	12.62549	0.537311702
;84410038;	0.000137	0.051052	-0.89484	9.48146	10.36715	0.537806053

1.35E+08	0.004899	0.11201	-0.89427	10.37984	11.35655	0.5380175
1120;1217	0.031483	0.19417	-0.89317	4.190055	5.034662	0.53843077
48877713	0.044299	0.22477	-0.89221	4.33916	5.574866	0.538789283
2198;9448	0.012024	0.14084	-0.89078	4.745333	5.668286	0.539323883
;66385919;	0.01642	0.15182	-0.89072	9.314312	10.32794	0.539344011
'1988;1193'	0.008918	0.13085	-0.89058	8.144804	9.106964	0.539397784
;89926740;	0.006269	0.1184	-0.88994	5.579139	6.340828	0.539634781
58958355	0.000359	0.065605	-0.88534	5.633427	6.569915	0.541358868
69237022	0.030407	0.19097	-0.88087	3.609712	4.392763	0.543039161
23905343	0.039132	0.21345	-0.88053	9.646402	10.4493	0.543167265
35865400	0.014129	0.14652	-0.87609	8.948617	9.726933	0.54484118
'0228;1075'	0.002571	0.098108	-0.87597	7.912818	8.815298	0.544886167
'7338;6013'	0.018987	0.16022	-0.87466	12.23889	13.12468	0.545381429
43615892	0.043232	0.22285	-0.87367	3.3563	4.472166	0.545756184
'4540;9684'	0.017087	0.15392	-0.87104	4.478686	5.381721	0.546752673
37255738	0.037286	0.20889	-0.87101	8.256462	9.034813	0.546764084
'1502;6530'	0.01742	0.15509	-0.87082	6.748741	7.43666	0.546837332
00412;1000'	0.009558	0.13188	-0.86904	12.0984	12.91263	0.547509559
89792662	0.036304	0.2062	-0.86795	3.751074	4.423187	0.547925764
80724216	0.011664	0.13974	-0.86725	6.457403	7.348242	0.548189795
70755151	0.012258	0.14144	-0.86627	2.295772	3.372142	0.548562716
14621778	0.012816	0.14304	-0.86584	8.359805	9.387295	0.548725315
1.2E+08	0.027691	0.18389	-0.86481	5.413484	6.153816	0.549119512
43205755	0.005812	0.11645	-0.86343	5.253355	5.974095	0.54964338
87759364	0.002519	0.097168	-0.86304	8.954437	9.809909	0.549792863
;59134436;	0.005085	0.1127	-0.86266	8.870749	9.798044	0.549938168
05729;7097'	0.029854	0.18947	-0.86253	7.557962	8.43334	0.549987531
36488171	0.007016	0.12231	-0.86176	3.168536	3.931055	0.550281082
'7803;1355'	0.024179	0.17574	-0.86176	3.103241	4.006133	0.550281082
'9624;3594'	0.021034	0.16694	-0.85731	4.984596	5.674498	0.551981018
1.4E+08	0.01258	0.14266	-0.85028	6.221566	7.088857	0.554677956
41743856	0.000752	0.080556	-0.84999	4.628286	5.425456	0.554789427
117549359	0.00572	0.11645	-0.84993	7.992976	8.776374	0.554811808
10706696	0.042697	0.22163	-0.84756	9.070773	9.741347	0.555723734
1.14E+08	0.003325	0.10378	-0.84523	6.434905	7.204125	0.556623409
58214892	0.001187	0.084659	-0.8443	9.684413	10.54722	0.556979114
100879283	0.001818	0.091058	-0.84288	4.699551	5.466323	0.557530664
;43326556;	0.037353	0.20916	-0.84133	6.074801	6.725602	0.558127158
;92371036;	0.004436	0.10974	-0.84017	7.204293	8.097636	0.55857844
;59036441;	0.003405	0.10463	-0.83962	12.33857	13.2124	0.55878882
127330836	0.020841	0.16625	-0.83944	4.576312	5.358575	0.558859756
1.16E+08	0.024964	0.17766	-0.8382	3.312573	4.173913	0.559342683
'2422;4506'	0.031395	0.19379	-0.83745	8.30157	8.990583	0.55963112
47247991	0.014186	0.14659	-0.83426	8.659787	9.552883	0.560871018
'7011;6251'	0.004556	0.10974	-0.83358	3.805092	4.596027	0.561134917
97986446	0.043367	0.22314	-0.83318	7.964106	8.776291	0.561291321
1.21E+08	0.008904	0.13085	-0.8326	3.548399	4.355568	0.561517802

73546395	0.021275	0.16752	-0.83251	4.013532	4.917508	0.561553266
135593893	0.003944	0.10733	-0.83083	3.246421	4.233338	0.562203959
1.68E+08	0.031597	0.19428	-0.82911	3.663627	4.623906	0.562877746
17339;1277	0.01021	0.13468	-0.82848	9.757367	10.64074	0.563120789
46375254	0.015021	0.14785	-0.82747	6.708025	7.483129	0.563516409
106417;2680	0.030689	0.19145	-0.82696	7.497778	8.237916	0.563717302
18164;5419	0.013818	0.14588	-0.82694	2.648687	3.4771	0.563722778
17065;1033	0.031846	0.19474	-0.82649	2.728362	3.789836	0.56390013
54085552	0.039651	0.21453	-0.82556	7.261617	7.915749	0.564261505
1.27E+08	0.02036	0.16528	-0.82508	3.579356	4.388281	0.564449159
1.34E+08	0.001451	0.08778	-0.82478	7.905817	8.8281	0.564568439
43807461	0.014968	0.14785	-0.82361	9.462246	10.26452	0.565026489
1.52E+08	0.003455	0.10464	-0.82316	6.824529	7.581676	0.56520276
17449;7313	0.032266	0.19613	-0.82246	3.609467	4.441517	0.565476367
17661;1160	0.005843	0.11645	-0.81657	5.987127	6.6975	0.567788593
1.2E+08	0.023008	0.17202	-0.81623	12.40071	13.2008	0.567925393
14826;6574	0.008533	0.12945	-0.81395	10.38346	11.22843	0.568822355
31229511	0.011397	0.13865	-0.8132	7.67723	8.451435	0.569118331
74717065	0.027916	0.18402	-0.8112	2.535463	3.25494	0.569908249
145685883;	0.018864	0.15986	-0.80986	5.164654	6.331578	0.570437806
91045729	0.02675	0.18187	-0.80986	5.474517	6.173793	0.570437806
94798289	0.000171	0.053538	-0.80712	7.367746	8.140542	0.571521909
18193;9816	0.006464	0.11897	-0.80705	8.771716	9.625703	0.571549792
1.37E+08	0.001963	0.091857	-0.8044	6.79276	7.512431	0.572601042
74295950	0.008834	0.13079	-0.80414	2.648687	3.378734	0.572704152
184588638;	0.025446	0.17877	-0.80399	11.16947	11.87927	0.57276226
11836;1294	0.038787	0.2126	-0.80315	9.434657	10.30265	0.573095667
37841872	0.013305	0.14451	-0.80301	7.120369	7.859696	0.573152395
10701;8759	0.001932	0.091726	-0.80298	6.124696	7.027312	0.57316461
8056555	0.019295	0.16134	-0.80284	9.033881	9.70777	0.573219858
75084905	0.039299	0.21399	-0.80112	5.644379	6.704327	0.573904405
1.07E+08	0.01699	0.15386	-0.79785	4.886985	5.879391	0.57520423
31327302	0.030728	0.19145	-0.79747	3.787311	4.714937	0.57535558
1.36E+08	0.014211	0.14665	-0.79561	4.292119	5.351001	0.576098013
1.27E+08	0.007216	0.1238	-0.79423	8.12489	8.921674	0.576651807
15819;1369	0.011175	0.13837	-0.79385	5.390768	6.282861	0.576801016
16464;1571	0.011245	0.13856	-0.79257	5.797832	6.767485	0.577314628
17103;7303	0.001509	0.088641	-0.79238	6.667732	7.414765	0.577390812
13793520	0.017849	0.15635	-0.7922	4.25384	5.072715	0.577460917
11521;2521	0.018962	0.16013	-0.79205	4.911154	5.621505	0.577523372
45639501	0.034397	0.20183	-0.7918	7.144688	8.353411	0.577624894
16545;8444	0.022458	0.17073	-0.79094	5.693509	6.41322	0.577968198
85688254	0.017588	0.15566	-0.79006	3.97645	4.735337	0.578320384
1.34E+08	0.015188	0.148	-0.78961	9.918255	10.67076	0.578502249
9967485	0.013832	0.14588	-0.78944	8.527731	9.221289	0.578570355
46728342	0.029897	0.18963	-0.78931	7.254249	7.907493	0.578621917
1.06E+08	0.002487	0.097011	-0.78799	8.800637	9.5476	0.579150413

80260968	0.020884	0.16635	-0.78684	9.324505	9.995889	0.579612276
;13020505;	0.010848	0.13733	-0.78443	8.686101	9.303613	0.580583125
0086;6845	0.016278	0.15149	-0.78432	4.845365	5.584587	0.580623993
1.23E+08	0.002313	0.096369	-0.78341	6.9474	7.825521	0.580991226
;3851;2845	0.004696	0.11016	-0.78309	8.558675	9.423145	0.581121246
86011860	0.044152	0.22455	-0.78132	2.933774	4.086317	0.581834305
2005;5942	0.007653	0.12553	-0.78024	7.187025	7.938383	0.582269018
;5223;2346	0.037066	0.20829	-0.77969	4.761719	5.605411	0.582493958
8280176	0.027078	0.1827	-0.77876	10.22853	11.1191	0.582867143
20746404	0.00115	0.084257	-0.77754	9.09069	9.857976	0.583361759
5891;7591	0.005907	0.11668	-0.77622	6.055884	6.736342	0.583894519
;7933;8394	0.011471	0.13915	-0.77471	12.31183	13.13428	0.58450626
84030295	0.011941	0.14071	-0.77422	6.629937	7.362885	0.584705727
48805505	0.017957	0.15672	-0.77326	5.085254	5.755174	0.58509324
22657231	0.016369	0.15172	-0.77312	5.266117	5.942216	0.585150115
88000356	0.012778	0.14304	-0.77243	10.01326	10.78751	0.585428829
127059031	0.019941	0.16448	-0.77225	9.880518	10.51078	0.585502752
33125659	0.008264	0.12847	-0.77185	8.468706	9.209397	0.585665103
'2372;7467	0.028076	0.18433	-0.77044	5.402676	6.067919	0.586240672
;87729934;	0.012586	0.14266	-0.77012	5.078508	5.962676	0.58637024
6072;9225	0.008939	0.13085	-0.76933	9.334782	9.981348	0.586690932
123313373	0.014509	0.14768	-0.76864	8.674085	9.333695	0.586971709
80247102	0.02498	0.17766	-0.76769	4.217926	5.055311	0.587355184
89362613	0.023965	0.17505	-0.76748	12.33858	13.18866	0.587442201
75314871	0.008656	0.13027	-0.76728	4.513222	5.315283	0.587525268
98437716	0.016355	0.15167	-0.76082	10.93425	11.77163	0.590161948
1562;1915	0.010938	0.13733	-0.76019	10.68402	11.34289	0.5904203
84682923	0.006043	0.11769	-0.75789	3.496533	4.272124	0.591360466
.7240;1114	0.011047	0.13797	-0.75503	7.643926	8.436571	0.592535829
20241358	0.043191	0.22277	-0.75465	5.917035	6.511971	0.592688424
4634;1489	0.016819	0.15336	-0.75399	10.49269	11.18878	0.592963156
;28815617;	0.039639	0.21453	-0.75244	4.046666	4.884901	0.593599424
;7473;9207	0.015051	0.14785	-0.75241	9.150904	9.819065	0.593610716
95306585	0.032429	0.19661	-0.75126	6.751185	7.40192	0.594086433
94944578	0.013444	0.14498	-0.75092	11.08036	12.03562	0.594226192
3052;9589	0.003338	0.1039	-0.75066	9.226475	9.971859	0.594332268
1.28E+08	0.010925	0.13733	-0.74989	3.600966	4.491738	0.59464937
93975470	0.025865	0.17955	-0.74869	12.3702	13.17953	0.595145351
);3863903;3	0.010086	0.1344	-0.74772	4.274766	4.990887	0.595543224
8451;1162	0.041169	0.21779	-0.74681	8.416038	9.198512	0.59591992
42158695	0.029691	0.18886	-0.7468	3.66911	4.44035	0.595922976
.0996;8482	0.003548	0.10464	-0.74559	11.34204	12.07027	0.596425828
8687;1029	0.023896	0.17492	-0.745	5.078228	5.896285	0.596665836
6115555	0.014193	0.1466	-0.74479	3.075429	3.891896	0.596753357
1.29E+08	0.033639	0.19991	-0.74452	3.078671	3.859132	0.596866665
9519;1494	0.003593	0.10464	-0.74426	3.29897	3.987658	0.59697371
77979667	0.00771	0.12553	-0.74401	9.07505	9.789342	0.597077632

;65239049;	0.00747	0.1247	-0.74287	9.289663	9.997305	0.597548236
33243312	0.00321	0.10284	-0.74198	10.84759	11.59439	0.597918339
24725825	0.039519	0.21444	-0.7404	2.183558	2.897667	0.59857404
!6415;5120!	0.013474	0.14502	-0.74018	8.042553	8.702354	0.598666256
95654771	0.043391	0.22314	-0.73953	4.674443	5.37609	0.598934682
1.36E+08	0.018509	0.15822	-0.73863	10.53442	11.1663	0.599309871
!5567;1036!	0.037374	0.20922	-0.73749	3.344871	4.158034	0.599780867
77243639	0.019515	0.16242	-0.73748	4.809049	5.74975	0.599786392
!4154;9785!	0.020143	0.16503	-0.73518	5.675445	6.30775	0.600741375
!0810;6118!	0.00779	0.12553	-0.73488	1.659361	2.563982	0.60086735
1.17E+08	0.018335	0.15788	-0.73488	1.667426	2.655028	0.60086735
45659309	0.018955	0.16013	-0.73488	1.667426	2.563982	0.60086735
74885408	0.023044	0.17202	-0.73488	1.659361	2.452489	0.60086735
91807393	0.005102	0.11285	-0.73448	5.270941	5.945123	0.601035249
;69287728;	0.002107	0.094053	-0.72602	9.074033	9.833423	0.604568704
25469749	0.033391	0.19949	-0.72541	11.13636	11.99432	0.604825516
!;4893086;!	0.017128	0.15392	-0.72486	8.051608	8.625625	0.605054566
64098038	0.024118	0.17556	-0.72482	6.26488	6.997278	0.605072412
;34222357;	0.027293	0.18299	-0.72461	6.108682	6.833496	0.605159891
1.75E+08	0.001647	0.090935	-0.72401	4.867907	5.606969	0.605413872
};4597989;!	0.008433	0.12898	-0.72324	9.977937	10.77337	0.605737011
75267762	0.0193	0.16134	-0.72324	10.74143	11.49206	0.605737645
;90763947;	0.013841	0.14588	-0.72281	9.917057	10.67373	0.605915808
58379264	0.001249	0.086071	-0.72265	4.592913	5.286361	0.605981254
153529971	0.020705	0.16612	-0.72265	9.600733	10.32447	0.60598518
1.1E+08	0.011594	0.13937	-0.72141	3.247152	3.891639	0.606504523
!5238;4022!	0.028656	0.18598	-0.72141	3.226549	3.844905	0.606504523
85806851	0.005111	0.11285	-0.72024	6.793856	7.489586	0.606995574
!1365;8101!	0.000603	0.075866	-0.72014	6.750548	7.47336	0.607036669
'7355;1305!	0.001574	0.089465	-0.71951	9.344602	10.09874	0.607301906
!3692;7428'	0.010559	0.13629	-0.71886	10.33534	11.04035	0.607577243
1.06E+08	0.035409	0.20459	-0.71727	6.481208	7.131637	0.608246181
70659738	0.011583	0.13937	-0.71699	10.7538	11.37608	0.608366359
1.23E+08	0.017454	0.15533	-0.71611	8.072828	8.665598	0.608735721
6172991	0.025462	0.17877	-0.71552	5.893131	6.535637	0.608984425
!5351;4760!	0.003165	0.10245	-0.71411	10.62709	11.37613	0.609581936
!5447;1323!	0.008393	0.12892	-0.71316	5.485625	6.406723	0.609981142
1.21E+08	0.019814	0.16386	-0.71175	5.296297	6.017176	0.610579816
90528835	0.010036	0.13397	-0.70751	2.932378	3.628899	0.612378036
92956051	0.038066	0.21083	-0.70689	9.965282	10.50063	0.612638323
59585223	0.020676	0.16594	-0.7047	1.659361	2.451955	0.613571355
!2479;7023!	0.027931	0.18402	-0.70246	4.772716	5.471399	0.614525464
;53240111;	0.02329	0.17308	-0.70222	6.053835	6.706887	0.614625501
1.09E+08	0.041548	0.21852	-0.70168	7.965836	8.556584	0.614856764
!1023;6075!	0.000734	0.080556	-0.70038	8.795091	9.521894	0.61540986
7872042	0.001602	0.090483	-0.69862	9.610718	10.27441	0.616160808
1.32E+08	0.004695	0.11016	-0.69821	1.229381	1.98106	0.616335375

1.05E+08	0.001807	0.091058	-0.69815	3.547911	4.21277	0.616361683
56947429	0.019078	0.1606	-0.69806	7.908805	8.530676	0.616401751
1.52E+08	0.003696	0.10504	-0.69771	11.7746	12.51685	0.616550254
44020006	0.031573	0.19428	-0.6976	4.296659	5.158446	0.616598553
1.01E+08	0.023852	0.17475	-0.69731	7.122545	7.770362	0.616720593
57962865	0.041547	0.21852	-0.69464	11.68812	12.34383	0.617865526
6834;5968	0.016935	0.15378	-0.69434	6.328864	6.933991	0.617991057
1.37E+08	0.041981	0.2198	-0.69422	2.651463	3.594863	0.618044281
54920146	0.001216	0.085631	-0.69277	9.063407	9.770234	0.618663879
31520670	0.008512	0.12942	-0.69238	10.56875	11.21313	0.618832906
1.09E+08	0.040091	0.21547	-0.69156	6.120216	6.781764	0.619183887
9710;4558	0.027876	0.18402	-0.6908	11.027	11.57502	0.619510237
8621567;8	0.008621	0.1302	-0.69057	11.07563	11.67019	0.619609657
47848298;	0.006286	0.1184	-0.68949	9.831599	10.38649	0.620073293
9175;1228	0.02479	0.17746	-0.68867	12.12534	12.67658	0.620423428
5637;8255	0.007401	0.1247	-0.68768	8.495549	9.265113	0.620852992
1.57E+08	0.025368	0.17845	-0.68682	3.234688	4.079205	0.62122138
1.08E+08	0.029392	0.18779	-0.68612	5.997975	6.613183	0.621522763
1.64E+08	0.003905	0.10733	-0.6854	7.690872	8.28482	0.621834472
6436;9177	0.026257	0.18027	-0.68424	7.351248	8.103002	0.622333291
54503768	0.023557	0.17405	-0.68208	9.215477	10.11848	0.623267401
38960585	0.035274	0.20418	-0.6819	7.414139	8.077629	0.623342641
19619830	0.004924	0.11201	-0.68168	9.992712	10.56395	0.623439055
1.39E+08	0.00637	0.11848	-0.67857	9.346276	10.01328	0.624785254
98974942	0.011392	0.13865	-0.67823	10.17049	11.04479	0.624931204
44983787	0.0045	0.10974	-0.67778	11.34172	11.99879	0.625128039
1.23E+08	0.016225	0.15133	-0.6765	6.73839	7.43769	0.625682096
61993259;	0.025129	0.17806	-0.67565	10.62384	11.35995	0.626048013
24475469	0.013704	0.1458	-0.67532	7.229082	7.87338	0.626191884
174822729	0.02739	0.18328	-0.67445	5.698336	6.441482	0.626571841
25785209	0.006584	0.11943	-0.67344	9.924489	10.49529	0.627008604
1.25E+08	0.038361	0.21113	-0.67307	4.266213	4.825416	0.627171175
69801625	0.011491	0.13915	-0.67093	7.332528	7.874799	0.628100667
1.46E+08	0.005322	0.11503	-0.66723	8.080468	8.654316	0.629715093
88177785	0.009416	0.1313	-0.66606	5.111842	5.774087	0.630225436
97738247	0.022459	0.17073	-0.66576	5.401397	6.174418	0.630356071
53867080	0.022802	0.17141	-0.66575	6.554898	7.084783	0.630362879
124261103	0.041713	0.21913	-0.66562	8.704233	9.224586	0.630418341
17766207	0.00134	0.086936	-0.66514	9.535566	10.22713	0.630626165
67283361	0.01287	0.14327	-0.66377	3.351069	4.291812	0.631227613
74641516	0.006041	0.11769	-0.6637	5.986637	6.691645	0.631255685
1.42E+08	0.012557	0.14266	-0.66347	3.875848	4.477876	0.631359485
1.06E+08	0.036416	0.2064	-0.6633	3.292926	3.883985	0.631430509
83038448	0.012312	0.14156	-0.66304	4.769835	5.354245	0.631546537
48541800	0.008384	0.12888	-0.66217	9.360261	9.940399	0.631926536
1.15E+08	0.024778	0.17743	-0.66065	11.68313	12.20807	0.632594661
24063116	0.012157	0.14107	-0.66005	6.849222	7.645328	0.632855983

1.2E+08	0.026451	0.18099	-0.65999	9.058805	9.92535	0.632881329
1.88E+08	0.023158	0.17253	-0.65911	5.405954	6.007426	0.633266713
10477;5168	0.006115	0.11773	-0.65857	11.1493	11.71385	0.633505722
1.18E+08	0.005167	0.11319	-0.65741	9.018349	9.584279	0.634016153
1.71E+08	0.035736	0.20536	-0.6567	5.238326	6.008346	0.634329335
75895941	0.038183	0.2109	-0.65484	7.313553	8.168006	0.635147249
1.43E+08	0.01077	0.13708	-0.65465	7.737567	8.40416	0.635228063
76319820	0.001569	0.089465	-0.65332	10.42396	11.12	0.635815633
1.53E+08	0.018411	0.15788	-0.65255	8.186092	8.693534	0.636155627
13452;5321	0.027963	0.18402	-0.65189	11.77842	12.63741	0.636447842
16021;2108	0.011984	0.14071	-0.65167	9.456242	10.12398	0.63654438
69758223	0.04135	0.21803	-0.65135	11.64921	12.14246	0.636686229
141830538	0.025655	0.17945	-0.65127	6.516628	7.071393	0.636718288
1.32E+08	0.02919	0.1876	-0.65081	9.198998	9.828011	0.636921566
10421;3026	0.018467	0.15804	-0.64775	8.38123	8.999327	0.638275807
1.14E+08	0.025847	0.17955	-0.6469	10.00446	10.5798	0.638649651
19080;7335	0.010604	0.13633	-0.64606	11.30204	11.917	0.639023449
14756;9592	0.039757	0.2146	-0.64574	5.679692	6.228852	0.639165492
1.23E+08	0.004708	0.11027	-0.64532	9.41141	10.01681	0.639352189
19216;4479	0.007216	0.1238	-0.6434	5.715346	6.529008	0.640204188
56378470	0.033872	0.20023	-0.64333	7.162207	7.812943	0.640231288
18973;1084	0.044242	0.22474	-0.64277	7.23583	7.697901	0.640481544
96223738	0.000922	0.080556	-0.64258	7.586807	8.216139	0.640567454
18115;1318	0.000891	0.080556	-0.64068	7.178012	7.806685	0.641410886
17917;3487	0.001894	0.091058	-0.64018	10.14788	10.75052	0.641634503
64022059	0.004572	0.10974	-0.64003	7.545571	8.245278	0.641700487
11219;4554	0.022303	0.17036	-0.64002	9.321804	9.843734	0.641705467
13958;1082	0.003324	0.10378	-0.63817	13.41923	14.21437	0.642527475
14100;7504	0.013476	0.14502	-0.63812	7.584555	8.31664	0.642549378
90146827	0.013074	0.14423	-0.63617	6.323473	6.901666	0.64341939
81753275	0.000518	0.072364	-0.63514	7.368074	7.995528	0.643877726
1.2E+08	0.005326	0.11503	-0.63495	7.203477	7.77025	0.643963221
150280036	0.004165	0.10876	-0.63488	4.563871	5.308854	0.643996261
15822;7969	0.006327	0.11846	-0.63462	8.700143	9.426999	0.644108239
1.36E+08	0.015297	0.1481	-0.63187	7.750158	8.291623	0.64533801
1.3E+08	0.038968	0.21311	-0.62855	10.39984	10.95046	0.646823953
11830;8299	0.008081	0.12765	-0.62828	8.751919	9.532694	0.646946965
28831747	0.0031	0.10176	-0.62718	6.709191	7.459257	0.647441621
87404495	0.000141	0.051751	-0.62624	7.680354	8.284279	0.64786355
47014850	0.008323	0.12856	-0.62611	6.675665	7.312359	0.647920687
18420;1374	0.01272	0.14304	-0.62355	6.993666	7.679927	0.649070008
138134135	0.001733	0.091058	-0.62331	7.771809	8.357249	0.6491805
15748;6313	0.00296	0.10081	-0.62307	8.344303	8.944615	0.649287881
1.41E+08	0.020847	0.16625	-0.62274	3.985956	4.79807	0.649437194
154026044	0.007616	0.12553	-0.6213	10.20066	10.83224	0.650084092
1.01E+08	0.02517	0.17823	-0.62123	9.286999	9.933759	0.650116109
18027;8512	0.008049	0.12727	-0.61971	7.006195	7.660828	0.650799683

.8797;7562!	0.000145	0.052352	-0.61881	9.497131	10.10774	0.65120599
49500250	0.023294	0.17308	-0.6165	5.701481	6.5363	0.652251981
132802764	0.017279	0.1542	-0.61649	9.01061	9.65134	0.65225678
;38535291;	0.009428	0.13132	-0.61585	10.80512	11.30318	0.652545874
!1743;1207!	0.0043	0.10962	-0.61567	9.801408	10.35944	0.652626767
1.54E+08	0.042513	0.22119	-0.61541	9.709257	10.22066	0.65274595
76003569	0.039287	0.21398	-0.6149	4.969579	5.479024	0.652973608
;62971990;	0.002839	0.10065	-0.6144	8.584108	9.139966	0.653200949
!5320;5942!	0.021833	0.16928	-0.61396	5.615005	6.175263	0.653401797
1.82E+08	0.021332	0.16763	-0.61331	8.804544	9.620243	0.653694622
1.57E+08	0.00388	0.10717	-0.61291	9.976074	10.58689	0.653876169
!3436;1218!	0.012796	0.14304	-0.61278	3.748051	4.271941	0.653934442
!9417;1545!	0.028516	0.18568	-0.61177	9.635338	10.21502	0.654392933
6054751	0.03674	0.20701	-0.61144	7.414238	8.271401	0.654543024
!8904;9705!	0.004922	0.11201	-0.61072	8.538548	9.098421	0.654868892
1.22E+08	0.043191	0.22277	-0.60977	6.447269	6.902907	0.655299883
;38512763;	0.030586	0.19136	-0.6094	10.07357	10.59541	0.655467779
128103047	0.001738	0.091058	-0.60883	8.5281	9.213959	0.655728879
35581115	0.043857	0.2241	-0.60653	5.054563	5.821748	0.656774324
1.43E+08	0.026863	0.18219	-0.60637	11.5972	12.17054	0.656847552
79697704	0.009165	0.13115	-0.60628	7.98533	8.689642	0.656889637
62605140	0.0336	0.19991	-0.60618	3.470124	4.142976	0.656935079
35881119	0.009639	0.1322	-0.60593	1.229381	1.935736	0.657045889
84597032	0.009639	0.1322	-0.60593	1.229381	1.935736	0.657045889
80398216	0.035425	0.20459	-0.60593	1.229381	2.047763	0.657045889
!4524;8451!	0.014468	0.14768	-0.60576	7.012377	7.58308	0.657126501
20727556	0.000322	0.065605	-0.60451	7.984714	8.586459	0.657696679
121533365	0.013169	0.14423	-0.60431	9.08823	9.620596	0.657784409
!0265;2560!	0.027902	0.18402	-0.60281	10.7484	11.4638	0.658470354
57512788	0.000991	0.081742	-0.6028	4.799856	5.390253	0.6584737
1.22E+08	0.035385	0.20459	-0.60179	7.970852	8.440633	0.65893418
!7136;8925!	0.001078	0.083992	-0.60104	6.534739	7.129049	0.659277727
;77945888;	0.001695	0.091058	-0.60058	6.52121	7.242155	0.659489174
25831843	0.008093	0.12771	-0.60033	8.988269	9.507808	0.659603493
1.05E+08	0.03654	0.20658	-0.59949	7.960652	8.638157	0.659988856
!7775;1233!	0.002452	0.096556	-0.59934	5.554945	6.160531	0.66005792
;52120959;	0.015069	0.14785	-0.59872	11.45134	12.00377	0.660340969
;52005714;	0.025115	0.17806	-0.59859	7.826857	8.40417	0.660399626
1.03E+08	0.004072	0.10822	-0.59852	7.830856	8.430454	0.660430335
!1461;2195!	0.013226	0.14423	-0.59832	8.163678	8.673139	0.66052344
108858613	0.021641	0.1686	-0.59779	2.648687	3.196913	0.660766115
73097592	0.005552	0.11617	-0.59734	8.261367	8.764437	0.660970909
1.4E+08	0.019983	0.16463	-0.5962	5.814113	6.411171	0.661495
98169765	0.032055	0.19529	-0.59538	5.690543	6.298697	0.661872248
79694012	0.014482	0.14768	-0.59436	7.878231	8.650131	0.662340113
110768139	0.014826	0.14785	-0.59348	8.658645	9.346309	0.662741555
1.3E+08	0.042543	0.22129	-0.58934	9.271136	9.735768	0.664645069

'0276;5606	0.010006	0.13381	-0.5889	10.1431	10.69658	0.664850779
55174990	9.28E-05	0.041446	-0.58805	1.229381	1.789423	0.665242124
42846261	0.00045	0.070821	-0.58805	1.229381	1.763264	0.665242124
.8392;7172	0.002734	0.10008	-0.58741	6.81428	7.313786	0.665537187
1.44E+08	0.016345	0.15167	-0.58741	6.760295	7.268442	0.665537187
36773457	0.00931	0.1313	-0.58643	9.190338	9.822369	0.665988911
38226735	0.02993	0.18967	-0.58574	2.179177	3.088104	0.666308821
:3050;9503	0.005179	0.11321	-0.5851	7.873044	8.534257	0.66660428
34336599	0.006413	0.11859	0.585289	10.23254	9.641843	1.500339195
27822915	0.015229	0.14806	0.585542	6.522788	6.01034	1.50060259
1.08E+08	0.007594	0.12553	0.585582	13.51057	12.9744	1.500644124
36767578	0.00072	0.080556	0.585587	13.0405	12.46387	1.500649135
1.44E+08	0.012569	0.14266	0.586363	10.16399	9.546292	1.501456644
31458901	0.028299	0.18506	0.587047	9.390116	8.907489	1.502168894
1.05E+08	0.004204	0.10876	0.587308	8.052933	7.432251	1.502441026
55532475	0.002598	0.098152	0.588551	10.18512	9.54099	1.503735486
:1113;1391	0.0255	0.17891	0.588799	11.53591	11.02577	1.5039944
1.3E+08	0.001745	0.091058	0.590075	13.13723	12.54202	1.505325129
:6519;1388	0.026721	0.18172	0.590141	8.430099	7.878124	1.505393995
24603817	0.006521	0.11911	0.591149	12.21927	11.65102	1.506446162
80175119	0.013149	0.14423	0.591178	6.356072	5.764259	1.506476139
79527739	0.037263	0.20881	0.591897	11.00228	10.40955	1.50722744
'7324;5377	0.010985	0.13768	0.592105	9.240192	8.742088	1.507444297
.5997;4705	0.01976	0.16372	0.592285	7.680026	7.17649	1.507633179
55488076	0.009376	0.1313	0.593201	11.60849	11.02173	1.50859063
57231466	0.010697	0.13699	0.593228	10.42077	9.915965	1.508618381
25081114	0.002939	0.10081	0.597069	9.584184	9.072578	1.512640018
36736604	0.025722	0.17945	0.597518	7.979756	7.430314	1.513111643
1.2E+08	0.009009	0.13115	0.597809	11.47975	10.85107	1.513416684
35058719	0.001134	0.083992	0.598296	12.52239	11.93856	1.513927038
16895435	0.007483	0.12482	0.598402	5.779897	5.210464	1.514039087
:7106;5442	0.008319	0.12856	0.598541	10.54	10.00353	1.514184368
1.18E+08	0.001726	0.091058	0.598781	10.2066	9.586658	1.514436918
55240058	0.002026	0.09233	0.598783	7.754517	7.183802	1.514438231
75551946	0.000785	0.080556	0.60003	10.56769	9.98058	1.51574822
1.34E+08	0.007941	0.12639	0.600102	6.829385	6.299009	1.515823947
1.1E+08	0.023605	0.1741	0.600241	7.763531	7.044575	1.515969886
40588463	0.025019	0.17768	0.601919	11.33888	10.82271	1.517734034
78984924	0.040349	0.21591	0.602479	9.909885	9.321258	1.518322861
;89510859;	0.016885	0.1537	0.602726	8.905086	8.387737	1.518583021
25704996	0.01394	0.14629	0.603045	9.458413	8.84548	1.518918789
:3312;8850	0.008929	0.13085	0.603149	11.50344	10.85121	1.519028974
:4863;3538	0.029204	0.1876	0.60356	8.871837	8.357681	1.519461673
16455490	0.003145	0.10234	0.603997	8.19186	7.551403	1.519921465
:0457;8135	0.002451	0.096556	0.604039	10.15986	9.635956	1.519966081
1.47E+08	0.030581	0.19136	0.606624	10.64992	10.09259	1.522691529
1.18E+08	0.004699	0.11016	0.60732	11.16231	10.38628	1.523426924

1.21E+08	0.005745	0.11645	0.607529	9.422725	8.862246	1.523647619
1.04E+08	0.008817	0.13079	0.608023	10.69996	10.13945	1.524168735
1.8E+08	0.007826	0.12576	0.6086	12.75555	11.99603	1.524778356
34178172	0.017626	0.15566	0.610362	8.802648	8.301707	1.52664192
1.42E+08	0.003566	0.10464	0.611155	11.46513	10.84506	1.527481112
1.7E+08	0.027732	0.18394	0.612212	10.29478	9.845111	1.528600916
50732773	0.036117	0.20585	0.613717	8.501909	7.79992	1.530196823
13496;1190	0.0004	0.067603	0.614256	10.36201	9.754985	1.530768775
28766524	0.003642	0.10469	0.614776	8.781125	8.12386	1.531320528
57892418	0.003934	0.10733	0.61529	11.94324	11.38319	1.53186591
101785310	0.023788	0.17454	0.616292	9.221617	8.53143	1.532930552
18544;7284	0.009884	0.13332	0.617136	4.129377	3.436513	1.533827242
1.29E+08	0.037108	0.20832	0.617156	8.504469	7.940061	1.533848613
54986336	0.022851	0.17157	0.619145	8.737994	8.211535	1.535964512
138175305	0.028787	0.18639	0.61925	7.19504	6.574046	1.536076711
1.26E+08	0.007495	0.12491	0.620476	11.62659	10.95163	1.53738237
15299;9610	0.023004	0.17202	0.620689	11.19528	10.5884	1.537609155
55513446	0.00513	0.11314	0.620771	11.37918	10.74876	1.537696934
15834;6948	0.017719	0.15571	0.62314	12.69618	12.11639	1.540223978
49196251	0.006053	0.11771	0.623455	10.08498	9.403312	1.54056011
96306121	0.034535	0.20219	0.623758	4.189755	3.577418	1.540883983
35490873	0.000378	0.066968	0.623814	11.14518	10.50466	1.540943695
42958732	0.014873	0.14785	0.624599	8.169989	7.614498	1.541782176
1.31E+08	0.005058	0.11266	0.625443	12.41993	11.76878	1.542684384
164830129	0.042347	0.22068	0.62545	9.516329	8.979673	1.542691485
1.25E+08	0.006466	0.11897	0.628271	11.61776	10.93208	1.545711633
26182351	0.008121	0.12784	0.628949	9.565682	8.917887	1.546438532
95324358	0.028517	0.18568	0.630304	2.535463	1.580014	1.547890618
16768;5479	0.006497	0.11911	0.630483	8.181184	7.542659	1.54808289
70506739	0.004617	0.10974	0.633519	9.273452	8.538731	1.551344293
13011;4148	0.003086	0.10151	0.633807	10.63095	10.00657	1.551654446
31253197	0.009389	0.1313	0.633863	5.940123	5.259624	1.551714692
91070221	0.001779	0.091058	0.634429	9.619555	8.997942	1.552323654
15414;4044	0.034993	0.20361	0.634677	6.232512	5.692657	1.552590373
1.44E+08	0.017779	0.15598	0.636925	12.27707	11.77222	1.555011415
70453726	0.005637	0.11645	0.63765	9.603171	8.893708	1.555792778
1.64E+08	0.016157	0.15124	0.637968	9.673227	8.991204	1.556136173
35679449	0.018631	0.15908	0.638768	9.030513	8.443093	1.556998739
1.66E+08	0.002389	0.096556	0.639556	10.55938	9.804472	1.557850176
10391005	0.00194	0.091726	0.641058	7.375523	6.745999	1.559472342
10866;1325	0.041188	0.21779	0.641107	5.057463	4.327732	1.55952487
60738801	0.015573	0.14886	0.641287	6.775951	6.137418	1.559719641
66514593	0.041085	0.21761	0.642232	7.135643	6.570678	1.560742222
19560;4789	0.033641	0.19991	0.64245	6.025036	5.280584	1.560977971
8297661	0.010272	0.13495	0.642829	10.88521	10.0838	1.561388135
17401;1032	0.019368	0.16166	0.643197	8.083664	7.391403	1.561785942
12612;5497	0.019237	0.16121	0.644381	8.783112	8.283159	1.563068658

11399658	0.021835	0.16928	0.645238	11.15943	10.65222	1.563997789
45936058	0.000325	0.065605	0.645317	12.65596	11.9896	1.564083166
;9563;1358	0.001749	0.091058	0.646521	12.09389	11.3886	1.565388959
4368945	0.014932	0.14785	0.646562	4.055689	3.535016	1.565433737
4219;1805	0.005676	0.11645	0.646778	6.328864	5.742335	1.565667936
80056439	0.015534	0.14874	0.646909	12.91387	12.18091	1.565809709
84533888	0.015469	0.1486	0.64714	12.62553	12.05263	1.566060262
;3570;1256	0.042322	0.2206	0.647818	4.745612	3.891896	1.566796307
.5055;1157	0.016389	0.15172	0.648326	11.39972	10.79553	1.567347986
1.72E+08	0.001369	0.087457	0.648992	12.43809	11.80048	1.568072115
.5187;8001	0.016702	0.15314	0.649011	8.144653	7.60295	1.568093081
1.61E+08	0.032963	0.19858	0.649412	9.12862	8.61175	1.568528427
;4645;8434	0.009068	0.13115	0.650374	9.988858	9.348345	1.569574742
69994949	0.001682	0.091058	0.652045	12.61548	11.99555	1.571393985
1.22E+08	0.000111	0.043749	0.652163	11.97374	11.30524	1.571522783
71002533	0.000702	0.080556	0.652207	13.5196	12.87236	1.571570662
6520958	0.005592	0.11644	0.652329	6.274205	5.522554	1.571703084
1.31E+08	0.000163	0.053538	0.653373	9.163615	8.536747	1.572841509
85803115	0.039739	0.21457	0.653909	11.87711	11.29217	1.573425223
1.18E+08	0.026609	0.18143	0.653956	6.194749	5.560864	1.573476777
23770970	0.034681	0.2028	0.654868	6.751815	6.141624	1.574472231
1.41E+08	0.008224	0.1283	0.655358	10.38717	9.560571	1.575006404
;2613;1184	0.029447	0.18795	0.655752	10.08079	9.539482	1.575436596
35555928	0.004038	0.10781	0.656408	11.28113	10.66827	1.576153193
14901719	0.00537	0.11503	0.657241	10.20369	9.506409	1.577063862
1.04E+08	0.012275	0.14144	0.658067	7.932712	7.203937	1.577966761
46892463	0.010755	0.13708	0.659825	8.887172	8.303401	1.579891338
1.41E+08	0.000936	0.080556	0.660108	11.39782	10.71353	1.580200935
;0819;5502	0.010141	0.13468	0.660258	6.080065	5.317142	1.580365593
94180327	0.000382	0.066969	0.661019	9.214126	8.538835	1.58119946
35832787	0.000783	0.080556	0.663872	10.09965	9.412999	1.584328764
1.01E+08	0.024927	0.17766	0.667909	6.18731	5.606482	1.58876875
57811830	0.000167	0.053538	0.669628	9.677077	9.030588	1.590663279
55079504	0.023212	0.17264	0.670461	12.18489	11.63632	1.591581395
54753761	0.030508	0.19125	0.670592	6.095135	5.566896	1.591726186
42034641	0.001296	0.086714	0.67167	8.790275	8.096442	1.592916305
;77857261;	0.026645	0.18143	0.672282	5.914545	5.411031	1.593591504
;8761;7159;	0.007459	0.1247	0.673002	7.355098	6.810359	1.594386971
;92202795;	0.011918	0.14071	0.67316	11.8122	11.23815	1.594562096
39599471	0.017601	0.15566	0.673723	9.994389	9.413513	1.595184198
;6922;7031;	0.001729	0.091058	0.673923	11.74635	11.0032	1.595405048
;46025163;	0.027944	0.18402	0.674291	10.11088	9.551722	1.595812107
1.28E+08	0.03921	0.21366	0.675631	11.00481	10.46757	1.597294721
62862024	0.042832	0.22166	0.675785	4.937432	4.254443	1.597466131
148151925	0.018391	0.15788	0.677791	9.297749	8.625358	1.599688139
57487860	0.000496	0.070995	0.678164	8.248992	7.489983	1.600102524
124106806	0.043688	0.2235	0.678706	6.265803	5.57228	1.600703429

1.22E+08	0.015045	0.14785	0.678837	5.606137	4.830574	1.600848229
31164326	0.013718	0.1458	0.679209	9.880919	8.929854	1.601261442
.8535;7621;	0.004178	0.10876	0.679243	5.072864	4.475063	1.601299132
1.35E+08	0.016571	0.15252	0.679898	9.292427	8.588895	1.602025984
1.15E+08	0.000664	0.079206	0.681853	12.2212	11.48779	1.604198755
42275197	0.012257	0.14144	0.682354	4.51639	3.845223	1.604756074
16508484	0.02881	0.18639	0.682524	11.95341	11.25385	1.604944895
8562681	0.014699	0.14782	0.685497	2.857042	2.081754	1.608256382
1.15E+08	0.020656	0.16591	0.686534	9.861201	9.225871	1.609412291
1.11E+08	0.01915	0.16093	0.686632	7.875348	7.197678	1.609521171
45318572	0.019991	0.16463	0.686651	11.01859	10.40583	1.609542851
6528760	0.020076	0.16503	0.687009	7.425091	6.716758	1.609941996
'3779;3447'	0.019268	0.16132	0.687444	6.338807	5.552331	1.610428343
75956831	0.01783	0.15631	0.687589	11.79401	11.23924	1.610589657
81266926	0.012167	0.14107	0.688812	10.25311	9.656224	1.611955646
33795989	5.07E-05	0.030782	0.689317	8.15351	7.454603	1.612519887
71373689	0.025391	0.17855	0.689417	6.499486	5.651859	1.612631792
!1472;7854:	0.001115	0.083992	0.689547	10.35002	9.662867	1.612776845
4624946	0.015777	0.14966	0.691111	8.802045	8.241857	1.614526026
1.64E+08	0.036326	0.2062	0.691824	5.412557	4.44456	1.615324399
29744414	0.013775	0.14588	0.691857	13.14242	12.54388	1.615361431
;71310965;	0.030265	0.19056	0.692955	9.22299	8.680228	1.616590789
1.45E+08	0.009392	0.1313	0.693949	7.333396	6.553514	1.6177053
!1870;6981:	0.002811	0.10053	0.697514	8.511522	7.876312	1.621707989
!1717;1369:	0.030369	0.19094	0.697734	8.777733	8.058633	1.621955166
55492647	0.000439	0.069972	0.697866	10.71064	10.00969	1.622103315
1.05E+08	0.018349	0.15788	0.697957	9.616971	8.979866	1.622206487
59012017	0.009699	0.13257	0.698344	11.9947	11.35926	1.622641695
79676126	0.004118	0.10842	0.699191	8.533335	7.882802	1.623594145
)2191;8870:	0.043411	0.22314	0.700238	8.664645	8.031317	1.624772899
;4145;1018'	0.000426	0.068927	0.700614	11.31272	10.58846	1.625196613
13009183	0.001571	0.089465	0.700924	10.67587	9.955582	1.625545807
1.21E+08	0.016537	0.15245	0.703128	4.164867	3.410875	1.628030585
1.13E+08	0.015693	0.1493	0.703516	9.660234	8.897909	1.628469261
;85701149;	0.016127	0.15124	0.705959	5.798474	5.092286	1.631228504
;59177654;	0.008538	0.12945	0.70718	6.846209	6.162123	1.63260952
1.06E+08	0.017603	0.15566	0.709003	9.605107	9.04492	1.634674047
'6785;7837'	0.002263	0.096252	0.71217	10.92902	10.16811	1.6382669
47483233	0.001363	0.087395	0.712244	11.10576	10.29263	1.638351027
1.56E+08	0.01099	0.13768	0.713141	11.42139	10.72049	1.639369757
)0391;1130:	0.035024	0.20373	0.714711	4.314423	3.633172	1.641154946
25409494	0.00394	0.10733	0.715726	9.577091	8.911388	1.642309478
18631813	0.007468	0.1247	0.715728	10.02001	9.263265	1.642311398
62604806	0.035754	0.20536	0.715876	10.78494	10.11886	1.642480149
45459886	0.002696	0.099459	0.716264	14.8953	14.25969	1.642921607
1.02E+08	0.002295	0.096369	0.717065	10.47669	9.755197	1.643834333
1.49E+08	0.027076	0.1827	0.717544	10.83604	10.22256	1.644380741

1.72E+08	0.007964	0.12652	0.717621	9.329382	8.594203	1.644468287
73790828	0.026374	0.18058	0.717752	11.40017	10.70862	1.644617095
1.49E+08	0.0091	0.13115	0.718523	9.641189	8.979445	1.645496779
17520;2006	0.002357	0.096556	0.718896	5.258468	4.476439	1.645922089
10193;6504	0.000524	0.072713	0.718981	11.32274	10.63707	1.646018958
83317604	0.025335	0.17842	0.722884	10.27365	9.688728	1.65047759
14492;7894	0.002874	0.10081	0.723449	9.174016	8.42964	1.651124875
136889494	0.020268	0.16521	0.72408	11.02937	10.37217	1.651846615
1.05E+08	0.00231	0.096369	0.724793	12.77732	12.06889	1.65266369
10195;4884	0.013982	0.14642	0.726069	6.381265	5.67097	1.654126153
1.65E+08	0.005718	0.11645	0.726707	11.28868	10.63391	1.654857788
71592360	0.005112	0.11285	0.728203	9.513941	8.720201	1.656573948
17334;1716	0.033199	0.19903	0.729463	5.012614	4.323186	1.658021523
19950;6168	0.020661	0.16591	0.730787	7.649751	6.927817	1.659544584
15974;5175	0.044947	0.22676	0.731017	10.45457	9.840764	1.659809304
72380468	0.016217	0.15133	0.733095	8.250609	7.316609	1.662201134
161131139	0.026415	0.1808	0.735763	9.419641	8.709921	1.665278026
98953501	0.005936	0.11684	0.736311	15.46989	14.64455	1.665910399
18704;1061	0.004459	0.10974	0.737003	11.10353	10.35768	1.666709884
17873127;7	0.029989	0.18967	0.737634	9.269777	8.535098	1.667438939
20390671	0.011825	0.14032	0.737638	11.39806	10.58832	1.667443474
19302;7069	0.003748	0.10537	0.738544	12.08686	11.43387	1.66849154
1.16E+08	0.020437	0.16528	0.740395	9.561135	8.944765	1.670633739
13286;3521	0.005627	0.11645	0.740486	12.62883	11.99856	1.670738705
72137244	0.032191	0.19588	0.742196	4.229234	3.519639	1.672719522
11819403	0.033995	0.2004	0.74339	7.542057	6.838706	1.674104687
74750765	0.023734	0.17434	0.743822	12.55277	11.6773	1.674606025
1.05E+08	0.002575	0.098108	0.743999	11.8451	11.2066	1.674812187
55078131	0.001151	0.084257	0.745597	6.404218	5.656696	1.676668425
1.2E+08	0.014518	0.14768	0.747442	8.392371	7.659591	1.678813569
1.05E+08	0.018123	0.15751	0.748072	10.02295	9.214898	1.679547008
4205603	0.03392	0.20036	0.748548	5.11716	4.450206	1.680101227
1.17E+08	0.011376	0.13865	0.748565	7.80203	7.205053	1.680120473
27275656	0.003785	0.10572	0.749748	11.52701	10.75754	1.681499538
46773407	0.011498	0.13915	0.750513	9.124834	8.340693	1.682390486
100159808	0.008602	0.13008	0.753121	7.318924	6.701511	1.685435593
1.12E+08	0.003475	0.10464	0.753219	5.221811	4.273893	1.685549931
1.14E+08	0.004538	0.10974	0.754179	12.52332	11.60857	1.686671837
5057071	0.015634	0.14918	0.755407	5.927013	5.002735	1.688108041
1.08E+08	0.01057	0.13629	0.756099	12.02244	11.32477	1.688917424
17150;8532	0.010567	0.13629	0.75816	8.243384	7.566709	1.691331861
1.71E+08	0.001978	0.092238	0.759314	7.802806	7.103654	1.692685776
18728;1285	0.022046	0.16962	0.759973	11.37089	10.75458	1.693458517
120618866	0.004912	0.11201	0.76121	9.27927	8.405741	1.694911294
12138;5583	0.015758	0.14954	0.761489	7.233285	6.608473	1.695239056
18839;4523	0.02771	0.18391	0.763142	6.275381	5.621051	1.697183309
1.81E+08	0.002826	0.10065	0.763563	11.1203	10.42614	1.697678222

48480611	0.008826	0.13079	0.764331	10.59412	9.893965	1.698581819
94395358	0.016169	0.15124	0.765248	10.66503	9.856528	1.699661722
98728198	0.009318	0.1313	0.766531	8.257933	7.549728	1.701174162
61273438	0.000353	0.065605	0.767287	9.10693	8.270367	1.70206648
98588375	0.0034	0.10463	0.768763	13.19451	12.52384	1.703808491
95052222	0.025612	0.17945	0.769043	11.16937	10.47072	1.70413903
98563592	0.017169	0.15402	0.769148	5.160814	4.182844	1.704262568
1.23E+08	0.008993	0.13115	0.769765	11.79607	11.05565	1.704992215
.3464;1317	0.024333	0.17599	0.770486	8.924018	8.23741	1.705844713
64128158	0.006376	0.11848	0.774235	9.947336	9.229584	1.710282727
1.05E+08	0.005854	0.11645	0.774824	8.205514	7.46545	1.710981624
2794;3262	0.01233	0.14156	0.776449	11.87113	11.09601	1.712909008
45021644	0.002975	0.10081	0.778617	10.01908	9.291971	1.715486043
37657312	0.000769	0.080556	0.779015	12.95592	12.10618	1.715958618
9409;1072	0.008168	0.12803	0.779372	8.174828	7.416389	1.716383855
8729;5728	0.028653	0.18598	0.780149	9.060677	8.374811	1.717308574
1.08E+08	0.025424	0.17873	0.781002	9.321785	8.485295	1.71832382
1.08E+08	0.008432	0.12898	0.782089	6.985748	6.29856	1.719619584
1.37E+08	0.005803	0.11645	0.782386	8.50523	7.7116	1.7199732
1.01E+08	0.011629	0.13955	0.782717	12.39102	11.69077	1.720367978
1.34E+08	0.001507	0.088641	0.783366	8.699794	7.94684	1.721141892
47008414	0.014532	0.14768	0.784118	10.78254	10.11709	1.722039031
69685554	0.013414	0.14492	0.784802	6.235666	5.579497	1.722856086
2973;3902	0.036274	0.20617	0.784806	6.389677	5.480955	1.722860124
16798274	0.026687	0.18165	0.784973	10.26349	9.630197	1.723059961
0698;3134	0.035798	0.2055	0.787222	7.219121	6.413944	1.725748195
2152;4509	0.000216	0.054854	0.788615	13.08949	12.36077	1.727415873
2280;3409	0.020451	0.1653	0.788875	6.736486	5.802299	1.727727047
0328;3423	0.014542	0.14768	0.793375	9.046061	8.350517	1.733123794
3747;5783	0.023463	0.17358	0.794354	9.388823	8.644295	1.734300612
.6602;9944	0.003165	0.10245	0.795259	11.9919	11.22504	1.735389476
1.23E+08	0.008929	0.13085	0.795728	7.549934	6.839606	1.735953075
1.24E+08	0.026198	0.18024	0.797441	3.696106	2.710684	1.738015608
9334;1100	0.009886	0.13332	0.798435	5.390768	4.698747	1.739213512
77259223	0.000933	0.080556	0.798454	5.284483	4.475059	1.739235898
1.38E+08	0.001436	0.087583	0.798902	8.805992	8.092721	1.739776789
3615;4710	0.016808	0.15336	0.802754	10.03278	9.359682	1.744427773
0001;4804	0.034746	0.20297	0.803272	4.990272	3.963654	1.745054351
3968354	0.044243	0.22474	0.80334	5.591627	4.893306	1.745136091
8660773	0.009542	0.13187	0.803946	10.03435	9.335814	1.745870353
94398239	0.028568	0.18586	0.805249	8.837083	8.13293	1.747447342
1.08E+08	0.013207	0.14423	0.805289	9.558192	8.664386	1.747495527
3769;1024	0.000774	0.080556	0.805446	12.57298	11.68731	1.747686368
95556405	0.006266	0.1184	0.806582	9.103915	8.274632	1.749062544
67375763	0.015949	0.15026	0.806883	7.36313	6.513342	1.749427579
38341860	0.01481	0.14785	0.807338	4.458427	3.755991	1.749979639
1.44E+08	0.039815	0.21464	0.808047	2.14367	0.776642	1.750840242

1.5E+08	0.015036	0.14785	0.808586	9.33192	8.327042	1.751494022
90524581	0.014089	0.14652	0.812611	8.060906	7.190046	1.756386703
38645922	0.019166	0.16094	0.816431	3.025355	2.192617	1.761044604
1.24E+08	0.000993	0.081742	0.816807	8.216703	7.45606	1.761503198
2153;6787	0.041212	0.21782	0.818531	7.710238	6.830737	1.763609083
1.21E+08	0.02999	0.18967	0.819092	7.580347	6.954995	1.764295068
34078008	0.007605	0.12553	0.82096	11.67279	10.93723	1.766581064
5211;9792	0.002713	0.099896	0.822431	11.66951	10.91471	1.768383576
80232616	0.001327	0.086773	0.822471	9.762635	8.808878	1.76843249
7115;7654	0.033635	0.19991	0.823902	5.128286	4.048848	1.770187595
88743202	0.005173	0.11319	0.825027	12.08969	11.1909	1.771568602
1.23E+08	0.024014	0.17522	0.826485	7.190941	6.54482	1.773359677
5115;9583	0.032189	0.19588	0.826808	6.079198	5.077134	1.773756693
1.2E+08	0.004737	0.11048	0.826864	7.775078	6.978473	1.773825231
83574203	0.00426	0.10956	0.827613	9.960386	9.098033	1.774746467
6125;4849	0.035786	0.20549	0.828033	2.031456	0.765347	1.775263541
2412;2497	0.00111	0.083992	0.828413	10.95658	10.06669	1.775730685
1.34E+08	0.024177	0.17574	0.829804	6.883341	6.1406	1.777443831
52981039	0.004249	0.10951	0.831653	10.00257	9.23951	1.779723394
1384;7287	0.0098	0.13301	0.831723	14.27484	13.56242	1.779809901
62497298	0.009015	0.13115	0.835427	8.81251	7.776738	1.784385465
1.48E+08	0.02662	0.18143	0.83554	5.557852	4.812374	1.784525409
28446895	0.037892	0.21071	0.835719	6.754699	6.011871	1.784745783
7886;1104	0.018113	0.15751	0.836257	11.01475	10.18766	1.785412074
827;5343	0.006405	0.11853	0.83677	11.13284	10.13532	1.786046481
0943;7185	0.003649	0.10469	0.837273	12.95592	12.1165	1.78667007
70514616	0.039814	0.21464	0.838369	3.548399	2.485882	1.788027184
4487;9331	0.026343	0.18056	0.841355	11.0042	10.32316	1.79173278
9055;4076	0.027044	0.18269	0.84302	7.466071	6.789688	1.793801676
78359785	0.008524	0.12945	0.845075	11.62652	10.79978	1.796357717
1.46E+08	0.016025	0.15066	0.846303	5.605452	4.585044	1.797887906
17551502	0.004822	0.11123	0.84729	14.26391	13.29875	1.799118089
1.01E+08	0.008436	0.12898	0.849079	10.90679	10.14717	1.801351008
10453181	0.001565	0.089465	0.851141	11.37847	10.42033	1.803927203
0984;9945	0.015699	0.1493	0.852729	8.34774	7.552567	1.805913163
22041352	0.015206	0.148	0.853582	4.575416	3.730642	1.806981445
34130354	0.002389	0.096556	0.853827	12.25357	11.40227	1.807288499
2331;3104	0.004413	0.10974	0.854915	8.537767	7.799595	1.808651627
1.41E+08	0.004675	0.11016	0.856719	5.142928	4.096836	1.810914867
8396;8115	0.027568	0.18363	0.859344	6.862637	5.973787	1.814213407
96825894	0.012246	0.14144	0.860445	10.3189	9.450376	1.815597671
5431;8040	0.004937	0.11201	0.866167	11.93913	11.06833	1.822813609
27563672	0.022365	0.17052	0.866295	10.07725	9.370367	1.8229757
41832583	0.025328	0.17842	0.86649	6.161832	5.467752	1.823222112
51175187	0.002276	0.096252	0.867596	8.067481	7.173849	1.824619421
32678594	0.024009	0.17522	0.867743	12.15631	11.35524	1.824805996
1.24E+08	0.002245	0.096252	0.868117	6.155709	5.14118	1.825278459

'2446;5757:	0.007388	0.1247	0.870983	10.65639	9.811295	1.828908685
60897447	0.004633	0.11001	0.871009	6.248717	5.343002	1.828941593
51590670	0.015193	0.148	0.871485	9.671132	8.682732	1.829545206
1.38E+08	0.005358	0.11503	0.871999	8.240145	7.489789	1.830197452
1.17E+08	0.034795	0.20314	0.87428	8.484939	7.759413	1.833092886
'4750;2756:	0.008355	0.1286	0.875	7.715152	6.720477	1.83400774
1.23E+08	0.024304	0.17599	0.876201	5.267448	4.347034	1.835535382
1.58E+08	0.006327	0.11846	0.876495	12.6664	11.7668	1.835909167
'4943;5525:	0.00356	0.10464	0.87686	11.80075	11.03766	1.836373956
'3519;7199:	0.011525	0.13915	0.879663	10.88452	10.05041	1.839944949
26657258	0.004917	0.11201	0.882271	13.65173	12.79219	1.843274449
66842796	0.002589	0.098152	0.882931	6.369171	5.586149	1.844117426
1.02E+08	0.025879	0.17955	0.885342	10.1999	9.531246	1.847202094
1.67E+08	0.005945	0.1169	0.889252	14.3075	13.27757	1.85221598
'3122;9836:	0.032845	0.19819	0.889786	9.797556	9.123302	1.852901705
'3036;3298:	0.004018	0.10764	0.890269	8.170665	7.10949	1.853521173
'3;7923557;7:	0.037732	0.21022	0.890881	11.50757	10.76268	1.854308086
'07104;1220:	0.015129	0.14798	0.891524	8.298772	7.424737	1.855134613
.1936;6131:	0.020749	0.16614	0.89308	4.677676	3.544122	1.85713704
.4627;4473:	0.043443	0.22314	0.894606	5.038382	4.323425	1.859101623
;83033397;	0.017492	0.15552	0.896579	6.462942	5.670959	1.861646482
82903974	0.026496	0.18107	0.897371	5.876303	5.056572	1.862668152
;59182021;	0.028891	0.18667	0.899957	6.652622	5.692601	1.866010041
55072702	0.001751	0.091058	0.903243	10.42799	9.539444	1.870264789
'09498;7601:	0.004718	0.11036	0.903433	7.43563	6.59933	1.870511763
'1845;1056:	0.001267	0.0862	0.905959	9.777365	8.969257	1.873789831
82445367	0.019248	0.16121	0.906196	9.068428	8.352774	1.874097306
;97941302;	0.007749	0.12553	0.906419	7.430726	6.628683	1.87438692
1.02E+08	0.004606	0.10974	0.910863	10.2481	9.448955	1.880170026
94645216	0.004664	0.11016	0.911084	12.79497	11.99052	1.880458229
11604804	0.005323	0.11503	0.911322	6.953788	6.14652	1.880768042
10393216	0.021239	0.16752	0.912088	7.43999	6.465722	1.881766878
'0761;1774:	0.010658	0.13679	0.914493	10.53839	9.711814	1.884906388
32244662	0.008453	0.12905	0.915325	10.88996	9.966767	1.885994443
1.17E+08	0.014996	0.14785	0.920773	8.111361	7.384141	1.893129004
44471658	0.01058	0.13633	0.920998	8.828542	8.085114	1.893424925
'09735;1358:	0.044686	0.22622	0.92191	8.767299	7.52591	1.894621289
'0977;3082:	0.037903	0.21071	0.923911	3.452985	2.452489	1.897251143
1.41E+08	0.014947	0.14785	0.927137	11.99582	11.12701	1.901499413
'0171;3277:	0.01321	0.14423	0.927385	6.195258	5.431503	1.901825264
.4179;1739:	0.002427	0.096556	0.927707	4.574135	3.522448	1.902249918
1.21E+08	0.004965	0.11216	0.931071	7.863305	6.906465	1.906691304
1.06E+08	0.033283	0.19924	0.933093	7.026725	6.116721	1.909365497
1.23E+08	0.035413	0.20459	0.933928	8.453654	7.456211	1.910470459
'2710;3517:	0.00936	0.1313	0.933939	6.019896	5.106391	1.910484471
;98095632;	0.001896	0.091058	0.933979	13.49626	12.60584	1.910538022
1.22E+08	0.003265	0.10323	0.934466	8.917991	7.938195	1.911183594

1937;8344	0.002052	0.092697	0.938803	3.18014	2.081754	1.916936448
7908;1950	0.033748	0.20023	0.938803	3.407062	2.19315	1.916936448
5092879	0.01047	0.13624	0.939555	10.34472	9.428508	1.917936787
80603896	0.023651	0.17428	0.941268	9.958736	9.140206	1.920215475
4565;2704	0.000494	0.070995	0.944446	11.12092	10.09012	1.924450272
83530518	0.038953	0.21311	0.945227	3.579061	2.091964	1.925491953
8469;1284	0.031954	0.19503	0.947596	11.86088	11.10446	1.928656058
79614018	0.034298	0.20156	0.949099	7.24584	6.33664	1.930666314
79782630	0.000519	0.072364	0.950032	11.16577	10.122	1.931914938
59525501	0.034046	0.20056	0.950205	4.882334	3.709397	1.932146955
6658;4481	0.006074	0.11773	0.951481	10.4606	9.596003	1.933856908
55296628	0.008285	0.12847	0.951633	10.21803	9.297578	1.934060238
31337394	0.027753	0.18396	0.954617	3.946457	2.822178	1.938065155
1.07E+08	0.020434	0.16528	0.954768	5.199624	4.403086	1.938267254
1691;1515	0.00108	0.083992	0.954936	13.93424	13.04742	1.93849323
1.84E+08	0.002537	0.097444	0.961278	4.728574	3.766423	1.947034224
160072782	0.026721	0.18172	0.961846	8.225836	7.456088	1.947801203
1.64E+08	0.000683	0.079814	0.963314	13.53393	12.66513	1.949783323
1.35E+08	0.02109	0.16698	0.963334	5.454875	4.340342	1.949810522
1.02E+08	0.010484	0.13624	0.964754	5.71073	4.931436	1.951730728
130139162	0.025335	0.17842	0.967785	6.37775	5.434528	1.955834872
7625;8034	0.001953	0.091857	0.968846	8.558528	7.550801	1.957274379
9255;2837	0.029851	0.18947	0.969574	8.581542	7.688971	1.958262909
96171718	0.001701	0.091058	0.9723	9.133431	8.254969	1.961965976
7236;1148	0.040906	0.21733	0.972914	6.709324	5.981574	1.962801416
1.14E+08	0.006658	0.11984	0.974103	11.79378	10.7657	1.964419991
7881;1251	0.033471	0.19964	0.976071	6.209468	5.212895	1.967101307
78378588	0.002179	0.095564	0.97722	7.956686	6.826362	1.968667856
69795937	0.038059	0.21083	0.978298	8.294322	7.46883	1.970140462
7380;1725	0.003617	0.10464	0.979467	12.74902	11.9131	1.971737247
1728;7588	0.000421	0.068927	0.981934	9.48756	8.486014	1.975111899
69666062	0.020007	0.16463	0.988579	7.441126	6.532974	1.984230115
41569527	0.008903	0.13085	0.991846	8.048782	7.1476	1.98872858
10122;5819	0.012343	0.14156	0.999023	8.021953	6.915435	1.998646224
36475887	0.002752	0.10008	1.007614	13.66066	12.73948	2.010583556
8134;1094	0.014302	0.14697	1.01003	5.410295	4.54475	2.013953556
1.45E+08	0.000356	0.065605	1.012122	12.57327	11.59072	2.016875526
2942;1015	0.002639	0.098285	1.01297	10.70803	9.788349	2.018061792
1.02E+08	0.00185	0.091058	1.015088	8.339561	7.261578	2.021026441
1.08E+08	0.003286	0.10359	1.016638	8.921828	7.93587	2.023199251
15045478	0.001277	0.086391	1.017188	10.63308	9.661318	2.023970514
80257545	0.005601	0.11645	1.018541	12.88173	11.80367	2.025869039
67367794	0.015402	0.1486	1.020196	8.966807	7.583646	2.02819437
1978;1296	0.03795	0.21071	1.020482	7.476452	6.529708	2.028596878
20874737	0.003088	0.10151	1.02129	10.19536	9.176326	2.029733527
5327;5065	0.005073	0.11266	1.026909	10.1398	9.111726	2.037654436
10526;9089	0.001777	0.091058	1.028275	8.295553	7.163027	2.039584195

3915501	0.006685	0.11994	1.028669	2.965499	2.018659	2.040141487
1.11E+08	0.013267	0.14438	1.029242	7.385352	6.521664	2.040951051
19921143	0.01975	0.16369	1.030365	9.764742	8.868652	2.042540841
'7385;8289'	0.015786	0.14968	1.034599	12.5049	11.54042	2.048543754
87000069	0.008977	0.13113	1.046248	11.16	10.30001	2.065151907
;35115416;	0.012034	0.14084	1.05059	4.313593	3.194006	2.071377012
;53612096;	0.006875	0.1213	1.050819	8.136518	7.201439	2.071706286
;34873108;	0.029037	0.18719	1.051377	5.564554	4.683373	2.072507275
70631635	0.000552	0.073734	1.051571	8.43453	7.287107	2.072786033
;55543261;	0.014578	0.14768	1.05997	10.9951	9.977864	2.084888463
130935157	0.028605	0.18587	1.060264	9.029647	8.132837	2.08531339
;15441977;	0.016171	0.15124	1.062879	5.405238	4.51516	2.089097004
1.63E+08	0.009699	0.13257	1.06502	7.178453	5.843253	2.09219902
70520736	0.035223	0.20409	1.065786	3.422756	2.506095	2.093310081
91374217	4.08E-05	0.026776	1.066544	5.979984	4.947261	2.09440985
.8825;8302.	0.015433	0.1486	1.067922	8.965515	8.047556	2.096411603
;57413761;	0.034497	0.20219	1.069365	8.059994	7.114937	2.098508847
'5352;6925'	0.000591	0.075463	1.070578	3.606717	2.654423	2.100274428
70466199	0.014166	0.14652	1.072216	7.458413	6.226128	2.102661212
1E+08	6.13E-05	0.034221	1.077723	8.097997	7.008323	2.110702145
1.37E+08	0.008543	0.12945	1.078389	12.2852	11.22521	2.111677412
;24445682;	0.024283	0.17599	1.078652	6.423437	5.50135	2.112061321
73572242	0.00247	0.09673	1.080408	8.292206	7.348226	2.114633874
20332713	0.014178	0.14657	1.080692	10.05956	8.997031	2.115050553
50210790	0.003377	0.1044	1.081899	13.969	12.982	2.116820105
'3999;4976'	0.00684	0.12106	1.082061	8.338344	7.235416	2.117058835
'6875;5662'	0.006375	0.11848	1.082162	12.24589	11.34212	2.117207179
26089264	0.019671	0.16328	1.08239	3.4267	2.377355	2.117541229
1.26E+08	0.001131	0.083992	1.084179	8.04525	6.839949	2.120168167
1.56E+08	0.015451	0.1486	1.089228	4.637504	3.668427	2.127601645
29180673	0.003624	0.10464	1.090437	12.78129	11.65876	2.129384538
1.53E+08	1.91E-05	0.017092	1.09176	9.478467	8.383345	2.131339423
78262580	0.001766	0.091058	1.09878	6.365519	5.407594	2.141735719
21163611	0.040337	0.21591	1.103453	2.182924	0.83176	2.148684035
90679388	0.007082	0.12329	1.104352	7.992308	6.931462	2.15002289
1.27E+08	0.006055	0.11771	1.104417	9.114285	7.998189	2.150119139
1.55E+08	0.012001	0.14076	1.107258	5.369001	4.463848	2.154358494
64268145	0.030266	0.19056	1.110617	5.07813	3.990781	2.159380476
79858665	9.48E-05	0.041471	1.113766	14.03683	12.99749	2.164098711
99358530	0.005726	0.11645	1.114221	9.958242	8.855314	2.164780712
'6726;3526'	0.001809	0.091058	1.11459	10.11624	9.071203	2.165334697
11882899	0.018267	0.15763	1.11562	3.363057	2.221971	2.166880589
58469745	0.0007	0.080556	1.1161	12.86313	11.80458	2.167602601
21472661	0.021936	0.16957	1.119414	6.210145	5.260943	2.172586412
;44387623;	0.040706	0.21675	1.119876	5.102805	4.058111	2.173282293
95712754	0.004021	0.10764	1.121659	2.855646	1.578073	2.175970838
'8726;1092'	0.042638	0.22152	1.124194	2.183558	1.367334	2.179796725

;70893436;	0.005871	0.11645	1.127771	10.72209	9.773281	2.185208365
1.18E+08	0.000206	0.054854	1.133294	10.12574	9.030308	2.193590774
;1460;1967	0.027446	0.18335	1.133715	3.582055	2.543001	2.194230968
'8048;9758	0.011496	0.13915	1.134129	7.661128	6.478633	2.194860728
'9151;3434	0.014706	0.14782	1.136021	7.520477	6.2541	2.197740601
1.21E+08	0.03572	0.20536	1.136726	4.397157	3.435004	2.198814969
87680235	0.023619	0.1741	1.137337	2.179177	0.765347	2.199745547
16898441	0.008771	0.13079	1.137538	4.669043	3.534879	2.200052607
1.21E+08	0.00373	0.10515	1.138091	2.292025	1.155984	2.200896258
;0244;3704	0.023942	0.17505	1.139759	8.573433	7.383429	2.203442141
56062310	0.027465	0.18343	1.142563	6.915211	5.650056	2.207729128
;2848;2277	0.002964	0.10081	1.142974	11.02263	9.84237	2.208358226
;6177;6261	0.00454	0.10974	1.14981	8.923261	7.743369	2.21884676
1.68E+08	0.000194	0.054707	1.157661	7.595095	6.474666	2.230954728
61814113	0.015908	0.15012	1.158077	2.446657	0.76998	2.231597601
;9444;4059	0.008802	0.13079	1.159223	4.534204	3.306891	2.233371792
98053462	0.036395	0.2064	1.162038	9.058509	7.954161	2.237733233
55944661	0.015441	0.1486	1.162748	8.357502	6.920227	2.238834536
25368092	0.008282	0.12847	1.163937	8.427063	7.168325	2.240679906
16132550	0.003685	0.10503	1.166506	9.965269	8.88344	2.244673415
'1817;1164	0.001241	0.086071	1.16867	7.956473	6.800949	2.248042966
1.32E+08	0.011129	0.13823	1.170764	9.370404	8.411538	2.251308231
24658425	0.002801	0.1005	1.171431	3.976752	2.822178	2.252350083
.2348;1563	0.020323	0.16527	1.173597	7.38136	5.917839	2.255733824
89913162	0.002238	0.096252	1.179861	7.552828	6.515365	2.265550073
1.07E+08	0.027903	0.18402	1.180136	7.625006	6.687477	2.265981382
'4148;1256	2.98E-05	0.022139	1.182394	9.01094	7.842144	2.269531164
1.07E+08	0.002761	0.10008	1.182517	4.39732	3.306402	2.269724322
43304172	0.010619	0.13645	1.183107	7.16692	6.093909	2.270652177
'8556;5552	0.006391	0.11849	1.18563	5.573963	4.471007	2.274627615
89398779	0.004365	0.10974	1.194404	6.190107	5.091868	2.288502643
1.37E+08	0.003019	0.10081	1.196697	9.383004	8.267053	2.292143339
1.15E+08	0.001187	0.084659	1.198552	11.64643	10.46588	2.29509173
5870393	0.003443	0.10464	1.199556	12.45889	11.33003	2.296689346
1.33E+08	3.1E-06	0.003297	1.204015	1.229381	0	2.3038
9917397	3.1E-06	0.003297	1.204015	1.229381	0	2.3038
1.54E+08	3.1E-06	0.003297	1.204015	1.229381	0	2.3038
1.63E+08	3.1E-06	0.003297	1.204015	1.229381	0	2.3038
;5687;3428	3.1E-06	0.003297	1.204015	1.229381	0	2.3038
44219585	0.004787	0.11097	1.204015	1.453121	0	2.3038
81421878	0.030392	0.19094	1.204015	1.720601	0	2.3038
30417579	0.03361	0.19991	1.213561	8.511537	7.56839	2.319093405
79854971	0.035032	0.20373	1.22104	6.748317	5.702691	2.331146965
'6071;1709	0.009781	0.13301	1.22143	6.0399	4.930512	2.331777565
65357509	0.001124	0.083992	1.223105	10.37934	9.264865	2.3344856
5749317	0.024972	0.17766	1.224413	7.48546	6.034847	2.336603127
58190198	0.023128	0.17248	1.227754	4.017443	2.685508	2.34202079

0333;3399	0.00268	0.099169	1.228049	10.16581	8.840139	2.342500306
107605587	0.004478	0.10974	1.229687	8.932662	7.831683	2.345160892
14070	0.039544	0.21444	1.229708	11.4068	9.995387	2.345194627
1.37E+08	0.001314	0.086773	1.229711	9.224331	8.028168	2.345200205
3353;2458	0.001997	0.09233	1.231424	11.02442	9.915146	2.347985834
1.21E+08	0.005509	0.1157	1.234992	9.872211	8.779585	2.353801099
85639878	0.003218	0.10285	1.235619	8.993521	7.864025	2.354823473
1.84E+08	0.010812	0.1373	1.236718	8.368304	7.2973	2.356617989
25672239	0.003707	0.10504	1.237484	3.091507	1.935736	2.357870119
1.18E+08	2.48E-05	0.020498	1.24074	12.17512	10.95305	2.363197109
1.37E+08	0.003974	0.10733	1.245202	9.244893	8.049304	2.370517111
1.28E+08	0.000403	0.067603	1.245823	4.363487	2.989135	2.371537215
9043;3474	0.024476	0.17639	1.24633	7.404232	6.392171	2.372371404
1.56E+08	0.036799	0.20725	1.247372	5.508807	4.380031	2.374085279
35395630	0.020769	0.16614	1.250062	2.835302	1.212378	2.378516955
7334;1199	0.024252	0.17599	1.254536	8.814602	7.82608	2.385903886
3071;8070	0.010817	0.1373	1.254957	8.536616	7.347104	2.386599983
1.33E+08	0.00034	0.065605	1.262663	6.308855	5.002107	2.399382793
1.29E+08	0.013949	0.14631	1.264354	2.444127	0.776642	2.402195832
32571662	0.016802	0.15336	1.264354	2.388364	1.155984	2.402195832
20242181	0.014561	0.14768	1.267015	8.290463	6.982575	2.406630445
1.15E+08	0.001886	0.091058	1.267045	10.89437	9.66922	2.406681387
9794;9246	0.021678	0.16861	1.268605	9.560623	8.580617	2.409284771
7915;1085	0.031752	0.19455	1.272331	5.888533	4.983441	2.415514566
9904;1238	0.015179	0.148	1.274955	5.139227	4.161074	2.419913204
1.34E+08	0.016897	0.15375	1.275722	7.66901	6.214619	2.421200031
0501;1138	0.015739	0.14948	1.276039	6.313416	5.083175	2.421730905
1.64E+08	0.003504	0.10464	1.276619	11.36135	10.27743	2.42270541
3585;3399	0.016145	0.15124	1.278066	5.832334	4.599975	2.425136454
32817968	0.024576	0.17661	1.279708	3.346885	1.868444	2.427897882
71858342	0.023597	0.1741	1.280662	9.647815	8.651946	2.429504353
1.04E+08	0.016162	0.15124	1.282056	8.510106	7.249945	2.431853011
25145396	0.021262	0.16752	1.282471	6.673783	5.393729	2.432553436
7126;7141	0.000569	0.074299	1.285531	7.078926	5.871664	2.437717475
74386051	0.01318	0.14423	1.290845	7.596973	6.204479	2.446713998
1.02E+08	0.000391	0.067127	1.292228	9.681803	8.418028	2.449060048
93080017	0.001811	0.091058	1.294841	1.443686	0	2.4535
82794245	0.001811	0.091058	1.294841	1.443686	0	2.4535
1.27E+08	0.001811	0.091058	1.294841	1.443686	0	2.4535
89931862	0.002146	0.094928	1.294841	1.445056	0	2.4535
30513402	0.009735	0.13287	1.294841	1.591407	0	2.4535
6944;3218	0.020107	0.16503	1.294841	1.704255	0	2.4535
73484120	0.023029	0.17202	1.294841	1.536123	0.098849	2.4535
6984;2176	0.012758	0.14304	1.31417	10.3906	9.139025	2.48659176
77565674	0.020999	0.16684	1.31485	8.17934	6.970986	2.48776425
52727318	0.001003	0.081742	1.317619	8.538885	7.32519	2.492543353
1.05E+08	0.001572	0.089465	1.321701	8.313999	7.048659	2.499606501

6178;5496	0.008033	0.12719	1.324359	11.43944	10.33974	2.504215502
30766927	0.042501	0.22119	1.325433	4.271979	3.287389	2.506080669
9104;1442	0.039568	0.21446	1.326046	3.075559	1.200671	2.507146776
2586;1409	0.01353	0.14539	1.335693	10.62756	9.484935	2.52396731
2280;1255	0.003999	0.10753	1.337559	9.82422	8.601626	2.527233651
66687234	0.006077	0.11773	1.33874	11.8519	10.70062	2.529303571
45563168	0.014726	0.14785	1.339119	7.415471	6.230815	2.529966912
1.92E+08	0.009827	0.13301	1.341022	5.390659	3.878473	2.533306294
6251;1378	0.038278	0.21101	1.342381	5.123328	3.409096	2.535693964
7184;5207	0.024882	0.17764	1.343032	5.168459	4.028877	2.536839257
8692;1239	0.017176	0.15403	1.344717	7.672897	6.310001	2.539803725
8499985	0.000109	0.043749	1.345466	12.99054	11.70395	2.541122761
10980162	0.008553	0.12952	1.347391	11.98554	10.76989	2.544515611
90773383	0.010196	0.13468	1.347537	7.981494	6.673008	2.544773272
99412826	0.016069	0.15095	1.347912	3.929255	2.471179	2.545434603
1256;1228	0.033868	0.20023	1.348574	7.421379	6.453519	2.546603602
1.23E+08	0.03952	0.21444	1.349798	7.532431	6.377643	2.548764748
1.02E+08	0.004868	0.11171	1.351776	9.560856	8.398097	2.552261298
6519;4592	0.005461	0.11563	1.354575	11.75009	10.43801	2.557216956
15714271	0.015026	0.14785	1.358766	2.496092	0.629119	2.564656336
1.49E+08	0.016678	0.15314	1.367634	7.902762	6.743036	2.580469483
43567060	0.00066	0.079206	1.370215	11.99256	10.56105	2.585090183
7410;1293	0.002433	0.096556	1.372294	3.795937	2.452489	2.588818953
1.38E+08	0.021211	0.16752	1.374011	4.731193	3.352848	2.591901268
40271616	5.1E-05	0.030782	1.377357	10.87783	9.546316	2.597920184
82307420	0.000815	0.080556	1.378391	10.42787	9.041849	2.599782519
62507755	0.026841	0.18212	1.378953	8.006972	6.612024	2.600795589
1.56E+08	0.016758	0.15336	1.385001	5.689658	4.519946	2.611720648
1.18E+08	0.033287	0.19924	1.385583	9.938795	8.764912	2.612775754
1.15E+08	0.008998	0.13115	1.395809	3.622352	2.194706	2.631361096
3969;9628	0.011412	0.13873	1.396944	6.416959	5.199719	2.633431161
51496611	0.034114	0.20075	1.397642	6.449767	5.104968	2.634705685
4635;8354	0.007592	0.12553	1.410243	7.306164	6.16843	2.657818671
6658;8953	0.005311	0.11503	1.410575	5.548418	4.248413	2.658431777
1.44E+08	0.000596	0.075614	1.411205	9.159344	7.82603	2.65959225
98446550	0.006459	0.11897	1.412099	11.52764	10.14365	2.661240231
5480;3094	0.029311	0.18763	1.41417	6.429288	5.140114	2.665063166
9924;1267	0.001898	0.091058	1.414292	9.779003	8.286935	2.665288679
66225806	0.025837	0.17955	1.414362	6.040323	4.929512	2.66541927
1.2E+08	0.012852	0.14321	1.41509	7.32841	5.864254	2.666763724
8086;4855	0.008143	0.12791	1.420543	3.813285	2.451955	2.67686184
24598682	0.017224	0.15418	1.422453	12.38761	10.8838	2.680407927
21073514	0.003017	0.10081	1.422463	8.29234	6.94078	2.680426961
25345562	0.001848	0.091058	1.433761	8.995335	7.561121	2.70149993
1.23E+08	0.011596	0.13937	1.442477	11.36743	10.19952	2.71787048
1.54E+08	0.008348	0.1286	1.443121	8.265734	7.062462	2.719083603
93690991	0.007124	0.12355	1.445868	7.709501	6.124414	2.724266472

81960930	0.001423	0.087457	1.44976	10.98027	9.642101	2.731626206
79668536	0.008667	0.13036	1.450486	6.540266	4.980284	2.733001735
48275358	0.028221	0.18472	1.456125	3.534503	1.870404	2.743704508
4448325	0.012327	0.14156	1.463866	2.910604	1.367334	2.758466113
3370;3640	0.001575	0.089465	1.468746	9.377026	8.02686	2.767811166
105996423	0.014057	0.14644	1.471821	5.240793	3.939549	2.773717028
9469324	0.003484	0.10464	1.477738	7.688078	6.362514	2.785117549
37419036	0.015865	0.1501	1.479222	6.234043	5.10449	2.787982643
8832;3804	0.015293	0.1481	1.483777	6.095718	4.427602	2.796799208
9492;2547	0.00872	0.13079	1.486145	5.216627	3.858271	2.801393351
2385;4631	0.004022	0.10764	1.492406	9.576555	8.233508	2.813578561
1.15E+08	0.029307	0.18763	1.505792	8.236956	6.994704	2.839805568
8649;1115	0.006335	0.11846	1.516261	8.757402	7.480151	2.860487983
1.3E+08	0.00387	0.1071	1.519218	6.340375	5.005062	2.866356069
171649007	0.0349	0.20347	1.524502	3.313304	2.139807	2.876873322
1.36E+08	0.011234	0.13856	1.525924	9.363215	8.025173	2.879710562
54028090	0.021926	0.16957	1.534365	5.962205	4.431213	2.896608567
4336;1352	0.001174	0.084659	1.539217	6.221536	4.712096	2.906366921
5650;1108	0.011124	0.13823	1.540634	6.321147	4.44548	2.909224196
1.16E+08	0.029965	0.18967	1.548	3.032518	1.580014	2.924114233
1307;2923	0.001078	0.083992	1.548273	9.367401	7.982027	2.924667759
75264208	0.018426	0.15788	1.54881	5.818533	4.61444	2.925757171
1.13E+08	0.011982	0.14071	1.561939	10.08306	8.727007	2.952504371
1.08E+08	0.008051	0.12727	1.565953	9.913132	8.568477	2.960729747
15542472	0.002619	0.098152	1.569397	4.313471	2.729235	2.967806227
47386167	0.001178	0.084659	1.572897	7.725305	6.146034	2.975015735
65037336	0.044995	0.22685	1.583011	5.700057	3.536951	2.995944951
66561046	0.002932	0.10081	1.583078	6.359721	4.712346	2.996083063
1.57E+08	0.001791	0.091058	1.5846	8.757877	7.072885	2.999246911
1.03E+08	0.006942	0.12202	1.58569	10.8171	9.402018	3.001514206
13224965	0.003578	0.10464	1.586966	6.195047	4.603316	3.004168718
1.34E+08	0.002391	0.096556	1.588189	11.21505	9.730269	3.006717057
83846790	0.039093	0.2134	1.598765	4.170658	2.95407	3.028838528
40142254	0.008468	0.12911	1.599221	8.395789	6.91544	3.02979685
61990361	0.018135	0.15751	1.600025	10.12718	8.769151	3.031485833
101370125	0.028646	0.18598	1.600833	5.732581	4.448393	3.033183434
15889545	0.006157	0.11826	1.60197	7.723954	6.113715	3.035575937
90076095	0.000923	0.080556	1.602747	11.47715	9.676766	3.037209947
1.07E+08	0.027349	0.18326	1.610488	2.502485	0.776642	3.053551423
21506524	0.029072	0.18722	1.610488	2.764065	1.515607	3.053551423
20931524	0.011295	0.1386	1.612028	8.025101	6.310949	3.056811764
8774;8384	0.014784	0.14785	1.612646	8.364024	6.972185	3.058122753
3349;7436	0.010922	0.13733	1.615136	8.37873	6.798073	3.063405745
45694556	0.013208	0.14423	1.61695	4.235827	2.741957	3.067259875
9438;1961	0.013558	0.14545	1.619833	9.008109	7.633286	3.073395447
93045022	0.002781	0.10033	1.62536	6.896766	5.39242	3.085190568
7019;1166	0.006568	0.11928	1.63572	10.55387	9.089926	3.107426175

1.67E+08	0.004094	0.10842	1.63697	11.26667	9.80531	3.110119044
6219;5148	3.41E-05	0.023775	1.670146	5.407975	3.725919	3.18246892
.2662;6790	0.004826	0.11123	1.674336	7.430828	5.91701	3.191723221
8370;7746	0.010424	0.13614	1.675952	5.453748	4.079622	3.195300485
70582571	0.003962	0.10733	1.677593	9.139653	7.504051	3.198937591
;87980451;	0.005019	0.11266	1.680556	11.71037	10.23279	3.205514517
58499742	0.012714	0.14304	1.693433	9.364745	7.979777	3.234254335
80014808	0.011037	0.13797	1.703002	10.84551	9.431653	3.255778294
'7029;9877	0.031586	0.19428	1.704829	3.695637	1.72346	3.259903602
55906949	0.013847	0.14588	1.706976	7.670734	6.240606	3.264757505
1.01E+08	0.003952	0.10733	1.709792	6.018435	4.185593	3.271135987
39642678	0.003259	0.10317	1.711664	7.640279	5.832909	3.275383905
80932204	0.000551	0.073734	1.717897	9.593761	8.005361	3.289566068
;17223932;	0.016396	0.15172	1.721888	7.768425	6.210712	3.298678676
14545036	0.03306	0.19883	1.731158	7.947155	6.223182	3.319941936
67037407	0.00124	0.086071	1.731839	9.243733	7.541718	3.321510514
1.16E+08	0.005808	0.11645	1.735926	7.910946	6.206482	3.330933135
1.44E+08	0.009339	0.1313	1.737234	6.361887	4.71865	3.333952613
70459984	0.0159	0.15012	1.750081	10.32301	8.703081	3.363774107
71730966	0.004451	0.10974	1.7651	4.859897	2.851142	3.398976234
;4282928;3	0.027774	0.18396	1.767458	4.193845	2.611856	3.404535811
83706269	0.027014	0.18269	1.770232	5.256544	3.189252	3.411088066
1.09E+08	0.007338	0.12456	1.776465	7.909075	6.174832	3.425857369
'5122;1301	0.003234	0.10285	1.776615	12.19323	10.48297	3.426212441
1.23E+08	0.000747	0.080556	1.778359	9.708975	8.000016	3.430358334
1.31E+08	0.00589	0.11645	1.78333	8.353319	6.771164	3.442196934
1.16E+08	0.002627	0.098152	1.784753	11.8426	10.10182	3.445594772
93957100	0.006997	0.1223	1.812788	6.838428	5.323179	3.513206348
9266;7595;	0.009364	0.1313	1.813302	5.378543	3.711663	3.514456516
4272514	0.014708	0.14782	1.823336	7.035486	5.494319	3.538986081
'6996;6427	0.009608	0.1322	1.82823	7.394952	5.235573	3.551011268
29248467	0.00231	0.096369	1.831107	7.187361	5.177063	3.558100066
1.01E+08	0.00664	0.11984	1.832201	1.819528	0	3.5608
59794959	0.00664	0.11984	1.832201	1.819528	0	3.5608
34716662	0.038357	0.21113	1.832201	1.659361	0.379343	3.5608
0657;1281;	0.016684	0.15314	1.836587	4.807995	3.144283	3.571641204
79359076	0.011031	0.13797	1.837248	8.621344	6.918635	3.573276481
;72235746;	0.014237	0.14678	1.842415	7.864944	6.260476	3.586098841
6099;5329;	0.000979	0.081251	1.846802	6.191271	4.454094	3.597019799
37654172	0.007377	0.1247	1.851039	1.91993	0	3.6076
06359;1019	0.016957	0.15385	1.851039	1.883101	0.379343	3.6076
'8559;6243	0.018211	0.15761	1.851039	1.883101	0.386005	3.6076
50911846	0.033181	0.19902	1.851039	2.174151	0	3.6076
74998031	0.00459	0.10974	1.861448	6.919761	5.15172	3.633720781
30419854	0.004153	0.10875	1.875522	3.201988	1.365394	3.669344459
77915393	0.017708	0.15571	1.877931	4.26632	2.689351	3.675476269
1.17E+08	0.018206	0.15761	1.879956	11.48993	9.810562	3.680639466

35202007	0.035672	0.20522	1.880333	3.413269	1.186107	3.681600376
96228933	0.00789	0.12631	1.888901	8.247253	6.404332	3.703528776
1.17E+08	0.001646	0.090935	1.916216	11.0788	9.271396	3.774317849
1.27E+08	0.017671	0.15566	1.931978	9.359046	7.786117	3.815779526
83593087	0.011939	0.14071	1.939923	8.212378	5.942385	3.836851201
83578636	0.016231	0.15133	1.9445	7.342089	5.132624	3.849044724
47189402	0.001472	0.087831	1.945417	8.652502	6.805678	3.851489665
1.38E+08	0.000351	0.065605	1.952241	7.843552	5.844898	3.869750925
12967;7534	0.00672	0.12037	1.956105	11.95477	10.11478	3.880128919
24475873	0.004124	0.10842	1.957694	7.714705	5.858311	3.88440585
53612096	0.000938	0.080556	1.961628	5.124208	3.156221	3.895011765
1.08E+08	0.042894	0.22177	1.964961	5.77336	3.641717	3.9040206
23677449	0.000168	0.053538	1.9651	11.47514	9.437828	3.904398848
3926841	0.015493	0.1486	1.966061	2.030822	0.386005	3.907
1.23E+08	0.016926	0.15376	1.966061	2.14367	0.379343	3.907
73026890	0.018178	0.15758	1.966061	2.152643	0.386005	3.907
1.17E+08	0.007452	0.1247	1.986329	4.678493	2.818364	3.962276153
5455938	0.016415	0.15182	2.003729	5.570795	3.50745	4.01035168
8163;3496	0.000996	0.081742	2.01745	6.623424	4.52627	4.048674126
9540;1625	0.043642	0.2235	2.024523	5.999622	4.294604	4.068572221
84696221	0.009276	0.1313	2.030283	9.880358	8.184922	4.084848943
45369708	0.009566	0.13188	2.041757	8.003123	6.259095	4.117465624
128117068	0.00246	0.096556	2.047657	8.982041	7.143099	4.134340539
7844;8837	0.000832	0.080556	2.054252	12.46572	10.59489	4.153281889
7183;1241	0.039735	0.21457	2.063894	5.981452	4.41685	4.181132505
93745972	0.02253	0.17074	2.079982	7.47483	5.471138	4.228019449
14677;2305	0.015969	0.15026	2.085905	7.8331	5.747932	4.245414633
16318334	0.000854	0.080556	2.088851	7.988583	6.091913	4.254091423
1.3E+08	0.000185	0.053655	2.101721	11.9552	9.927507	4.292209828
4964348	0.01548	0.1486	2.110757	4.302262	2.42547	4.319178888
35826559	0.019448	0.16215	2.133806	5.567935	3.808936	4.388738206
1.81E+08	0.001488	0.088523	2.153157	6.318562	4.291812	4.448000764
1.2E+08	0.000495	0.070995	2.171212	7.195861	5.04447	4.504017122
6036;8487	0.006358	0.11846	2.18816	10.30793	8.442548	4.557239118
8768;5145	0.006845	0.12106	2.19672	7.725564	5.633369	4.584360385
24701556	0.01173	0.13986	2.201057	6.749437	4.900029	4.598160142
1.23E+08	0.001197	0.084815	2.215765	7.998904	6.017618	4.645278417
1.42E+08	0.00226	0.096252	2.268644	8.913493	6.924144	4.818700449
87371074	0.017007	0.15386	2.273565	6.181472	4.123158	4.835164124
1.33E+08	3.4E-05	0.023775	2.275365	2.179177	0	4.8412
1.35E+08	0.00687	0.1213	2.275365	1.967249	0	4.8412
3864;1296	0.013675	0.14577	2.275365	2.182924	0.390637	4.8412
3483;1204	0.036609	0.2067	2.275365	1.955437	0.386005	4.8412
1.24E+08	0.008204	0.1283	2.278291	5.806264	3.263858	4.851030727
1.21E+08	0.001878	0.091058	2.287158	6.519872	4.494373	4.880936433
1.16E+08	0.013446	0.14498	2.296105	2.183558	0.386005	4.9113
1.11E+08	0.015667	0.14918	2.296105	2.177609	0	4.9113

17105825	0.001358	0.087364	2.308719	10.49968	8.294239	4.954429594
10558207	0.004053	0.10795	2.314115	9.91417	7.82027	4.972995832
74364000	0.003985	0.10743	2.322278	4.825336	2.796205	5.001214137
4477143	0.000536	0.073353	2.354391	9.847009	7.564368	5.113782527
1.08E+08	0.038631	0.21204	2.368647	6.163786	3.280586	5.164565403
43803133	0.002925	0.10081	2.395092	8.351772	6.116415	5.260105603
;12508522;	0.005886	0.11645	2.408357	10.09959	7.858909	5.308692364
46844333	0.009262	0.1313	2.41	6.017539	3.844991	5.31474319
;91136141;	0.000748	0.080556	2.415242	11.65288	9.375686	5.334090771
1.27E+08	0.013259	0.14436	2.421685	7.712964	5.650049	5.357965015
14914889	0.028387	0.1851	2.441005	2.752111	0.406777	5.4302
1.66E+08	0.00263	0.098152	2.442269	11.19175	9.0145	5.434957164
97018355	0.001029	0.083045	2.446937	9.171869	6.825725	5.452573304
1.56E+08	0.037509	0.20972	2.463894	5.976825	4.005483	5.517039225
34819894	0.015913	0.15012	2.468594	8.894897	6.79936	5.535040186
29100722	0.005296	0.11503	2.490678	9.51581	7.191999	5.620421013
42307989	0.000196	0.054707	2.504514	10.4221	8.112356	5.674581238
25627974	0.017663	0.15566	2.510479	8.069713	5.620909	5.698092932
1958;1282;	0.00133	0.086773	2.534842	8.980506	6.693663	5.795134424
40134228	0.005033	0.11266	2.539657	7.396615	5.262624	5.814506314
1.15E+08	4.88E-06	0.00474	2.602089	8.866708	6.234122	6.071652896
1.52E+08	0.004542	0.10974	2.63736	10.70322	8.293074	6.221920271
1.46E+08	0.005928	0.11684	2.655748	12.14731	9.636431	6.301731842
9850;1048;	0.005502	0.1157	2.663501	7.352822	4.923284	6.33568802
'8718;8497;	0.00287	0.10081	2.699622	9.156018	6.698976	6.496317616
89311032	0.00916	0.13115	2.705749	7.802758	4.7553	6.523965071
50443613	0.024363	0.1761	2.715093	8.714811	6.194865	6.566355498
1.38E+08	0.000262	0.062198	2.72019	7.327412	4.694208	6.589596495
1.38E+08	0.002834	0.10065	2.783213	7.364189	4.600707	6.883837555
15010184	0.000476	0.070995	2.801428	2.910298	0	6.9713
91362404	8.74E-05	0.039815	2.817561	8.993237	6.335292	7.049693549
98854747	7.6E-05	0.037696	2.836794	8.874882	6.110943	7.144308754
1.23E+08	0.001443	0.087736	2.853062	6.973098	4.176848	7.22532477
1.08E+08	0.001623	0.090935	2.895145	6.423009	3.741776	7.439188377
69489233	0.014691	0.14782	2.899038	4.049434	1.120144	7.459287475
10401;1154;	0.010171	0.13468	2.899885	5.557917	3.130916	7.463668592
11081103	0.020137	0.16503	2.921465	4.314092	1.925881	7.5761531
82047523	0.025626	0.17945	2.94845	3.91444	1.235037	7.719193021
45318450	0.00558	0.11644	2.971538	8.066793	5.407617	7.843722516
30168;4425;	0.002935	0.10081	2.99348	10.04424	7.359311	7.963927038
9708;4611;	0.000895	0.080556	3.04911	7.643083	4.807597	8.277011015
34044313	0.00448	0.10974	3.066887	3.863343	0.76998	8.379634678
1.52E+08	0.002339	0.096556	3.076132	9.77861	6.987697	8.433504446
1.45E+08	0.002576	0.098108	3.129744	6.1238	2.927999	8.752795998
7510242	0.008589	0.12996	3.14122	2.976954	0	8.8227
1.08E+08	0.002383	0.096556	3.161169	7.089943	4.0744	8.945543478
36324029	0.000203	0.054854	3.244267	10.10441	7.06025	9.475923888

23745521	0.006672	0.11994	3.287546	3.438339	0.503536	9.7645
107876840	0.001687	0.091058	3.295448	9.997294	7.031743	9.818130989
90893115	0.000487	0.070995	3.349152	5.705581	2.305642	10.19049178
94126085	0.027932	0.18402	3.359568	4.354852	1.228837	10.26433121
1.01E+08	0.006744	0.12058	3.394359	7.69238	4.277154	10.51486691
6777;4165	0.009413	0.1313	3.482125	3.123793	0	11.1744
1.28E+08	0.002152	0.094928	3.491204	6.758304	3.1632	11.24493601
37483529	1.66E-05	0.015421	3.514779	3.549021	0	11.4302
90905938	0.010711	0.13701	3.514779	3.249195	0.386005	11.4302
35822911	0.002737	0.10008	3.526164	9.878733	6.78747	11.52076118
24351491	0.006519	0.11911	3.561122	6.921229	3.749697	11.80332708
l;3502799;5	0.004305	0.10962	3.571496	7.229836	3.966959	11.88851211
6317;1193	0.000871	0.080556	3.621845	7.08632	3.551838	12.31073142
5060383	0.00107	0.083992	3.654272	8.314636	4.586417	12.59057557
82212815	0.000616	0.076008	3.672935	8.427313	5.044403	12.7545052
78242683	0.026211	0.18024	3.673316	6.818986	2.253703	12.75787605
78373466	0.000362	0.065605	3.811245	3.879639	0	14.0378
.8039;1911	0.000542	0.073353	3.880657	9.61828	5.923114	14.72970839
83534140	0.002933	0.10081	3.932001	10.01108	6.405141	15.2633679
36119844	0.024492	0.17639	4.108218	6.610648	2.693954	17.24633835
84879755	0.00358	0.10464	4.138056	5.712775	1.331494	17.60673963
76323578	0.001609	0.090483	4.149109	6.633084	2.427726	17.74215237
1.19E+08	0.001812	0.091058	4.208685	7.923509	3.506718	18.4901542
82037452	0.012803	0.14304	4.219576	6.510378	2.664079	18.63026616
36273425	0.000225	0.05508	4.22548	9.118241	5.134791	18.70666299
1.2E+08	0.00467	0.11016	4.411129	5.203434	1.513647	21.27562026
92348889	0.000291	0.065605	4.946599	8.199523	3.558719	30.83718969
45615490	0.00459	0.10974	5.060865	6.372275	2.214913	33.37891795
89324730	0.008917	0.13085	5.178001	5.083691	0.603316	36.2021
82260753	0.000454	0.070921	5.222542	5.380143	0.379343	37.3372
1.35E+08	0.002094	0.093854	6.238036	10.34675	4.853272	75.48069739
5881;9248	0.007661	0.12553	6.567913	5.597193	0.386005	94.8722
'0061;1181	6.53E-05	0.034717	6.845255	10.62616	4.03253	114.9812503

Supporting Information Table S2. Gene set e
determined by RNA-Seq analysis.

Gene Set Name	
HALLMARK Gene Sets	TNFA SIGNALING VIA NFKB
	INFLAMMATORY RESPONSE
	APOPTOSIS
	P53 PATHWAY
	IL2 STAT5 SIGNALING
	ALLOGRAFT REJECTION
	COMPLEMENT
	EPITHELIAL MESENCHYMAL TRANSITION
	ESTROGEN RESPONSE EARLY
	HYPOXIA
CURATED Gene Sets	CHEN METABOLIC SYNDROM NETWORK
	YOSHIMURA MAPK8 TARGETS UP
	MEISSNER BRAIN HCP WITH H3K4ME3 AND H3K27ME3
	BENPORATH ES WITH H3K27ME3
	BENPORATH SUZ12 TARGETS
	BENPORATH EED TARGETS
	NABA MATRISOME
	ZWANG TRANSIENTLY UP BY 2ND EGF PULSE ONLY
	WONG ADULT TISSUE STEM MODULE
	DELYS THYROID CANCER UP
	MEMBRANE
	PLASMA MEMBRANE
	MEMBRANE PART
	PLASMA MEMBRANE PART
	INTRINSIC TO MEMBRANE

GO Gene SETS

INTEGRAL TO MEMBRANE

SIGNAL TRANSDUCTION

INTRINSIC TO PLASMA MEMBRANE

INTEGRAL TO PLASMA MEMBRANE

ESTABLISHMENT OF LOCALIZATION

CYTOPLASM

MULTICELLULAR ORGANISMAL
DEVELOPMENT

CELL CELL SIGNALING

EXTRACELLULAR REGION

RECEPTOR ACTIVITY

RESPONSE TO EXTERNAL STIMULUS

ANATOMICAL STRUCTURE
DEVELOPMENT

TRANSPORT

RESPONSE TO STRESS

SYSTEM DEVELOPMENT

enrichments on select Molecular Signatures Databases (MSigDB) collections for genes in response

Description
Genes regulated by NF-kB in response to TNF [GeneID=7124].
Genes defining inflammatory response.
Genes mediating programmed cell death (apoptosis) by activation of caspases.
Genes involved in p53 pathways and networks.
Genes up-regulated by STAT5 in response to IL2 stimulation.
Genes up-regulated during transplant rejection.
Genes encoding components of the complement system, which is part of the innate immune system.
Genes defining epithelial-mesenchymal transition, as in wound healing, fibrosis and metastasis.
Genes defining early response to estrogen.
Genes up-regulated in response to low oxygen levels (hypoxia).
Genes forming the macrophage-enriched metabolic network (MEMN) claimed to have a causal relationship with the metabolic syndrom traits.
Genes up-regulated in vascular smooth muscle cells (VSMC) by MAPK8 (JNK1) [GeneID=5599].
Genes with high-CpG-density promoters (HCP) bearing histone H3 dimethylation at K4 (H3K4me2) and trimethylation at K27 (H3K27me3) in brain.
Set 'H3K27 bound': genes possessing the trimethylated H3K27 (H3K27me3) mark in their promoters in human embryonic stem cells, as identified by ChIP on chip.
Set 'Suz12 targets': genes identified by ChIP on chip as targets of the Polycomb protein SUZ12 [GeneID=23512] in human embryonic stem cells.
Set 'Eed targets': genes identified by ChIP on chip as targets of the Polycomb protein EED [GeneID=8726] in human embryonic stem cells.
Ensemble of genes encoding extracellular matrix and extracellular matrix-associated proteins
Genes transiently induced only by the second pulse of EGF [GeneID =1950] in 184A1 cells (mammary epithelium).
The 'adult tissue stem' module: genes coordinately up-regulated in a compendium of adult tissue stem cells.
Genes up-regulated in papillary thyroid carcinoma (PTC) compared to normal tissue.
GO:0016020. Double layer of lipid molecules that encloses all cells, and, in eukaryotes, many organelles; may be a single or double lipid bilayer; also includes associated proteins.
GO:0005886. The membrane surrounding a cell that separates the cell from its external environment. It consists of a phospholipid bilayer and associated proteins.
GO:0044425. Any constituent part of a membrane, a double layer of lipid molecules that encloses all cells, and, in eukaryotes, many organelles; may be a single or double lipid bilayer; also includes associated proteins.
GO:0044459. Any constituent part of the plasma membrane, the membrane surrounding a cell that separates the cell from its external environment. It consists of a phospholipid bilayer and associated proteins.
GO:0031224. Located in a membrane such that some covalently attached portion of the gene product, for example part of a peptide sequence or some other covalently attached moiety such as a GPI anchor, spans or is embedded in one or both leaflets of the membrane.

GO:0016021. Penetrating at least one phospholipid bilayer of a membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer. When used to describe a protein, indicates that all or part of the peptide sequence is embedded in the membrane.

GO:0007165. The cascade of processes by which a signal interacts with a receptor, causing a change in the level or activity of a second messenger or other downstream target, and ultimately effecting a change in the functioning of the cell.

GO:0031226. Located in the plasma membrane such that some covalently attached portion of the gene product, for example part of a peptide sequence or some other covalently attached moiety such as a GPI anchor, spans or is embedded in one or both leaflets of the membrane.

GO:0005887. Penetrating at least one phospholipid bilayer of a plasma membrane. May also refer to the state of being buried in the bilayer with no exposure outside the bilayer.

GO:0051234. The directed movement of a cell, substance or cellular entity, such as a protein complex or organelle, to a specific location.

GO:0005737. All of the contents of a cell excluding the plasma membrane and nucleus, but including other subcellular structures.

GO:0007275. The biological process whose specific outcome is the progression of an organism over time from an initial condition (e.g. a zygote or a young adult) to a later condition (e.g. a multicellular animal or an aged adult).

GO:0007267. Any process that mediates the transfer of information from one cell to another.

GO:0005576. The space external to the outermost structure of a cell. For cells without external protective or external encapsulating structures this refers to space outside of the plasma membrane. This term covers the host cell environment outside an intracellular parasite.

GO:0004872. Combining with an extracellular or intracellular messenger to initiate a change in cell activity.

GO:0009605. A change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of an external stimulus.

GO:0048856. The biological process whose specific outcome is the progression of an anatomical structure from an initial condition to its mature state. An anatomical structure is any biological entity that occupies space and is distinguished from its surroundings. Anatomical structures can be macroscopic such as a carpel, or microscopic such as an acrosome.

GO:0006810. The directed movement of substances (such as macromolecules, small molecules, ions) into, out of, within or between cells.

GO:0006950. A change in state or activity of a cell or an organism (in terms of movement, secretion, enzyme production, gene expression, etc.) as a result of a stimulus indicating the organism is under stress. The stress is usually, but not necessarily, exogenous (e.g. temperature, humidity, ionizing radiation).

GO:0048731. The process whose specific outcome is the progression of an organismal system over time, from its formation to the mature structure. A system is a regularly interacting or interdependent group of organs or tissues that work together to carry out a given biological process.

se to Sertoli cell-specific *Arid4b* knockout in testes

# Genes	p-value	FDR	q-value
43	1.78E-28	8.88E-27	
34	2.25E-19	5.61E-18	
30	2.01E-18	3.35E-17	
32	1.63E-17	2.03E-16	
28	5.40E-14	5.40E-13	
25	1.54E-11	9.61E-11	
25	1.54E-11	9.61E-11	
25	1.54E-11	9.61E-11	
24	9.25E-11	4.63E-10	
24	9.25E-11	4.63E-10	
144	2.18E-58	1.03E-54	
144	3.04E-54	7.18E-51	
125	9.75E-50	1.54E-46	
118	2.15E-42	2.54E-39	
104	2.11E-35	1.99E-32	
104	1.52E-34	1.20E-31	
102	2.27E-34	1.54E-31	
131	5.26E-32	3.11E-29	
82	6.96E-32	3.65E-29	
63	3.46E-30	1.63E-27	
153	5.66E-38	8.23E-35	
124	5.96E-36	4.33E-33	
131	2.09E-33	1.01E-30	
105	5.29E-32	1.66E-29	
114	5.72E-32	1.66E-29	

112	2.99E-31	7.25E-29
125	7.73E-31	1.60E-28
93	1.56E-29	2.83E-27
91	1.13E-28	1.83E-26
72	5.91E-20	8.59E-18
122	2.62E-19	3.46E-17
78	8.71E-19	1.06E-16
46	2.02E-18	2.26E-16
48	4.04E-18	4.20E-16
55	5.24E-18	4.78E-16
40	5.26E-18	4.78E-16
74	1.84E-17	1.58E-15
63	1.07E-16	8.60E-15
48	6.56E-16	5.02E-14
63	4.48E-15	3.26E-13

Supporting Information Table S3. ARID4B-binding target genes by ChIP-Seq analysis with the a

Gene ID	Gene Name	some	Gene Start	Gene End	Gene Length	Gen Interva
GeneID:497097	Xkr4	1	3,214,482	3,671,498	457,016 -	1
GeneID:10003843	Gm10568	1	3,680,155	3,681,788	1,633 +	1
GeneID:27395	Mrpl15	1	4,773,198	4,785,726	12,528 -	1
GeneID:108664	Atp6v1h	1	5,083,173	5,162,549	79,376 +	1
GeneID:226304	Npbwr1	1	5,913,707	5,917,398	3,691 -	1
GeneID:12421	Rb1cc1	1	6,214,662	6,276,104	61,442 +	1
GeneID:59014	Rrs1	1	9,545,408	9,547,455	2,047 +	1
GeneID:76187	Adhfe1	1	9,548,046	9,577,968	29,922 +	1
GeneID:17864	Mybl1	1	9,668,831	9,700,209	31,378 -	1
GeneID:70675	Vcpip1	1	9,723,192	9,748,382	25,190 -	1
GeneID:73331	1700034P13Rik	1	9,747,648	9,771,256	23,608 +	1
GeneID:240697	Mcm dc2	1	9,908,638	9,940,954	32,316 +	1
GeneID:73824	Snhg6	1	9,942,025	9,944,118	2,093 -	1
GeneID:266793	Snord87	1	9,942,470	9,942,543	73 -	1
GeneID:10003839	Gm10567	1	9,960,164	9,962,809	2,645 -	1
GeneID:10003959	Tcf24	1	9,963,408	9,967,485	4,077 -	1
GeneID:69312	Ppp1r42	1	9,968,624	10,009,130	40,506 -	1
GeneID:26754	Cops5	1	10,024,830	10,037,898	13,068 -	1
GeneID:211660	Cspp1	1	10,038,218	10,136,768	98,550 +	1
GeneID:211673	Arfgef1	1	10,137,507	10,232,670	95,163 -	1
GeneID:109294	Prex2	1	10,993,465	11,303,682	310,217 +	1
GeneID:17978	Ncoa2	1	13,139,159	13,374,083	234,924 -	2
GeneID:14048	Eya1	1	14,168,958	14,310,199	141,241 -	1
GeneID:226866	Sbspon	1	15,853,862	15,892,722	38,860 -	1
GeneID:19989	Rpl7	1	16,101,295	16,104,433	3,138 -	1
GeneID:98711	Rdh10	1	16,105,882	16,132,550	26,668 +	1
GeneID:66799	Ube2w	1	16,540,788	16,619,338	78,550 -	1
GeneID:57339	Jph1	1	16,994,938	17,097,889	102,951 -	1
GeneID:17215	Mcm3	1	20,803,014	20,820,213	17,199 -	1
GeneID:170829	Tram2	1	21,001,397	21,079,225	77,828 -	1
GeneID:280645	B3gat2	1	23,761,926	23,847,865	85,939 +	1
GeneID:68187	Fam135a	1	24,010,758	24,100,341	89,583 -	1
GeneID:12823	Col19a1	1	24,257,683	24,587,437	329,754 -	1
GeneID:19243	Ptp4a1	1	30,940,303	30,949,755	9,452 -	1
GeneID:19076	Prim2	1	33,453,811	33,669,758	215,947 -	1
GeneID:67503	1700001G17Rik	1	33,669,824	33,670,712	888 +	1
GeneID:213539	Bag2	1	33,745,484	33,757,750	12,266 -	1
GeneID:98403	Zfp451	1	33,761,753	33,814,427	52,674 -	2
GeneID:226970	Arhgef4	1	34,801,722	34,812,754	11,032 +	1
GeneID:50785	Hs6st1	1	36,068,400	36,106,446	38,046 +	2
GeneID:214855	Arid5a	1	36,307,733	36,324,029	16,296 +	1
GeneID:226976	Kansl3	1	36,335,730	36,369,181	33,451 -	1
GeneID:94220	Cnm4	1	36,471,597	36,508,776	37,179 +	2

GenelD:94218	Cnm3	1	36,511,876	36,528,237	16,361 +	2
GenelD:109346	Ankrd39	1	36,538,173	36,547,201	9,028 -	2
GenelD:20353	Sema4c	1	36,548,642	36,558,381	9,739 -	2
GenelD:381337	Fam178b	1	36,562,696	36,683,183	120,487 -	3
GenelD:12859	Cox5b	1	36,691,487	36,693,388	1,901 +	1
GenelD:226977	Actr1b	1	36,699,202	36,709,925	10,723 -	1
GenelD:56030	Tmem131	1	36,792,189	36,939,527	147,338 -	1
GenelD:269180	Inpp4a	1	37,299,893	37,410,736	110,843 +	1
GenelD:76178	Coa5	1	37,417,085	37,430,103	13,018 -	1
GenelD:67387	Unc50	1	37,430,172	37,439,124	8,952 +	1
GenelD:269181	Mgat4a	1	37,439,340	37,536,259	96,919 -	1
GenelD:98258	Txndc9	1	37,983,867	37,997,208	13,341 -	1
GenelD:226982	Eif5b	1	37,998,010	38,055,579	57,569 +	1
GenelD:56210	Rev1	1	38,052,786	38,129,662	76,876 -	1
GenelD:16764	Aff3	1	38,177,327	38,664,955	487,628 -	1
GenelD:68833	Pdcl3	1	38,987,814	38,997,236	9,422 +	1
GenelD:18143	Npas2	1	39,194,272	39,363,240	168,968 +	1
GenelD:114641	Rpl31	1	39,367,851	39,371,911	4,060 +	1
GenelD:54610	Tbc1d8	1	39,371,495	39,478,747	107,252 -	2
GenelD:26921	Map4k4	1	39,900,913	40,026,310	125,397 +	1
GenelD:69527	Mrps9	1	42,851,233	42,905,683	54,450 +	1
GenelD:14200	Fhl2	1	43,123,074	43,163,961	40,887 -	1
GenelD:17974	Nck2	1	43,445,751	43,570,518	124,767 +	1
GenelD:75623	Tex30	1	44,086,617	44,102,388	15,771 -	1
GenelD:72050	Kdelc1	1	44,106,546	44,118,773	12,227 -	1
GenelD:246229	Bivm	1	44,119,968	44,144,771	24,803 +	1
GenelD:22592	Ercc5	1	44,147,744	44,181,260	33,516 +	1
GenelD:17912	Myo1b	1	51,749,765	51,915,974	166,209 -	1
GenelD:14660	Gls	1	52,163,449	52,233,232	69,783 -	1
GenelD:227094	Tmem194b	1	52,630,705	52,651,919	21,214 +	1
GenelD:98267	Stk17b	1	53,755,512	53,785,215	29,703 -	1
GenelD:329154	Ankrd44	1	54,645,340	54,926,387	281,047 -	1
GenelD:81898	Sf3b1	1	54,985,169	55,027,478	42,309 -	1
GenelD:67876	Coq10b	1	55,052,770	55,072,702	19,932 +	1
GenelD:15510	Hspd1	1	55,077,834	55,087,932	10,098 -	1
GenelD:15528	Hspe1	1	55,088,148	55,091,317	3,169 +	1
GenelD:19070	Mob4	1	55,131,245	55,154,899	23,654 +	1
GenelD:628004	Gm10561	1	55,226,298	55,235,106	8,808 +	1
GenelD:212679	Mars2	1	55,237,177	55,240,058	2,881 +	1
GenelD:227120	Plcl1	1	55,405,946	55,754,285	348,339 +	1
GenelD:212712	Satb2	1	56,793,981	56,971,334	177,353 -	1
GenelD:329160	9130024F11Rik	1	56,971,469	56,975,196	3,727 +	1
GenelD:75323	4930558J18Rik	1	57,359,222	57,377,544	18,322 -	1
GenelD:73467	1700066M21Rik	1	57,377,620	57,385,423	7,803 +	1
GenelD:68736	Tyw5	1	57,388,244	57,406,674	18,430 -	2
GenelD:68115	9430016H08Rik	1	57,406,548	57,415,958	9,410 +	1
GenelD:67198	Spats2l	1	57,774,861	57,948,397	173,536 +	1

GenelD:51960	Kctd18	1	57,955,101	57,970,084	14,983 -	1
GenelD:68549	Sgol2	1	57,985,340	58,026,277	40,937 +	1
GenelD:628262	Gm6860	1	58,388,767	58,388,990	223 -	1
GenelD:66882	Bzw1	1	58,393,136	58,406,548	13,412 +	1
GenelD:12747	Clk1	1	58,411,988	58,424,088	12,100 -	1
GenelD:70225	Ppil3	1	58,430,993	58,445,486	14,493 -	1
GenelD:18393	Orc2	1	58,462,771	58,504,919	42,148 -	1
GenelD:10050445	Gm15834	1	58,505,148	58,512,616	7,468 +	1
GenelD:12633	Cflar	1	58,713,286	58,758,884	45,598 +	1
GenelD:70827	Trak2	1	58,900,450	58,973,482	73,032 -	1
GenelD:227154	Stradb	1	58,973,571	58,995,122	21,551 +	1
GenelD:74018	Als2	1	59,162,756	59,237,231	74,475 -	1
GenelD:14369	Fzd7	1	59,482,147	59,486,955	4,808 +	1
GenelD:22218	Sumo1	1	59,639,434	59,670,834	31,400 -	1
GenelD:55989	Nop58	1	59,685,006	59,711,510	26,504 +	1
GenelD:10021745	Snord70	1	59,691,958	59,692,010	52 +	1
GenelD:12168	Bmpr2	1	59,764,637	59,870,859	106,222 +	1
GenelD:72750	Fam117b	1	59,913,006	59,985,346	72,340 +	1
GenelD:77300	Raph1	1	60,483,185	60,566,765	83,580 -	1
GenelD:72823	Pard3b	1	61,638,824	62,642,284	1,003,460 +	1
GenelD:18187	Nrp2	1	62,703,317	62,818,692	115,375 +	2
GenelD:227197	Ndufs1	1	63,143,592	63,176,822	33,230 -	1
GenelD:55949	Eef1b2	1	63,176,831	63,180,486	3,655 +	1
GenelD:10021746	Snora41	1	63,179,023	63,179,135	112 +	1
GenelD:241070	Gpr1	1	63,182,691	63,214,209	31,518 -	1
GenelD:73884	Zdbf2	1	63,273,269	63,314,575	41,306 +	1
GenelD:93691	Klf7	1	64,035,663	64,121,389	85,726 -	1
GenelD:12912	Creb1	1	64,532,804	64,604,548	71,744 +	1
GenelD:67099	Mettl21a	1	64,606,480	64,617,168	10,688 -	1
GenelD:69941	2810408I11Rik	1	64,679,869	64,690,659	10,790 -	1
GenelD:227210	Ccnyl1	1	64,691,345	64,725,644	34,299 +	2
GenelD:14367	Fzd5	1	64,730,558	64,737,750	7,192 -	1
GenelD:15926	ldh1	1	65,158,616	65,186,479	27,863 -	2
GenelD:18711	Pikfyve	1	65,186,685	65,278,696	92,011 +	2
GenelD:12021	Bard1	1	71,027,535	71,102,972	75,437 -	1
GenelD:108147	Atic	1	71,557,156	71,579,403	22,247 +	1
GenelD:14268	Fn1	1	71,585,523	71,653,171	67,648 -	1
GenelD:10004281	Apol7d	1	71,653,335	71,662,843	9,508 +	1
GenelD:19981	Rpl37a	1	72,711,260	72,713,813	2,553 +	1
GenelD:16008	Igfbp2	1	72,824,480	72,852,474	27,994 +	1
GenelD:16011	Igfbp5	1	72,858,065	72,874,865	16,800 -	1
GenelD:21961	Tns1	1	73,910,231	74,124,447	214,216 -	2
GenelD:435626	Rufy4	1	74,125,541	74,148,230	22,689 +	1
GenelD:76709	Arpc2	1	74,236,550	74,268,213	31,663 +	1
GenelD:56695	Pnkd	1	74,285,034	74,353,692	68,658 +	1
GenelD:69660	Tmbim1	1	74,288,247	74,304,336	16,089 -	1
GenelD:10105581	LOC101055811	1	74,295,592	74,297,905	2,313 +	1

GenelD:18173	Slc11a1	1	74,375,203	74,386,051	10,848 +	2
GenelD:227292	Ctdsp1	1	74,391,609	74,397,285	5,676 +	2
GenelD:387219	Mir26b	1	74,394,310	74,394,394	84 +	2
GenelD:319651	Usp37	1	74,435,510	74,544,286	108,776 -	1
GenelD:58184	Rqcd1	1	74,506,060	74,530,842	24,782 +	1
GenelD:66821	Bcs1l	1	74,588,361	74,592,443	4,082 +	1
GenelD:57751	Rnf25	1	74,593,752	74,601,397	7,645 -	1
GenelD:269209	Stk36	1	74,601,455	74,636,894	35,439 +	1
GenelD:104086	Cyp27a1	1	74,713,574	74,737,890	24,316 +	1
GenelD:16147	lhh	1	74,945,318	74,951,651	6,333 -	1
GenelD:22626	Slc23a3	1	75,125,541	75,133,890	8,349 -	1
GenelD:69171	Cnppd1	1	75,135,215	75,142,368	7,153 -	1
GenelD:227298	Fam134a	1	75,142,786	75,147,909	5,123 +	1
GenelD:68818	Zfand2b	1	75,168,646	75,171,626	2,980 +	1
GenelD:74104	Abcb6	1	75,171,640	75,180,283	8,643 -	1
GenelD:245860	Atg9a	1	75,180,866	75,191,923	11,057 -	1
GenelD:74577	Glb1l	1	75,198,235	75,210,778	12,543 -	1
GenelD:20872	Stk16	1	75,210,829	75,215,606	4,777 +	1
GenelD:22145	Tuba4a	1	75,214,974	75,219,253	4,279 -	1
GenelD:381272	A630095N17Rik	1	75,220,095	75,232,093	11,998 -	2
GenelD:56812	Dnajb2	1	75,236,423	75,245,692	9,269 +	1
GenelD:19275	Ptpn	1	75,247,041	75,264,208	17,167 -	1
GenelD:13346	Des	1	75,360,344	75,367,716	7,372 +	1
GenelD:10050324	Gm15179	1	75,368,210	75,375,015	6,805 -	2
GenelD:11790	Speg	1	75,375,297	75,432,314	57,017 +	1
GenelD:241118	Asic4	1	75,450,510	75,474,340	23,830 +	3
GenelD:74241	Chpf	1	75,474,569	75,479,471	4,902 -	3
GenelD:319998	Tmem198	1	75,479,532	75,485,693	6,161 +	3
GenelD:98733	Obsl1	1	75,485,825	75,506,452	20,627 -	6
GenelD:16322	Inha	1	75,507,077	75,510,354	3,277 +	3
GenelD:71728	Stk11ip	1	75,521,529	75,537,335	15,806 +	1
GenelD:20536	Slc4a3	1	75,546,266	75,559,431	13,165 +	1
GenelD:10003921	Gm2102	1	78,216,589	78,218,285	1,696 -	1
GenelD:195434	Utp14b	1	78,657,825	78,667,601	9,776 +	1
GenelD:74205	Acsl3	1	78,657,825	78,707,743	49,918 +	1
GenelD:252903	Ap1s3	1	79,606,876	79,671,972	65,096 -	1
GenelD:69368	Wdfy1	1	79,702,262	79,761,769	59,507 -	1
GenelD:10003869	Gm10555	1	79,762,717	79,764,507	1,790 +	1
GenelD:69163	Mrpl44	1	79,776,018	79,781,445	5,427 +	1
GenelD:20720	Serpine2	1	79,794,321	79,858,665	64,344 -	1
GenelD:210293	Dock10	1	80,501,073	80,758,553	257,480 -	1
GenelD:16367	Irs1	1	82,233,105	82,291,439	58,334 -	1
GenelD:10050307	Gm19537	1	82,282,210	82,285,248	3,038 -	1
GenelD:15463	Agfg1	1	82,839,483	82,896,275	56,792 +	1
GenelD:14897	Trip12	1	84,721,189	84,839,304	118,115 -	1
GenelD:66153	Fbxo36	1	84,839,841	84,900,486	60,645 +	1
GenelD:12283	Cab39	1	85,793,447	85,851,577	58,130 +	1

GenelD:72792	2810459M11Rik	1	86,045,863	86,055,456	9,593 +	2
GenelD:70247	Psmc1	1	86,064,619	86,139,295	74,676 +	1
GenelD:17975	Ncl	1	86,344,719	86,359,455	14,736 -	1
GenelD:10030374	Snora75	1	86,351,170	86,351,285	115 -	1
GenelD:80828	Snord82	1	86,356,260	86,356,327	67 -	1
GenelD:319336	C130036L24Rik	1	86,359,574	86,367,964	8,390 +	1
GenelD:19231	Ptma	1	86,526,736	86,530,698	3,962 +	1
GenelD:18159	Nppc	1	86,666,293	86,670,573	4,280 -	1
GenelD:98363	Efh1	1	87,264,364	87,310,791	46,427 +	1
GenelD:227331	Gigyf2	1	87,326,998	87,450,810	123,812 +	1
GenelD:77040	Atg16l1	1	87,756,011	87,792,428	36,417 +	1
GenelD:227334	Usp40	1	87,945,121	88,008,551	63,430 -	1
GenelD:320982	Arl4c	1	88,698,225	88,702,191	3,966 -	1
GenelD:98402	Sh3bp4	1	89,070,462	89,153,793	83,331 +	1
GenelD:347722	Agap1	1	89,454,811	89,895,282	440,471 +	2
GenelD:14472	Gbx2	1	89,927,962	89,931,176	3,214 -	1
GenelD:108679	Cops8	1	90,603,425	90,613,341	9,916 +	1
GenelD:16978	Lrrfip1	1	90,998,727	91,128,944	130,217 +	1
GenelD:67921	Ube2f	1	91,250,319	91,286,025	35,706 +	1
GenelD:227357	Espnl	1	91,322,075	91,348,303	26,228 +	1
GenelD:70788	Klhl30	1	91,351,073	91,362,404	11,331 +	2
GenelD:227358	Fam132b	1	91,366,430	91,374,217	7,787 +	1
GenelD:67444	Ilkap	1	91,375,831	91,398,783	22,952 -	2
GenelD:67086	1700020N18Rik	1	91,404,879	91,406,029	1,150 -	2
GenelD:55927	Hes6	1	91,411,483	91,413,222	1,739 -	1
GenelD:18627	Per2	1	91,415,982	91,459,328	43,346 -	2
GenelD:74019	Traf3ip1	1	91,494,668	91,529,307	34,639 +	1
GenelD:13345	Twist2	1	91,801,477	91,848,027	46,550 +	1
GenelD:67273	Ndufa10	1	92,439,708	92,473,758	34,050 -	1
GenelD:259040	Olfr1416	1	92,479,681	92,480,619	938 -	1
GenelD:66915	Myeov2	1	92,637,145	92,641,985	4,840 -	1
GenelD:260301	Otos	1	92,644,218	92,648,841	4,623 -	1
GenelD:14733	Gpc1	1	92,831,686	92,860,196	28,510 +	1
GenelD:241158	Ankmy1	1	92,870,129	92,902,906	32,777 -	2
GenelD:67446	Dusp28	1	92,906,989	92,908,620	1,631 +	2
GenelD:108657	Rnpepl1	1	92,910,825	92,920,585	9,760 +	2
GenelD:381284	E030010N08Rik	1	93,168,725	93,231,072	62,347 +	2
GenelD:208777	Sned1	1	93,235,897	93,296,448	60,551 +	1
GenelD:269224	Pask	1	93,309,437	93,342,788	33,351 -	1
GenelD:66385	Ppp1r7	1	93,343,645	93,367,618	23,973 +	1
GenelD:110611	Hdlbp	1	93,405,940	93,478,808	72,868 -	2
GenelD:18000	Sept2	1	93,478,993	93,509,733	30,740 +	1
GenelD:59041	Stk25	1	93,620,751	93,635,727	14,976 -	1
GenelD:51800	Bok	1	93,685,694	93,695,762	10,068 +	1
GenelD:67026	Thap4	1	93,705,391	93,754,838	49,447 -	1
GenelD:66615	Atg4b	1	93,755,033	93,789,529	34,496 +	1
GenelD:21915	Dtymk	1	93,792,576	93,801,934	9,358 -	2

GenelD:66262	Ing5	1	93,803,965	93,822,101	18,136 +	2
GenelD:67698	Fam174a	1	95,313,628	95,335,284	21,656 +	1
GenelD:52392	D1Ertd622e	1	97,643,902	97,662,018	18,116 -	1
GenelD:27392	Pign	1	105,518,422	105,663,676	145,254 -	1
GenelD:227446	2310035C23Rik	1	105,663,861	105,755,131	91,270 +	1
GenelD:635504	Gm7160	1	105,979,350	105,990,276	10,926 -	1
GenelD:227449	Zcchc2	1	105,990,406	106,034,077	43,671 +	1
GenelD:626049	Gm20753	1	106,152,625	106,171,524	18,899 -	2
GenelD:98432	Phlpp1	1	106,171,869	106,394,245	222,376 +	2
GenelD:20479	Vps4b	1	106,770,788	106,796,725	25,937 -	1
GenelD:319901	Dsel	1	111,858,702	111,864,918	6,216 -	1
GenelD:22099	Tsn	1	118,298,517	118,311,132	12,615 -	1
GenelD:14633	Gli2	1	118,834,061	119,053,619	219,558 -	2
GenelD:16324	Inhbb	1	119,415,465	119,422,248	6,783 -	3
GenelD:64143	Ralb	1	119,470,305	119,504,782	34,477 -	1
GenelD:226351	Tmem185b	1	119,526,154	119,528,983	2,829 +	1
GenelD:226352	Epb4.115	1	119,545,033	119,649,000	103,967 -	1
GenelD:19258	Ptpn4	1	119,658,092	119,837,071	178,979 -	1
GenelD:66942	Ddx18	1	121,553,835	121,567,980	14,145 -	1
GenelD:74117	Actr3	1	125,392,905	125,435,727	42,822 -	1
GenelD:74150	Slc35f5	1	125,561,016	125,595,684	34,668 +	1
GenelD:72585	Lypd1	1	125,872,039	125,912,214	40,175 -	1
GenelD:210356	Nckap5	1	125,913,636	126,830,632	916,996 -	1
GenelD:107895	Mgat5	1	127,204,986	127,482,972	277,986 +	1
GenelD:226409	Zranb3	1	127,954,186	128,102,408	148,222 -	1
GenelD:226412	R3hdm1	1	128,103,306	128,237,735	134,429 +	2
GenelD:67812	Ubxn4	1	128,244,181	128,279,377	35,196 +	1
GenelD:17219	Mcm6	1	128,331,591	128,359,656	28,065 -	1
GenelD:226414	Dars	1	128,363,707	128,417,416	53,709 -	1
GenelD:18640	Pfkfb2	1	130,689,043	130,729,253	40,210 -	1
GenelD:226418	Yod1	1	130,717,327	130,722,073	4,746 +	1
GenelD:17164	Mapkapk2	1	131,053,704	131,097,543	43,839 -	1
GenelD:226419	Dyrk3	1	131,128,441	131,138,234	9,793 -	1
GenelD:54354	Rassf5	1	131,176,410	131,245,178	68,768 -	1
GenelD:56489	Ikbke	1	131,254,602	131,279,563	24,961 -	1
GenelD:14270	Srgap2	1	131,285,251	131,527,361	242,110 -	2
GenelD:108900	Fam72a	1	131,527,989	131,539,872	11,883 +	2
GenelD:98415	Nucks1	1	131,910,458	131,936,321	25,863 +	1
GenelD:13714	Elk4	1	132,007,605	132,025,684	18,079 +	1
GenelD:213417	Klhdc8a	1	132,298,626	132,307,357	8,731 +	2
GenelD:74137	Nuak2	1	132,316,125	132,333,488	17,363 +	1
GenelD:68875	Tmcc2	1	132,356,315	132,391,281	34,966 -	1
GenelD:213452	Dstyk	1	132,417,453	132,466,959	49,506 +	1
GenelD:16980	Lrrn2	1	132,880,355	132,940,005	59,650 +	1
GenelD:240752	Pik3c2b	1	133,046,012	133,108,688	62,676 +	1
GenelD:108954	Ppp1r15b	1	133,131,166	133,139,800	8,634 +	1
GenelD:68338	Golt1a	1	133,309,823	133,323,026	13,203 +	1

GenelD:280287	Kiss1	1	133,327,212	133,329,722	2,510 +	1
GenelD:19701	Ren1	1	133,350,674	133,360,320	9,646 +	1
GenelD:214253	Etnk2	1	133,363,572	133,380,318	16,746 +	1
GenelD:20668	Sox13	1	133,382,300	133,424,212	41,912 -	1
GenelD:20643	Snrpe	1	133,603,871	133,610,280	6,409 -	1
GenelD:70579	Zc3h11a	1	133,619,871	133,661,380	41,509 -	1
GenelD:12227	Btg2	1	134,074,865	134,079,155	4,290 -	1
GenelD:72017	Cyb5r1	1	134,405,990	134,411,738	5,748 +	1
GenelD:72674	Adipor1	1	134,415,467	134,432,341	16,874 +	1
GenelD:240756	Klhl12	1	134,455,555	134,490,873	35,318 +	2
GenelD:98710	Rabif	1	134,494,660	134,507,885	13,225 +	1
GenelD:71001	4931440L10Rik	1	134,540,945	134,547,022	6,077 -	1
GenelD:75605	Kdm5b	1	134,560,178	134,632,878	72,700 +	2
GenelD:329251	Ppp1r12b	1	134,765,943	134,955,940	189,997 -	1
GenelD:67196	Ube2t	1	134,962,577	134,974,137	11,560 +	1
GenelD:329252	Lgr6	1	134,986,353	135,105,276	118,923 -	1
GenelD:320139	Ptpn7	1	135,132,725	135,145,320	12,595 +	1
GenelD:68724	Arl8a	1	135,146,834	135,156,268	9,434 +	1
GenelD:215615	Rnpep	1	135,262,699	135,284,084	21,385 -	1
GenelD:93689	Lmod1	1	135,324,813	135,368,065	43,252 +	1
GenelD:77552	Shisa4	1	135,371,456	135,375,063	3,607 -	1
GenelD:226432	Ipo9	1	135,382,315	135,430,491	48,176 -	1
GenelD:215690	Nav1	1	135,434,580	135,585,355	150,775 -	2
GenelD:215714	Gm4793	1	135,584,773	135,599,950	15,177 +	2
GenelD:10105601	LOC101056010	1	135,606,447	135,688,105	81,658 -	1
GenelD:27280	Phlda3	1	135,766,085	135,769,134	3,049 +	1
GenelD:329253	Gm15850	1	136,127,719	136,131,183	3,464 -	1
GenelD:16565	Kif21b	1	136,131,401	136,178,014	46,613 +	1
GenelD:67886	Camsap2	1	136,268,123	136,346,104	77,981 -	1
GenelD:320054	9230116N13Rik	1	136,411,916	136,415,519	3,603 -	1
GenelD:67997	Ddx59	1	136,415,271	136,440,220	24,949 +	1
GenelD:381293	Kif14	1	136,467,958	136,531,511	63,553 +	1
GenelD:26424	Nr5a2	1	136,843,584	136,960,448	116,864 -	1
GenelD:59125	Nek7	1	138,484,714	138,619,696	134,982 -	1
GenelD:16876	Lhx9	1	138,825,186	138,847,579	22,393 -	2
GenelD:69549	2310009B15Rik	1	138,851,979	138,856,854	4,875 -	1
GenelD:226470	Zbtb41	1	139,422,383	139,453,007	30,624 +	2
GenelD:12316	Aspm	1	139,454,773	139,494,088	39,315 +	1
GenelD:214498	Cdc73	1	143,607,499	143,702,684	95,185 -	1
GenelD:69367	Glr2	1	143,739,349	143,749,678	10,329 +	1
GenelD:545370	Hmnc1	1	150,562,500	150,993,435	430,935 -	1
GenelD:117198	Ivns1abp	1	151,344,498	151,364,445	19,947 +	1
GenelD:63913	Fam129a	1	151,571,373	151,719,347	147,974 +	1
GenelD:66967	Edem3	1	151,755,374	151,822,328	66,954 +	1
GenelD:69399	1700025G04Rik	1	151,884,524	152,090,320	205,796 -	1
GenelD:66637	Tsen15	1	152,370,735	152,386,682	15,947 -	1
GenelD:269132	Colgalt2	1	152,399,867	152,510,695	110,828 +	1

GenelD:71281	Apobec4	1	152,750,551	152,757,544	6,993 +	1
GenelD:67771	Arpc5	1	152,766,542	152,775,580	9,038 +	1
GenelD:226517	Smg7	1	152,836,995	152,902,646	65,651 -	2
GenelD:226519	Lamc1	1	153,218,922	153,332,786	113,864 -	1
GenelD:71836	Shcbp1l	1	153,425,209	153,452,574	27,365 +	1
GenelD:13211	Dhx9	1	153,455,758	153,487,660	31,902 -	1
GenelD:240819	Teddm1	1	153,891,646	153,893,060	1,414 +	1
GenelD:14645	Glul	1	153,899,945	153,909,714	9,769 +	1
GenelD:10050335	Zfp648	1	154,201,187	154,205,674	4,487 +	1
GenelD:15939	Ier5	1	155,096,367	155,099,636	3,269 -	1
GenelD:207792	BC034090	1	155,212,471	155,242,320	29,849 -	1
GenelD:19775	Xpr1	1	155,275,657	155,417,444	141,787 -	1
GenelD:16872	Lhx4	1	155,701,692	155,742,027	40,335 -	1
GenelD:104009	Qsox1	1	155,778,155	155,812,899	34,744 -	1
GenelD:74081	Cep350	1	155,844,964	155,973,255	128,291 -	1
GenelD:208263	Tor1aip1	1	156,004,599	156,036,480	31,881 -	1
GenelD:240832	Tor1aip2	1	156,035,664	156,068,861	33,197 +	1
GenelD:11352	Abl2	1	156,558,787	156,649,619	90,832 +	2
GenelD:215015	Fam20b	1	156,678,571	156,718,910	40,339 -	1
GenelD:226525	Rasal2	1	157,135,183	157,412,595	277,412 -	1
GenelD:69953	2810025M15Rik	1	157,412,352	157,420,236	7,884 +	1
GenelD:12301	Cacybp	1	160,202,367	160,212,892	10,525 -	1
GenelD:29809	Rabgap1l	1	160,219,174	160,792,938	573,764 -	2
GenelD:381305	Rc3h1	1	160,906,411	160,974,976	68,565 +	1
GenelD:240869	Zbtb37	1	161,017,756	161,034,259	16,503 -	1
GenelD:14455	Gas5	1	161,035,166	161,038,537	3,371 +	1
GenelD:10062858	Mir5117	1	161,037,353	161,037,443	90 +	1
GenelD:10021744	Snord47	1	161,038,092	161,038,156	64 +	1
GenelD:226539	Dars2	1	161,040,613	161,070,632	30,019 -	1
GenelD:53330	Vamp4	1	162,570,828	162,599,078	28,250 +	1
GenelD:226562	Prrc2c	1	162,671,785	162,740,556	68,771 -	1
GenelD:240880	Scyl3	1	163,930,064	163,955,126	25,062 +	1
GenelD:116914	Slc19a2	1	164,249,055	164,265,369	16,314 +	1
GenelD:11931	Atp1b1	1	164,437,267	164,458,355	21,088 -	1
GenelD:226591	Tiprl	1	165,212,286	165,236,958	24,672 -	1
GenelD:68481	Mpzl1	1	165,592,181	165,634,541	42,360 -	2
GenelD:226594	Rcsd1	1	165,648,945	165,708,094	59,149 -	2
GenelD:18986	Pou2f1	1	165,865,154	166,002,634	137,480 -	2
GenelD:71592	Pogk	1	166,393,610	166,409,828	16,218 -	1
GenelD:80914	Uck2	1	167,226,083	167,285,127	59,044 -	1
GenelD:68944	Tmco1	1	167,308,670	167,333,978	25,308 +	1
GenelD:107652	Uap1	1	170,142,003	170,174,946	32,943 -	1
GenelD:70729	Nos1ap	1	170,317,496	170,589,849	272,353 -	1
GenelD:226641	Atf6	1	170,704,457	170,867,771	163,314 -	1
GenelD:80915	Dusp12	1	170,874,188	170,885,540	11,352 -	2
GenelD:19044	Ppox	1	171,276,992	171,281,186	4,194 -	1
GenelD:30941	Usp21	1	171,281,949	171,287,961	6,012 -	1

GenelD:66155	Ufc1	1	171,288,564	171,294,982	6,418 -	1
GenelD:21945	Dedd	1	171,329,145	171,342,501	13,356 +	1
GenelD:27045	Nit1	1	171,342,237	171,345,645	3,408 -	1
GenelD:18637	Pfdn2	1	171,345,699	171,358,170	12,471 +	1
GenelD:226652	Arhgap30	1	171,388,960	171,410,240	21,280 +	1
GenelD:22278	Usf1	1	171,411,681	171,418,743	7,062 +	1
GenelD:226654	Tstd1	1	171,419,033	171,420,352	1,319 +	1
GenelD:56009	Alyref2	1	171,503,478	171,504,750	1,272 +	1
GenelD:93840	Vangl2	1	172,004,371	172,027,268	22,897 -	1
GenelD:59287	Ncstn	1	172,066,013	172,082,749	16,736 -	1
GenelD:12847	Copa	1	172,082,529	172,122,332	39,803 +	1
GenelD:98193	Dcaf8	1	172,148,015	172,196,393	48,378 +	1
GenelD:140559	Igsf8	1	172,312,407	172,319,837	7,430 +	2
GenelD:16524	Kcnj9	1	172,321,033	172,329,263	8,230 -	2
GenelD:16513	Kcnj10	1	172,341,210	172,374,085	32,875 +	1
GenelD:67556	Pigm	1	172,376,531	172,384,099	7,568 +	1
GenelD:93842	Igsf9	1	172,482,213	172,498,877	16,664 +	1
GenelD:21346	Tagln2	1	172,500,246	172,507,375	7,129 +	1
GenelD:240916	Vsig8	1	172,555,938	172,563,717	7,779 +	1
GenelD:68440	Dusp23	1	172,630,769	172,632,974	2,205 -	1
GenelD:24012	Rgs7	1	175,059,076	175,492,545	433,469 -	1
GenelD:13603	Opn3	1	175,662,427	175,692,590	30,163 -	1
GenelD:12663	Chml	1	175,682,237	175,688,353	6,116 -	1
GenelD:75820	Wdr64	1	175,698,593	175,815,734	117,141 +	1
GenelD:26909	Exo1	1	175,880,778	175,911,396	30,618 +	1
GenelD:23797	Akt3	1	177,022,115	177,248,767	226,652 -	1
GenelD:11566	Adss	1	177,763,178	177,796,509	33,331 -	1
GenelD:320110	B230369F24Rik	1	178,315,033	178,315,459	426 -	1
GenelD:66359	Cox20	1	178,319,153	178,322,693	3,540 +	1
GenelD:51810	Hnrnpu	1	178,328,300	178,337,784	9,484 -	2
GenelD:68226	Efcab2	1	178,405,881	178,483,250	77,369 +	1
GenelD:269152	Kif26b	1	178,529,125	178,932,857	403,732 +	2
GenelD:15278	Tfb2m	1	179,528,056	179,546,267	18,211 -	1
GenelD:226744	Cnst	1	179,546,529	179,627,473	80,944 +	1
GenelD:109232	Sccpdh	1	179,668,231	179,687,184	18,953 +	1
GenelD:226747	Ahctf1	1	179,744,904	179,804,015	59,111 -	1
GenelD:19165	Psen2	1	180,227,004	180,256,300	29,296 -	1
GenelD:320404	Itpkb	1	180,330,476	180,423,659	93,183 +	2
GenelD:381310	6330403A02Rik	1	180,432,373	180,483,504	51,131 -	1
GenelD:11545	Parp1	1	180,568,975	180,601,254	32,279 +	1
GenelD:72568	Lin9	1	180,641,334	180,690,687	49,353 +	3
GenelD:27217	Mixl1	1	180,693,043	180,697,034	3,991 -	1
GenelD:170760	Acbd3	1	180,726,043	180,754,204	28,161 +	1
GenelD:15078	H3f3a	1	180,802,568	180,813,603	11,035 -	1
GenelD:10105593	LOC101055935	1	180,803,510	180,808,760	5,250 -	1
GenelD:320202	Lefty2	1	180,893,119	180,899,103	5,984 +	1
GenelD:69051	Pycr2	1	180,904,274	180,908,088	3,814 +	1

GenelD:13590	Lefty1	1	180,935,039	180,938,401	3,362 +	1
GenelD:208795	Tmem63a	1	180,942,518	180,975,104	32,586 +	1
GenelD:226757	Wdr26	1	181,173,226	181,211,978	38,752 -	2
GenelD:98386	Lbr	1	181,815,315	181,842,401	27,086 -	1
GenelD:433384	Gm5533	1	181,851,574	181,853,189	1,615 -	1
GenelD:27058	Srp9	1	182,124,737	182,132,415	7,678 +	1
GenelD:209456	Trp53bp2	1	182,409,167	182,462,436	53,269 +	1
GenelD:12334	Capn2	1	182,467,259	182,517,483	50,224 -	1
GenelD:71678	Brox	1	183,276,342	183,297,008	20,666 -	1
GenelD:108909	Aida	1	183,297,060	183,324,501	27,441 +	1
GenelD:338366	Mia3	1	183,326,236	183,369,565	43,329 -	2
GenelD:381314	Iars2	1	185,286,662	185,329,401	42,739 -	1
GenelD:23827	Bpnt1	1	185,332,159	185,357,769	25,610 +	2
GenelD:107508	Eprs	1	185,363,095	185,428,355	65,260 +	1
GenelD:21808	Tgfb2	1	186,623,186	186,705,992	82,806 -	1
GenelD:226823	Kctd3	1	188,971,098	189,007,840	36,742 -	1
GenelD:16526	Kcnk2	1	189,207,930	189,344,192	136,262 -	1
GenelD:319980	A430027H14Rik	1	189,343,437	189,344,897	1,460 +	1
GenelD:108000	Cenpf	1	189,640,606	189,688,086	47,480 -	1
GenelD:19250	Ptpn14	1	189,728,268	189,876,695	148,427 +	1
GenelD:226830	Smyd2	1	189,880,492	189,922,288	41,796 -	1
GenelD:19130	Prox1	1	190,121,775	190,170,680	48,905 -	2
GenelD:320119	Rps6kc1	1	190,772,879	190,911,770	138,891 -	1
GenelD:226841	Vash2	1	190,947,646	190,979,296	31,650 -	1
GenelD:381319	Batf3	1	191,098,414	191,108,943	10,529 +	1
GenelD:10050436	D730003I15Rik	1	191,224,474	191,225,687	1,213 +	1
GenelD:66208	Nenf	1	191,306,797	191,318,118	11,321 -	2
GenelD:66950	Tmem206	1	191,325,965	191,352,925	26,960 +	2
GenelD:226849	Ppp2r5a	1	191,351,981	191,397,041	45,060 -	1
GenelD:10050437	Gm20201	1	191,398,660	191,403,272	4,612 -	1
GenelD:76843	Dtl	1	191,537,365	191,575,534	38,169 -	1
GenelD:77065	Ints7	1	191,575,734	191,621,691	45,957 +	1
GenelD:226856	Lpgat1	1	191,718,024	191,784,255	66,231 +	1
GenelD:18005	Nek2	1	191,821,473	191,833,049	11,576 +	1
GenelD:98736	1700034H15Rik	1	191,894,072	191,907,527	13,455 -	1
GenelD:22782	Slc30a1	1	191,906,781	191,913,247	6,466 +	1
GenelD:214742	Rcor3	1	192,100,459	192,137,787	37,328 -	2
GenelD:10003871	Gm10516	1	192,136,898	192,151,025	14,127 +	2
GenelD:226861	Hhat	1	192,512,828	192,771,219	258,391 -	1
GenelD:320952	A730013G03Rik	1	192,833,173	192,835,213	2,040 -	1
GenelD:73455	1700065J18Rik	1	192,841,705	192,842,739	1,034 +	1
GenelD:214791	Sertad4	1	192,844,488	192,855,752	11,264 -	2
GenelD:10050347	Gm15867	1	192,852,035	192,856,482	4,447 +	1
GenelD:18845	Plxna2	1	194,619,829	194,816,869	197,040 +	1
GenelD:213783	Plekhg1	10	3,740,377	3,967,303	226,926 +	1
GenelD:270685	Mthfd1l	10	3,973,075	4,167,081	194,006 +	1
GenelD:83397	Akap12	10	4,266,329	4,359,471	93,142 +	1

GenelD:381990	Zbtb2	10	4,367,074	4,388,108	21,034 -	1
GenelD:66084	Rmnd1	10	4,403,169	4,432,352	29,183 -	1
GenelD:73419	1700052N19Rik	10	4,432,605	4,455,140	22,535 +	1
GenelD:67141	Fbxo5	10	5,799,158	5,805,465	6,307 -	1
GenelD:108853	Mtrf1l	10	5,811,887	5,823,943	12,056 -	2
GenelD:56533	Rgs17	10	5,825,663	5,922,400	96,737 -	1
GenelD:215748	Cnksr3	10	7,119,062	7,212,237	93,175 -	1
GenelD:237253	Lrp11	10	7,589,800	7,625,483	35,683 +	1
GenelD:18537	Pcmt1	10	7,630,236	7,663,584	33,348 -	1
GenelD:320642	A630066F11Rik	10	7,663,371	7,664,623	1,252 +	1
GenelD:69912	Nup43	10	7,667,504	7,678,886	11,382 +	2
GenelD:407824	BC020402	10	7,678,971	7,681,158	2,187 -	1
GenelD:16798	Lats1	10	7,681,209	7,716,461	35,252 +	1
GenelD:76227	6530403G13Rik	10	7,791,385	7,792,903	1,518 -	1
GenelD:67418	Ppil4	10	7,792,894	7,822,563	29,669 +	1
GenelD:68652	Tab2	10	7,905,648	7,956,123	50,475 -	1
GenelD:338362	Ust	10	8,204,753	8,518,825	314,072 -	1
GenelD:70097	Sash1	10	8,722,219	8,886,070	163,851 -	1
GenelD:10105602	LOC101056021	10	8,884,594	8,886,878	2,284 +	1
GenelD:78808	Stxbp5	10	9,755,547	9,901,040	145,493 -	1
GenelD:71865	Fbxo30	10	11,281,330	11,297,969	16,639 +	1
GenelD:22288	Utrn	10	12,382,188	12,861,735	479,547 -	1
GenelD:22634	Plagl1	10	13,090,788	13,131,694	40,906 +	1
GenelD:353258	Ltv1	10	13,178,637	13,193,137	14,500 -	1
GenelD:215789	Phactr2	10	13,207,717	13,474,396	266,679 -	1
GenelD:15273	Hivep2	10	13,966,379	14,151,378	184,999 +	2
GenelD:10050421	Gm20114	10	13,966,961	14,007,996	41,035 +	2
GenelD:66201	Vta1	10	14,655,333	14,705,489	50,156 -	1
GenelD:69412	1700016L04Rik	10	14,705,609	14,759,019	53,410 +	1
GenelD:76743	Gje1	10	14,715,626	14,718,214	2,588 -	1
GenelD:17684	Cited2	10	17,723,228	17,725,674	2,446 +	1
GenelD:73112	Abrac1	10	18,011,260	18,023,252	11,992 -	1
GenelD:19707	Reps1	10	18,055,940	18,125,155	69,215 +	1
GenelD:26408	Map3k5	10	19,934,526	20,142,750	208,224 +	1
GenelD:56422	Hbs1l	10	21,295,979	21,368,889	72,910 +	1
GenelD:20393	Sgk1	10	21,882,184	21,999,903	117,719 +	2
GenelD:237336	Tbpl1	10	22,703,877	22,731,447	27,570 -	1
GenelD:10003858	Gm10824	10	22,815,749	22,823,330	7,581 +	1
GenelD:21412	Tcf21	10	22,817,263	22,820,128	2,865 -	1
GenelD:20042	Rps12	10	23,785,183	23,787,209	2,026 -	1
GenelD:10052907	Snora33	10	23,785,347	23,785,451	104 -	1
GenelD:10052907	Snord100	10	23,785,754	23,785,821	67 -	1
GenelD:76306	Slc18b1	10	23,796,986	23,827,968	30,982 +	1
GenelD:53331	Stx7	10	24,149,317	24,188,959	39,642 +	1
GenelD:14219	Ctgf	10	24,595,442	24,598,683	3,241 +	1
GenelD:13822	Epb4.1l2	10	25,359,798	25,523,519	163,721 +	1
GenelD:237339	L3mbtl3	10	26,275,452	26,375,185	99,733 -	1

GenelD:19272	Ptprk	10	28,074,820	28,597,397	522,577 +	1
GenelD:67412	Soga3	10	29,143,996	29,199,630	55,634 +	1
GenelD:66311	Cenpw	10	30,196,009	30,200,540	4,531 -	1
GenelD:73681	Trmt11	10	30,534,225	30,600,749	66,524 -	1
GenelD:10050458	Gm20300	10	30,603,195	30,606,634	3,439 -	1
GenelD:66847	Hint3	10	30,608,207	30,618,366	10,159 -	1
GenelD:15214	Hey2	10	30,832,359	30,842,783	10,424 -	1
GenelD:21987	Tpd52l1	10	31,332,380	31,445,921	113,541 -	1
GenelD:66521	Rwdd1	10	33,996,555	34,019,616	23,061 -	1
GenelD:212898	Dse	10	34,151,393	34,207,551	56,158 -	1
GenelD:22110	Tsyp1	10	34,282,190	34,284,885	2,695 +	1
GenelD:17118	Marcks	10	37,133,243	37,138,926	5,683 -	1
GenelD:320504	5930403N24Rik	10	37,139,404	37,151,315	11,911 +	1
GenelD:14360	Fyn	10	39,369,799	39,565,381	195,582 +	1
GenelD:327744	E130307A14Rik	10	39,621,411	39,732,007	110,596 -	1
GenelD:19714	Rev3l	10	39,732,160	39,875,206	143,046 +	1
GenelD:11702	Amd1	10	40,287,458	40,302,188	14,730 -	1
GenelD:78334	Cdk19	10	40,349,308	40,483,818	134,510 +	1
GenelD:327747	Mettl24	10	40,683,282	40,811,083	127,801 +	1
GenelD:71713	Cdc40	10	40,831,621	40,883,143	51,522 -	1
GenelD:83767	Wasf1	10	40,883,534	40,938,569	55,035 +	1
GenelD:103199	Fig4	10	41,188,172	41,303,241	115,069 -	1
GenelD:171580	Mical1	10	41,476,314	41,487,030	10,716 +	1
GenelD:20598	Smpd2	10	41,487,172	41,490,340	3,168 -	1
GenelD:73075	Ppil6	10	41,490,439	41,514,288	23,849 +	2
GenelD:53599	Cd164	10	41,519,500	41,531,042	11,542 +	1
GenelD:140742	Sesn1	10	41,810,574	41,908,436	97,862 +	1
GenelD:56484	Foxo3	10	42,185,786	42,276,742	90,956 -	1
GenelD:215951	Lace1	10	42,312,585	42,478,565	165,980 -	1
GenelD:54198	Snx3	10	42,502,054	42,535,369	33,315 +	1
GenelD:14628	Ostm1	10	42,678,916	42,702,462	23,546 +	1
GenelD:140740	Sec63	10	42,761,496	42,832,514	71,018 +	1
GenelD:109205	Sobp	10	43,002,500	43,174,530	172,030 -	2
GenelD:74530	9030612E09Rik	10	43,174,704	43,176,562	1,858 +	1
GenelD:331623	Bend3	10	43,479,140	43,515,417	36,277 +	3
GenelD:12484	Cd24a	10	43,579,169	43,584,265	5,096 +	1
GenelD:76563	Qrs1	10	43,874,190	43,901,736	27,546 -	1
GenelD:170728	Rtn4ip1	10	43,901,807	43,947,862	46,055 +	1
GenelD:19072	Prep	10	45,067,214	45,158,995	91,781 +	1
GenelD:209462	Hace1	10	45,577,829	45,712,345	134,516 +	1
GenelD:66686	Dcbld1	10	52,233,619	52,321,377	87,758 +	1
GenelD:94221	Gopc	10	52,337,024	52,382,124	45,100 -	1
GenelD:66650	Nepn	10	52,391,608	52,404,604	12,996 +	1
GenelD:52014	Nus1	10	52,417,547	52,440,192	22,645 +	1
GenelD:10003872	Cep85l	10	53,278,081	53,379,851	101,770 -	1
GenelD:71567	Mcm9	10	53,537,324	53,630,439	93,115 -	1
GenelD:66403	Asf1a	10	53,596,961	53,609,225	12,264 +	1

GenelD:10004255	Gm3902	10	53,597,458	53,598,406	948 +	1
GenelD:17155	Man1a	10	53,906,033	54,075,796	169,763 -	1
GenelD:10050292	Gm16998	10	54,075,922	54,081,081	5,159 +	1
GenelD:544696	D630037F22Rik	10	56,014,293	56,228,689	214,396 -	1
GenelD:73390	Msl3l2	10	56,106,917	56,116,880	9,963 +	1
GenelD:56442	Serinc1	10	57,515,774	57,532,529	16,755 -	1
GenelD:19386	Ranbp2	10	58,446,852	58,494,155	47,303 +	1
GenelD:103080	Sept10	10	59,141,627	59,221,847	80,220 -	1
GenelD:268301	Sowahc	10	59,221,922	59,226,434	4,512 +	1
GenelD:18451	P4ha1	10	59,323,296	59,373,304	50,008 +	1
GenelD:215999	Mcu	10	59,446,984	59,616,692	169,708 -	1
GenelD:56709	Dnajb12	10	59,879,591	59,898,016	18,425 +	2
GenelD:69090	Ascc1	10	60,002,805	60,099,990	97,185 +	1
GenelD:94214	Spock2	10	60,106,257	60,133,914	27,657 +	1
GenelD:53374	Chst3	10	60,181,527	60,219,260	37,733 -	1
GenelD:19156	Psap	10	60,277,628	60,302,600	24,972 +	1
GenelD:22295	Cdh23	10	60,302,750	60,696,490	393,740 -	1
GenelD:107449	Unc5b	10	60,762,595	60,831,581	68,986 -	1
GenelD:20397	Sgpl1	10	61,098,642	61,147,665	49,023 -	2
GenelD:237360	Adamts14	10	61,197,112	61,273,438	76,326 -	1
GenelD:27355	Pald1	10	61,319,657	61,383,523	63,866 -	1
GenelD:13688	Eif4ebp2	10	61,432,497	61,452,669	20,172 -	1
GenelD:67895	Ppa1	10	61,648,621	61,674,165	25,544 +	2
GenelD:20224	Sar1a	10	61,680,321	61,693,297	12,976 +	2
GenelD:71767	Tysnd1	10	61,695,514	61,702,773	7,259 +	1
GenelD:404634	H2afy2	10	61,738,647	61,783,864	45,217 -	1
GenelD:10062858	Mir5108	10	61,774,737	61,774,821	84 +	1
GenelD:12817	Col13a1	10	61,838,498	61,979,108	140,610 -	1
GenelD:70423	Tspan15	10	62,185,396	62,231,218	45,822 -	1
GenelD:72320	2510003E04Rik	10	62,558,470	62,578,457	19,987 -	1
GenelD:56200	Ddx21	10	62,580,247	62,602,298	22,051 -	2
GenelD:94213	Ddx50	10	62,616,023	62,651,198	35,175 -	1
GenelD:216021	Stox1	10	62,659,422	62,726,099	66,677 -	1
GenelD:73132	Slc25a16	10	62,920,633	62,946,494	25,861 +	2
GenelD:327762	Dna2	10	62,947,029	62,974,188	27,159 +	2
GenelD:70432	Rufy2	10	62,980,223	63,018,742	38,519 +	2
GenelD:432467	Hnrnp3	10	63,014,664	63,023,849	9,185 -	1
GenelD:67307	Pbld2	10	63,024,512	63,058,812	34,300 +	1
GenelD:641387	1700120B22Rik	10	63,243,068	63,244,453	1,385 -	1
GenelD:67345	Herc4	10	63,243,797	63,317,881	74,084 +	1
GenelD:10050272	Gm19337	10	63,250,932	63,252,515	1,583 +	1
GenelD:631906	Gm7075	10	63,420,608	63,421,752	1,144 -	1
GenelD:216033	Ctnna3	10	63,430,098	65,003,667	1,573,569 +	1
GenelD:28193	Reep3	10	67,009,189	67,096,988	87,799 -	2
GenelD:108829	Jmjd1c	10	67,127,258	67,256,326	129,068 +	1
GenelD:641340	Nrbf2	10	67,266,689	67,285,281	18,592 -	1
GenelD:13654	Egr2	10	67,537,869	67,542,188	4,319 +	2

GenelD:211488	Ado	10	67,544,511	67,548,955	4,444 -	2
GenelD:216049	Zfp365	10	67,886,105	67,912,662	26,557 -	1
GenelD:170799	Rtkn2	10	67,979,598	68,043,864	64,266 +	1
GenelD:69288	Rhobtb1	10	69,208,552	69,291,791	83,239 +	1
GenelD:320700	A930033H14Rik	10	69,209,762	69,213,252	3,490 -	1
GenelD:12534	Cdk1	10	69,336,635	69,352,912	16,277 -	1
GenelD:268307	4833431D13Rik	10	69,398,147	69,602,138	203,991 +	1
GenelD:76551	Ccdc6	10	70,097,121	70,193,200	96,079 +	1
GenelD:83675	Bicc1	10	70,925,086	71,159,634	234,548 -	1
GenelD:319572	C730027H18Rik	10	71,168,737	71,182,040	13,303 -	1
GenelD:21780	Tfam	10	71,225,477	71,238,044	12,567 -	1
GenelD:216080	Ube2d1	10	71,254,980	71,285,262	30,282 -	1
GenelD:52637	Cisd1	10	71,330,494	71,344,849	14,355 -	1
GenelD:69718	lpmk	10	71,347,793	71,385,885	38,092 +	1
GenelD:76877	Rab36	10	75,037,089	75,054,100	17,011 +	1
GenelD:110279	Bcr	10	75,060,896	75,184,923	124,027 +	1
GenelD:11540	Adora2a	10	75,316,943	75,334,788	17,845 +	1
GenelD:68778	Gucd1	10	75,506,814	75,517,322	10,508 -	1
GenelD:67332	Snrpd3	10	75,518,042	75,535,440	17,398 +	1
GenelD:70377	Derl3	10	75,893,398	75,895,941	2,543 +	1
GenelD:20587	Smarcb1	10	75,896,769	75,921,614	24,845 -	1
GenelD:17385	Mmp11	10	75,923,224	75,932,463	9,239 -	2
GenelD:103172	Chchd10	10	75,935,573	75,937,734	2,161 +	2
GenelD:333670	Gm867	10	75,937,723	75,940,666	2,943 -	2
GenelD:64451	Dip2a	10	76,263,049	76,345,291	82,242 -	1
GenelD:18541	Pcnt	10	76,351,254	76,442,912	91,658 -	1
GenelD:59093	Pcbp3	10	76,761,854	76,961,947	200,093 -	1
GenelD:12822	Col18a1	10	77,052,179	77,166,530	114,351 -	1
GenelD:108707	Fam207a	10	77,486,655	77,515,813	29,158 -	1
GenelD:108705	Pttg1ip	10	77,581,767	77,598,732	16,965 +	1
GenelD:20610	Sumo3	10	77,606,234	77,618,331	12,097 +	2
GenelD:22213	Ube2g2	10	77,622,321	77,645,990	23,669 +	1
GenelD:28240	Trpm2	10	77,907,722	77,969,872	62,150 -	1
GenelD:67884	1810043G02Rik	10	77,978,650	77,985,438	6,788 +	1
GenelD:18641	Pfkl	10	77,986,947	78,009,796	22,849 -	2
GenelD:54427	Dnmt3l	10	78,042,287	78,063,615	21,328 +	1
GenelD:50723	Icosl	10	78,069,368	78,079,525	10,157 +	1
GenelD:110816	Pwp2	10	78,170,910	78,185,149	14,239 -	1
GenelD:216131	Trappc10	10	78,186,725	78,244,642	57,917 -	2
GenelD:13014	Cstb	10	78,425,670	78,427,622	1,952 +	1
GenelD:216134	Pdxk	10	78,436,747	78,464,948	28,201 -	1
GenelD:70427	Mier2	10	79,540,245	79,555,091	14,846 -	1
GenelD:216148	Shc2	10	79,617,934	79,637,918	19,984 -	1
GenelD:382384	Odf3l2	10	79,639,526	79,645,738	6,212 -	1
GenelD:17123	Madcam1	10	79,664,574	79,668,536	3,962 +	2
GenelD:110012	Tpgs1	10	79,669,410	79,676,126	6,716 +	2
GenelD:216150	Cdc34	10	79,682,195	79,688,398	6,203 +	1

GenelD:15166	Hcn2	10	79,716,634	79,736,108	19,474 +	1
GenelD:216151	Polrmt	10	79,736,125	79,746,581	10,456 -	1
GenelD:67112	Fgf22	10	79,755,119	79,756,961	1,842 +	1
GenelD:70294	Rnf126	10	79,758,515	79,766,952	8,437 -	1
GenelD:83554	Fstl3	10	79,777,274	79,782,630	5,356 +	1
GenelD:73106	Prss57	10	79,781,474	79,788,985	7,511 -	1
GenelD:18483	Palm	10	79,793,572	79,820,896	27,324 +	1
GenelD:414101	E130317F20Rik	10	79,851,377	79,854,971	3,594 -	1
GenelD:19205	Ptbp1	10	79,854,605	79,864,433	9,828 +	2
GenelD:216152	BC005764	10	79,860,475	79,874,634	14,159 -	2
GenelD:19152	Prtn3	10	79,879,667	79,883,174	3,507 +	1
GenelD:50701	Elane	10	79,886,312	79,888,216	1,904 +	1
GenelD:11537	Cfd	10	79,890,853	79,892,656	1,803 +	1
GenelD:216154	Med16	10	79,894,707	79,908,938	14,231 -	2
GenelD:109284	R3hdm4	10	79,910,053	79,916,930	6,877 -	2
GenelD:114229	Kiss1r	10	79,916,971	79,922,273	5,302 +	2
GenelD:13496	Arid3a	10	79,927,072	79,955,012	27,940 +	3
GenelD:216156	Wdr18	10	79,960,152	79,969,246	9,094 +	2
GenelD:170483	Grin3b	10	79,970,724	79,977,190	6,466 +	2
GenelD:216157	Tmem259	10	79,977,120	79,984,330	7,210 -	3
GenelD:12798	Cnn2	10	79,988,600	79,995,400	6,800 +	2
GenelD:27403	Abca7	10	79,997,615	80,015,572	17,957 +	1
GenelD:625249	Gpx4	10	80,053,510	80,056,439	2,929 +	2
GenelD:216161	Sbno2	10	80,057,014	80,102,702	45,688 -	3
GenelD:20869	Stk11	10	80,116,536	80,130,470	13,934 +	3
GenelD:10050365	Dos	10	80,130,434	80,139,367	8,933 -	6
GenelD:66043	Atp5d	10	80,142,315	80,145,818	3,503 +	7
GenelD:59090	Midn	10	80,148,290	80,158,367	10,077 +	7
GenelD:12696	Cirbp	10	80,167,841	80,171,653	3,812 +	2
GenelD:69770	1600002K03Rik	10	80,172,944	80,175,119	2,175 +	2
GenelD:13637	Efna2	10	80,179,482	80,190,010	10,528 +	1
GenelD:68114	Mum1	10	80,226,598	80,245,144	18,546 +	1
GenelD:75406	Ndufs7	10	80,249,452	80,256,792	7,340 +	1
GenelD:14431	Gamt	10	80,258,151	80,260,968	2,817 -	1
GenelD:70248	Dazap1	10	80,264,991	80,288,413	23,422 +	2
GenelD:103232	Gm15122	10	80,282,444	80,283,006	562 -	1
GenelD:20054	Rps15	10	80,292,431	80,294,114	1,683 +	1
GenelD:23805	Apc2	10	80,301,820	80,318,256	16,436 +	4
GenelD:66374	2310011J03Rik	10	80,318,255	80,320,548	2,293 -	4
GenelD:18551	Pcsk4	10	80,321,283	80,329,473	8,190 -	4
GenelD:70335	Reep6	10	80,330,145	80,336,441	6,296 +	4
GenelD:66548	Adamts15	10	80,340,716	80,348,446	7,730 -	3
GenelD:216166	Plk5	10	80,356,459	80,365,489	9,030 +	1
GenelD:237400	Mex3d	10	80,380,355	80,387,651	7,296 -	3
GenelD:17192	Mbd3	10	80,392,541	80,399,479	6,938 -	2
GenelD:21423	Tcf3	10	80,409,165	80,433,653	24,488 -	1
GenelD:67331	Atp8b3	10	80,519,585	80,539,124	19,539 -	1

GenelD:66932	Rexo1	10	80,540,926	80,561,560	20,634 -	2
GenelD:118445	Klf16	10	80,567,121	80,577,296	10,175 -	3
GenelD:216169	Abhd17a	10	80,583,649	80,590,341	6,692 -	3
GenelD:10011339	Adat3	10	80,602,880	80,607,654	4,774 +	2
GenelD:56214	Scamp4	10	80,602,882	80,615,783	12,901 +	2
GenelD:103236	Csnk1g2	10	80,622,780	80,640,771	17,991 +	1
GenelD:208198	Btbd2	10	80,642,617	80,657,071	14,454 -	1
GenelD:11776	Ap3d1	10	80,706,978	80,742,211	35,233 -	1
GenelD:208266	Dot1l	10	80,755,206	80,794,347	39,141 +	2
GenelD:78670	Plekhj1	10	80,796,099	80,798,626	2,527 -	2
GenelD:20222	Sf3a2	10	80,798,735	80,804,922	6,187 +	2
GenelD:11705	Amh	10	80,805,248	80,807,648	2,400 +	1
GenelD:71912	Jsrp1	10	80,808,496	80,813,498	5,002 -	1
GenelD:18245	Oaz1	10	80,826,656	80,829,290	2,634 +	1
GenelD:10031677	Mir1982	10	80,828,797	80,828,870	73 +	1
GenelD:237403	Lingo3	10	80,832,801	80,844,039	11,238 -	1
GenelD:66094	Lsm7	10	80,852,825	80,855,209	2,384 -	1
GenelD:73218	Sppl2b	10	80,855,275	80,868,708	13,433 +	1
GenelD:432478	Tmprss9	10	80,879,816	80,899,494	19,678 +	1
GenelD:30055	Timm13	10	80,899,450	80,900,969	1,519 -	1
GenelD:16907	Lmnb2	10	80,901,363	80,918,245	16,882 -	1
GenelD:17873	Gadd45b	10	80,930,091	80,932,204	2,113 +	3
GenelD:106947	Slc39a3	10	81,028,540	81,033,912	5,372 -	1
GenelD:52551	Sgta	10	81,044,073	81,060,154	16,081 -	1
GenelD:208677	Creb3l3	10	81,084,333	81,098,872	14,539 -	1
GenelD:26396	Map2k2	10	81,105,947	81,124,697	18,750 +	2
GenelD:16969	Zbtb7a	10	81,136,271	81,151,657	15,386 +	4
GenelD:59004	Pias4	10	81,153,961	81,167,720	13,759 -	1
GenelD:13629	Eef2	10	81,176,631	81,182,509	5,878 +	1
GenelD:13144	Dapk3	10	81,183,007	81,193,197	10,190 +	1
GenelD:69678	2310050B05Rik	10	81,194,691	81,208,370	13,679 +	1
GenelD:69564	Nmrk2	10	81,198,170	81,202,037	3,867 -	1
GenelD:27375	Tjp3	10	81,273,200	81,291,267	18,067 -	1
GenelD:18717	Pip5k1c	10	81,292,972	81,319,974	27,002 +	2
GenelD:70312	Cactin	10	81,321,103	81,326,251	5,148 +	2
GenelD:21390	Tbxa2r	10	81,328,731	81,335,172	6,441 +	2
GenelD:209047	Gipc3	10	81,337,762	81,343,266	5,504 -	1
GenelD:15353	Hmg20b	10	81,346,046	81,350,457	4,411 -	1
GenelD:73822	Mfsd12	10	81,357,570	81,364,035	6,465 +	1
GenelD:432479	4930404N11Rik	10	81,364,024	81,365,820	1,796 -	1
GenelD:56371	Fzr1	10	81,366,879	81,378,370	11,491 -	1
GenelD:102115	Dohh	10	81,384,428	81,388,352	3,924 +	1
GenelD:72273	2210404O07Rik	10	81,393,064	81,395,079	2,015 +	1
GenelD:18029	Nfic	10	81,396,191	81,427,173	30,982 -	2
GenelD:319586	Celf5	10	81,459,228	81,482,709	23,481 -	1
GenelD:14672	Gna11	10	81,528,732	81,545,046	16,314 -	1
GenelD:14797	Aes	10	81,559,560	81,566,364	6,804 +	1

GenelD:21886	Tle2	10	81,575,287	81,590,845	15,558 +	1
GenelD:70615	Ankrd24	10	81,628,540	81,647,612	19,072 +	1
GenelD:10023320	Gm10778	10	81,649,069	81,667,361	18,292 +	1
GenelD:216177	AU041133	10	82,128,013	82,153,065	25,052 +	1
GenelD:74782	Glt8d2	10	82,650,433	82,690,650	40,217 -	1
GenelD:67933	Hcfc2	10	82,699,007	82,741,392	42,385 +	1
GenelD:58250	Chst11	10	82,985,497	83,195,900	210,403 +	1
GenelD:28109	D10Wsu102e	10	83,360,221	83,368,835	8,614 +	1
GenelD:216188	Aldh1l2	10	83,487,447	83,534,140	46,693 -	1
GenelD:319277	A230046K03Rik	10	83,543,941	83,596,473	52,532 +	1
GenelD:77976	Nuak1	10	84,371,311	84,440,471	69,160 -	1
GenelD:216197	Ckap4	10	84,526,305	84,533,888	7,583 -	1
GenelD:216198	Tcp11l2	10	84,576,947	84,614,355	37,408 +	1
GenelD:14202	Fhl4	10	85,097,019	85,102,495	5,476 -	1
GenelD:103266	Al597468	10	85,102,627	85,117,747	15,120 +	1
GenelD:12952	Cry1	10	85,131,700	85,185,054	53,354 -	1
GenelD:74007	Btbd11	10	85,386,814	85,660,292	273,478 +	1
GenelD:103136	Pwp1	10	85,871,831	85,889,103	17,272 +	1
GenelD:72843	Prdm4	10	85,891,966	85,916,945	24,979 -	1
GenelD:67341	Ascl4	10	85,928,491	85,929,647	1,156 +	1
GenelD:28088	D10Wsu52e	10	85,938,637	85,957,793	19,156 -	2
GenelD:270757	Bpifc	10	85,959,691	86,011,860	52,169 -	2
GenelD:69754	Fbxo7	10	86,021,929	86,048,328	26,399 +	1
GenelD:27204	Syn3	10	86,048,746	86,498,896	450,150 -	1
GenelD:21859	Timp3	10	86,300,412	86,349,505	49,093 +	1
GenelD:103220	BC030307	10	86,705,811	86,776,843	71,032 +	1
GenelD:103466	Nt5dc3	10	86,779,005	86,838,389	59,384 +	1
GenelD:75317	Parpbp	10	88,091,398	88,146,941	55,543 -	1
GenelD:69736	Nup37	10	88,146,992	88,178,395	31,403 +	1
GenelD:432486	Gnptab	10	88,379,412	88,447,329	67,917 +	1
GenelD:70683	Utp20	10	88,746,607	88,826,814	80,207 -	1
GenelD:75089	Uhrf1bp1l	10	89,744,991	89,819,869	74,878 +	1
GenelD:11783	Apaf1	10	90,989,311	91,082,743	93,432 -	1
GenelD:67454	Ikbip	10	91,083,039	91,102,613	19,574 +	1
GenelD:18674	Slc25a3	10	91,116,578	91,123,963	7,385 -	1
GenelD:21917	Tmpo	10	91,147,571	91,171,582	24,011 -	1
GenelD:237459	Cdk17	10	93,160,876	93,241,342	80,466 +	1
GenelD:10031668	Mir1931	10	93,162,785	93,162,903	118 +	1
GenelD:57764	Ntn4	10	93,641,049	93,745,972	104,923 +	1
GenelD:327799	Usp44	10	93,831,555	93,858,087	26,532 +	1
GenelD:215008	Vezt	10	93,968,100	94,035,748	67,648 -	1
GenelD:13998	Fgd6	10	94,036,001	94,145,339	109,338 +	2
GenelD:22025	Nr2c1	10	94,147,931	94,197,214	49,283 +	1
GenelD:319880	Tmcc3	10	94,514,857	94,590,954	76,097 +	1
GenelD:67723	4932415G12Rik	10	94,673,493	94,688,613	15,120 -	1
GenelD:77048	Ccdc41	10	94,688,790	94,790,336	101,546 +	1
GenelD:54712	Plxnc1	10	94,790,866	94,944,578	153,712 -	2

GenelD:12905	Cradd	10	95,174,746	95,324,097	149,351 -	1
GenelD:216233	Socs2	10	95,411,490	95,416,857	5,367 -	1
GenelD:70523	5730420D15Rik	10	95,417,375	95,428,640	11,265 +	1
GenelD:93765	Ube2n	10	95,515,162	95,545,658	30,496 +	1
GenelD:71207	Nudt4	10	95,547,007	95,564,167	17,160 -	1
GenelD:10052646	Mir3058	10	95,559,231	95,559,321	90 -	1
GenelD:216238	Eea1	10	95,940,663	96,045,518	104,855 +	1
GenelD:12226	Btg1	10	96,617,001	96,622,813	5,812 +	1
GenelD:67972	Atp2b1	10	98,915,152	99,026,143	110,991 +	1
GenelD:382406	Poc1b	10	99,107,171	99,197,988	90,817 +	1
GenelD:14426	Galnt4	10	99,108,135	99,113,247	5,112 +	1
GenelD:67603	Dusp6	10	99,263,231	99,267,489	4,258 +	3
GenelD:278279	Tmtc2	10	105,187,663	105,574,479	386,816 -	1
GenelD:327812	Gm15663	10	105,574,551	105,583,870	9,319 +	1
GenelD:17931	Ppp1r12a	10	108,162,400	108,277,575	115,175 +	1
GenelD:114774	Pawr	10	108,332,189	108,414,391	82,202 +	1
GenelD:52679	E2f7	10	110,745,465	110,787,384	41,919 +	1
GenelD:320150	Zdhhc17	10	110,941,779	111,010,066	68,287 -	1
GenelD:237542	Osbpl8	10	111,164,802	111,297,247	132,445 +	1
GenelD:53605	Nap1l1	10	111,473,192	111,498,150	24,958 +	2
GenelD:382421	Gm5176	10	111,500,788	111,501,345	557 +	1
GenelD:21664	Phlda1	10	111,506,286	111,508,649	2,363 +	1
GenelD:52705	Krr1	10	111,972,695	111,988,430	15,735 +	1
GenelD:382423	Atxn7l3b	10	112,925,428	112,929,026	3,598 -	1
GenelD:544737	LOC544737	10	112,928,501	112,931,153	2,652 +	1
GenelD:66687	Tbc1d15	10	115,197,871	115,251,493	53,622 -	1
GenelD:216344	Rab21	10	115,289,862	115,315,591	25,729 -	1
GenelD:10003855	Gm10752	10	115,315,646	115,316,374	728 +	1
GenelD:66816	Thap2	10	115,369,966	115,384,435	14,469 -	1
GenelD:216345	Zfc3h1	10	115,384,959	115,432,771	47,812 +	1
GenelD:14160	Lgr5	10	115,450,314	115,587,780	137,466 -	1
GenelD:77798	A930009A15Rik	10	115,569,986	115,582,454	12,468 +	1
GenelD:19263	Ptprb	10	116,301,374	116,389,538	88,164 +	1
GenelD:58802	Kcnmb4	10	116,417,868	116,473,523	55,655 -	1
GenelD:10050441	4933400F03Rik	10	116,474,345	116,474,987	642 +	1
GenelD:72068	Cnot2	10	116,485,161	116,581,511	96,350 -	1
GenelD:327824	5330438D12Rik	10	116,581,484	116,583,515	2,031 +	1
GenelD:12461	Cct2	10	117,050,998	117,063,814	12,816 -	1
GenelD:327826	Frs2	10	117,070,127	117,148,474	78,347 -	2
GenelD:17246	Mdm2	10	117,688,905	117,710,716	21,811 -	1
GenelD:215449	Rap1b	10	117,814,597	117,845,974	31,377 -	1
GenelD:69181	Dyrk2	10	118,859,349	118,868,903	9,554 -	1
GenelD:71902	Cand1	10	119,198,812	119,240,055	41,243 -	1
GenelD:73914	Irak3	10	120,141,654	120,201,537	59,883 -	1
GenelD:68212	Tmbim4	10	120,208,826	120,224,897	16,071 +	2
GenelD:66225	Llph	10	120,227,060	120,232,070	5,010 +	1
GenelD:15364	Hmga2	10	120,361,275	120,476,935	115,660 -	1

GenelD:380664	Lemd3	10	120,923,411	120,979,330	55,919 -	1
GenelD:75612	Gns	10	121,365,090	121,397,245	32,155 +	1
GenelD:192678	Rassf3	10	121,410,350	121,476,250	65,900 -	1
GenelD:73192	Xpot	10	121,587,380	121,626,316	38,936 -	1
GenelD:270802	BC048403	10	121,739,937	121,752,859	12,922 +	1
GenelD:216395	Tmem5	10	122,081,260	122,097,102	15,842 -	1
GenelD:387251	Mirlet7i	10	122,985,640	122,985,724	84 -	1
GenelD:67074	Mon2	10	122,992,061	123,076,505	84,444 -	2
GenelD:14479	Usp15	10	123,113,244	123,196,923	83,679 -	1
GenelD:10004295	Gm4129	10	123,199,084	123,199,581	497 +	1
GenelD:268354	Fam19a2	10	123,264,076	123,741,204	477,128 +	1
GenelD:320398	Lrig3	10	125,966,219	126,015,359	49,140 +	1
GenelD:52468	Ctdsp2	10	126,978,717	126,999,975	21,258 +	2
GenelD:11567	Avil	10	127,000,709	127,020,994	20,285 +	1
GenelD:66399	Tsfm	10	127,022,332	127,030,814	8,482 -	1
GenelD:10050460	LOC100504608	10	127,032,905	127,041,394	8,489 -	2
GenelD:17299	Mettl1	10	127,041,932	127,045,461	3,529 +	1
GenelD:13115	Cyp27b1	10	127,048,246	127,053,006	4,760 +	1
GenelD:216438	March9	10	127,056,050	127,060,184	4,134 -	1
GenelD:12567	Cdk4	10	127,063,603	127,067,283	3,680 +	1
GenelD:67125	Tspan31	10	127,067,290	127,070,261	2,971 -	1
GenelD:10050470	A730063M14Rik	10	127,070,481	127,071,101	620 +	1
GenelD:216440	Os9	10	127,094,259	127,121,160	26,901 -	1
GenelD:14421	B4galnt1	10	127,165,156	127,172,340	7,184 +	1
GenelD:216441	Slc26a10	10	127,172,426	127,180,645	8,219 -	2
GenelD:52666	Arhgef25	10	127,182,521	127,190,054	7,533 -	2
GenelD:80904	Dtx3	10	127,190,378	127,195,709	5,331 -	2
GenelD:10003859	F420014N23Rik	10	127,195,249	127,202,643	7,394 +	2
GenelD:117150	Pip4k2c	10	127,197,067	127,211,622	14,555 -	2
GenelD:216443	Mars	10	127,296,221	127,311,786	15,565 -	1
GenelD:14632	Gli1	10	127,329,882	127,341,579	11,697 -	1
GenelD:16326	Inhbe	10	127,349,402	127,351,772	2,370 -	1
GenelD:407790	Ndufa4l2	10	127,514,939	127,517,154	2,215 +	1
GenelD:108037	Shmt2	10	127,517,123	127,522,444	5,321 -	1
GenelD:104080	Nxph4	10	127,525,473	127,534,559	9,086 -	1
GenelD:20852	Stat6	10	127,642,986	127,660,987	18,001 +	4
GenelD:17937	Nab2	10	127,660,918	127,666,703	5,785 -	3
GenelD:72243	1700012D01Rik	10	127,667,123	127,668,851	1,728 +	4
GenelD:210035	Tmem194	10	127,677,065	127,701,047	23,982 +	2
GenelD:320080	Zbtb39	10	127,739,538	127,747,349	7,811 +	1
GenelD:11536	Gpr182	10	127,749,602	127,751,798	2,196 -	1
GenelD:19075	Prim1	10	128,015,215	128,030,030	14,815 +	1
GenelD:17938	Naca	10	128,035,346	128,048,637	13,291 +	2
GenelD:56351	Ptges3	10	128,058,982	128,077,254	18,272 +	2
GenelD:11947	Atp5b	10	128,083,307	128,090,388	7,081 +	3
GenelD:751518	Mir677	10	128,085,286	128,085,363	77 +	2
GenelD:116848	Baz2a	10	128,092,783	128,129,303	36,520 +	3

GenelD:216456	Gls2	10	128,194,635	128,210,004	15,369 +	1
GenelD:17339	Mip	10	128,225,838	128,231,811	5,973 +	1
GenelD:21853	Timeless	10	128,232,063	128,252,941	20,878 +	1
GenelD:12974	Cs	10	128,337,832	128,362,479	24,647 +	2
GenelD:210582	Coq10a	10	128,363,097	128,370,037	6,940 -	2
GenelD:237615	Ankrd52	10	128,377,124	128,394,006	16,882 +	2
GenelD:68094	Smarcc2	10	128,459,236	128,490,174	30,938 +	1
GenelD:23943	Esyt1	10	128,510,248	128,525,859	15,611 -	1
GenelD:13139	Dgka	10	128,720,134	128,744,056	23,922 -	1
GenelD:78428	Wibg	10	128,747,879	128,766,568	18,689 +	1
GenelD:58223	Mmp19	10	128,790,910	128,800,824	9,914 +	1
GenelD:73827	Tmem198b	10	128,800,036	128,804,370	4,334 -	1
GenelD:74330	Dnajc14	10	128,805,676	128,819,446	13,770 +	1
GenelD:12512	Cd63	10	128,908,919	128,912,822	3,903 +	2
GenelD:19682	Rdh5	10	128,913,590	128,919,297	5,707 -	2
GenelD:14533	Bloc1s1	10	128,919,914	128,923,524	3,610 -	2
GenelD:16404	Itga7	10	128,933,813	128,958,286	24,473 +	1
GenelD:13494	Drg1	11	3,249,922	3,266,386	16,464 -	1
GenelD:56218	Patz1	11	3,289,131	3,309,083	19,952 +	1
GenelD:791413	Gm12592	11	3,304,830	3,331,178	26,348 -	1
GenelD:216505	Pik3ip1	11	3,330,731	3,342,971	12,240 +	1
GenelD:16886	Limk2	11	3,343,297	3,409,235	65,938 -	1
GenelD:193670	Rnf185	11	3,415,983	3,452,325	36,342 -	1
GenelD:544752	Tug1	11	3,639,794	3,648,808	9,014 -	1
GenelD:74522	Morc2a	11	3,649,494	3,690,372	40,878 +	1
GenelD:216516	Ccdc157	11	4,141,123	4,160,293	19,170 -	1
GenelD:67465	Sf3a1	11	4,160,354	4,182,541	22,187 +	1
GenelD:103724	Tbc1d10a	11	4,186,833	4,215,505	28,672 +	1
GenelD:71962	Gatsl3	11	4,218,251	4,222,409	4,158 +	1
GenelD:74302	Mtmr3	11	4,480,868	4,594,815	113,947 -	1
GenelD:78926	Gas2l1	11	5,054,131	5,065,327	11,196 -	3
GenelD:75668	Rasl10a	11	5,058,128	5,060,383	2,255 +	3
GenelD:14030	Ewsr1	11	5,069,688	5,099,077	29,389 -	3
GenelD:279766	Rhbdd3	11	5,099,438	5,106,091	6,653 +	1
GenelD:140703	Emid1	11	5,106,266	5,152,222	45,956 -	1
GenelD:84035	Kremen1	11	5,191,552	5,261,610	70,058 -	2
GenelD:407821	Znrf3	11	5,276,329	5,444,847	168,518 -	1
GenelD:22433	Xbp1	11	5,520,967	5,525,872	4,905 +	1
GenelD:104479	Ccdc117	11	5,528,887	5,542,217	13,330 -	2
GenelD:64660	Mrps24	11	5,703,983	5,707,699	3,716 -	1
GenelD:72046	Urgcp	11	5,713,417	5,762,376	48,959 -	3
GenelD:76508	2210015D19Rik	11	5,762,150	5,784,710	22,560 +	2
GenelD:13169	Dbnl	11	5,788,483	5,800,980	12,497 +	1
GenelD:11568	Aebp1	11	5,861,866	5,872,225	10,359 +	1
GenelD:18972	Pold2	11	5,872,180	5,878,256	6,076 -	1
GenelD:103988	Gck	11	5,900,823	5,949,599	48,776 -	1
GenelD:56418	Ykt6	11	5,955,758	5,967,780	12,022 +	1

GenelD:209586	Nudcd3	11	6,105,691	6,200,451	94,760 -	1
GenelD:52513	Ddx56	11	6,257,545	6,267,729	10,184 -	1
GenelD:103694	Tmed4	11	6,270,714	6,274,837	4,123 -	1
GenelD:18293	Ogdh	11	6,291,597	6,359,094	67,497 +	1
GenelD:52915	Zmiz2	11	6,389,364	6,406,162	16,798 +	2
GenelD:268373	Ppia	11	6,415,870	6,419,810	3,940 +	1
GenelD:19291	Purb	11	6,467,599	6,476,076	8,477 -	1
GenelD:246177	Myo1g	11	6,506,548	6,520,958	14,410 -	1
GenelD:10004128	Gm11974	11	6,525,591	6,528,760	3,169 -	1
GenelD:216527	Ccm2	11	6,546,887	6,596,761	49,874 +	1
GenelD:21379	Tbrg4	11	6,615,598	6,626,067	10,469 -	1
GenelD:10021746	Snora5c	11	6,620,319	6,620,419	100 -	1
GenelD:22373	Wap	11	6,635,483	6,638,649	3,166 -	1
GenelD:16009	Igfbp3	11	7,206,086	7,213,923	7,837 -	1
GenelD:319939	Tns3	11	8,431,652	8,664,535	232,883 -	2
GenelD:15574	Hus1	11	8,993,142	9,011,137	17,995 -	1
GenelD:194974	Sun3	11	9,016,054	9,048,991	32,937 -	1
GenelD:60530	Fignl1	11	11,800,288	11,808,962	8,674 -	1
GenelD:13195	Ddc	11	11,814,101	11,898,144	84,043 -	1
GenelD:14783	Grb10	11	11,930,499	12,037,420	106,921 -	1
GenelD:13649	Egfr	11	16,752,203	16,913,907	161,704 +	1
GenelD:72735	2810442I21Rik	11	16,936,723	16,951,093	14,370 -	1
GenelD:319701	Fbxo48	11	16,951,410	16,954,772	3,362 +	1
GenelD:68145	Etaa1	11	17,938,749	17,953,875	15,126 -	1
GenelD:17268	Meis1	11	18,880,428	19,018,969	138,541 -	2
GenelD:10105565	LOC101055656	11	19,009,128	19,011,183	2,055 +	2
GenelD:114716	Spred2	11	19,924,442	20,022,597	98,155 +	1
GenelD:66713	Actr2	11	20,062,304	20,112,951	50,647 -	1
GenelD:19324	Rab1	11	20,201,602	20,226,856	25,254 +	1
GenelD:216543	Cep68	11	20,227,037	20,249,424	22,387 -	1
GenelD:55963	Slc1a4	11	20,302,180	20,332,713	30,533 -	1
GenelD:58172	Sertad2	11	20,543,253	20,653,023	109,770 +	2
GenelD:216549	Aftph	11	20,685,084	20,741,548	56,464 -	1
GenelD:67245	Peli1	11	21,091,324	21,150,327	59,003 +	1
GenelD:216558	Ugp2	11	21,321,138	21,370,879	49,741 -	1
GenelD:216565	Ehbp1	11	22,005,825	22,286,795	280,970 -	1
GenelD:103765	Tmem17	11	22,512,283	22,519,231	6,948 +	1
GenelD:53625	B3gnt2	11	22,834,739	22,860,336	25,597 -	1
GenelD:17846	Commd1	11	22,899,728	22,982,284	82,556 -	2
GenelD:22183	Zrsr1	11	22,972,005	22,976,496	4,491 +	1
GenelD:12464	Cct4	11	22,990,593	23,003,336	12,743 +	1
GenelD:103573	Xpo1	11	23,256,041	23,297,597	41,556 +	1
GenelD:17847	Usp34	11	23,306,895	23,490,560	183,665 +	1
GenelD:268390	Ahsa2	11	23,487,882	23,497,946	10,064 -	1
GenelD:19696	Rel	11	23,741,729	23,770,970	29,241 -	1
GenelD:216578	Papolg	11	23,862,646	23,895,270	32,624 -	1
GenelD:268391	A830031A19Rik	11	24,048,955	24,075,054	26,099 -	1

GenelD:14025	Bcl11a	11	24,078,056	24,173,558	95,502 +	1
GenelD:71701	Pnpt1	11	29,130,751	29,161,828	31,077 +	2
GenelD:320757	A630052C17Rik	11	29,170,809	29,173,552	2,743 -	1
GenelD:104570	Smek2	11	29,172,907	29,220,797	47,890 +	1
GenelD:108686	Ccdc88a	11	29,373,775	29,510,812	137,037 +	1
GenelD:76784	Mtif2	11	29,526,457	29,545,255	18,798 +	1
GenelD:78294	Rps27a	11	29,545,842	29,548,040	2,198 -	1
GenelD:73324	1700034F02Rik	11	29,547,950	29,578,352	30,402 +	1
GenelD:68585	Rtn4	11	29,692,898	29,744,414	51,516 +	1
GenelD:10105573	LOC101055730	11	29,695,511	29,696,704	1,193 +	1
GenelD:666427	Gm8098	11	30,231,059	30,268,659	37,600 +	1
GenelD:75572	Acyp2	11	30,505,992	30,649,396	143,404 -	1
GenelD:103554	Psme4	11	30,771,775	30,880,361	108,586 +	1
GenelD:20856	Stc2	11	31,359,441	31,370,061	10,620 -	1
GenelD:16199	Il9r	11	32,188,997	32,200,279	11,282 -	1
GenelD:78372	Snrnp25	11	32,205,415	32,208,996	3,581 +	1
GenelD:13650	Rhbdf1	11	32,209,585	32,222,293	12,708 -	3
GenelD:268395	Mpg	11	32,226,505	32,232,702	6,197 +	2
GenelD:17168	Nprl3	11	32,232,419	32,267,614	35,195 -	2
GenelD:15126	Hba-x	11	32,276,600	32,278,116	1,516 +	1
GenelD:327900	Ubt2	11	32,455,372	32,518,709	63,337 +	1
GenelD:69306	Efcab9	11	32,522,733	32,527,574	4,841 -	1
GenelD:20868	Stk10	11	32,533,266	32,624,595	91,329 +	1
GenelD:14172	Fgf18	11	33,117,430	33,147,400	29,970 -	1
GenelD:18148	Npm1	11	33,152,498	33,163,206	10,708 -	2
GenelD:27140	Tlx3	11	33,200,752	33,203,588	2,836 -	2
GenelD:66011	Ranbp17	11	33,211,794	33,513,746	301,952 -	1
GenelD:70385	Spdl1	11	34,809,185	34,833,641	24,456 -	1
GenelD:211347	Pank3	11	35,769,495	35,791,285	21,790 +	1
GenelD:104458	Rars	11	35,808,381	35,834,528	26,147 -	1
GenelD:211652	Wwc1	11	35,839,178	35,980,089	140,911 -	2
GenelD:23964	Tenm2	11	36,006,669	36,944,243	937,574 -	1
GenelD:108645	Mat2b	11	40,679,314	40,695,203	15,889 -	1
GenelD:15366	Hmmr	11	40,701,388	40,733,437	32,049 -	2
GenelD:52653	Nudcd2	11	40,733,642	40,740,046	6,404 +	1
GenelD:30939	Pttg1	11	43,420,248	43,426,248	6,000 -	1
GenelD:193116	Slu7	11	43,433,731	43,447,981	14,250 +	1
GenelD:380694	Ccnjl	11	43,528,784	43,586,997	58,213 +	1
GenelD:79560	Ublcp1	11	44,454,571	44,470,548	15,977 -	1
GenelD:74315	Rnf145	11	44,518,964	44,565,520	46,556 +	1
GenelD:13591	Ebf1	11	44,618,134	45,005,175	387,041 +	1
GenelD:10000966	F630206G17Rik	11	45,808,083	45,842,880	34,797 +	1
GenelD:216705	Clint1	11	45,851,964	45,910,625	58,661 +	1
GenelD:72290	Lsm11	11	45,928,269	45,944,935	16,666 -	1
GenelD:66628	Thg1l	11	45,948,154	45,955,494	7,340 -	1
GenelD:76884	Cyfp2	11	46,193,849	46,312,859	119,010 -	1
GenelD:66213	Med7	11	46,436,947	46,442,721	5,774 +	1

GenelD:14694	Gnb211	11	48,800,360	48,806,241	5,881 +	1
GenelD:10021653	Snord96a	11	48,802,033	48,802,109	76 +	1
GenelD:10021654	Snord95	11	48,803,139	48,803,206	67 +	1
GenelD:211007	Trim41	11	48,806,404	48,817,391	10,987 -	1
GenelD:94089	Trim7	11	48,826,138	48,850,195	24,057 +	1
GenelD:10086185	Gm16170	11	48,843,648	48,853,493	9,845 -	1
GenelD:258273	Olfr1394	11	49,160,016	49,160,954	938 +	1
GenelD:237754	Btnl9	11	49,168,325	49,187,089	18,764 -	1
GenelD:22720	Zfp62	11	49,203,500	49,218,816	15,316 +	1
GenelD:104625	Cnot6	11	49,674,698	49,712,710	38,012 -	1
GenelD:14584	Gfpt2	11	49,794,155	49,838,620	44,465 +	2
GenelD:26420	Mapk9	11	49,846,751	49,886,421	39,670 +	1
GenelD:76795	Tbc1d9b	11	50,131,360	50,172,785	41,425 +	1
GenelD:68067	3010026O09Rik	11	50,174,851	50,200,115	25,264 +	1
GenelD:18412	Sqstm1	11	50,200,152	50,210,790	10,638 -	1
GenelD:103534	Mgat4b	11	50,225,335	50,235,103	9,768 +	2
GenelD:17001	Ltc4s	11	50,236,472	50,238,471	1,999 -	2
GenelD:103806	Maml1	11	50,255,634	50,292,336	36,702 -	1
GenelD:12330	Canx	11	50,293,957	50,325,673	31,716 -	2
GenelD:59013	Hnrnph1	11	50,377,719	50,386,528	8,809 +	1
GenelD:216725	Adamts2	11	50,602,085	50,804,049	201,964 +	1
GenelD:193286	BC049762	11	51,253,651	51,262,951	9,300 -	1
GenelD:12750	Clk4	11	51,263,171	51,281,764	18,593 +	1
GenelD:72947	Agxt2l2	11	51,584,757	51,603,269	18,512 +	1
GenelD:15384	Hnrnpab	11	51,600,100	51,606,881	6,781 -	1
GenelD:52530	Nhp2	11	51,619,773	51,623,714	3,941 +	1
GenelD:66089	Rmnd5b	11	51,623,673	51,635,896	12,223 -	2
GenelD:212706	N4bp3	11	51,643,089	51,651,073	7,984 -	2
GenelD:97775	D930048N14Rik	11	51,650,954	51,657,681	6,727 +	1
GenelD:77371	Sec24a	11	51,692,263	51,756,834	64,571 -	1
GenelD:66397	Sar1b	11	51,763,663	51,791,953	28,290 +	1
GenelD:76901	Phf15	11	51,813,456	51,857,481	44,025 -	1
GenelD:22210	Ube2b	11	51,985,146	52,000,466	15,320 -	2
GenelD:213084	Cdkl3	11	52,004,221	52,084,667	80,446 +	2
GenelD:19052	Ppp2ca	11	52,098,824	52,122,749	23,925 +	1
GenelD:21402	Skp1a	11	52,231,995	52,246,858	14,863 +	1
GenelD:10105619	LOC101056192	11	52,233,724	52,236,645	2,921 +	1
GenelD:21414	Tcf7	11	52,252,604	52,282,571	29,967 -	1
GenelD:399633	A630014C17Rik	11	52,276,055	52,286,183	10,128 +	1
GenelD:22333	Vdac1	11	52,361,115	52,389,396	28,281 +	1
GenelD:320027	Fstl4	11	52,764,706	53,187,347	422,641 +	1
GenelD:15525	Hspa4	11	53,259,814	53,300,479	40,665 -	1
GenelD:93736	Aff4	11	53,350,767	53,421,830	71,063 +	1
GenelD:10003849	Gm10447	11	53,454,804	53,457,110	2,306 -	1
GenelD:71774	Shroom1	11	53,457,205	53,467,755	10,550 +	1
GenelD:432561	Gm9837	11	53,469,743	53,470,473	730 -	1
GenelD:237761	Sowaha	11	53,476,578	53,480,195	3,617 -	1

GenelD:10050369	Gm19835	11	53,482,411	53,487,375	4,964 -	1
GenelD:319650	A430108G06Rik	11	53,564,668	53,567,313	2,645 -	1
GenelD:16568	Kif3a	11	53,567,379	53,604,244	36,865 +	1
GenelD:19360	Rad50	11	53,649,519	53,707,319	57,800 -	1
GenelD:16362	Irf1	11	53,770,014	53,778,374	8,360 +	1
GenelD:56517	Slc22a21	11	53,950,824	53,980,027	29,203 -	1
GenelD:30805	Slc22a4	11	53,983,126	54,028,090	44,964 -	1
GenelD:216742	Fnip1	11	54,438,179	54,518,241	80,062 +	1
GenelD:72729	Cdc42se2	11	54,717,415	54,787,703	70,288 -	1
GenelD:75530	Lym7	11	54,839,289	54,860,591	21,302 -	1
GenelD:15254	Hint1	11	54,866,438	54,870,496	4,058 +	1
GenelD:57783	Tnip1	11	54,910,787	54,962,940	52,153 -	1
GenelD:11749	Anxa6	11	54,978,962	55,033,471	54,509 -	1
GenelD:14667	Gm2a	11	55,097,985	55,113,029	15,044 +	1
GenelD:74045	4921508A21Rik	11	55,191,719	55,197,682	5,963 -	1
GenelD:215335	Slc36a1	11	55,204,340	55,236,330	31,990 +	1
GenelD:67726	Fam114a2	11	57,482,990	57,518,644	35,654 -	1
GenelD:216760	Mfap3	11	57,518,665	57,533,817	15,152 +	1
GenelD:171212	Galnt10	11	57,645,442	57,787,501	142,059 +	1
GenelD:71154	4933426K07Rik	11	57,655,413	57,657,826	2,413 -	1
GenelD:50724	Sap30l	11	57,801,637	57,810,615	8,978 +	1
GenelD:73158	Larp1	11	58,009,064	58,062,034	52,970 +	1
GenelD:216766	Gemin5	11	58,120,001	58,168,539	48,538 -	1
GenelD:216767	Mrpl22	11	58,171,654	58,179,580	7,926 +	1
GenelD:103836	Zfp692	11	58,307,069	58,314,613	7,544 +	1
GenelD:319475	Zfp672	11	58,315,114	58,330,339	15,225 -	1
GenelD:56631	Trim17	11	58,963,781	58,971,729	7,948 +	1
GenelD:75694	2310058D17Rik	11	58,965,748	58,978,050	12,302 -	1
GenelD:94091	Trim11	11	58,978,116	58,991,458	13,342 +	1
GenelD:118454	Gjc2	11	59,175,564	59,183,213	7,649 -	2
GenelD:14923	Guk1	11	59,183,855	59,191,952	8,097 -	3
GenelD:72203	2610507I01Rik	11	59,197,793	59,202,431	4,638 -	4
GenelD:67212	Mrpl55	11	59,202,517	59,206,002	3,485 +	3
GenelD:67862	2310033P09Rik	11	59,208,361	59,210,736	2,375 +	3
GenelD:11840	Arf1	11	59,211,412	59,228,267	16,855 -	4
GenelD:268417	Zkscan17	11	59,485,521	59,506,640	21,119 -	1
GenelD:74476	4933439C10Rik	11	59,505,685	59,511,067	5,382 +	1
GenelD:26936	Mprip	11	59,662,495	59,780,860	118,365 +	1
GenelD:26572	Cops3	11	59,817,804	59,839,767	21,963 -	2
GenelD:103850	Nt5m	11	59,848,073	59,876,533	28,460 +	2
GenelD:192191	Med9	11	59,948,214	59,963,306	15,092 +	1
GenelD:19416	Rasd1	11	59,963,181	59,964,942	1,761 -	1
GenelD:18618	Pemt	11	59,970,617	60,036,839	66,222 -	1
GenelD:19377	Rai1	11	60,105,013	60,199,195	94,182 +	4
GenelD:10050414	4930412M03Rik	11	60,112,219	60,115,212	2,993 -	1
GenelD:20787	Sreb1	11	60,199,089	60,220,604	21,515 -	1
GenelD:246782	Atpaf2	11	60,400,624	60,417,099	16,475 -	1

GenelD:66771	Gid4	11	60,417,145	60,445,277	28,132 +	1
GenelD:17910	Myo15	11	60,469,339	60,528,369	59,030 +	1
GenelD:268420	Alkbh5	11	60,537,683	60,558,512	20,829 +	1
GenelD:16897	Llgl1	11	60,699,690	60,714,188	14,498 +	1
GenelD:14248	Flii	11	60,714,149	60,727,221	13,072 -	1
GenelD:237781	Smcr7	11	60,728,398	60,732,951	4,553 +	1
GenelD:10062862	Mir5100	11	60,728,663	60,728,726	63 +	1
GenelD:216821	Tmem11	11	60,864,452	60,879,038	14,586 -	1
GenelD:24083	Gm16515	11	60,902,246	60,913,792	11,546 -	1
GenelD:24082	Gm16516	11	60,920,941	60,931,867	10,926 -	1
GenelD:216825	Usp22	11	61,151,781	61,175,059	23,278 -	1
GenelD:11671	Aldh3a2	11	61,244,755	61,267,127	22,372 -	1
GenelD:380701	Slc47a2	11	61,301,631	61,342,860	41,229 -	1
GenelD:67473	Slc47a1	11	61,343,400	61,378,075	34,675 -	1
GenelD:626150	Gm12271	11	61,416,402	61,416,815	413 -	1
GenelD:76293	Mfap4	11	61,485,444	61,488,704	3,260 +	1
GenelD:23939	Mapk7	11	61,488,812	61,494,213	5,401 -	1
GenelD:73216	3110043A19Rik	11	61,504,381	61,505,059	678 -	2
GenelD:27078	B9d1	11	61,505,172	61,512,927	7,755 +	1
GenelD:13855	Epn2	11	61,517,249	61,579,687	62,438 -	1
GenelD:29869	Ulk2	11	61,775,598	61,855,092	79,494 -	1
GenelD:56697	Akap10	11	61,871,307	61,930,226	58,919 -	1
GenelD:10105568	LOC101055684	11	61,956,810	62,045,484	88,674 +	1
GenelD:432572	Specc1	11	62,077,097	62,223,013	145,916 +	1
GenelD:11541	Adora2b	11	62,248,984	62,266,452	17,468 +	1
GenelD:20185	Ncor1	11	62,316,426	62,457,332	140,906 -	1
GenelD:327942	Pigl	11	62,458,460	62,513,900	55,440 +	1
GenelD:10050329	Gm12279	11	62,545,690	62,550,993	5,303 -	1
GenelD:22187	Ubb	11	62,551,504	62,553,212	1,708 +	1
GenelD:22368	Trpv2	11	62,574,486	62,600,305	25,819 +	1
GenelD:69221	2410006H16Rik	11	62,602,877	62,604,806	1,929 +	1
GenelD:10021742	Snord49b	11	62,603,086	62,603,148	62 +	1
GenelD:10021745	Snord49a	11	62,603,460	62,603,521	61 +	1
GenelD:10021744	Snord65	11	62,604,530	62,604,586	56 +	1
GenelD:192976	Fam211a	11	62,604,884	62,648,523	43,639 -	2
GenelD:216829	Mmgt2	11	62,648,664	62,666,359	17,695 +	1
GenelD:213980	Fbxw10	11	62,847,123	62,877,462	30,339 +	1
GenelD:67510	Tvp23b	11	62,879,490	62,895,184	15,694 +	1
GenelD:18858	Pmp22	11	63,131,510	63,159,546	28,036 +	1
GenelD:54710	Hs3st3b1	11	63,884,693	63,922,284	37,591 -	1
GenelD:654805	F930015N05Rik	11	64,433,135	64,436,674	3,539 -	1
GenelD:15478	Hs3st3a1	11	64,435,332	64,522,835	87,503 +	1
GenelD:26398	Map2k4	11	65,688,244	65,788,297	100,053 -	1
GenelD:10105569	LOC101055694	11	65,782,741	65,787,985	5,244 -	1
GenelD:237806	Dnahc9	11	65,831,324	66,168,551	337,227 -	1
GenelD:380702	Shisa6	11	66,211,725	66,526,126	314,401 -	1
GenelD:77579	Myh10	11	68,691,915	68,816,624	124,709 +	1

GenelD:320040	Rnf222	11	68,888,553	68,895,015	6,462 +	1
GenelD:19941	Rpl26	11	68,901,566	68,904,534	2,968 +	1
GenelD:68964	Ctc1	11	69,015,911	69,036,473	20,562 +	1
GenelD:20877	Aurkb	11	69,045,643	69,051,662	6,019 +	2
GenelD:71923	2310047M10Rik	11	69,059,775	69,061,576	1,801 +	1
GenelD:66910	Tmem107	11	69,070,809	69,073,293	2,484 +	1
GenelD:22318	Vamp2	11	69,088,528	69,092,381	3,853 +	2
GenelD:18626	Per1	11	69,098,956	69,109,960	11,004 +	2
GenelD:10003843	9130213A22Rik	11	69,120,055	69,122,583	2,528 -	1
GenelD:84653	Hes7	11	69,120,453	69,123,259	2,806 +	1
GenelD:23801	Aloxe3	11	69,126,377	69,149,115	22,738 +	1
GenelD:14919	Gucy2e	11	69,218,117	69,237,022	18,905 -	1
GenelD:216846	Cntrob	11	69,299,496	69,323,873	24,377 -	1
GenelD:245828	Trappc1	11	69,323,986	69,325,793	1,807 +	1
GenelD:16499	Kcnab3	11	69,326,258	69,333,041	6,783 +	2
GenelD:80515	A030009H04Rik	11	69,340,769	69,342,647	1,878 +	1
GenelD:216848	Chd3	11	69,344,351	69,369,391	25,040 -	2
GenelD:327951	Cyb5d1	11	69,393,616	69,395,346	1,730 -	1
GenelD:78304	Lsmd1	11	69,395,791	69,396,671	880 +	1
GenelD:67020	Tmem88	11	69,396,516	69,398,234	1,718 -	2
GenelD:216850	Kdm6b	11	69,398,508	69,413,675	15,167 -	2
GenelD:327954	Dnahc2	11	69,420,809	69,549,108	128,299 -	1
GenelD:13643	Efnb3	11	69,554,092	69,560,237	6,145 -	1
GenelD:216853	Wrap53	11	69,561,754	69,579,324	17,570 -	1
GenelD:11932	Atp1b2	11	69,599,750	69,605,960	6,210 -	1
GenelD:20415	Shbg	11	69,614,816	69,617,905	3,089 -	1
GenelD:69215	Sat2	11	69,622,109	69,623,869	1,760 +	1
GenelD:23879	Fxr2	11	69,632,971	69,653,297	20,326 +	1
GenelD:10031674	Mir467f	11	69,635,400	69,635,519	119 -	1
GenelD:24070	Mpdu1	11	69,656,704	69,662,642	5,938 -	1
GenelD:10031684	Mir1934	11	69,663,043	69,663,125	82 +	1
GenelD:12514	Cd68	11	69,664,371	69,666,062	1,691 -	1
GenelD:13681	Eif4a1	11	69,666,936	69,672,423	5,487 -	2
GenelD:80886	Senp3	11	69,673,110	69,682,084	8,974 -	2
GenelD:10050382	2010012P19Rik	11	69,682,138	69,691,140	9,002 +	2
GenelD:69583	Tnfsf13	11	69,682,577	69,685,554	2,977 -	2
GenelD:619441	BC096441	11	69,682,577	69,696,098	13,521 -	2
GenelD:21944	Tnfsf12	11	69,686,240	69,696,098	9,858 -	1
GenelD:20020	Polr2a	11	69,734,410	69,758,223	23,813 -	1
GenelD:56293	Slc35g3	11	69,759,884	69,761,844	1,960 -	1
GenelD:75580	Zbtb4	11	69,765,912	69,784,026	18,114 +	1
GenelD:11443	Chrnbl	11	69,784,036	69,795,937	11,901 -	5
GenelD:14166	Fgf11	11	69,798,202	69,801,625	3,423 -	5
GenelD:380705	Tmem102	11	69,803,595	69,805,624	2,029 -	5
GenelD:74341	G630025P09Rik	11	69,803,669	69,806,038	2,369 +	5
GenelD:108803	4933402P03Rik	11	69,816,566	69,818,440	1,874 -	1
GenelD:74288	Spem1	11	69,820,871	69,822,165	1,294 -	1

GenelD:216856	Nlgn2	11	69,823,123	69,834,849	11,726 -	1
GenelD:10050336	Tmem95	11	69,876,684	69,878,018	1,334 -	1
GenelD:216858	Kctd11	11	69,878,264	69,880,985	2,721 -	1
GenelD:216859	Acap1	11	69,881,567	69,895,539	13,972 -	2
GenelD:70419	2810408A11Rik	11	69,897,358	69,900,986	3,628 -	1
GenelD:216860	Neurl4	11	69,901,878	69,913,822	11,944 +	3
GenelD:56310	Gps2	11	69,914,192	69,916,591	2,399 +	2
GenelD:276770	Eif5a	11	69,916,712	69,921,958	5,246 -	2
GenelD:54351	Elp5	11	69,968,224	69,981,235	13,011 -	1
GenelD:67181	Ctdnep1	11	69,981,168	69,990,601	9,433 +	3
GenelD:56486	Gabarap	11	69,991,370	69,994,949	3,579 +	3
GenelD:78246	Phf23	11	69,995,771	70,000,011	4,240 +	2
GenelD:13543	Dvl2	11	70,000,626	70,010,109	9,483 +	2
GenelD:11370	Acadvl	11	70,010,192	70,015,407	5,215 -	1
GenelD:216867	Slc16a11	11	70,213,910	70,216,414	2,504 +	1
GenelD:69309	Slc16a13	11	70,216,792	70,220,994	4,202 -	1
GenelD:12029	Bcl6b	11	70,224,127	70,229,798	5,671 -	2
GenelD:751537	Mir497	11	70,234,717	70,234,800	83 +	1
GenelD:387190	Mir195	11	70,235,042	70,235,135	93 +	1
GenelD:104457	0610010K14Rik	11	70,235,204	70,237,914	2,710 -	1
GenelD:52898	Rnasek	11	70,238,123	70,239,852	1,729 -	1
GenelD:11684	Alox12	11	70,241,455	70,255,341	13,886 -	1
GenelD:75273	Pelp1	11	70,392,881	70,410,031	17,150 -	1
GenelD:216869	Arrb2	11	70,432,653	70,440,674	8,021 +	1
GenelD:75604	Tm4sf5	11	70,505,274	70,511,183	5,909 +	1
GenelD:327956	Vmo1	11	70,513,516	70,514,616	1,100 -	1
GenelD:216871	Gltpd2	11	70,519,209	70,520,736	1,527 +	1
GenelD:19175	Psmb6	11	70,525,357	70,527,858	2,501 +	1
GenelD:18806	Pld2	11	70,540,164	70,558,110	17,946 +	1
GenelD:50932	Mink1	11	70,562,881	70,614,482	51,601 +	1
GenelD:14723	Gp1ba	11	70,639,122	70,642,058	2,936 +	1
GenelD:67863	Slc25a11	11	70,644,019	70,647,039	3,020 -	2
GenelD:70510	Rnf167	11	70,647,589	70,651,421	3,832 +	2
GenelD:18643	Pfn1	11	70,651,847	70,654,650	2,803 -	2
GenelD:13808	Eno3	11	70,657,213	70,662,513	5,300 +	1
GenelD:216873	Spag7	11	70,663,769	70,669,416	5,647 -	1
GenelD:216874	Camta2	11	70,669,463	70,688,105	18,642 -	1
GenelD:103844	Inca1	11	70,688,361	70,700,155	11,794 -	2
GenelD:16562	Kif1c	11	70,700,548	70,731,970	31,422 +	1
GenelD:193043	Zfp3	11	70,764,447	70,772,928	8,481 +	1
GenelD:54189	Rabep1	11	70,844,763	70,943,105	98,342 +	1
GenelD:19069	Nup88	11	70,943,071	70,969,973	26,902 -	1
GenelD:69723	Rpain	11	70,970,200	70,977,933	7,733 +	2
GenelD:12261	C1qbp	11	70,977,846	70,983,026	5,180 -	2
GenelD:216877	Dhx33	11	70,984,091	71,004,432	20,341 -	2
GenelD:116891	Derl2	11	71,007,445	71,019,263	11,818 -	1
GenelD:74477	4933427D14Rik	11	72,154,097	72,203,371	49,274 -	1

GenelD:52700	Txndc17	11	72,207,554	72,210,487	2,933 +	1
GenelD:67279	Med31	11	72,211,724	72,215,592	3,868 -	1
GenelD:75304	4930563E22Rik	11	72,215,138	72,218,450	3,312 +	1
GenelD:276829	Smtnl2	11	72,390,114	72,411,713	21,599 -	1
GenelD:71522	Ggt6	11	72,435,526	72,438,407	2,881 +	1
GenelD:18432	Mybbp1a	11	72,441,378	72,451,550	10,172 +	1
GenelD:216892	Spns2	11	72,451,638	72,489,904	38,266 -	2
GenelD:77577	Spns3	11	72,498,156	72,550,246	52,090 -	1
GenelD:67128	Ube2g1	11	72,607,261	72,686,481	79,220 +	1
GenelD:192986	Cyb5d2	11	72,777,232	72,795,839	18,607 -	1
GenelD:195018	Zzef1	11	72,796,226	72,927,120	130,894 +	1
GenelD:53313	Atp2a3	11	72,961,169	72,993,043	31,874 +	1
GenelD:18436	P2rx1	11	72,999,145	73,015,197	16,052 +	1
GenelD:55984	Camkk1	11	73,019,008	73,042,073	23,065 +	2
GenelD:66874	1200014J11Rik	11	73,047,867	73,083,579	35,712 +	1
GenelD:16407	Itgae	11	73,090,595	73,147,449	56,854 +	1
GenelD:14841	Gsg2	11	73,135,484	73,138,294	2,810 -	1
GenelD:94045	P2rx5	11	73,160,530	73,172,687	12,157 +	1
GenelD:66048	Emc6	11	73,175,503	73,177,042	1,539 -	1
GenelD:76281	Tax1bp3	11	73,177,083	73,182,046	4,963 +	1
GenelD:83429	Ctns	11	73,183,133	73,199,019	15,886 -	1
GenelD:432582	E130309D14Rik	11	74,619,605	74,641,516	21,911 +	2
GenelD:74148	Cluh	11	74,649,495	74,670,847	21,352 +	1
GenelD:18472	Pafah1b1	11	74,673,949	74,724,384	50,435 -	1
GenelD:17428	Mnt	11	74,830,924	74,845,725	14,801 +	3
GenelD:97761	Sgsm2	11	74,849,264	74,897,080	47,816 -	3
GenelD:104662	Tsr1	11	74,898,080	74,909,340	11,260 +	2
GenelD:10021746	Snord91a	11	74,905,446	74,905,505	59 +	2
GenelD:27364	Srr	11	74,906,359	74,925,798	19,439 -	3
GenelD:103677	Smg6	11	74,925,872	75,164,448	238,576 +	3
GenelD:15248	Hic1	11	75,164,565	75,170,255	5,690 -	2
GenelD:387208	Mir212	11	75,173,388	75,173,478	90 +	2
GenelD:387150	Mir132	11	75,173,682	75,173,747	65 +	2
GenelD:246257	Ovca2	11	75,175,943	75,178,808	2,865 -	2
GenelD:116905	Dph1	11	75,177,643	75,190,483	12,840 -	3
GenelD:237847	Rtn4rl1	11	75,193,993	75,267,762	73,769 +	1
GenelD:68275	Rpa1	11	75,300,259	75,348,383	48,124 -	1
GenelD:319822	Smyd4	11	75,348,433	75,405,705	57,272 +	1
GenelD:192652	Wdr81	11	75,440,943	75,454,717	13,774 -	2
GenelD:10004249	Mir22hg	11	75,461,539	75,466,690	5,151 +	2
GenelD:387141	Mir22	11	75,463,716	75,463,810	94 +	2
GenelD:380712	Tlcd2	11	75,468,079	75,470,645	2,566 +	1
GenelD:192159	Prpf8	11	75,486,777	75,509,447	22,670 +	1
GenelD:280408	Rilp	11	75,510,094	75,513,168	3,074 +	1
GenelD:380713	Scarf1	11	75,513,541	75,526,580	13,039 +	2
GenelD:215113	Slc43a2	11	75,531,694	75,577,572	45,878 +	1
GenelD:18738	Pitpna	11	75,588,108	75,628,778	40,670 +	1

GenelD:17913	Myo1c	11	75,651,509	75,674,643	23,134 +	1
GenelD:12928	Crk	11	75,679,310	75,706,092	26,782 +	1
GenelD:22627	Ywhae	11	75,732,887	75,765,841	32,954 +	1
GenelD:13447	Doc2b	11	75,769,090	75,796,057	26,967 -	1
GenelD:76566	Fam101b	11	76,019,194	76,027,782	8,588 -	1
GenelD:116972	Fam57a	11	76,202,056	76,208,257	6,201 +	2
GenelD:276919	Gemin4	11	76,210,571	76,217,572	7,001 -	2
GenelD:13168	Dbil5	11	76,217,613	76,218,665	1,052 +	1
GenelD:67201	Glod4	11	76,220,395	76,243,699	23,304 -	1
GenelD:18230	Nxn	11	76,257,226	76,399,141	141,915 -	1
GenelD:56322	Timm22	11	76,407,167	76,416,312	9,145 +	1
GenelD:109934	Abr	11	76,416,734	76,577,727	160,993 -	3
GenelD:12874	Cpd	11	76,777,208	76,847,008	69,800 -	1
GenelD:104184	Blmh	11	76,945,656	76,987,389	41,733 +	1
GenelD:237860	Ssh2	11	77,216,425	77,460,220	243,795 +	2
GenelD:216961	Coro6	11	77,463,913	77,469,501	5,588 +	1
GenelD:268445	Ankrd13b	11	77,470,487	77,489,678	19,191 -	2
GenelD:216963	Git1	11	77,493,412	77,507,774	14,362 +	3
GenelD:216964	Trp53i13	11	77,508,099	77,513,273	5,174 -	2
GenelD:67477	Abhd15	11	77,515,117	77,520,628	5,511 +	2
GenelD:10105579	LOC101055794	11	77,516,435	77,519,198	2,763 -	2
GenelD:68564	Nufip2	11	77,686,139	77,717,966	31,827 +	1
GenelD:20370	Sez6	11	77,930,943	77,979,048	48,105 +	1
GenelD:268448	Phf12	11	77,982,816	78,030,536	47,720 +	2
GenelD:10050417	A030003K02Rik	11	78,030,006	78,032,665	2,659 -	1
GenelD:70451	Dhrs13	11	78,032,313	78,037,864	5,551 +	1
GenelD:14252	Flot2	11	78,037,941	78,060,432	22,491 +	1
GenelD:216971	Fam222b	11	78,094,673	78,157,339	62,666 +	1
GenelD:22032	Traf4	11	78,158,423	78,165,550	7,127 -	1
GenelD:140859	Nek8	11	78,166,106	78,176,666	10,560 -	2
GenelD:68385	Tlcd1	11	78,178,766	78,180,772	2,006 +	2
GenelD:268449	Rpl23a	11	78,180,935	78,183,584	2,649 -	2
GenelD:10052907	Snord42a	11	78,181,302	78,181,346	44 -	2
GenelD:10021653	Snord4a	11	78,181,687	78,181,756	69 -	2
GenelD:10052907	Snord42b	11	78,183,059	78,183,113	54 -	2
GenelD:19376	Rab34	11	78,188,427	78,192,193	3,766 +	2
GenelD:216974	Proca1	11	78,193,392	78,205,763	12,371 +	1
GenelD:20926	Supt6	11	78,206,749	78,245,703	38,954 -	1
GenelD:20316	Sdf2	11	78,245,746	78,255,496	9,750 +	2
GenelD:72503	2610507B11Rik	11	78,261,754	78,290,625	28,871 +	1
GenelD:54141	Spag5	11	78,301,591	78,322,454	20,863 +	1
GenelD:11676	Aldoc	11	78,324,198	78,326,760	2,562 +	1
GenelD:276846	Pigs	11	78,328,422	78,342,776	14,354 +	2
GenelD:22248	Unc119	11	78,343,522	78,349,156	5,634 +	1
GenelD:52466	Slc46a1	11	78,465,701	78,471,945	6,244 +	1
GenelD:237868	Sarm1	11	78,472,330	78,497,754	25,424 -	1
GenelD:22370	Vtn	11	78,499,120	78,502,325	3,205 +	1

GenelD:18292	Sebox	11	78,503,513	78,505,081	1,568 +	1
GenelD:195040	Tmem199	11	78,507,055	78,512,168	5,113 -	1
GenelD:67811	Poldip2	11	78,512,296	78,522,736	10,440 +	1
GenelD:21927	Tnfaip1	11	78,522,850	78,536,260	13,410 -	1
GenelD:16706	Ksr1	11	79,014,801	79,146,354	131,553 -	1
GenelD:78889	Wsb1	11	79,239,382	79,254,695	15,313 -	1
GenelD:18015	Nf1	11	79,339,892	79,581,609	241,717 +	1
GenelD:268451	Rab11fip4	11	79,591,212	79,694,012	102,800 +	2
GenelD:72218	4930542H20Rik	11	79,670,373	79,675,086	4,713 -	1
GenelD:387188	Mir193	11	79,711,969	79,712,034	65 +	2
GenelD:54394	Crlf3	11	80,046,499	80,080,955	34,456 -	2
GenelD:237877	Atad5	11	80,089,400	80,135,791	46,391 +	2
GenelD:71956	Rnf135	11	80,183,872	80,199,753	15,881 +	1
GenelD:59040	Rhot1	11	80,209,055	80,267,907	58,852 +	1
GenelD:246104	Rhbdl3	11	80,300,912	80,355,986	55,074 +	1
GenelD:70591	5730455P16Rik	11	80,360,492	80,378,015	17,523 -	1
GenelD:22680	Zfp207	11	80,383,279	80,405,874	22,595 +	1
GenelD:69077	Psm11	11	80,428,615	80,472,133	43,518 +	2
GenelD:12569	Cdk5r1	11	80,477,046	80,481,179	4,133 +	1
GenelD:338367	Myo1d	11	80,482,127	80,780,025	297,898 -	2
GenelD:10050327	Gm11423	11	82,779,601	82,781,042	1,441 -	1
GenelD:16882	Lig3	11	82,781,135	82,804,274	23,139 +	1
GenelD:78919	Fndc8	11	82,892,145	82,900,737	8,592 +	1
GenelD:217011	Nle1	11	82,900,768	82,908,395	7,627 -	1
GenelD:217012	Unc45b	11	82,911,253	82,943,406	32,153 +	2
GenelD:613254	AA465934	11	83,291,699	83,294,637	2,938 +	1
GenelD:103729	AI450353	11	83,293,430	83,294,929	1,499 +	1
GenelD:10030273	Snord7	11	83,294,304	83,294,399	95 +	1
GenelD:103737	Pex12	11	83,294,645	83,298,977	4,332 -	1
GenelD:71770	Ap2b1	11	83,302,697	83,405,035	102,338 +	1
GenelD:217038	Mrm1	11	84,813,061	84,819,515	6,454 -	1
GenelD:192970	Dhrs11	11	84,820,728	84,829,003	8,275 -	1
GenelD:74995	4930502E09Rik	11	84,829,178	84,830,868	1,690 +	1
GenelD:217039	Ggnbp2	11	84,832,361	84,870,738	38,377 -	4
GenelD:70325	Pigw	11	84,876,313	84,880,285	3,972 -	3
GenelD:66196	Myo19	11	84,880,220	84,911,131	30,911 +	4
GenelD:448850	Znhit3	11	84,910,955	84,916,356	5,401 -	1
GenelD:66884	Appbp2	11	85,191,308	85,235,120	43,812 -	1
GenelD:654810	D630032N06Rik	11	85,235,166	85,238,304	3,138 +	1
GenelD:53892	Ppm1d	11	85,311,254	85,347,071	35,817 +	1
GenelD:192197	Bcas3	11	85,353,164	85,826,058	472,894 +	2
GenelD:69909	2610027K06Rik	11	85,795,578	85,832,388	36,810 -	4
GenelD:21385	Tbx2	11	85,832,615	85,841,948	9,333 +	4
GenelD:237911	Brip1	11	86,058,136	86,201,193	143,057 -	1
GenelD:70422	Ints2	11	86,210,683	86,257,568	46,885 -	2
GenelD:327987	Med13	11	86,265,715	86,357,525	91,810 -	2
GenelD:72508	Rps6kb1	11	86,499,009	86,544,807	45,798 -	1

GenelD:56427	Tubd1	11	86,544,991	86,567,360	22,369 +	1
GenelD:67300	Cltc	11	86,694,653	86,757,492	62,839 -	1
GenelD:77864	Ypel2	11	86,936,425	86,993,762	57,337 -	1
GenelD:74133	Smg8	11	87,077,732	87,086,777	9,045 -	1
GenelD:270906	Prr11	11	87,089,156	87,108,714	19,558 -	2
GenelD:66140	Ska2	11	87,109,261	87,122,974	13,713 +	2
GenelD:723834	Mir301	11	87,113,004	87,113,089	85 +	1
GenelD:68729	Trim37	11	87,127,077	87,220,682	93,605 +	1
GenelD:320472	Ppm1e	11	87,226,906	87,358,994	132,088 -	1
GenelD:68097	Dynll2	11	87,979,525	87,998,298	18,773 -	1
GenelD:72087	2010015M23Rik	11	88,039,580	88,047,561	7,981 -	1
GenelD:110809	Srsf1	11	88,047,671	88,053,757	6,086 +	1
GenelD:22344	Vezf1	11	88,068,341	88,084,729	16,388 +	1
GenelD:70393	2210416O15Rik	11	88,098,058	88,100,107	2,049 +	1
GenelD:103841	Cuedc1	11	88,099,146	88,194,140	94,994 +	2
GenelD:64656	Mrps23	11	88,204,418	88,211,507	7,089 +	1
GenelD:76626	Msi2	11	88,339,382	88,718,267	378,885 -	1
GenelD:193280	C030037D09Rik	11	88,718,643	88,728,572	9,929 +	1
GenelD:11640	Akap1	11	88,830,792	88,864,586	33,794 -	1
GenelD:12812	Coil	11	88,973,935	88,991,613	17,678 +	1
GenelD:217069	Trim25	11	88,999,403	89,020,293	20,890 +	1
GenelD:56077	Dgke	11	89,037,582	89,060,748	23,166 -	1
GenelD:414094	A930013B10Rik	11	89,060,409	89,067,880	7,471 +	1
GenelD:18121	Nog	11	89,300,638	89,302,559	1,921 -	1
GenelD:20913	Stxbp4	11	90,476,492	90,638,108	161,616 -	1
GenelD:69802	Cox11	11	90,638,184	90,645,977	7,793 +	1
GenelD:71943	Tom1l1	11	90,645,691	90,687,601	41,910 -	1
GenelD:217109	Utp18	11	93,859,243	93,885,766	26,523 -	1
GenelD:103537	Mbtd1	11	93,886,219	93,946,984	60,765 +	2
GenelD:18103	Nme2	11	93,949,815	93,956,007	6,192 -	1
GenelD:18102	Nme1	11	93,958,925	93,968,521	9,596 -	1
GenelD:70834	Spag9	11	93,996,091	94,126,083	129,992 +	1
GenelD:22057	Tob1	11	94,211,454	94,215,495	4,041 +	1
GenelD:278507	Wfikkn2	11	94,235,952	94,242,579	6,627 -	1
GenelD:67684	Luc7l3	11	94,291,139	94,321,911	30,772 -	2
GenelD:71452	Ankrd40	11	94,328,001	94,341,847	13,846 +	2
GenelD:12291	Cacna1g	11	94,408,391	94,474,198	65,807 -	1
GenelD:217116	Spata20	11	94,478,904	94,485,310	6,406 -	1
GenelD:71889	Epn3	11	94,489,599	94,499,974	10,375 -	1
GenelD:104601	Mycbpap	11	94,501,347	94,521,502	20,155 -	1
GenelD:237926	Rsad1	11	94,539,798	94,549,207	9,409 -	1
GenelD:264895	Acsf2	11	94,557,102	94,601,786	44,684 -	1
GenelD:98238	Lrrc59	11	94,629,824	94,645,216	15,392 +	1
GenelD:217119	Xylt2	11	94,663,847	94,677,493	13,646 -	1
GenelD:217124	Ppp1r9b	11	94,991,212	95,006,898	15,686 +	2
GenelD:217125	Samd14	11	95,009,879	95,026,087	16,208 +	1
GenelD:93670	Tac4	11	95,261,529	95,269,262	7,733 +	1

GenelD:104079	Nxph3	11	95,509,846	95,514,565	4,719 -	1
GenelD:18053	Ngfr	11	95,568,818	95,587,698	18,880 -	2
GenelD:432396	1110035M17Rik	11	95,700,106	95,712,754	12,648 -	1
GenelD:320616	B130006D01Rik	11	95,723,586	95,726,773	3,187 +	1
GenelD:237928	Phospho1	11	95,824,500	95,832,140	7,640 +	2
GenelD:66610	Abi3	11	95,830,072	95,842,476	12,404 -	2
GenelD:268470	Ube2z	11	96,047,431	96,065,364	17,933 -	1
GenelD:11951	Atp5g1	11	96,072,793	96,075,694	2,901 -	1
GenelD:193022	Gm53	11	96,251,660	96,264,484	12,824 +	1
GenelD:15416	Hoxb8	11	96,281,905	96,285,325	3,420 +	1
GenelD:15415	Hoxb7	11	96,286,646	96,290,163	3,517 +	1
GenelD:15410	Hoxb3	11	96,323,126	96,347,930	24,804 +	2
GenelD:103889	Hoxb2	11	96,351,632	96,354,016	2,384 +	2
GenelD:18023	Nfe2l1	11	96,817,414	96,829,968	12,554 -	2
GenelD:56358	Copz2	11	96,849,876	96,861,203	11,327 +	1
GenelD:387170	Mir152	11	96,850,393	96,850,465	72 +	1
GenelD:80280	Cdk5rap3	11	96,907,786	96,916,481	8,695 -	1
GenelD:10050263	Gm11525	11	96,918,941	96,922,493	3,552 -	1
GenelD:78912	Sp2	11	96,953,337	96,977,688	24,351 -	1
GenelD:83395	Sp6	11	97,013,569	97,024,738	11,169 +	1
GenelD:217140	Scrn2	11	97,029,952	97,033,960	4,008 +	1
GenelD:73174	Tbkbp1	11	97,136,171	97,149,712	13,541 -	1
GenelD:16211	Kpnb1	11	97,159,710	97,187,892	28,182 -	2
GenelD:19155	Npepps	11	97,205,854	97,280,576	74,722 -	1
GenelD:192157	Socs7	11	97,362,551	97,398,542	35,991 +	2
GenelD:58996	Arhgap23	11	97,450,160	97,502,400	52,240 +	1
GenelD:69729	2410003L11Rik	11	97,598,511	97,622,893	24,382 +	1
GenelD:103551	E130012A19Rik	11	97,627,387	97,629,716	2,329 -	1
GenelD:246198	Mllt6	11	97,663,412	97,685,458	22,046 +	1
GenelD:217149	Cisd3	11	97,685,952	97,688,625	2,673 +	2
GenelD:22658	Pcgf2	11	97,688,823	97,700,497	11,674 -	3
GenelD:26446	Psmb3	11	97,703,434	97,713,500	10,066 +	2
GenelD:108083	Pip4k2b	11	97,715,157	97,744,704	29,547 -	1
GenelD:67480	Cwc25	11	97,745,470	97,766,613	21,143 -	1
GenelD:72215	1700001P01Rik	11	97,771,481	97,775,918	4,437 -	2
GenelD:65019	Rpl23	11	97,777,526	97,782,439	4,913 -	2
GenelD:10030249	Snora21	11	97,781,639	97,781,766	127 -	2
GenelD:16796	Lasp1	11	97,799,672	97,838,764	39,092 +	1
GenelD:72324	Plxdc1	11	97,923,237	97,986,446	63,209 -	1
GenelD:217151	Arl5c	11	97,989,578	97,996,173	6,595 -	1
GenelD:12295	Cacnb1	11	98,002,901	98,022,627	19,726 -	2
GenelD:19921	Rpl19	11	98,026,710	98,030,493	3,783 +	2
GenelD:217154	Stac2	11	98,036,624	98,053,462	16,838 -	2
GenelD:72194	Fbxl20	11	98,082,554	98,149,616	67,062 -	1
GenelD:19014	Med1	11	98,152,154	98,193,293	41,139 -	2
GenelD:69131	Cdk12	11	98,203,305	98,253,540	50,235 +	1
GenelD:18013	Neurod2	11	98,325,417	98,329,645	4,228 -	1

GenelD:13866	Erbp2	11	98,412,484	98,437,716	25,232 +	1
GenelD:66612	Ormdl3	11	98,581,294	98,587,245	5,951 -	1
GenelD:57911	Gsdma	11	98,664,351	98,677,708	13,357 +	1
GenelD:22123	Psm3	11	98,682,554	98,695,978	13,424 +	1
GenelD:21833	Thra	11	98,741,873	98,765,111	23,238 +	4
GenelD:217166	Nr1d1	11	98,767,935	98,775,242	7,307 -	3
GenelD:74026	Msl1	11	98,795,769	98,807,859	12,090 +	2
GenelD:10003726	Gm12359	11	98,798,309	98,810,089	11,780 -	2
GenelD:192160	Casc3	11	98,809,808	98,833,807	23,999 +	1
GenelD:19401	Rara	11	98,937,696	98,974,942	37,246 +	7
GenelD:353155	Gjd3	11	98,982,180	98,983,016	836 -	1
GenelD:16010	Igfbp4	11	99,041,260	99,052,646	11,386 +	1
GenelD:57376	Smarce1	11	99,209,047	99,231,017	21,970 -	1
GenelD:268481	Krt222	11	99,233,098	99,244,067	10,969 -	1
GenelD:66180	Leprel4	11	100,408,748	100,414,819	6,071 -	1
GenelD:14230	Fkbp10	11	100,415,694	100,424,840	9,146 +	1
GenelD:68106	Nt5c3b	11	100,422,321	100,441,089	18,768 -	2
GenelD:66720	Klhl10	11	100,441,924	100,457,024	15,100 +	1
GenelD:217194	Klhl11	11	100,462,612	100,472,782	10,170 -	1
GenelD:104112	Acly	11	100,476,352	100,528,000	51,648 -	2
GenelD:56354	Dnajc7	11	100,582,836	100,620,168	37,332 -	1
GenelD:71966	Nkiras2	11	100,622,955	100,627,602	4,647 +	1
GenelD:278304	Zfp385c	11	100,626,219	100,650,693	24,474 -	1
GenelD:80861	Dhx58	11	100,694,884	100,704,271	9,387 -	2
GenelD:14534	Kat2a	11	100,704,746	100,712,467	7,721 -	2
GenelD:75482	Hspb9	11	100,713,850	100,714,575	725 +	2
GenelD:19345	Rab5c	11	100,715,266	100,738,130	22,864 -	2
GenelD:20851	Stat5b	11	100,780,731	100,850,585	69,854 -	1
GenelD:20850	Stat5a	11	100,859,351	100,885,169	25,818 +	1
GenelD:19285	Ptrf	11	100,956,736	100,970,617	13,881 -	2
GenelD:11975	Atp6v0a1	11	101,009,452	101,063,719	54,267 +	1
GenelD:27419	Naglu	11	101,070,094	101,077,672	7,578 +	3
GenelD:15485	Hsd17b1	11	101,078,411	101,080,505	2,094 +	3
GenelD:71743	Coasy	11	101,082,625	101,086,619	3,994 +	3
GenelD:21428	Mlx	11	101,087,290	101,092,207	4,917 +	3
GenelD:19183	Psmc3ip	11	101,092,141	101,095,435	3,294 -	2
GenelD:67998	Fam134c	11	101,096,322	101,119,843	23,521 -	2
GenelD:103733	Tubg1	11	101,120,131	101,126,419	6,288 +	1
GenelD:103768	Tubg2	11	101,155,884	101,161,787	5,903 +	1
GenelD:217198	Plekhh3	11	101,162,679	101,171,302	8,623 -	1
GenelD:12777	Ccr10	11	101,172,998	101,175,443	2,445 -	1
GenelD:53321	Cntnap1	11	101,176,117	101,190,720	14,603 +	1
GenelD:14055	Ezh1	11	101,191,115	101,226,450	35,335 -	1
GenelD:54409	Ramp2	11	101,246,334	101,248,250	1,916 +	2
GenelD:28084	Vps25	11	101,253,743	101,259,546	5,803 +	2
GenelD:69847	Wnk4	11	101,260,567	101,277,409	16,842 +	1
GenelD:19192	Psme3	11	101,316,251	101,323,531	7,280 +	1

GenelD:237940	Aoc2	11	101,325,063	101,329,699	4,636 +	1
GenelD:69684	Aarsd1	11	101,406,839	101,417,433	10,594 -	2
GenelD:73635	Ptges3l	11	101,418,814	101,425,333	6,519 -	2
GenelD:217201	Rundc1	11	101,425,085	101,435,666	10,581 +	3
GenelD:19942	Rpl27	11	101,442,245	101,445,596	3,351 +	1
GenelD:70110	Ifi35	11	101,448,412	101,458,701	10,289 +	2
GenelD:26949	Vat1	11	101,458,748	101,466,199	7,451 -	1
GenelD:11858	Rnd2	11	101,468,338	101,471,306	2,968 +	1
GenelD:19848	Rnu2-10	11	101,658,238	101,658,424	186 +	1
GenelD:80981	Arl4d	11	101,665,541	101,667,832	2,291 +	1
GenelD:72349	Dusp3	11	101,971,143	101,984,791	13,648 -	1
GenelD:75437	1700006E09Rik	11	101,987,056	101,992,264	5,208 +	1
GenelD:268490	Lsm12	11	102,163,489	102,185,256	21,767 -	2
GenelD:68401	G6pc3	11	102,189,699	102,194,081	4,382 +	2
GenelD:15184	Hdac5	11	102,195,747	102,230,172	34,425 -	1
GenelD:217216	BC030867	11	102,248,882	102,265,183	16,301 +	1
GenelD:72053	Tmub2	11	102,284,961	102,289,424	4,463 +	2
GenelD:217218	Atxn7l3	11	102,289,300	102,296,629	7,329 -	2
GenelD:21429	Ubtf	11	102,304,560	102,319,096	14,536 -	6
GenelD:51799	Rundc3a	11	102,393,403	102,402,939	9,536 +	1
GenelD:68066	Slc25a39	11	102,402,969	102,407,517	4,548 -	1
GenelD:14824	Grn	11	102,430,322	102,436,809	6,487 +	1
GenelD:217219	Fam171a2	11	102,436,981	102,447,663	10,682 -	2
GenelD:16399	Itga2b	11	102,453,297	102,469,883	16,586 -	1
GenelD:237943	Gpatch8	11	102,475,915	102,556,158	80,243 -	1
GenelD:57265	Fzd2	11	102,604,431	102,608,058	3,627 +	1
GenelD:52715	Ccdc43	11	102,684,688	102,697,725	13,037 -	1
GenelD:11488	Adam11	11	102,761,439	102,780,262	18,823 +	2
GenelD:20624	Eftud2	11	102,838,472	102,880,975	42,503 -	1
GenelD:73293	Ccdc103	11	102,881,244	102,885,215	3,971 +	1
GenelD:66784	Fam187a	11	102,885,169	102,886,731	1,562 +	1
GenelD:14580	Gfap	11	102,887,336	102,897,200	9,864 -	1
GenelD:70218	Kif18b	11	102,905,518	102,925,124	19,606 -	1
GenelD:68087	Dcakd	11	102,994,056	103,017,147	23,091 -	1
GenelD:10086219	LOC100862190	11	103,026,988	103,028,328	1,340 -	1
GenelD:72469	Plcd3	11	103,070,296	103,101,658	31,362 -	1
GenelD:67131	Acbd4	11	103,101,688	103,112,199	10,511 +	3
GenelD:192231	Hexim1	11	103,116,325	103,119,725	3,400 +	2
GenelD:71059	Hexim2	11	103,133,339	103,139,908	6,569 +	1
GenelD:57778	Fmnl1	11	103,171,138	103,198,900	27,762 +	1
GenelD:104582	Rprml	11	103,649,509	103,650,580	1,071 +	1
GenelD:56494	Gosr2	11	103,676,849	103,697,710	20,861 -	1
GenelD:399609	C130046K22Rik	11	103,697,724	103,725,573	27,849 +	1
GenelD:22415	Wnt3	11	103,774,175	103,818,021	43,846 +	1
GenelD:11841	Arf2	11	103,966,871	103,985,336	18,465 +	1
GenelD:17762	Mapt	11	104,231,436	104,332,096	100,660 +	1
GenelD:76719	Kansl1	11	104,333,229	104,442,291	109,062 -	1

GenelD:70894	Efcab3	11	105,092,219	105,117,537	25,318 +	1
GenelD:52686	Mettl2	11	105,126,425	105,141,146	14,721 +	1
GenelD:73431	1700052K11Rik	11	105,179,020	105,181,433	2,413 -	2
GenelD:24086	Tlk2	11	105,181,530	105,283,956	102,426 +	3
GenelD:17534	Mrc2	11	105,292,646	105,351,145	58,499 +	1
GenelD:632687	March10	11	105,360,798	105,456,735	95,937 -	1
GenelD:77097	Tanc2	11	105,589,986	105,929,304	339,318 +	1
GenelD:13056	Cyb561	11	105,933,704	105,944,147	10,443 -	1
GenelD:192775	Kcnh6	11	106,008,203	106,034,064	25,861 +	1
GenelD:71833	Dcaf7	11	106,036,872	106,059,324	22,452 +	2
GenelD:70207	Taco1	11	106,066,107	106,073,612	7,505 +	1
GenelD:26406	Map3k3	11	106,084,902	106,155,446	70,544 +	1
GenelD:67163	Ccdc47	11	106,199,354	106,216,367	17,013 -	1
GenelD:72047	Ddx42	11	106,216,926	106,249,140	32,214 +	1
GenelD:19184	Psmc5	11	106,256,185	106,263,112	6,927 +	1
GenelD:83796	Smarcd2	11	106,263,171	106,272,972	9,801 -	1
GenelD:75870	Tcam1	11	106,276,672	106,288,143	11,471 +	1
GenelD:21763	Tex2	11	106,502,139	106,612,930	110,791 -	1
GenelD:50776	Polg2	11	106,768,204	106,779,537	11,333 -	2
GenelD:13207	Ddx5	11	106,780,356	106,788,494	8,138 -	2
GenelD:10052646	Mir3064	11	106,782,693	106,782,759	66 -	2
GenelD:320162	Cep95	11	106,789,252	106,818,861	29,609 +	2
GenelD:66313	Smurf2	11	106,820,064	106,920,715	100,651 -	1
GenelD:16647	Kpna2	11	106,988,629	106,999,525	10,896 -	1
GenelD:68979	Nol11	11	107,166,660	107,189,381	22,721 -	1
GenelD:71795	Pitpnc1	11	107,207,892	107,470,720	262,828 -	1
GenelD:66997	Psmd12	11	107,479,528	107,498,036	18,508 +	1
GenelD:442842	A830035A12Rik	11	107,531,757	107,562,202	30,445 -	1
GenelD:78455	Helz	11	107,547,960	107,686,943	138,983 +	1
GenelD:54377	Cacng4	11	107,734,780	107,794,464	59,684 -	2
GenelD:18750	Prkca	11	107,933,387	108,343,888	410,501 -	1
GenelD:76380	Cep112	11	108,425,266	108,860,615	435,349 +	1
GenelD:12006	Axin2	11	108,920,349	108,950,783	30,434 +	1
GenelD:67927	1700096J18Rik	11	109,346,867	109,353,651	6,784 +	1
GenelD:10003676	Gm11696	11	109,354,778	109,363,654	8,876 -	1
GenelD:14674	Gna13	11	109,362,794	109,401,369	38,575 +	1
GenelD:104681	Slc16a6	11	109,450,855	109,473,596	22,741 -	2
GenelD:74008	Arsg	11	109,473,374	109,573,330	99,956 +	2
GenelD:52639	Wipi1	11	109,573,521	109,611,389	37,868 -	1
GenelD:19084	Prkar1a	11	109,650,949	109,669,648	18,699 +	1
GenelD:20682	Sox9	11	112,782,210	112,787,757	5,547 +	3
GenelD:10003873	Gm11681	11	112,792,731	112,799,008	6,277 -	2
GenelD:16834	Cog1	11	113,649,529	113,662,401	12,872 +	1
GenelD:28081	Fam104a	11	113,661,319	113,684,151	22,832 -	1
GenelD:276852	D11Wsu47e	11	113,684,412	113,694,647	10,235 +	1
GenelD:56699	Cdc42ep4	11	113,726,850	113,751,815	24,965 -	1
GenelD:237979	Sdk2	11	113,780,790	114,065,951	285,161 -	2

GenelD:67671	Rpl38	11	114,668,543	114,672,331	3,788 +	1
GenelD:117160	Ttyh2	11	114,675,468	114,720,984	45,516 +	2
GenelD:70355	Gprc5c	11	114,851,532	114,872,617	21,085 +	1
GenelD:320534	Tmem104	11	115,187,487	115,247,025	59,538 +	1
GenelD:14813	Grin2c	11	115,249,169	115,267,243	18,074 -	1
GenelD:217310	Hid1	11	115,347,709	115,367,719	20,010 -	1
GenelD:237988	Cdr2l	11	115,381,916	115,396,132	14,216 +	2
GenelD:68572	Ict1	11	115,403,766	115,410,913	7,147 +	2
GenelD:71679	Atp5h	11	115,415,697	115,419,919	4,222 -	1
GenelD:70382	Kctd2	11	115,420,126	115,431,274	11,148 +	1
GenelD:217316	Slc16a5	11	115,462,473	115,474,398	11,925 +	1
GenelD:276905	Armc7	11	115,475,677	115,490,466	14,789 +	2
GenelD:50773	Nt5c	11	115,490,425	115,491,814	1,389 -	1
GenelD:15374	Hn1	11	115,497,353	115,514,370	17,017 -	2
GenelD:170930	Sumo2	11	115,523,109	115,536,230	13,121 -	2
GenelD:260302	Gga3	11	115,584,255	115,603,916	19,661 -	2
GenelD:50529	Mrps7	11	115,604,151	115,607,624	3,473 +	2
GenelD:69674	Mif4gd	11	115,607,918	115,612,969	5,051 -	2
GenelD:67283	Slc25a19	11	115,614,181	115,628,295	14,114 -	2
GenelD:71947	2310067B10Rik	11	115,765,433	115,799,033	33,600 +	1
GenelD:140721	Caskin2	11	115,799,352	115,813,592	14,240 -	4
GenelD:76265	Tsen54	11	115,814,739	115,823,102	8,363 +	3
GenelD:217325	Llgl2	11	115,824,058	115,855,780	31,722 +	3
GenelD:10105597	LOC101055975	11	115,857,906	115,859,889	1,983 -	1
GenelD:192897	Itgb4	11	115,974,725	116,008,411	33,686 +	1
GenelD:14635	Galk1	11	116,008,357	116,012,719	4,362 -	1
GenelD:15081	H3f3b	11	116,021,961	116,024,504	2,543 -	1
GenelD:217331	Unk	11	116,030,322	116,061,194	30,872 +	1
GenelD:217333	Trim47	11	116,105,750	116,110,235	4,485 -	2
GenelD:338364	Trim65	11	116,124,708	116,131,128	6,420 -	1
GenelD:60441	Mrp138	11	116,131,817	116,138,868	7,051 -	2
GenelD:217335	Fbf1	11	116,142,285	116,168,178	25,893 -	1
GenelD:14027	Evpl	11	116,220,559	116,238,091	17,532 -	1
GenelD:217337	Srp68	11	116,245,166	116,274,217	29,051 -	2
GenelD:14428	Galr2	11	116,280,939	116,283,938	2,999 +	1
GenelD:15223	Foxj1	11	116,330,704	116,335,354	4,650 -	1
GenelD:217340	Rnf157	11	116,336,345	116,413,032	76,687 -	2
GenelD:319370	Ubald2	11	116,434,094	116,439,077	4,983 +	2
GenelD:217341	Qrich2	11	116,441,325	116,454,347	13,022 -	2
GenelD:67763	Prpsap1	11	116,470,816	116,490,346	19,530 -	1
GenelD:20698	Sphk1	11	116,531,911	116,536,675	4,764 +	1
GenelD:217342	Ube2o	11	116,537,753	116,581,447	43,694 -	2
GenelD:217344	Rhbdf2	11	116,598,165	116,627,019	28,854 -	1
GenelD:114886	Cygb	11	116,645,595	116,654,313	8,718 -	1
GenelD:10003857	Gm11744	11	116,657,108	116,668,389	11,281 +	1
GenelD:67622	Mxra7	11	116,803,400	116,828,046	24,646 -	1
GenelD:107817	Jmjd6	11	116,837,432	116,843,449	6,017 -	3

GenelD:74319	Mettl23	11	116,843,515	116,849,740	6,225 +	2
GenelD:20382	Srsf2	11	116,849,897	116,853,094	3,197 -	2
GenelD:69900	Mfsd11	11	116,854,015	116,875,660	21,645 +	1
GenelD:74136	Sec14l1	11	117,115,172	117,159,268	44,096 +	1
GenelD:53860	Sept9	11	117,199,661	117,362,325	162,664 +	1
GenelD:217351	Tnrc6c	11	117,654,289	117,763,439	109,150 +	2
GenelD:217353	Tmc6	11	117,765,985	117,780,683	14,698 -	1
GenelD:217356	Tmc8	11	117,782,297	117,793,137	10,840 +	1
GenelD:77727	6030468B19Rik	11	117,797,660	117,807,308	9,648 +	1
GenelD:20973	Syngt2	11	117,809,667	117,814,286	4,619 +	1
GenelD:21877	Tk1	11	117,815,519	117,826,014	10,495 -	1
GenelD:71562	Afmid	11	117,825,919	117,839,908	13,989 +	1
GenelD:11799	Birc5	11	117,849,237	117,855,743	6,506 +	1
GenelD:546519	Tmem235	11	117,860,752	117,865,543	4,791 +	1
GenelD:71776	Tha1	11	117,867,949	117,873,526	5,577 -	1
GenelD:10050375	Gm11725	11	117,871,250	117,887,416	16,166 +	1
GenelD:12702	Socs3	11	117,966,079	117,969,366	3,287 -	1
GenelD:74451	Pgs1	11	117,986,857	118,024,011	37,154 +	1
GenelD:21858	Timp2	11	118,301,061	118,355,411	54,350 -	1
GenelD:76025	Cant1	11	118,406,289	118,419,118	12,829 -	1
GenelD:56745	C1qtnf1	11	118,428,457	118,451,782	23,325 +	1
GenelD:12416	Cbx2	11	119,023,029	119,031,270	8,241 +	2
GenelD:30951	Cbx8	11	119,038,436	119,040,913	2,477 -	2
GenelD:12418	Cbx4	11	119,077,571	119,086,237	8,666 -	1
GenelD:207592	Tbc1d16	11	119,143,043	119,228,499	85,456 -	2
GenelD:207607	Ccdc40	11	119,228,572	119,265,212	36,640 +	1
GenelD:192170	Eif4a3	11	119,288,363	119,300,043	11,680 -	1
GenelD:170720	Card14	11	119,314,787	119,345,375	30,588 +	1
GenelD:27029	Sgsh	11	119,343,489	119,355,510	12,021 -	1
GenelD:268512	Slc26a11	11	119,355,557	119,381,076	25,519 +	2
GenelD:10031669	Mir1932	11	119,390,472	119,390,561	89 +	1
GenelD:672511	Rnf213	11	119,393,100	119,487,418	94,318 +	2
GenelD:338371	Endov	11	119,491,347	119,511,465	20,118 +	1
GenelD:18164	Nptx1	11	119,538,719	119,547,820	9,101 -	1
GenelD:10050383	Gm11762	11	119,548,630	119,569,046	20,416 +	1
GenelD:74370	Rptor	11	119,602,995	119,899,591	296,596 +	1
GenelD:208092	Chmp6	11	119,913,810	119,919,552	5,742 +	1
GenelD:108100	Baiap2	11	119,943,092	120,006,782	63,690 +	2
GenelD:11302	Aatk	11	120,007,313	120,047,145	39,832 -	1
GenelD:723844	Mir338	11	120,014,765	120,014,862	97 -	1
GenelD:10052651	Mir3065	11	120,014,767	120,014,853	86 +	1
GenelD:76377	Gm9734	11	120,185,343	120,186,676	1,333 +	3
GenelD:10004233	2810410L24Rik	11	120,186,650	120,189,856	3,206 -	3
GenelD:268515	Bahcc1	11	120,232,947	120,292,297	59,350 +	4
GenelD:10050391	Gm11772	11	120,235,187	120,236,118	931 -	3
GenelD:11465	Actg1	11	120,345,690	120,348,484	2,794 -	2
GenelD:66838	0610009L18Rik	11	120,348,678	120,351,190	2,512 +	2

GenelD:238021	Fscn2	11	120,361,534	120,368,173	6,639 +	2
GenelD:71885	2310003H01Rik	11	120,369,562	120,378,746	9,184 -	2
GenelD:217365	Nploc4	11	120,379,798	120,437,700	57,902 -	2
GenelD:208634	Tspan10	11	120,442,631	120,447,321	4,690 +	1
GenelD:18588	Pde6g	11	120,447,610	120,453,483	5,873 -	2
GenelD:66431	Oxld1	11	120,456,604	120,458,063	1,459 -	1
GenelD:67291	Ccdc137	11	120,458,129	120,464,354	6,225 +	1
GenelD:70317	Arl16	11	120,464,326	120,467,600	3,274 -	1
GenelD:15239	Hgs	11	120,467,635	120,483,984	16,349 +	5
GenelD:56282	Mrpl12	11	120,484,669	120,488,754	4,085 +	4
GenelD:10086176	Gm16755	11	120,486,339	120,488,753	2,414 -	4
GenelD:27376	Slc25a10	11	120,491,837	120,501,161	9,324 +	3
GenelD:14527	Gcgr	11	120,530,727	120,538,984	8,257 +	1
GenelD:192173	Fam195b	11	120,542,888	120,549,727	6,839 -	1
GenelD:68701	Ppp1r27	11	120,549,975	120,551,132	1,157 -	1
GenelD:18453	P4hb	11	120,560,304	120,572,936	12,632 -	3
GenelD:192662	Arhgdia	11	120,577,235	120,581,620	4,385 -	3
GenelD:21681	Alyref	11	120,594,516	120,598,365	3,849 -	2
GenelD:66156	Anapc11	11	120,598,421	120,608,198	9,777 +	2
GenelD:208990	Npb	11	120,608,477	120,609,100	623 +	1
GenelD:68671	Pcyt2	11	120,610,087	120,617,890	7,803 -	1
GenelD:209011	Sirt7	11	120,618,372	120,625,002	6,630 -	4
GenelD:17134	Mafg	11	120,628,348	120,633,547	5,199 -	4
GenelD:209027	Pycr1	11	120,635,712	120,643,670	7,958 -	3
GenelD:68938	Aspscr1	11	120,672,973	120,709,447	36,474 +	2
GenelD:20892	Stra13	11	120,710,941	120,713,767	2,826 -	2
GenelD:217366	Lrrc45	11	120,713,953	120,721,128	7,175 +	2
GenelD:170758	Rac3	11	120,721,468	120,723,969	2,501 +	2
GenelD:67880	Dcxr	11	120,725,373	120,727,281	1,908 -	1
GenelD:12409	Cbr2	11	120,729,485	120,732,021	2,536 -	1
GenelD:19719	Rfng	11	120,780,745	120,784,204	3,459 -	2
GenelD:209318	Gps1	11	120,784,272	120,789,102	4,830 +	3
GenelD:68730	Dus1l	11	120,789,202	120,796,395	7,193 -	3
GenelD:14104	Fasn	11	120,805,958	120,824,547	18,589 -	2
GenelD:71276	Ccdc57	11	120,826,542	120,932,872	106,330 -	1
GenelD:80879	Slc16a3	11	120,948,484	120,959,000	10,516 +	1
GenelD:104318	Csnk1d	11	120,961,741	120,991,333	29,592 -	1
GenelD:73679	Tex19.1	11	121,146,143	121,148,314	2,171 +	1
GenelD:66179	Ogfod3	11	121,177,593	121,204,648	27,055 -	1
GenelD:238023	Hexdc	11	121,204,433	121,222,656	18,223 +	1
GenelD:66840	Wdr45b	11	121,327,203	121,354,447	27,244 -	1
GenelD:217371	Rab40b	11	121,356,121	121,388,251	32,130 -	1
GenelD:63828	Fn3k	11	121,434,953	121,450,490	15,537 +	1
GenelD:108903	Tbcd	11	121,451,949	121,617,170	165,221 +	1
GenelD:210029	Metrn1	11	121,702,427	121,717,389	14,962 +	1
GenelD:19325	Rab10	12	3,247,428	3,309,969	62,541 -	1
GenelD:10004304	1110002L01Rik	12	3,403,883	3,426,747	22,864 -	1

GenelD:75302	Asxl2	12	3,426,857	3,506,852	79,995 +	1
GenelD:13528	Dtnb	12	3,572,391	3,781,398	209,007 +	2
GenelD:13435	Dnmt3a	12	3,806,980	3,914,443	107,463 +	1
GenelD:104111	Adcy3	12	4,133,397	4,213,524	80,127 +	1
GenelD:17977	Ncoa1	12	4,247,362	4,477,182	229,820 -	2
GenelD:14226	Fkbp1b	12	4,833,174	4,841,595	8,421 -	1
GenelD:238037	BC068281	12	4,843,303	4,856,974	13,671 +	1
GenelD:217379	Ubxn2a	12	4,879,032	4,907,520	28,488 -	2
GenelD:320817	Atad2b	12	4,917,353	5,047,410	130,057 +	2
GenelD:208439	Klhl29	12	5,077,465	5,375,682	298,217 -	1
GenelD:80913	Pum2	12	8,674,134	8,752,583	78,449 +	1
GenelD:20969	Sdc1	12	8,771,396	8,793,688	22,292 +	1
GenelD:17775	Laptm4a	12	8,921,307	8,938,742	17,435 +	1
GenelD:69420	1700022H16Rik	12	9,565,236	9,570,585	5,349 -	1
GenelD:23967	Osr1	12	9,574,442	9,581,500	7,058 +	1
GenelD:70881	Nt5c1b	12	10,369,971	10,390,174	20,203 +	1
GenelD:105014	Rdh14	12	10,390,780	10,395,562	4,782 +	1
GenelD:209334	Gen1	12	11,240,926	11,265,787	24,861 -	1
GenelD:67241	Smc6	12	11,265,886	11,319,785	53,899 +	1
GenelD:209550	Rad51ap2	12	11,456,079	11,462,928	6,849 +	1
GenelD:18109	Mycn	12	12,936,093	12,941,836	5,743 -	3
GenelD:104721	Ddx1	12	13,219,307	13,249,174	29,867 -	1
GenelD:217410	Trib2	12	15,791,727	15,816,785	25,058 -	1
GenelD:18217	Ntsr2	12	16,653,470	16,660,236	6,766 +	1
GenelD:268527	Greb1	12	16,670,615	16,800,886	130,271 -	2
GenelD:50496	E2f6	12	16,810,965	16,826,752	15,787 +	2
GenelD:19878	Rock2	12	16,894,978	16,988,274	93,296 +	1
GenelD:71853	Pdia6	12	17,266,595	17,284,770	18,175 +	1
GenelD:18263	Odc1	12	17,544,873	17,551,502	6,629 +	1
GenelD:53602	Hpcal1	12	17,690,814	17,791,926	101,112 +	1
GenelD:54451	Cpsf3	12	21,286,297	21,315,056	28,759 +	1
GenelD:67732	Iah1	12	21,316,392	21,323,607	7,215 +	1
GenelD:11491	Adam17	12	21,323,509	21,373,591	50,082 -	1
GenelD:194655	Klf11	12	24,651,371	24,662,782	11,411 +	1
GenelD:20135	Rrm2	12	24,708,254	24,714,146	5,892 +	1
GenelD:77480	Kidins220	12	24,974,932	25,059,697	84,765 +	1
GenelD:108089	Rnf144a	12	26,306,797	26,415,256	108,459 -	1
GenelD:22169	Cmpk2	12	26,469,215	26,479,837	10,622 +	1
GenelD:20666	Sox11	12	27,334,268	27,342,718	8,450 -	1
GenelD:20115	Rps7	12	28,630,847	28,635,953	5,106 -	1
GenelD:19819	Rnaseh1	12	28,649,602	28,659,591	9,989 +	1
GenelD:69675	Pxdn	12	29,938,036	30,017,658	79,622 +	1
GenelD:16777	Lamb1	12	31,265,294	31,329,639	64,345 +	1
GenelD:13382	Dld	12	31,331,562	31,351,437	19,875 -	1
GenelD:23985	Slc26a4	12	31,519,819	31,559,969	40,150 -	1
GenelD:73389	Hbp1	12	31,926,455	31,950,535	24,080 -	1
GenelD:19088	Prkar2b	12	31,958,479	32,061,279	102,800 -	2

GenelD:72123	Ccdc71l	12	32,378,789	32,382,943	4,154 +	2
GenelD:74076	4933406C10Rik	12	32,919,384	32,953,789	34,405 -	1
GenelD:19027	Sypl	12	32,953,945	32,979,502	25,557 +	1
GenelD:28071	Twistnb	12	33,429,624	33,439,380	9,756 +	1
GenelD:22160	Twist1	12	33,957,671	33,959,831	2,160 +	2
GenelD:217463	Snx13	12	35,047,189	35,147,477	100,288 +	1
GenelD:10016986	Gm10933	12	35,055,101	35,056,959	1,858 +	1
GenelD:11622	Ahr	12	35,497,979	35,534,989	37,010 -	1
GenelD:66912	Bzw2	12	36,091,835	36,156,825	64,990 -	1
GenelD:217473	Ankmy2	12	36,157,124	36,197,291	40,167 +	1
GenelD:10050310	Gm19558	12	36,376,058	36,380,498	4,440 -	1
GenelD:75847	Ispd	12	36,381,519	36,689,444	307,925 +	1
GenelD:14009	Etv1	12	38,780,258	38,868,215	87,957 +	1
GenelD:11861	Arl4a	12	40,033,291	40,037,987	4,696 -	1
GenelD:246196	Zfp277	12	40,315,046	40,445,790	130,744 -	1
GenelD:238130	Dock4	12	40,446,053	40,846,495	400,442 +	1
GenelD:67452	Pnpla8	12	44,269,154	44,313,437	44,283 +	1
GenelD:217517	Stxbp6	12	44,852,486	45,074,483	221,997 -	1
GenelD:18760	Prkd1	12	50,341,231	50,649,223	307,992 -	1
GenelD:94186	Strn3	12	51,608,541	51,691,914	83,373 -	1
GenelD:11782	Ap4s1	12	51,690,966	51,738,939	47,973 +	1
GenelD:207304	Hectd1	12	51,743,722	51,829,536	85,814 -	2
GenelD:544864	Gm5785	12	51,828,185	51,832,457	4,272 +	2
GenelD:320487	Heatr5a	12	51,875,873	51,971,321	95,448 -	1
GenelD:66266	Eapp	12	54,673,467	54,695,865	22,398 -	1
GenelD:72183	Snx6	12	54,746,357	54,795,662	49,305 -	1
GenelD:217578	Baz1a	12	54,892,989	54,986,336	93,347 -	2
GenelD:26443	Psma6	12	55,398,825	55,418,459	19,634 +	1
GenelD:18035	Nfkbia	12	55,489,409	55,492,647	3,238 -	1
GenelD:56856	Insm2	12	55,598,917	55,602,018	3,101 +	1
GenelD:56784	Ralgapa1	12	55,602,899	55,821,167	218,268 -	2
GenelD:104798	E030019B13Rik	12	56,490,428	56,529,420	38,992 -	1
GenelD:21869	Nkx2-1	12	56,531,935	56,536,908	4,973 -	1
GenelD:18094	Nkx2-9	12	56,611,393	56,613,284	1,891 -	1
GenelD:18511	Pax9	12	56,695,639	56,711,230	15,591 +	1
GenelD:328099	Prps113	12	57,230,412	57,242,168	11,756 +	1
GenelD:73490	Mipol1	12	57,230,425	57,457,241	226,816 +	1
GenelD:20334	Sec23a	12	58,958,384	59,012,017	53,633 -	1
GenelD:66603	Gemin2	12	59,013,393	59,027,988	14,595 +	1
GenelD:78232	Trappc6b	12	59,043,092	59,061,461	18,369 -	1
GenelD:18949	Pnn	12	59,066,919	59,074,017	7,098 +	1
GenelD:217615	Ctage5	12	59,129,746	59,190,220	60,474 +	1
GenelD:70611	Fbxo33	12	59,200,655	59,219,483	18,828 -	1
GenelD:328110	Prpf39	12	65,036,334	65,063,386	27,052 +	2
GenelD:30795	Fkbp3	12	65,062,432	65,073,938	11,506 -	2
GenelD:104806	Fancm	12	65,075,606	65,132,058	56,452 +	2
GenelD:217653	Mis18bp1	12	65,132,734	65,172,580	39,846 -	1

GenelD:20090	Rps29	12	69,157,722	69,159,186	1,464 -	1
GenelD:103948	Rn7s1	12	69,159,295	69,159,593	298 +	1
GenelD:69706	Lrr1	12	69,168,814	69,179,010	10,196 +	2
GenelD:66483	Rpl36al	12	69,182,734	69,184,067	1,333 -	1
GenelD:217664	Mgat2	12	69,184,158	69,186,773	2,615 +	2
GenelD:109065	Dnaaf2	12	69,189,838	69,198,429	8,591 -	2
GenelD:414085	9330151L19Rik	12	69,197,211	69,199,868	2,657 +	1
GenelD:18974	Pole2	12	69,201,779	69,228,190	26,411 -	1
GenelD:271005	Klhdc1	12	69,241,832	69,283,961	42,129 +	1
GenelD:69554	Klhdc2	12	69,296,681	69,310,687	14,006 +	1
GenelD:11845	Arf6	12	69,372,150	69,375,980	3,830 +	1
GenelD:207965	Mettl21d	12	69,577,628	69,583,028	5,400 -	1
GenelD:20663	Sos2	12	69,583,761	69,681,852	98,091 -	2
GenelD:217666	L2hgdh	12	69,690,436	69,724,874	34,438 -	1
GenelD:399510	Map4k5	12	69,803,757	69,893,163	89,406 -	1
GenelD:73991	Atl1	12	69,893,105	69,964,085	70,980 +	1
GenelD:64010	Sav1	12	69,965,012	69,987,002	21,990 -	1
GenelD:18080	Nin	12	70,011,435	70,111,925	100,490 -	1
GenelD:110095	Pygl	12	70,190,815	70,227,683	36,868 -	1
GenelD:414124	F730035M05Rik	12	70,227,841	70,234,165	6,324 +	1
GenelD:94090	Trim9	12	70,244,533	70,347,614	103,081 -	1
GenelD:319710	Frmd6	12	70,825,514	70,902,234	76,720 +	1
GenelD:73204	3110056K07Rik	12	70,991,615	71,015,823	24,208 -	1
GenelD:238247	Arid4a	12	71,015,967	71,099,351	83,384 +	1
GenelD:30056	Timm9	12	71,123,172	71,136,675	13,503 -	1
GenelD:76967	2700049A03Rik	12	71,136,848	71,243,303	106,455 +	1
GenelD:59036	Dact1	12	71,309,884	71,320,107	10,223 +	1
GenelD:10105573	LOC101055739	12	71,316,865	71,321,660	4,795 -	1
GenelD:208846	Daam1	12	71,831,078	71,992,367	161,289 +	1
GenelD:238252	Gpr135	12	72,069,618	72,070,991	1,373 -	1
GenelD:67217	L3hypdh	12	72,073,428	72,085,313	11,885 -	3
GenelD:104771	Jkamp	12	72,085,839	72,101,527	15,688 +	2
GenelD:19042	Ppm1a	12	72,761,211	72,794,940	33,729 +	2
GenelD:76357	Trmt5	12	73,280,410	73,286,711	6,301 -	1
GenelD:625098	Slc38a6	12	73,286,848	73,354,045	67,197 +	1
GenelD:238257	Tmem30b	12	73,543,114	73,546,395	3,281 -	1
GenelD:73644	2210039B01Rik	12	73,548,483	73,551,986	3,503 +	1
GenelD:18755	Prkch	12	73,585,041	73,778,185	193,144 +	1
GenelD:15251	Hif1a	12	73,907,867	73,947,530	39,663 +	1
GenelD:10050445	Gm20235	12	73,910,555	73,914,501	3,946 +	1
GenelD:277089	Gm5068	12	73,949,004	73,961,447	12,443 +	1
GenelD:75627	Snapc1	12	73,964,530	73,984,820	20,290 +	1
GenelD:26932	Ppp2r5e	12	75,450,881	75,596,200	145,319 -	1
GenelD:81535	Sgpp1	12	75,714,248	75,735,729	21,481 -	1
GenelD:319565	Syne2	12	75,818,318	76,110,928	292,610 +	1
GenelD:109929	Zbtb25	12	76,348,900	76,369,560	20,660 -	1
GenelD:268564	Zbtb1	12	76,370,266	76,388,747	18,481 +	1

GenelD:10050451	4930426I24Rik	12	76,402,738	76,403,982	1,244 -	1
GenelD:15512	Hspa2	12	76,404,176	76,406,938	2,762 +	1
GenelD:10062860	Mir5135	12	76,533,134	76,533,212	78 -	1
GenelD:263406	Plekhg3	12	76,533,560	76,579,039	45,479 +	1
GenelD:20741	Sptb	12	76,580,488	76,710,547	130,059 -	1
GenelD:17187	Max	12	76,937,269	76,962,248	24,979 -	1
GenelD:53618	Fut8	12	77,238,104	77,475,996	237,892 +	1
GenelD:268566	Gphn	12	78,226,655	78,684,772	458,117 +	1
GenelD:56217	Mpp5	12	78,748,947	78,840,714	91,767 +	1
GenelD:268567	Tmem229b	12	78,961,795	79,007,277	45,482 -	1
GenelD:211945	Plekhh1	12	79,029,163	79,081,655	52,492 +	2
GenelD:110417	Pigh	12	79,080,669	79,089,670	9,001 -	1
GenelD:53612	Vti1b	12	79,156,017	79,172,458	16,441 -	1
GenelD:17252	Rdh11	12	79,175,551	79,191,819	16,268 -	1
GenelD:12192	Zfp36l1	12	80,107,760	80,113,013	5,253 -	3
GenelD:69548	2310015A10Rik	12	80,120,546	80,132,844	12,298 -	3
GenelD:109711	Actn1	12	80,167,542	80,260,371	92,829 -	1
GenelD:320808	Dcaf5	12	80,335,847	80,436,601	100,754 -	1
GenelD:97827	Exd2	12	80,463,095	80,498,135	35,040 +	1
GenelD:69522	2310002D06Rik	12	80,507,206	80,517,954	10,748 +	2
GenelD:108760	Galnt16	12	80,518,990	80,603,896	84,906 +	2
GenelD:13877	Erh	12	80,634,023	80,643,861	9,838 -	1
GenelD:328133	Slc39a9	12	80,644,215	80,683,342	39,127 +	2
GenelD:68354	0610009B14Rik	12	80,686,375	80,693,952	7,577 -	1
GenelD:217682	Plekhd1	12	80,692,601	80,724,216	31,615 +	1
GenelD:380768	Ccdc177	12	80,755,447	80,760,715	5,268 -	2
GenelD:217684	4933426M11Rik	12	80,790,532	80,880,833	90,301 +	1
GenelD:10050466	Gm20337	12	80,942,652	80,945,399	2,747 -	1
GenelD:20384	Srsf5	12	80,945,504	80,950,507	5,003 +	1
GenelD:20493	Slc10a1	12	80,953,185	80,968,079	14,894 -	1
GenelD:64075	Smoc1	12	81,026,808	81,186,414	159,606 +	1
GenelD:54604	Pcnx	12	81,860,030	82,000,924	140,894 +	1
GenelD:217692	Sipa1l1	12	82,170,016	82,451,786	281,770 +	1
GenelD:70127	Dpf3	12	83,213,751	83,487,736	273,985 -	1
GenelD:217695	Zfyve1	12	83,546,941	83,597,147	50,206 -	1
GenelD:67039	Rbm25	12	83,632,234	83,683,123	50,889 +	1
GenelD:19164	Psen1	12	83,688,563	83,735,199	46,636 +	1
GenelD:10105567	LOC101055670	12	83,945,213	83,984,852	39,639 -	2
GenelD:10105581	LOC101055814	12	83,950,304	83,951,355	1,051 -	1
GenelD:71952	2410016O06Rik	12	83,950,608	83,952,953	2,345 +	1
GenelD:171210	Acot2	12	83,987,861	83,993,877	6,016 +	1
GenelD:217700	Acot6	12	84,100,654	84,109,783	9,129 +	1
GenelD:238317	Elmsan1	12	84,149,168	84,218,881	69,713 -	2
GenelD:10050269	Gm19327	12	84,184,465	84,187,806	3,341 -	1
GenelD:217705	Fam161b	12	84,345,317	84,361,821	16,504 -	1
GenelD:217707	Coq6	12	84,361,968	84,373,796	11,828 +	1
GenelD:12499	Entpd5	12	84,373,857	84,409,029	35,172 -	2

GenelD:72873	Ccdc176	12	84,409,068	84,433,780	24,712 +	2
GenelD:66381	Rnf113a2	12	84,417,200	84,418,578	1,378 +	2
GenelD:627191	Syndig1l	12	84,677,278	84,698,807	21,529 -	1
GenelD:16997	Ltbp2	12	84,783,212	84,876,495	93,283 -	1
GenelD:10030373	D030025P21Rik	12	84,875,802	84,879,755	3,953 +	1
GenelD:56531	Ylpm1	12	84,996,321	85,070,515	74,194 +	1
GenelD:73422	Prox2	12	85,086,814	85,106,431	19,617 -	1
GenelD:78920	Dlst	12	85,110,833	85,134,091	23,258 +	1
GenelD:217718	Nek9	12	85,299,514	85,339,362	39,848 -	1
GenelD:68581	Tmed10	12	85,340,614	85,374,717	34,103 -	1
GenelD:14281	Fos	12	85,473,901	85,477,269	3,368 +	1
GenelD:10105567	LOC101055678	12	85,597,448	85,599,337	1,889 -	1
GenelD:81703	Jdp2	12	85,599,105	85,639,878	40,773 +	1
GenelD:217721	Mfsd7c	12	85,746,539	85,813,585	67,046 +	1
GenelD:238328	Vash1	12	86,678,700	86,695,681	16,981 +	1
GenelD:238330	Irf2bpl	12	86,880,703	86,884,814	4,111 -	1
GenelD:217734	Pomt2	12	87,106,866	87,147,902	41,036 -	1
GenelD:14874	Gstz1	12	87,147,165	87,164,723	17,558 +	1
GenelD:382620	Tmed8	12	87,166,242	87,200,229	33,987 -	1
GenelD:238333	Samd15	12	87,200,340	87,213,373	13,033 +	1
GenelD:217738	Ism2	12	87,279,682	87,295,072	15,390 -	1
GenelD:20773	Sptlc2	12	87,307,889	87,388,230	80,341 -	2
GenelD:211064	Alkbh1	12	87,428,077	87,443,839	15,762 -	1
GenelD:10052654	Mir3068	12	87,437,679	87,437,757	78 -	1
GenelD:654309	Nrp	12	87,442,848	87,444,017	1,169 -	1
GenelD:380773	Slirp	12	87,443,896	87,449,924	6,028 +	1
GenelD:66354	Snw1	12	87,449,910	87,472,299	22,389 -	1
GenelD:75216	Cep128	12	90,998,492	91,384,409	385,917 -	1
GenelD:83602	Gtf2a1	12	91,555,262	91,590,487	35,225 -	1
GenelD:108800	Ston2	12	91,633,009	91,786,436	153,427 -	1
GenelD:399558	Flrt2	12	95,692,226	95,785,215	92,989 +	1
GenelD:14420	Galc	12	98,202,300	98,259,337	57,037 -	1
GenelD:14744	Gpr65	12	98,268,657	98,276,632	7,975 +	1
GenelD:72258	Kcnk10	12	98,433,994	98,577,940	143,946 -	1
GenelD:24000	Ptpn21	12	98,676,741	98,737,405	60,664 -	1
GenelD:75553	Zc3h14	12	98,746,968	98,787,774	40,806 +	1
GenelD:319670	Eml5	12	98,786,604	98,901,484	114,880 -	1
GenelD:71375	Foxn3	12	99,195,094	99,450,074	254,980 -	1
GenelD:73457	1700064M15Rik	12	99,626,053	99,627,974	1,921 -	1
GenelD:78767	Efcab11	12	99,717,531	99,883,442	165,911 -	1
GenelD:104884	Tdp1	12	99,884,515	99,955,219	70,704 +	2
GenelD:217826	Kcnk13	12	99,964,499	100,062,682	98,183 +	1
GenelD:19179	Psmc1	12	100,110,202	100,123,364	13,162 +	1
GenelD:10003837	Gm10433	12	100,187,968	100,193,538	5,570 +	2
GenelD:12313	Calm1	12	100,199,541	100,209,806	10,265 +	1
GenelD:73086	Rps6ka5	12	100,549,778	100,725,028	175,250 -	1
GenelD:68339	Ccdc88c	12	100,912,700	101,028,983	116,283 -	1

GenelD:10031680	Mir1190	12	101,021,673	101,021,793	120 -	1
GenelD:68734	Smek1	12	101,039,409	101,083,702	44,293 -	2
GenelD:319760	D130020L05Rik	12	101,082,451	101,088,927	6,476 +	1
GenelD:109181	Trip11	12	101,837,372	101,913,171	75,799 -	1
GenelD:10050405	Gm20036	12	101,912,667	101,915,653	2,986 +	1
GenelD:110616	Atxn3	12	101,918,901	101,958,243	39,342 -	2
GenelD:217835	Rin3	12	102,283,074	102,390,854	107,780 +	1
GenelD:217837	Itpk1	12	102,568,583	102,704,869	136,286 -	1
GenelD:10085993	Gm20604	12	102,739,830	102,757,810	17,980 -	1
GenelD:10023317	AK010878	12	102,753,275	102,757,810	4,535 -	1
GenelD:66622	Ubr7	12	102,757,975	102,777,701	19,726 +	1
GenelD:238386	Btbd7	12	102,784,648	102,878,406	93,758 -	1
GenelD:217843	Unc79	12	102,948,859	103,183,997	235,138 +	1
GenelD:27225	Ddx24	12	103,407,976	103,425,867	17,891 -	1
GenelD:52668	Ifi2711	12	103,434,189	103,440,245	6,056 +	1
GenelD:14836	Gsc	12	104,471,209	104,473,236	2,027 -	1
GenelD:791311	Gm10000	12	104,474,488	104,477,489	3,001 +	1
GenelD:192119	Dicer1	12	104,687,742	104,751,952	64,210 -	1
GenelD:268595	D430019H16Rik	12	105,453,856	105,493,095	39,239 +	1
GenelD:76559	Atg2b	12	105,613,539	105,685,241	71,702 -	1
GenelD:66787	Gskip	12	105,685,352	105,703,058	17,706 +	1
GenelD:78801	Ak7	12	105,705,982	105,782,447	76,465 +	1
GenelD:18789	Papola	12	105,784,702	105,838,944	54,242 +	1
GenelD:58208	Bcl11b	12	107,910,403	108,003,414	93,011 -	1
GenelD:10050315	Gm19576	12	107,984,500	107,989,016	4,516 -	1
GenelD:52690	Setd3	12	108,106,431	108,179,284	72,853 -	1
GenelD:12454	Ccnk	12	108,179,738	108,203,359	23,621 +	1
GenelD:668158	Ccdc85c	12	108,206,345	108,275,417	69,072 -	1
GenelD:68519	Eml1	12	108,410,655	108,539,564	128,909 +	1
GenelD:10050446	Gm16596	12	108,536,402	108,555,618	19,216 -	1
GenelD:14026	Evl	12	108,554,720	108,688,516	133,796 +	1
GenelD:22632	Yy1	12	108,793,311	108,816,632	23,321 +	2
GenelD:214663	Slc25a29	12	108,825,878	108,835,876	9,998 -	1
GenelD:723946	Mir345	12	108,836,973	108,837,068	95 +	1
GenelD:212198	Wdr25	12	108,894,272	109,028,452	134,180 +	1
GenelD:380785	Begain	12	109,032,182	109,068,217	36,035 -	1
GenelD:13386	Dlk1	12	109,452,823	109,463,336	10,513 +	1
GenelD:26931	Ppp2r5c	12	110,447,179	110,583,061	135,882 +	1
GenelD:77271	9430024F10Rik	12	110,590,512	110,593,292	2,780 -	1
GenelD:319786	B930059L03Rik	12	110,591,374	110,592,679	1,305 +	1
GenelD:13424	Dync1h1	12	110,601,395	110,666,944	65,549 +	1
GenelD:15519	Hsp90aa1	12	110,691,036	110,696,395	5,359 -	1
GenelD:26448	Stk30	12	110,807,798	110,840,939	33,141 -	1
GenelD:72805	Zfp839	12	110,850,279	110,869,998	19,719 +	1
GenelD:10004164	Mpc1-ps	12	110,858,070	110,858,954	884 -	1
GenelD:104859	Tecpr2	12	110,889,264	110,972,394	83,130 +	1
GenelD:74251	Ankrd9	12	110,975,353	110,979,021	3,668 -	1

GenelD:217864	Rcor1	12	111,039,798	111,113,389	73,591 +	2
GenelD:22031	Traf3	12	111,166,548	111,267,148	100,600 +	2
GenelD:93835	Amn	12	111,271,111	111,276,426	5,315 +	1
GenelD:10050332	A230087F16Rik	12	111,284,759	111,293,988	9,229 +	1
GenelD:217866	Cdc42bpb	12	111,292,972	111,377,718	84,746 -	1
GenelD:212539	Gm266	12	111,484,609	111,485,823	1,214 -	1
GenelD:217869	Eif5	12	111,538,101	111,546,753	8,652 +	1
GenelD:10031693	Snora28	12	111,540,946	111,541,067	121 +	1
GenelD:10050468	2810029C07Rik	12	111,572,317	111,574,402	2,085 -	1
GenelD:17169	Mark3	12	111,574,510	111,656,227	81,717 +	1
GenelD:12709	Ckb	12	111,669,355	111,672,338	2,983 -	2
GenelD:328162	Trmt61a	12	111,678,105	111,683,902	5,797 +	2
GenelD:68020	Apopt1	12	111,713,269	111,755,055	41,786 +	1
GenelD:16593	Klc1	12	111,758,849	111,806,775	47,926 +	2
GenelD:74335	Xrcc3	12	111,803,193	111,813,841	10,648 -	1
GenelD:68520	Zfyve21	12	111,814,170	111,828,388	14,218 +	1
GenelD:21981	Ppp1r13b	12	111,828,458	111,908,055	79,597 -	1
GenelD:668303	Kif26a	12	112,146,208	112,181,747	35,539 +	1
GenelD:70435	Inf2	12	112,588,784	112,615,557	26,773 +	1
GenelD:11565	Adssl1	12	112,620,047	112,641,355	21,308 +	1
GenelD:30954	Siva1	12	112,644,828	112,649,152	4,324 +	2
GenelD:11651	Akt1	12	112,653,821	112,674,276	20,455 -	4
GenelD:382639	Zbtb42	12	112,678,840	112,682,747	3,907 +	2
GenelD:217882	Cep170b	12	112,722,174	112,746,591	24,417 +	2
GenelD:10105582	LOC101055828	12	112,772,193	112,802,526	30,333 -	1
GenelD:217887	BC022687	12	112,808,975	112,816,245	7,270 +	1
GenelD:71963	Cdca4	12	112,820,234	112,829,389	9,155 -	1
GenelD:16450	Jag2	12	112,908,590	112,929,495	20,905 -	1
GenelD:66174	Nudt14	12	112,934,733	112,942,118	7,385 -	2
GenelD:72308	Brf1	12	112,959,862	113,000,621	40,759 -	3
GenelD:399566	Btbd6	12	112,976,482	112,978,940	2,458 +	1
GenelD:217893	Pacs2	12	113,014,508	113,074,401	59,893 +	2
GenelD:116870	Mta1	12	113,098,278	113,137,206	38,928 +	1
GenelD:68337	Crip2	12	113,140,236	113,145,506	5,270 +	1
GenelD:69195	Tmem121	12	113,185,903	113,189,523	3,620 +	1
GenelD:56220	Zfp386	12	116,047,724	116,060,597	12,873 +	1
GenelD:217946	Cdca7l	12	117,843,861	117,878,706	34,845 +	1
GenelD:20688	Sp4	12	118,234,933	118,301,440	66,507 -	1
GenelD:320145	Sp8	12	118,846,329	118,852,578	6,249 +	1
GenelD:14569	Gdi2	13	3,538,075	3,566,261	28,186 +	1
GenelD:105203	BC016423	13	3,566,035	3,611,108	45,073 -	1
GenelD:69237	Gtpbp4	13	8,972,464	8,996,012	23,548 -	1
GenelD:217980	Larp4b	13	9,093,905	9,173,109	79,204 +	1
GenelD:66505	Zmynd11	13	9,684,836	9,765,314	80,478 -	2
GenelD:238505	Mtr	13	12,186,538	12,258,113	71,575 -	1
GenelD:10003982	Gm2444	13	12,259,448	12,260,839	1,391 -	1
GenelD:17101	Lyst	13	13,590,409	13,777,440	187,031 +	1

GenelD:94253	Hecw1	13	14,226,438	14,523,226	296,788 -	1
GenelD:75398	Mrpl32	13	14,610,301	14,613,037	2,736 -	1
GenelD:19166	Psma2	13	14,613,242	14,625,673	12,431 +	1
GenelD:14634	Gli3	13	15,463,723	15,730,026	266,303 +	1
GenelD:16323	Inhba	13	16,014,475	16,027,211	12,736 +	2
GenelD:69562	Cdk13	13	17,715,962	17,805,097	89,135 -	1
GenelD:76205	Stard3nl	13	19,357,676	19,395,752	38,076 -	1
GenelD:105298	Epdr1	13	19,591,708	19,619,830	28,122 -	1
GenelD:20379	Sfrp4	13	19,623,175	19,632,825	9,650 +	1
GenelD:140580	Elmo1	13	20,090,507	20,608,353	517,846 +	1
GenelD:19720	Trim27	13	21,179,931	21,194,723	14,792 +	1
GenelD:93681	Zkscan8	13	21,513,221	21,531,114	17,893 -	1
GenelD:258280	Olfr1366	13	21,536,974	21,538,027	1,053 -	1
GenelD:56702	Hist1h1b	13	21,779,883	21,780,554	671 -	1
GenelD:319153	Hist1h3i	13	21,782,915	21,783,397	482 -	1
GenelD:319170	Hist1h2an	13	21,786,826	21,787,218	392 -	1
GenelD:319188	Hist1h2bp	13	21,787,488	21,789,213	1,725 +	1
GenelD:68732	Lrrc16a	13	24,012,484	24,280,790	268,306 -	1
GenelD:79555	BC005537	13	24,801,657	24,812,899	11,242 +	1
GenelD:66834	Acot13	13	24,817,955	24,831,489	13,534 -	1
GenelD:56196	Tdp2	13	24,831,659	24,842,153	10,494 +	1
GenelD:20677	Sox4	13	28,950,716	28,953,682	2,966 -	2
GenelD:13557	E2f3	13	29,906,575	29,986,063	79,488 -	1
GenelD:218121	Mboat1	13	30,136,490	30,246,694	110,204 +	1
GenelD:66694	Uqcrfs1	13	30,540,312	30,545,316	5,004 -	1
GenelD:15220	Foxq1	13	31,558,170	31,560,976	2,806 +	2
GenelD:71307	1700018A04Rik	13	31,565,492	31,582,513	17,021 -	2
GenelD:14238	Foxf2	13	31,625,816	31,631,406	5,590 +	1
GenelD:17300	Foxc1	13	31,806,646	31,810,635	3,989 +	1
GenelD:75300	4930548F15Rik	13	31,811,162	31,812,476	1,314 +	1
GenelD:20719	Serpinb6a	13	33,917,918	34,002,794	84,876 -	1
GenelD:68808	1110046J04Rik	13	33,936,032	33,960,181	24,149 +	1
GenelD:68021	Bphl	13	34,037,641	34,074,074	36,433 +	1
GenelD:22151	Tubb2a	13	34,074,278	34,078,008	3,730 -	1
GenelD:432745	4930447K03Rik	13	34,084,155	34,113,272	29,117 -	1
GenelD:66895	Pxdc1	13	34,627,841	34,652,681	24,840 -	1
GenelD:10105614	LOC101056149	13	34,652,923	34,666,774	13,851 +	1
GenelD:19134	Prpf4b	13	34,875,494	34,902,878	27,384 +	1
GenelD:12593	Cdyl	13	35,659,862	35,874,064	214,202 +	2
GenelD:380840	Lym4	13	35,978,797	36,117,357	138,560 -	1
GenelD:69955	Fars2	13	36,117,411	36,537,593	420,182 +	1
GenelD:68750	Rreb1	13	37,826,038	37,952,005	125,967 +	2
GenelD:107513	Ssr1	13	37,971,401	37,994,190	22,789 -	1
GenelD:71213	Cage1	13	38,006,052	38,036,937	30,885 -	1
GenelD:71340	Riok1	13	38,036,989	38,061,433	24,444 +	1
GenelD:109620	Dsp	13	38,151,294	38,198,577	47,283 +	1
GenelD:12161	Bmp6	13	38,345,716	38,499,728	154,012 +	2

GenelD:105245	Txndc5	13	38,500,275	38,528,460	28,185 -	1
GenelD:66143	Eef1e1	13	38,645,691	38,659,028	13,337 -	1
GenelD:108652	Slc35b3	13	38,932,140	38,960,875	28,735 -	1
GenelD:21418	Tfap2a	13	40,715,675	40,733,823	18,148 -	1
GenelD:68083	Pak1ip1	13	41,001,010	41,013,033	12,023 +	1
GenelD:66154	Tmem14c	13	41,016,250	41,022,582	6,332 +	1
GenelD:17152	Mak	13	41,025,120	41,079,706	54,586 -	1
GenelD:54326	Elovl2	13	41,182,382	41,220,403	38,021 -	1
GenelD:110521	Hivep1	13	42,052,021	42,185,026	133,005 +	2
GenelD:328232	Gfod1	13	43,195,519	43,304,172	108,653 -	1
GenelD:68346	Sirt5	13	43,365,535	43,395,203	29,668 +	1
GenelD:70078	Nol7	13	43,398,376	43,402,858	4,482 +	1
GenelD:56705	Ranbp9	13	43,402,673	43,480,973	78,300 -	2
GenelD:94245	Dtnbp1	13	44,922,079	45,002,096	80,017 -	1
GenelD:218203	Mylip	13	45,389,742	45,411,940	22,198 +	1
GenelD:20238	Atxn1	13	45,549,755	45,964,991	415,236 -	1
GenelD:76000	5033430I15Rik	13	45,965,259	45,966,507	1,248 +	1
GenelD:97863	C78339	13	46,669,522	46,675,773	6,251 +	1
GenelD:218210	Nup153	13	46,679,902	46,727,849	47,947 -	2
GenelD:16553	Kif13a	13	46,749,087	46,929,718	180,631 -	1
GenelD:22017	Tpmt	13	47,023,543	47,043,217	19,674 -	1
GenelD:218214	Kdm1b	13	47,043,499	47,085,279	41,780 +	1
GenelD:320614	A330033J07Rik	13	48,044,231	48,262,963	218,732 -	2
GenelD:15904	Id4	13	48,261,427	48,264,036	2,609 +	1
GenelD:320315	A330048O09Rik	13	48,272,418	48,273,884	1,466 -	1
GenelD:218236	Fam120a	13	48,879,216	48,967,828	88,612 -	2
GenelD:68128	Fam120aos	13	48,968,112	48,969,905	1,793 +	2
GenelD:68480	1110007C09Rik	13	49,202,951	49,216,026	13,075 -	1
GenelD:76895	Bicd2	13	49,341,549	49,387,025	45,476 +	1
GenelD:75678	Ippk	13	49,421,311	49,462,990	41,679 +	1
GenelD:66336	Cenpp	13	49,464,059	49,652,731	188,672 -	1
GenelD:70930	Nol8	13	49,653,350	49,679,015	25,665 +	1
GenelD:109082	Fbxw17	13	50,417,877	50,433,769	15,892 +	1
GenelD:77428	9430083A17Rik	13	51,097,738	51,100,727	2,989 -	1
GenelD:20729	Spin1	13	51,100,898	51,152,546	51,648 +	1
GenelD:66197	Cks2	13	51,645,232	51,650,662	5,430 +	2
GenelD:75420	Secisbp2	13	51,651,714	51,683,646	31,932 +	2
GenelD:23882	Gadd45g	13	51,846,675	51,848,475	1,800 +	1
GenelD:11992	Auh	13	52,835,110	52,929,677	94,567 -	1
GenelD:18030	Nfil3	13	52,967,209	52,981,039	13,830 -	2
GenelD:26564	Ror2	13	53,109,317	53,286,109	176,792 -	1
GenelD:17702	Msx2	13	53,466,881	53,472,780	5,899 -	1
GenelD:73666	Thoc3	13	54,458,837	54,468,840	10,003 -	1
GenelD:10004054	Gm2830	13	54,499,591	54,500,089	498 -	1
GenelD:319719	Simc1	13	54,503,805	54,551,290	47,485 +	1
GenelD:97820	4833439L19Rik	13	54,551,218	54,565,382	14,164 -	1
GenelD:56795	Arl10	13	54,575,013	54,581,128	6,115 +	1

GenelD:28126	Nop16	13	54,584,191	54,590,074	5,883 -	1
GenelD:74325	Cltb	13	54,592,939	54,611,272	18,333 -	1
GenelD:105239	Rnf44	13	54,679,399	54,693,960	14,561 -	2
GenelD:268663	Cdhr2	13	54,701,463	54,736,662	35,199 +	1
GenelD:107448	Unc5a	13	54,949,432	55,006,018	56,586 +	1
GenelD:14186	Fgfr4	13	55,152,818	55,168,759	15,941 +	1
GenelD:18193	Nsd1	13	55,209,782	55,318,325	108,543 +	3
GenelD:19336	Rab24	13	55,319,223	55,321,980	2,757 -	3
GenelD:66494	Preli1	13	55,322,055	55,325,272	3,217 +	3
GenelD:17121	Mxd3	13	55,325,168	55,329,730	4,562 -	3
GenelD:26385	Grk6	13	55,445,334	55,460,927	15,593 +	1
GenelD:432763	Prr7	13	55,464,267	55,473,155	8,888 +	2
GenelD:56320	Dnb1	13	55,473,428	55,488,076	14,648 -	3
GenelD:67399	Pdlim7	13	55,497,487	55,513,439	15,952 -	2
GenelD:27261	Dok3	13	55,523,235	55,528,538	5,303 -	1
GenelD:67511	Tmed9	13	55,593,135	55,597,697	4,562 +	1
GenelD:218271	B4galt7	13	55,600,111	55,609,954	9,843 +	1
GenelD:12328	Caml	13	55,623,005	55,632,416	9,411 +	1
GenelD:212880	Ddx46	13	55,635,027	55,681,256	46,229 +	1
GenelD:78521	B230219D22Rik	13	55,693,124	55,703,500	10,376 +	1
GenelD:69672	Txndc15	13	55,714,650	55,726,227	11,577 +	2
GenelD:72562	Pcbd2	13	55,727,368	55,776,830	49,462 +	1
GenelD:18740	Pitx1	13	55,825,054	55,831,425	6,371 -	2
GenelD:26914	H2afy	13	56,073,622	56,135,550	61,928 -	2
GenelD:77134	Hnrnpa0	13	58,125,879	58,128,556	2,677 -	1
GenelD:56085	Ubqln1	13	58,176,156	58,215,653	39,497 -	1
GenelD:56278	Gkap1	13	58,233,351	58,274,188	40,837 -	1
GenelD:70153	2210016F16Rik	13	58,380,046	58,385,225	5,179 -	1
GenelD:15387	Hnrnpk	13	58,391,951	58,402,516	10,565 -	2
GenelD:723902	Mir7-1	13	58,392,779	58,392,886	107 -	2
GenelD:74386	Rmi1	13	58,402,248	58,411,149	8,901 +	1
GenelD:319469	A230056J06Rik	13	59,580,176	59,585,223	5,047 -	1
GenelD:78689	Naa35	13	59,585,333	59,634,798	49,465 +	1
GenelD:105348	Golm1	13	59,634,996	59,675,784	40,788 -	1
GenelD:214290	Zcchc6	13	59,771,879	59,823,147	51,268 -	1
GenelD:14451	Gas1	13	60,174,405	60,177,535	3,130 -	1
GenelD:19206	Ptch1	13	63,511,533	63,565,520	53,987 -	2
GenelD:238673	Zfp367	13	64,133,057	64,153,199	20,142 -	2
GenelD:56541	Habp4	13	64,161,866	64,186,537	24,671 +	2
GenelD:218294	Cdc14b	13	64,192,545	64,274,988	82,443 -	1
GenelD:66503	1810034E14Rik	13	64,248,700	64,268,145	19,445 +	1
GenelD:66129	Aaed1	13	64,291,836	64,312,710	20,874 -	1
GenelD:13039	Ctsl	13	64,363,214	64,370,306	7,092 -	1
GenelD:66631	Hiat1	13	65,065,030	65,112,982	47,952 -	1
GenelD:66410	Mterfd1	13	66,912,095	66,933,072	20,977 -	1
GenelD:19210	Ptdss1	13	66,932,830	66,998,401	65,571 +	1
GenelD:210044	Adcy2	13	68,620,043	68,999,541	379,498 -	1

GenelD:210106	Papd7	13	69,497,959	69,533,864	35,905 -	1
GenelD:210373	A530095I07Rik	13	69,543,046	69,544,017	971 -	1
GenelD:76980	Ube2ql1	13	69,702,832	69,739,897	37,065 -	1
GenelD:28077	Med10	13	69,809,882	69,816,094	6,212 +	1
GenelD:218333	BC018507	13	70,588,689	70,637,634	48,945 -	1
GenelD:10004286	Gm10263	13	73,317,828	73,318,145	317 +	1
GenelD:407785	Ndufs6	13	73,319,876	73,328,482	8,606 -	1
GenelD:94066	Mrpl36	13	73,331,009	73,332,178	1,169 +	1
GenelD:210992	Lpcat1	13	73,467,383	73,514,538	47,155 +	1
GenelD:218335	Clptm1l	13	73,604,002	73,620,639	16,637 +	1
GenelD:20499	Slc12a7	13	73,763,697	73,816,743	53,046 +	1
GenelD:69716	Trip13	13	73,912,462	73,937,767	25,305 -	1
GenelD:105246	Brd9	13	73,937,838	73,960,895	23,057 +	1
GenelD:72948	Tppp	13	74,009,419	74,035,753	26,334 +	1
GenelD:66945	Sdha	13	74,322,255	74,350,240	27,985 -	1
GenelD:67433	Ccdc127	13	74,350,317	74,365,783	15,466 +	1
GenelD:432779	Lrrc14b	13	74,359,582	74,364,000	4,418 -	1
GenelD:80898	Erap1	13	74,639,872	74,691,875	52,003 +	1
GenelD:192657	Ell2	13	75,707,484	75,772,361	64,877 +	1
GenelD:73296	Rhobtb3	13	75,869,537	75,943,824	74,287 -	1
GenelD:105377	Ankrd32	13	77,043,088	77,135,468	92,380 -	1
GenelD:72371	2210408I21Rik	13	77,135,536	77,613,679	478,143 +	1
GenelD:68675	Fam172a	13	77,708,690	78,166,240	457,550 +	1
GenelD:105171	Arrdc3	13	80,883,422	80,896,042	12,620 +	1
GenelD:67486	Polr3g	13	81,673,837	81,711,013	37,176 -	1
GenelD:72852	Mblac2	13	81,711,417	81,753,275	41,858 +	1
GenelD:66671	Ccnh	13	85,189,477	85,213,723	24,246 +	1
GenelD:218397	Rasa1	13	85,214,699	85,289,486	74,787 -	1
GenelD:108138	Xrcc4	13	89,848,914	90,089,608	240,694 -	1
GenelD:66074	Tmem167	13	90,089,667	90,114,921	25,254 +	1
GenelD:66970	Ssbp2	13	91,461,097	91,706,175	245,078 +	2
GenelD:69085	Zcchc9	13	91,796,533	91,807,696	11,163 -	1
GenelD:19418	Rasgrf2	13	92,022,789	92,131,494	108,705 -	1
GenelD:218440	Ankrd34b	13	92,425,969	92,441,658	15,689 +	1
GenelD:218441	Zfyve16	13	92,487,749	92,530,810	43,061 -	1
GenelD:218442	Serinc5	13	92,611,138	92,711,947	100,809 +	1
GenelD:382793	Mtx3	13	92,844,787	92,858,230	13,443 +	1
GenelD:26556	Homer1	13	93,304,495	93,404,962	100,467 +	1
GenelD:57748	Jmy	13	93,430,097	93,499,808	69,711 -	1
GenelD:11881	Arsb	13	93,771,679	93,943,016	171,337 +	1
GenelD:107767	Scamp1	13	94,201,433	94,285,281	83,848 -	1
GenelD:328309	Gm9776	13	94,356,747	94,358,923	2,176 -	1
GenelD:11774	Ap3b1	13	94,358,960	94,566,316	207,356 +	1
GenelD:21371	Tbca	13	94,788,943	94,842,899	53,956 +	1
GenelD:218460	Wdr41	13	94,976,344	95,023,316	46,972 +	1
GenelD:72114	Zbed3	13	95,325,237	95,337,841	12,604 +	2
GenelD:10031681	Mir1940	13	95,330,580	95,330,683	103 +	2

GenelD:10021745	Snora47	13	95,330,611	95,330,736	125 +	2
GenelD:66549	Aggf1	13	95,350,716	95,375,334	24,618 -	1
GenelD:14062	F2r	13	95,601,789	95,618,433	16,644 -	1
GenelD:544963	Iqgap2	13	95,627,177	95,891,922	264,745 -	2
GenelD:15357	Hmgcr	13	96,648,962	96,670,936	21,974 -	1
GenelD:218476	Gcnt4	13	96,924,689	96,950,914	26,225 +	1
GenelD:13803	Enc1	13	97,241,105	97,253,040	11,935 +	1
GenelD:105372	Utp15	13	98,246,845	98,262,992	16,147 -	1
GenelD:68558	Ankra2	13	98,263,242	98,273,913	10,671 +	1
GenelD:218490	Btf3	13	98,309,897	98,317,006	7,109 -	1
GenelD:10050422	Gm9828	13	98,316,426	98,324,415	7,989 +	1
GenelD:238799	Tnp01	13	98,842,081	98,926,384	84,303 -	1
GenelD:68927	Ptcd2	13	99,319,649	99,344,678	25,029 -	1
GenelD:218506	Mrps27	13	99,344,786	99,415,561	70,775 +	1
GenelD:17755	Map1b	13	99,421,464	99,516,602	95,138 -	2
GenelD:544971	Bdp1	13	100,017,994	100,104,070	86,076 -	1
GenelD:20365	Serf1	13	100,108,019	100,114,233	6,214 +	1
GenelD:20595	Smn1	13	100,123,205	100,137,698	14,493 +	1
GenelD:18260	Ocln	13	100,497,367	100,552,498	55,131 -	1
GenelD:66128	Mrps36	13	100,735,940	100,744,659	8,719 -	1
GenelD:26886	Cenph	13	100,759,686	100,775,899	16,213 -	2
GenelD:268697	Ccnb1	13	100,778,739	100,786,486	7,747 -	2
GenelD:69048	Slc30a5	13	100,802,648	100,833,427	30,779 -	1
GenelD:18708	Pik3r1	13	101,680,761	101,768,217	87,456 -	1
GenelD:328329	Mast4	13	102,732,488	103,334,492	602,004 -	1
GenelD:75805	Nln	13	104,023,439	104,109,614	86,175 -	1
GenelD:218544	Sgtb	13	104,109,790	104,141,452	31,662 +	1
GenelD:76582	Ipo11	13	106,794,439	106,936,915	142,476 -	1
GenelD:66254	Dimt1	13	106,947,129	106,960,224	13,095 +	1
GenelD:16563	Kif2a	13	106,960,585	107,022,114	61,529 -	2
GenelD:10004032	3830408C21Rik	13	107,022,570	107,033,518	10,948 +	2
GenelD:67263	Zswim6	13	107,724,617	107,890,064	165,447 -	2
GenelD:70680	3021401N23Rik	13	108,042,121	108,044,412	2,291 -	1
GenelD:75616	Smim15	13	108,044,474	108,049,146	4,672 +	1
GenelD:75597	Ndufaf2	13	108,052,589	108,158,625	106,036 -	2
GenelD:71991	Ercc8	13	108,158,738	108,194,981	36,243 +	1
GenelD:218581	Depdc1b	13	108,316,337	108,389,557	73,220 +	1
GenelD:238871	Pde4d	13	108,654,177	109,955,969	1,301,792 +	1
GenelD:10031668	Mir1904	13	109,903,809	109,903,888	79 +	1
GenelD:20620	Plk2	13	110,395,044	110,400,844	5,800 +	1
GenelD:73274	Gbbp1	13	111,425,680	111,490,041	64,361 -	1
GenelD:218613	Mier3	13	111,686,178	111,718,594	32,416 +	2
GenelD:26401	Map3k1	13	111,746,433	111,808,983	62,550 -	2
GenelD:10050467	Gm15327	13	111,809,136	111,811,039	1,903 +	2
GenelD:16195	Il6st	13	112,464,070	112,506,860	42,790 +	1
GenelD:19012	Ppap2a	13	112,800,792	112,867,680	66,888 +	1
GenelD:72198	Skiv2l2	13	112,867,780	112,927,380	59,600 -	1

GenelD:218629	Dhx29	13	112,927,793	112,969,187	41,394 +	1
GenelD:170625	Snx18	13	113,592,179	113,618,564	26,385 -	1
GenelD:14313	Fst	13	114,452,262	114,458,730	6,468 -	1
GenelD:109700	Itga1	13	114,958,079	115,101,964	143,885 -	1
GenelD:105083	Pelo	13	115,088,355	115,090,158	1,803 -	1
GenelD:670198	Gm10734	13	115,089,501	115,090,987	1,486 +	1
GenelD:52552	Parp8	13	116,854,824	117,025,516	170,692 -	1
GenelD:59054	Mrps30	13	118,380,110	118,387,252	7,142 -	1
GenelD:218693	Paip1	13	119,428,600	119,460,320	31,720 +	1
GenelD:10105576	LOC101055764	13	119,606,650	119,610,459	3,809 +	1
GenelD:73480	1700074H08Rik	13	119,680,042	119,681,582	1,540 +	1
GenelD:208715	Hmgcs1	13	119,690,462	119,708,077	17,615 +	1
GenelD:72465	Zfp131	13	119,765,187	119,790,805	25,618 -	1
GenelD:19270	Ptprg	14	11,553,553	12,242,039	688,486 +	1
GenelD:246103	Atxn7	14	14,012,491	14,107,302	94,811 +	1
GenelD:66413	Psmc6	14	14,112,185	14,120,904	8,719 -	1
GenelD:218756	Slc4a7	14	14,703,025	14,799,943	96,918 +	1
GenelD:71147	Oxsm	14	16,238,659	16,249,808	11,149 -	1
GenelD:59007	Ngly1	14	16,249,314	16,311,926	62,612 +	1
GenelD:21974	Top2b	14	16,365,206	16,430,787	65,581 +	1
GenelD:21834	Thrb	14	17,660,960	18,038,088	377,128 +	1
GenelD:353187	Nr1d2	14	18,204,056	18,239,106	35,050 -	1
GenelD:68045	2700060E02Rik	14	19,811,402	19,823,823	12,421 -	1
GenelD:70601	Ecd	14	20,319,859	20,348,121	28,262 -	1
GenelD:105428	Fam149b	14	20,348,162	20,383,491	35,329 +	3
GenelD:108671	Dnajc9	14	20,384,638	20,388,910	4,272 -	2
GenelD:66242	Mrps16	14	20,391,231	20,393,555	2,324 -	2
GenelD:76670	Ttc18	14	20,394,190	20,452,225	58,035 -	2
GenelD:19056	Ppp3cb	14	20,499,314	20,546,573	47,259 -	1
GenelD:75602	1810062O18Rik	14	20,546,293	20,570,680	24,387 +	1
GenelD:78787	Usp54	14	20,548,912	20,618,354	69,442 -	1
GenelD:10050427	2810402E24Rik	14	20,641,009	20,641,853	844 +	1
GenelD:59011	Myoz1	14	20,649,102	20,656,540	7,438 -	2
GenelD:68760	Synpo2l	14	20,659,418	20,668,306	8,888 -	2
GenelD:218811	Sec24c	14	20,674,321	20,694,850	20,529 +	3
GenelD:73068	Fut11	14	20,694,968	20,700,197	5,229 +	3
GenelD:76133	6230400D17Rik	14	20,702,012	20,703,099	1,087 -	3
GenelD:66121	Chchd1	14	20,703,027	20,704,425	1,398 +	3
GenelD:268721	Zswim8	14	20,707,552	20,723,619	16,067 +	3
GenelD:17423	Ndst2	14	20,723,730	20,734,562	10,832 -	1
GenelD:12325	Camk2g	14	20,734,875	20,794,088	59,213 -	2
GenelD:22330	Vcl	14	20,929,433	21,033,673	104,240 +	1
GenelD:11534	Adk	14	21,052,574	21,448,569	395,995 +	1
GenelD:54169	Kat6b	14	21,499,770	21,672,478	172,708 +	1
GenelD:27389	Dusp13	14	21,733,395	21,748,622	15,227 -	1
GenelD:67630	Samd8	14	21,750,531	21,798,725	48,194 +	1
GenelD:22334	Vdac2	14	21,831,561	21,845,879	14,318 +	1

GenelD:69156	Comtd1	14	21,845,861	21,848,910	3,049 -	1
GenelD:319486	A430057M04Rik	14	21,847,578	21,856,926	9,348 +	1
GenelD:218820	Zfp503	14	21,983,962	21,989,601	5,639 -	2
GenelD:16531	Kcnma1	14	23,298,694	24,004,205	705,511 -	1
GenelD:71228	Dlg5	14	24,133,953	24,245,920	111,967 -	1
GenelD:432830	Gm17747	14	25,441,641	25,453,227	11,586 +	1
GenelD:328365	Zmiz1	14	25,459,185	25,666,747	207,562 +	2
GenelD:10018891	Israa	14	25,603,547	25,603,924	377 +	1
GenelD:105675	Ppif	14	25,694,170	25,700,468	6,298 +	1
GenelD:68173	Ppifos	14	25,696,356	25,701,282	4,926 -	1
GenelD:71918	Zcchc24	14	25,711,640	25,768,856	57,216 -	1
GenelD:11744	Anxa11	14	25,842,155	25,886,804	44,649 +	1
GenelD:83997	Slmap	14	26,413,175	26,533,740	120,565 -	1
GenelD:211922	Dennd6a	14	26,579,550	26,632,100	52,550 +	1
GenelD:211948	Pde12	14	26,664,117	26,669,846	5,729 -	1
GenelD:171463	Il17rd	14	27,039,001	27,107,286	68,285 +	2
GenelD:218850	D14Abb1e	14	27,428,847	27,483,555	54,708 +	1
GenelD:22418	Wnt5a	14	28,505,473	28,525,515	20,042 +	2
GenelD:80795	Selk	14	29,968,380	29,975,074	6,694 +	1
GenelD:56249	Actr8	14	29,978,337	29,993,221	14,884 +	1
GenelD:18753	Prkcd	14	30,595,354	30,626,208	30,854 -	1
GenelD:328370	Rft1	14	30,654,375	30,691,317	36,942 +	1
GenelD:54650	Sfmbt1	14	30,714,849	30,822,721	107,872 +	3
GenelD:69179	Tmem110	14	30,825,594	30,877,210	51,616 +	1
GenelD:69019	Spcs1	14	30,999,826	31,001,666	1,840 -	1
GenelD:76485	Glt8d1	14	31,001,393	31,012,441	11,048 +	2
GenelD:30877	Gnl3	14	31,012,433	31,019,089	6,656 -	1
GenelD:10021743	Snord69	14	31,014,293	31,014,351	58 -	1
GenelD:10021742	Snord19	14	31,016,219	31,016,272	53 -	1
GenelD:66923	Pbrm1	14	31,019,138	31,121,592	102,454 +	2
GenelD:66487	Smim4	14	31,124,505	31,128,930	4,425 -	1
GenelD:70021	Nt5dc2	14	31,134,853	31,139,124	4,271 +	1
GenelD:192187	Stab1	14	31,139,017	31,168,641	29,624 -	1
GenelD:71838	Phf7	14	31,237,696	31,251,218	13,522 -	1
GenelD:104416	Bap1	14	31,251,489	31,259,929	8,440 +	1
GenelD:110084	Dnahc1	14	31,260,375	31,323,896	63,521 -	1
GenelD:12339	Capn7	14	31,336,724	31,371,984	35,260 +	1
GenelD:24056	Sh3bp5	14	31,373,955	31,436,033	62,078 -	1
GenelD:67011	Mettl6	14	31,478,798	31,494,977	16,179 -	1
GenelD:74427	Eaf1	14	31,495,079	31,509,858	14,779 +	1
GenelD:105522	Ankrd28	14	31,700,015	31,830,415	130,400 -	1
GenelD:17695	Msemb	14	32,142,023	32,158,327	16,304 +	1
GenelD:27057	Ncoa4	14	32,159,892	32,179,363	19,471 +	1
GenelD:53600	Timm23	14	32,180,166	32,201,891	21,725 -	1
GenelD:26430	Parg	14	32,201,971	32,297,550	95,579 +	1
GenelD:320736	Vstm4	14	32,856,756	32,939,489	82,733 +	1
GenelD:239027	Arhgap22	14	33,216,823	33,369,936	153,113 +	1

GenelD:26419	Mapk8	14	33,377,898	33,447,158	69,260 -	1
GenelD:75698	Fam35a	14	34,237,033	34,310,503	73,470 -	1
GenelD:14661	Glud1	14	34,310,727	34,345,033	34,306 +	1
GenelD:69134	Fam25c	14	34,351,882	34,355,393	3,511 -	1
GenelD:20618	Sncg	14	34,370,274	34,374,669	4,395 -	1
GenelD:12166	Bmpr1a	14	34,411,068	34,502,546	91,478 -	1
GenelD:78243	9230112D13Rik	14	34,511,621	34,522,801	11,180 -	1
GenelD:24131	Ldb3	14	34,526,699	34,588,681	61,982 -	1
GenelD:218914	Wapal	14	34,673,928	34,746,217	72,289 +	1
GenelD:18183	Nrg3	14	38,368,951	39,473,088	1,104,137 -	1
GenelD:70561	Txndc16	14	45,134,448	45,219,394	84,946 -	1
GenelD:70713	Gpr137c	14	45,219,717	45,280,976	61,259 +	1
GenelD:50527	Ero1l	14	45,283,087	45,318,572	35,485 -	1
GenelD:67089	Psmc6	14	45,329,824	45,349,071	19,247 +	1
GenelD:114874	Ddhd1	14	45,593,174	45,658,143	64,969 -	1
GenelD:10062860	Mir5131	14	45,657,961	45,658,053	92 -	1
GenelD:320367	A530076I17Rik	14	45,665,806	45,668,498	2,692 -	1
GenelD:12793	Cnih	14	46,775,567	46,788,357	12,790 -	1
GenelD:63985	Gmfb	14	46,808,149	46,822,242	14,093 -	2
GenelD:328388	Gm10101	14	46,829,109	46,832,027	2,918 -	2
GenelD:68755	Cgrrf1	14	46,832,244	46,854,190	21,946 +	2
GenelD:74480	Samd4	14	46,882,965	47,105,817	222,852 +	2
GenelD:14528	Gch1	14	47,153,895	47,189,402	35,507 -	1
GenelD:10050466	Atg14	14	47,540,893	47,568,434	27,541 -	1
GenelD:625730	Gm6616	14	47,569,409	47,569,836	427 +	1
GenelD:93834	Peli2	14	48,120,869	48,260,883	140,014 +	1
GenelD:218989	Tmem260	14	48,446,352	48,515,159	68,807 +	1
GenelD:105504	Exoc5	14	49,012,144	49,066,667	54,523 -	1
GenelD:74385	Ap5m1	14	49,066,495	49,087,723	21,228 +	1
GenelD:70646	Naa30	14	49,172,227	49,191,031	18,804 +	1
GenelD:66246	Osgep	14	50,915,374	50,924,893	9,519 -	1
GenelD:11792	Apex1	14	50,924,949	50,927,188	2,239 +	1
GenelD:219024	Tmem55b	14	50,926,070	50,930,849	4,779 -	1
GenelD:268739	Arhgef40	14	51,984,833	52,006,247	21,414 +	2
GenelD:10050276	Gm16617	14	51,986,389	51,988,829	2,440 -	2
GenelD:114741	Supt16	14	52,160,419	52,197,239	36,820 -	1
GenelD:67772	Chd8	14	52,198,151	52,237,572	39,421 -	1
GenelD:268741	Tox4	14	52,279,146	52,295,509	16,363 +	1
GenelD:56335	Mettl3	14	52,294,841	52,305,124	10,283 -	1
GenelD:50524	Sall2	14	52,311,177	52,328,670	17,493 -	1
GenelD:68836	Mrpl52	14	54,426,909	54,429,750	2,841 +	1
GenelD:17387	Mmp14	14	54,431,604	54,441,258	9,654 +	1
GenelD:65107	Lrp10	14	54,464,147	54,470,292	6,145 +	1
GenelD:219072	Haus4	14	54,541,785	54,554,361	12,576 -	1
GenelD:16475	Ajuba	14	54,567,469	54,577,661	10,192 -	2
GenelD:74359	4931414P19Rik	14	54,583,663	54,605,908	22,245 -	2
GenelD:56215	Acin1	14	54,642,161	54,686,931	44,770 -	1

GenelD:58248	1700123O20Rik	14	54,686,171	54,690,742	4,571 +	1
GenelD:10105608	LOC101056084	14	54,693,691	54,698,827	5,136 -	1
GenelD:105651	Ppp1r3e	14	54,875,597	54,877,538	1,941 -	1
GenelD:12050	Bcl2l2	14	54,883,425	54,888,234	4,809 +	2
GenelD:54196	Pabpn1	14	54,894,143	54,898,927	4,784 +	1
GenelD:59049	Slc22a17	14	54,906,727	54,913,132	6,405 -	1
GenelD:13644	Efs	14	54,916,543	54,926,788	10,245 -	2
GenelD:140806	Il25	14	54,932,695	54,935,837	3,142 +	1
GenelD:67272	Cmtm5	14	54,936,470	54,939,277	2,807 +	1
GenelD:239102	Zfhx2	14	55,061,658	55,092,048	30,390 -	1
GenelD:432855	Zfhx2as	14	55,073,091	55,075,874	2,783 +	1
GenelD:105663	Thtpa	14	55,094,784	55,098,995	4,211 +	1
GenelD:11766	Ap1g2	14	55,098,850	55,106,593	7,743 -	2
GenelD:319984	Jph4	14	55,106,826	55,116,935	10,109 -	2
GenelD:28200	Dhrs4	14	55,478,758	55,490,340	11,582 +	1
GenelD:268747	Lrrc16b	14	55,491,093	55,508,264	17,171 +	1
GenelD:19186	Psme1	14	55,578,494	55,581,527	3,033 +	1
GenelD:85308	Emc9	14	55,581,524	55,585,254	3,730 -	1
GenelD:19188	Psme2	14	55,587,440	55,591,101	3,661 -	1
GenelD:268749	Rnf31	14	55,591,790	55,603,671	11,881 +	1
GenelD:56739	Rec8	14	55,618,166	55,625,395	7,229 +	1
GenelD:75751	Ipo4	14	55,625,629	55,635,678	10,049 -	2
GenelD:74140	Tm9sf1	14	55,635,966	55,643,806	7,840 -	2
GenelD:71099	Tssk4	14	55,650,184	55,652,539	2,355 +	1
GenelD:18002	Nedd8	14	55,662,267	55,671,906	9,639 -	1
GenelD:105446	Gmpr2	14	55,672,235	55,678,751	6,516 +	1
GenelD:28113	Tinf2	14	55,679,080	55,681,817	2,737 -	1
GenelD:21816	Tgm1	14	55,700,009	55,713,492	13,483 -	1
GenelD:56187	RabggtA	14	55,715,877	55,722,176	6,299 -	1
GenelD:52585	Dhrs1	14	55,739,020	55,745,684	6,664 -	1
GenelD:67842	Nop9	14	55,745,693	55,755,634	9,941 +	1
GenelD:12684	Cideb	14	55,754,052	55,758,424	4,372 -	1
GenelD:277154	Nynrin	14	55,854,115	55,874,736	20,621 +	1
GenelD:219103	Cenpj	14	56,526,761	56,571,846	45,085 -	1
GenelD:328417	Parp4	14	56,575,619	56,659,798	84,179 +	1
GenelD:66645	Pspc1	14	56,722,449	56,778,316	55,867 -	1
GenelD:76007	Zmym2	14	56,887,795	56,962,579	74,784 +	2
GenelD:14619	Gjb2	14	57,098,602	57,104,702	6,100 -	1
GenelD:21821	Ift88	14	57,424,071	57,517,936	93,865 +	1
GenelD:50523	Lats2	14	57,689,662	57,746,123	56,461 -	1
GenelD:219114	Ska3	14	57,806,561	57,826,163	19,602 -	1
GenelD:67840	Mrp63	14	57,826,239	57,828,745	2,506 +	1
GenelD:75965	Zdhhc20	14	57,832,702	57,890,262	57,560 -	2
GenelD:71330	Rcbtb1	14	59,201,228	59,237,265	36,037 +	1
GenelD:71891	Cdadc1	14	59,559,388	59,597,959	38,571 -	1
GenelD:219134	Shisa2	14	59,625,281	59,631,660	6,379 +	1
GenelD:71844	Nupl1	14	60,219,468	60,251,378	31,910 -	1

GenelD:219140	Spata13	14	60,634,729	60,764,556	129,827 +	1
GenelD:50720	Sacs	14	61,138,457	61,240,693	102,236 +	1
GenelD:16648	Kpna3	14	61,365,186	61,439,947	74,761 -	1
GenelD:66597	Trim13	14	61,598,226	61,605,946	7,720 +	1
GenelD:668253	Dleu2	14	61,602,836	61,682,373	79,537 -	4
GenelD:328424	Kcnrg	14	61,607,457	61,612,833	5,376 +	1
GenelD:239133	Dleu7	14	62,276,229	62,292,979	16,750 -	1
GenelD:67153	Rnaseh2b	14	62,332,105	62,372,992	40,887 +	1
GenelD:629059	Fam124a	14	62,555,737	62,608,485	52,748 +	1
GenelD:18130	Ints6	14	62,676,325	62,761,112	84,787 -	1
GenelD:71000	4931440J10Rik	14	62,760,501	62,830,126	69,625 +	2
GenelD:268752	Wdfy2	14	62,837,690	62,956,886	119,196 +	1
GenelD:14463	Gata4	14	63,198,915	63,245,260	46,345 -	2
GenelD:210376	Mtmr9	14	63,523,610	63,543,953	20,343 -	1
GenelD:219149	Xkr6	14	63,606,530	63,820,411	213,881 +	2
GenelD:72400	Pinx1	14	63,860,312	63,919,859	59,547 +	1
GenelD:54616	Extl3	14	65,052,059	65,098,106	46,047 -	1
GenelD:380912	Zfp395	14	65,358,676	65,398,930	40,254 +	1
GenelD:71988	Esco2	14	65,819,027	65,833,969	14,942 -	2
GenelD:67179	Ccdc25	14	65,837,302	65,866,604	29,302 +	2
GenelD:69303	1700001G11Rik	14	66,295,327	66,297,129	1,802 -	1
GenelD:66854	Trim35	14	66,297,025	66,311,424	14,399 +	1
GenelD:12177	Bnip3l	14	66,985,240	67,008,877	23,637 -	1
GenelD:71978	Ppp2r2a	14	67,014,056	67,072,471	58,415 -	2
GenelD:13592	Ebf2	14	67,233,292	67,429,767	196,475 +	1
GenelD:68813	Dock5	14	67,751,928	67,933,572	181,644 -	1
GenelD:73554	1700092C10Rik	14	69,164,799	69,171,843	7,044 -	1
GenelD:18092	Nkx2-6	14	69,171,802	69,175,540	3,738 +	1
GenelD:71843	R3hcc1	14	69,697,304	69,707,580	10,276 -	1
GenelD:105513	Chmp7	14	69,716,979	69,732,570	15,591 -	2
GenelD:13655	Egr3	14	70,077,445	70,080,157	2,712 +	1
GenelD:219158	2610301G19Rik	14	70,138,168	70,153,791	15,623 -	2
GenelD:268759	9930012K11Rik	14	70,154,405	70,159,502	5,097 -	2
GenelD:213019	Pdlim2	14	70,164,218	70,177,672	13,454 -	1
GenelD:19057	Ppp3cc	14	70,217,898	70,289,449	71,551 -	1
GenelD:67065	Polr3d	14	70,438,748	70,443,471	4,723 -	1
GenelD:723838	Mir320	14	70,443,510	70,443,591	81 +	1
GenelD:213469	Lgi3	14	70,530,821	70,538,324	7,503 +	1
GenelD:72549	Reep4	14	70,545,251	70,548,935	3,684 +	1
GenelD:15460	Hr	14	70,554,056	70,573,543	19,487 +	1
GenelD:239170	Fam160b2	14	70,583,295	70,599,835	16,540 -	1
GenelD:13829	Epb4.9	14	70,602,184	70,636,048	33,864 -	1
GenelD:65246	Xpo7	14	70,654,246	70,766,628	112,382 -	1
GenelD:13449	Dok2	14	70,774,381	70,778,494	4,113 +	1
GenelD:319448	Fndc3a	14	72,537,953	72,710,003	172,050 -	1
GenelD:105670	Rcbtb2	14	73,142,510	73,184,055	41,545 +	1
GenelD:19645	Rb1	14	73,195,502	73,325,791	130,289 -	1

GenelD:16432	Itm2b	14	73,362,231	73,385,271	23,040 -	1
GenelD:10050456	Gm20290	14	73,372,861	73,375,780	2,919 -	1
GenelD:13885	Esd	14	74,732,345	74,750,443	18,098 +	1
GenelD:380916	Lrch1	14	74,754,673	74,947,877	193,204 -	1
GenelD:56373	Cpb2	14	75,242,287	75,283,555	41,268 +	1
GenelD:67302	Zc3h13	14	75,284,373	75,344,426	60,053 +	1
GenelD:338337	Cog3	14	75,702,351	75,754,493	52,142 -	1
GenelD:67554	Slc25a30	14	75,761,999	75,787,037	25,038 -	1
GenelD:10004318	Gm4285	14	75,842,918	75,844,964	2,046 -	1
GenelD:22070	Tpt1	14	75,845,256	75,848,303	3,047 +	1
GenelD:10030375	Snora31	14	75,847,923	75,848,034	111 +	1
GenelD:68705	Gtf2f2	14	75,896,937	76,010,865	113,928 -	1
GenelD:67467	1200011118Rik	14	76,086,232	76,110,815	24,583 -	1
GenelD:27275	Nufip1	14	76,110,891	76,137,379	26,488 +	1
GenelD:21807	Tsc22d1	14	76,415,821	76,507,766	91,945 +	4
GenelD:75789	4930444M15Rik	14	76,514,558	76,520,855	6,297 -	3
GenelD:72661	Serp2	14	76,532,812	76,556,889	24,077 -	1
GenelD:210808	Lacc1	14	77,024,201	77,036,617	12,416 -	1
GenelD:108811	Ccdc122	14	77,036,772	77,112,204	75,432 +	1
GenelD:239188	Enox1	14	77,156,763	77,721,763	565,000 +	1
GenelD:380921	Dgkh	14	78,569,609	78,725,089	155,480 -	2
GenelD:66214	Rgcc	14	79,288,750	79,301,635	12,885 -	1
GenelD:66897	Naa16	14	79,334,507	79,390,668	56,161 -	1
GenelD:211253	Mtrf1	14	79,397,772	79,423,650	25,878 +	1
GenelD:432879	Zbtbd6	14	79,451,835	79,454,816	2,981 +	1
GenelD:22380	Wbp4	14	79,459,937	79,481,268	21,331 -	2
GenelD:13709	Elf1	14	79,481,194	79,582,476	101,282 +	1
GenelD:18530	Pcdh8	14	79,766,772	79,771,312	4,540 -	1
GenelD:219249	Tdrd3	14	87,416,583	87,545,508	128,925 +	1
GenelD:76789	Mzt1	14	99,034,544	99,046,136	11,592 -	1
GenelD:77744	Bora	14	99,046,377	99,074,107	27,730 +	1
GenelD:72662	Dis3	14	99,076,634	99,099,770	23,136 -	1
GenelD:52023	Pibf1	14	99,099,433	99,254,493	155,060 +	1
GenelD:12224	Klf5	14	99,298,691	99,313,412	14,721 +	1
GenelD:210789	Tbc1d4	14	101,442,360	101,609,191	166,831 -	1
GenelD:50933	Uchl3	14	101,653,967	101,696,125	42,158 +	1
GenelD:239217	Kctd12	14	102,976,581	102,982,637	6,056 -	1
GenelD:10062859	Mir5130	14	102,982,549	102,982,632	83 -	1
GenelD:71264	4933432I03Rik	14	102,987,412	103,033,803	46,391 -	1
GenelD:211286	Cln5	14	103,070,216	103,077,630	7,414 +	1
GenelD:50789	Fbxl3	14	103,080,239	103,099,509	19,270 -	1
GenelD:105689	Mycbp2	14	103,113,411	103,346,800	233,389 -	1
GenelD:74213	Rbm26	14	105,114,519	105,177,327	62,808 -	1
GenelD:24064	Spry2	14	105,891,947	105,896,819	4,872 -	1
GenelD:212085	Trim52	14	106,106,198	106,109,280	3,082 +	1
GenelD:23888	Gpc6	14	116,925,315	117,979,529	1,054,214 +	1
GenelD:10050370	Gm19845	14	116,934,884	116,937,613	2,729 +	1

GenelD:76355	Tgds	14	118,111,911	118,132,765	20,854 -	1
GenelD:58245	Gpr180	14	118,137,127	118,164,232	27,105 +	1
GenelD:239273	Abcc4	14	118,482,692	118,706,219	223,527 -	1
GenelD:10003725	Dnajc3	14	118,937,932	118,981,702	43,770 +	1
GenelD:66435	Uggt2	14	118,984,985	119,099,434	114,449 -	1
GenelD:50787	Hs6st3	14	119,138,265	119,869,815	731,550 +	1
GenelD:76108	Rap2a	14	120,478,461	120,507,194	28,733 +	1
GenelD:223254	Farp1	14	121,035,574	121,283,726	248,152 +	2
GenelD:223255	Stk24	14	121,286,341	121,379,230	92,889 -	2
GenelD:68889	Ubac2	14	121,878,606	122,021,035	142,429 +	1
GenelD:319727	A330035P11Rik	14	122,097,939	122,106,974	9,035 -	1
GenelD:68059	Tm9sf2	14	122,107,082	122,159,603	52,521 +	1
GenelD:65100	Zic5	14	122,459,160	122,465,658	6,498 -	1
GenelD:69248	2610035F20Rik	14	122,470,377	122,475,199	4,822 -	1
GenelD:22772	Zic2	14	122,475,384	122,480,328	4,944 +	1
GenelD:70551	Tmtc4	14	122,918,975	122,983,261	64,286 -	1
GenelD:338370	Nalcn	14	123,276,641	123,627,144	350,503 -	1
GenelD:14169	Fgf14	14	123,978,291	124,677,127	698,836 -	1
GenelD:106052	Fbxo4	15	3,963,564	3,979,573	16,009 -	1
GenelD:106064	AW549877	15	3,982,035	3,995,752	13,717 -	2
GenelD:328489	A630020A06	15	3,996,039	4,015,858	19,819 +	1
GenelD:239319	Card6	15	5,097,439	5,108,533	11,094 -	1
GenelD:67281	Rpl37	15	5,116,613	5,119,140	2,527 +	1
GenelD:10030252	Snord72	15	5,118,421	5,118,480	59 +	1
GenelD:105787	Prkaa1	15	5,143,861	5,181,899	38,038 +	1
GenelD:268780	Egflam	15	7,206,120	7,398,304	192,184 -	1
GenelD:14573	Gdnf	15	7,811,011	7,837,575	26,564 +	1
GenelD:71175	Nipbl	15	8,291,225	8,444,463	153,238 -	2
GenelD:27401	Skp2	15	9,111,985	9,140,451	28,466 -	1
GenelD:320506	Lmbrd2	15	9,140,570	9,197,450	56,880 +	1
GenelD:75646	Rai14	15	10,568,978	10,714,631	145,653 -	1
GenelD:75259	4930556M19Rik	15	10,714,836	10,790,123	75,287 +	1
GenelD:22293	Slc45a2	15	11,000,721	11,029,233	28,512 +	1
GenelD:239336	Rxfp3	15	11,033,717	11,037,968	4,251 -	1
GenelD:18162	Npr3	15	11,839,896	11,905,674	65,778 -	1
GenelD:381002	Gm5144	15	11,906,519	11,907,395	876 +	1
GenelD:20024	Sub1	15	11,981,339	11,996,007	14,668 -	1
GenelD:22763	Zfr	15	12,117,851	12,185,449	67,598 +	1
GenelD:66629	Golph3	15	12,321,496	12,351,267	29,771 +	1
GenelD:12563	Cdh6	15	13,034,200	13,173,639	139,439 -	1
GenelD:70350	Basp1	15	25,363,277	25,413,764	50,487 -	1
GenelD:432939	Gm5468	15	25,414,192	25,452,418	38,226 +	1
GenelD:17909	Myo10	15	25,622,550	25,813,671	191,121 +	2
GenelD:52521	Zfp622	15	25,984,366	25,998,482	14,116 +	1
GenelD:448987	Fbxl7	15	26,540,459	26,895,564	355,105 -	2
GenelD:223435	Trio	15	27,730,649	28,025,848	295,199 -	1
GenelD:67434	Ankrd33b	15	31,291,479	31,367,759	76,280 -	1

GenelD:223455	March6	15	31,455,899	31,531,037	75,138 -	1
GenelD:12465	Cct5	15	31,590,884	31,601,804	10,920 -	1
GenelD:68073	Fam173b	15	31,602,116	31,617,535	15,419 +	1
GenelD:10061609	0610007N19Rik	15	32,240,568	32,244,662	4,094 -	1
GenelD:66835	Snord123	15	32,241,845	32,241,932	87 -	1
GenelD:20356	Sema5a	15	32,244,813	32,696,341	451,528 +	1
GenelD:239364	Tspyl5	15	33,683,875	33,687,883	4,008 -	1
GenelD:67154	Mtdh	15	34,082,719	34,142,385	59,666 +	1
GenelD:17181	Matn2	15	34,306,681	34,436,242	129,561 +	2
GenelD:19946	Rpl30	15	34,440,505	34,443,276	2,771 -	1
GenelD:239368	BC030476	15	34,453,312	34,473,892	20,580 +	1
GenelD:15473	Hrsp12	15	34,484,022	34,495,246	11,224 -	1
GenelD:67724	Pop1	15	34,495,311	34,530,653	35,342 +	1
GenelD:223473	Nipal2	15	34,572,799	34,678,706	105,907 -	1
GenelD:71637	4930413F20Rik	15	34,675,073	34,679,204	4,131 +	1
GenelD:16539	Kcns2	15	34,837,381	34,842,337	4,956 +	1
GenelD:56274	Stk3	15	34,875,499	35,155,806	280,307 -	1
GenelD:107587	Osr2	15	35,296,112	35,303,305	7,193 +	3
GenelD:10012626	BC048602	15	35,307,010	35,328,535	21,525 -	2
GenelD:666173	Vps13b	15	35,371,546	35,931,229	559,683 +	2
GenelD:12864	Cox6c	15	35,931,976	35,938,246	6,270 -	1
GenelD:26942	Spag1	15	36,179,530	36,235,177	55,647 +	1
GenelD:30945	Rnf19a	15	36,239,934	36,283,147	43,213 -	1
GenelD:18458	Pabpc1	15	36,595,658	36,608,973	13,315 -	1
GenelD:22631	Ywhaz	15	36,770,261	36,802,984	32,723 -	1
GenelD:52589	Ncald	15	37,366,175	37,792,428	426,253 -	1
GenelD:70790	Ubr5	15	37,967,328	38,078,853	111,525 -	1
GenelD:54375	Azin1	15	38,487,430	38,519,266	31,836 -	1
GenelD:66335	Atp6v1c1	15	38,661,904	38,692,444	30,540 +	1
GenelD:69906	Slc25a32	15	39,094,191	39,112,716	18,525 -	1
GenelD:223499	Dcaf13	15	39,112,874	39,146,856	33,982 +	1
GenelD:116838	Rims2	15	39,198,286	39,684,372	486,086 +	2
GenelD:239393	Lrp12	15	39,870,603	39,943,757	73,154 -	1
GenelD:22762	Zfpm2	15	40,655,042	41,104,592	449,550 +	1
GenelD:170719	Oxr1	15	41,447,482	41,861,048	413,566 +	1
GenelD:67429	Nudcd1	15	44,375,227	44,428,307	53,080 -	1
GenelD:223527	Eny2	15	44,428,111	44,437,685	9,574 +	1
GenelD:55960	Ebag9	15	44,619,641	44,641,027	21,386 +	1
GenelD:19357	Rad21	15	51,962,604	51,991,760	29,156 -	1
GenelD:14042	Ext1	15	53,068,261	53,346,183	277,922 -	1
GenelD:72107	Dscc1	15	55,076,101	55,090,478	14,377 -	1
GenelD:10050379	Gm9920	15	55,099,917	55,113,582	13,665 -	2
GenelD:97998	Deptor	15	55,112,483	55,254,202	141,719 +	1
GenelD:68537	Mrpl13	15	55,534,095	55,557,312	23,217 -	1
GenelD:105837	Mtbp	15	55,557,408	55,626,423	69,015 +	1
GenelD:20649	Sntb1	15	55,639,154	55,906,949	267,795 -	1
GenelD:387609	Zhx2	15	57,694,667	57,839,832	145,165 +	1

GenelD:75758	9130401M01Rik	15	58,022,270	58,034,294	12,024 -	1
GenelD:22770	Zhx1	15	58,047,003	58,076,489	29,486 -	1
GenelD:70472	Atad2	15	58,094,047	58,135,082	41,035 -	1
GenelD:76773	Wdyhv1	15	58,141,436	58,158,654	17,218 +	1
GenelD:67731	Fbxo32	15	58,175,879	58,214,892	39,013 -	1
GenelD:74868	Tmem65	15	58,782,269	58,823,427	41,158 -	1
GenelD:546638	Ube2d4	15	58,823,827	58,847,321	23,494 -	1
GenelD:75841	Rnf139	15	58,889,229	58,902,390	13,161 +	1
GenelD:69694	Tatdn1	15	58,890,153	58,933,730	43,577 -	2
GenelD:66218	Ndufb9	15	58,933,810	58,939,489	5,679 +	1
GenelD:211401	Mtss1	15	58,941,234	59,082,026	140,792 -	2
GenelD:20775	Sqle	15	59,315,092	59,331,193	16,101 +	1
GenelD:223593	E430025E21Rik	15	59,331,997	59,374,152	42,155 -	1
GenelD:68501	Nsmce2	15	59,374,198	59,601,684	227,486 +	1
GenelD:211770	Trib1	15	59,648,654	59,657,099	8,445 +	1
GenelD:399603	Fam84b	15	60,818,996	60,825,080	6,084 -	2
GenelD:320469	9930014A18Rik	15	60,822,965	60,831,400	8,435 +	2
GenelD:17869	Myc	15	61,985,341	61,990,361	5,020 +	2
GenelD:13196	Asap1	15	64,088,539	64,382,919	294,380 -	2
GenelD:76740	Efr3a	15	65,787,041	65,873,812	86,771 +	1
GenelD:239510	Phf20l1	15	66,577,572	66,645,255	67,683 +	1
GenelD:17988	Ndrp1	15	66,929,318	66,969,641	40,323 -	1
GenelD:76510	Trappc9	15	72,589,620	73,061,204	471,584 -	1
GenelD:353342	Peg13	15	72,805,604	72,810,324	4,720 -	1
GenelD:239528	Ago2	15	73,101,625	73,184,947	83,322 -	2
GenelD:10050366	1700010B13Rik	15	73,645,852	73,652,347	6,495 +	1
GenelD:16469	Jrk	15	74,702,412	74,709,322	6,910 -	1
GenelD:66769	4933427E11Rik	15	74,709,161	74,710,374	1,213 +	1
GenelD:72373	Psca	15	74,714,839	74,717,065	2,226 +	1
GenelD:22701	Zfp41	15	75,616,685	75,625,295	8,610 +	1
GenelD:378435	Mafa	15	75,746,843	75,747,922	1,079 -	1
GenelD:223642	Zc3h3	15	75,754,447	75,841,908	87,461 -	1
GenelD:78834	Zfp623	15	75,940,952	75,949,400	8,448 +	1
GenelD:105782	Scrib	15	76,047,186	76,069,730	22,544 -	1
GenelD:67959	Puf60	15	76,070,182	76,080,946	10,764 -	3
GenelD:223649	Nrbp2	15	76,085,594	76,090,013	4,419 -	2
GenelD:223650	Eppk1	15	76,101,488	76,120,195	18,707 -	2
GenelD:18810	Plec	15	76,170,974	76,231,378	60,404 -	5
GenelD:10031677	Mir1942	15	76,215,611	76,215,673	62 -	1
GenelD:671535	Parp10	15	76,232,995	76,243,440	10,445 -	3
GenelD:66168	Grina	15	76,246,807	76,249,904	3,097 +	1
GenelD:109075	Exosc4	15	76,327,397	76,330,670	3,273 +	1
GenelD:14731	Gpaa1	15	76,331,294	76,334,899	3,605 +	2
GenelD:66445	Cyc1	15	76,343,523	76,345,934	2,411 +	1
GenelD:106025	Sharpin	15	76,347,040	76,351,110	4,070 -	1
GenelD:68877	Maf1	15	76,351,294	76,354,378	3,084 +	1
GenelD:59053	Fam203a	15	76,368,898	76,371,411	2,513 +	2

GenelD:73542	Tssk5	15	76,371,958	76,374,938	2,980 -	2
GenelD:223658	Mroh1	15	76,380,513	76,453,039	72,526 +	3
GenelD:12181	Bop1	15	76,452,996	76,477,269	24,273 -	3
GenelD:20289	Scx	15	76,457,438	76,459,468	2,030 +	2
GenelD:15499	Hsf1	15	76,477,445	76,500,972	23,527 +	1
GenelD:13350	Dgat1	15	76,502,015	76,511,818	9,803 -	1
GenelD:170729	Scrt1	15	76,516,203	76,522,129	5,926 -	2
GenelD:666504	Gm8140	15	76,533,211	76,535,366	2,155 -	2
GenelD:30840	Fbxl6	15	76,535,723	76,538,746	3,023 -	1
GenelD:52710	Slc52a2	15	76,538,943	76,542,130	3,187 +	1
GenelD:54151	Cyhr1	15	76,645,767	76,660,108	14,341 -	1
GenelD:16581	Kifc2	15	76,660,641	76,668,196	7,555 +	2
GenelD:14106	Foxh1	15	76,668,307	76,669,873	1,566 -	1
GenelD:73062	Ppp1r16a	15	76,671,680	76,694,915	23,235 +	1
GenelD:69572	Mfsd3	15	76,701,542	76,704,239	2,697 +	1
GenelD:79456	Recql4	15	76,703,553	76,710,559	7,006 -	1
GenelD:223664	Lrrc14	15	76,710,740	76,715,091	4,351 +	2
GenelD:378937	Lrrc24	15	76,715,276	76,722,173	6,897 -	2
GenelD:223665	C030006K11Rik	15	76,721,465	76,723,845	2,380 -	1
GenelD:223666	Arhgap39	15	76,723,985	76,818,170	94,185 -	2
GenelD:223669	Zfp7	15	76,879,276	76,892,395	13,119 +	1
GenelD:66398	Commd5	15	76,899,941	76,901,297	1,356 +	2
GenelD:26961	Rpl8	15	76,904,071	76,906,318	2,247 +	2
GenelD:239546	Zfp647	15	76,910,370	76,925,448	15,078 -	2
GenelD:93686	Rbfox2	15	77,078,990	77,307,053	228,063 -	1
GenelD:239552	Apol8	15	77,748,613	77,755,229	6,616 -	1
GenelD:17886	Myh9	15	77,760,589	77,842,115	81,526 -	2
GenelD:239554	Foxred2	15	77,940,522	77,956,722	16,200 -	1
GenelD:55944	Eif3d	15	77,958,998	77,970,824	11,826 -	2
GenelD:12300	Cacng2	15	77,993,623	78,119,280	125,657 -	1
GenelD:73376	Tex33	15	78,378,400	78,395,912	17,512 -	1
GenelD:22117	Tst	15	78,399,556	78,405,859	6,303 -	2
GenelD:246221	Mpst	15	78,406,712	78,414,015	7,303 +	2
GenelD:72844	Kctd17	15	78,428,628	78,439,303	10,675 +	2
GenelD:71753	Tmprss6	15	78,439,667	78,468,634	28,967 -	1
GenelD:207393	Elfn2	15	78,670,003	78,718,113	48,110 -	2
GenelD:104445	Cdc42ep1	15	78,842,647	78,850,902	8,255 +	1
GenelD:107753	Lgals2	15	78,850,860	78,855,529	4,669 -	1
GenelD:106039	Gga1	15	78,877,190	78,894,585	17,395 +	2
GenelD:10003869	Gm10866	15	78,898,207	78,899,712	1,505 -	1
GenelD:20401	Sh3bp1	15	78,899,786	78,912,052	12,266 +	2
GenelD:57028	Pdpx	15	78,913,919	78,919,517	5,598 +	2
GenelD:16852	Lgals1	15	78,926,725	78,930,465	3,740 +	1
GenelD:97961	Nol12	15	78,934,933	78,941,910	6,977 +	1
GenelD:110253	Triobp	15	78,947,724	79,005,869	58,145 +	1
GenelD:654469	Gm17753	15	79,015,329	79,025,954	10,625 -	2
GenelD:14958	H1f0	15	79,028,212	79,030,504	2,292 +	2

GenelD:26912	Gcat	15	79,030,874	79,042,531	11,657 +	2
GenelD:223691	Eif3l	15	79,075,223	79,094,400	19,177 +	1
GenelD:27008	Micall1	15	79,108,983	79,136,900	27,917 +	1
GenelD:20665	Sox10	15	79,154,913	79,164,490	9,577 -	1
GenelD:10004165	Gm10863	15	79,166,066	79,216,401	50,335 +	1
GenelD:17133	Maff	15	79,347,678	79,359,076	11,398 +	2
GenelD:223693	Tmem184b	15	79,360,684	79,403,303	42,619 -	2
GenelD:16520	Kcnj4	15	79,483,714	79,505,241	21,527 -	1
GenelD:105785	Kdelr3	15	79,516,408	79,527,739	11,331 +	1
GenelD:75729	Fam227a	15	79,609,576	79,658,956	49,380 -	1
GenelD:73739	Cby1	15	79,659,227	79,667,660	8,433 +	1
GenelD:74158	Josd1	15	79,674,250	79,687,872	13,622 -	2
GenelD:10105594	LOC101055940	15	79,689,125	79,692,385	3,260 -	2
GenelD:14904	Gtpbp1	15	79,690,896	79,721,479	30,583 +	2
GenelD:223697	Sun2	15	79,724,068	79,742,536	18,468 -	1
GenelD:10050419	Gm16576	15	79,742,698	79,757,394	14,696 +	1
GenelD:504193	Npcd	15	79,786,351	79,834,333	47,982 -	3
GenelD:73340	Nptxr	15	79,786,351	79,804,709	18,358 -	1
GenelD:494448	Cbx6	15	79,823,898	79,834,333	10,435 -	2
GenelD:10003835	Gm10856	15	79,843,163	79,846,763	3,600 +	1
GenelD:18591	Pdgfb	15	79,995,874	80,014,808	18,934 -	1
GenelD:213956	Fam83f	15	80,671,847	80,700,425	28,578 +	1
GenelD:213988	Tnrc6b	15	80,711,313	80,941,086	229,773 +	1
GenelD:11564	Adsl	15	80,948,519	80,969,373	20,854 +	1
GenelD:105835	Sgsm3	15	80,977,765	81,012,290	34,525 +	1
GenelD:223701	Mkl1	15	81,012,281	81,190,757	178,476 -	1
GenelD:67638	4930483J18Rik	15	81,190,853	81,192,757	1,904 +	1
GenelD:70356	St13	15	81,365,044	81,399,694	34,650 -	1
GenelD:321003	Xpnpep3	15	81,400,188	81,454,888	54,700 +	1
GenelD:57755	Dnajb7	15	81,407,088	81,408,273	1,185 -	1
GenelD:328572	Ep300	15	81,586,214	81,652,077	65,863 +	1
GenelD:214669	L3mbtl2	15	81,663,936	81,688,305	24,369 +	1
GenelD:214685	Chadl	15	81,686,166	81,697,287	11,121 -	1
GenelD:19387	Rangap1	15	81,704,248	81,729,919	25,671 -	2
GenelD:20286	Zc3h7b	15	81,744,848	81,796,269	51,421 +	2
GenelD:10050431	Gm17597	15	81,800,790	81,802,613	1,823 -	1
GenelD:21685	Tef	15	81,802,673	81,826,863	24,190 +	1
GenelD:57259	Tob2	15	81,848,270	81,858,326	10,056 -	1
GenelD:68479	Phf5a	15	81,864,516	81,871,892	7,376 -	1
GenelD:78929	Polr3h	15	81,915,030	81,926,213	11,183 -	1
GenelD:105859	Csdc2	15	81,936,759	81,950,941	14,182 +	1
GenelD:29858	Pmm1	15	81,951,106	81,960,867	9,761 -	1
GenelD:14375	Xrcc6	15	82,016,369	82,040,084	23,715 +	1
GenelD:20826	Nhp211	15	82,041,345	82,047,598	6,253 -	1
GenelD:74369	Mei1	15	82,070,117	82,126,814	56,697 +	1
GenelD:76457	Ccdc134	15	82,127,922	82,142,203	14,281 +	2
GenelD:20788	Srebf2	15	82,147,269	82,204,960	57,691 +	1

GenelD:66570	Cenpm	15	82,233,762	82,244,747	10,985 -	2
GenelD:76505	1500009C09Rik	15	82,252,397	82,260,753	8,356 +	1
GenelD:21411	Tcf20	15	82,808,622	82,912,134	103,512 -	1
GenelD:21378	Tbrg3	15	82,890,483	82,898,461	7,978 -	1
GenelD:10050463	Gm20324	15	82,899,080	82,905,816	6,736 +	1
GenelD:68607	Serhl	15	83,100,205	83,116,671	16,466 +	1
GenelD:74778	Rrp7a	15	83,115,846	83,122,801	6,955 -	1
GenelD:73826	Poldip3	15	83,125,978	83,149,336	23,358 -	1
GenelD:66251	Arfgap3	15	83,299,740	83,350,247	50,507 -	1
GenelD:69291	1700001L05Rik	15	83,353,847	83,367,297	13,450 -	1
GenelD:23970	Pacsin2	15	83,375,607	83,464,606	88,999 -	1
GenelD:223722	Mcat	15	83,546,797	83,555,711	8,914 -	1
GenelD:12257	Tspo	15	83,563,573	83,574,203	10,630 +	1
GenelD:223723	Ttll12	15	83,575,094	83,595,157	20,063 -	1
GenelD:64706	Scube1	15	83,602,583	83,725,021	122,438 -	2
GenelD:223732	Ldoc1l	15	84,553,398	84,557,823	4,425 -	1
GenelD:271305	Phf21b	15	84,785,376	84,856,129	70,753 -	1
GenelD:18141	Nup50	15	84,923,428	84,942,963	19,535 +	1
GenelD:223739	5031439G07Rik	15	84,945,720	84,987,971	42,251 -	1
GenelD:14114	Fbln1	15	85,206,008	85,286,294	80,286 +	1
GenelD:54138	Atxn10	15	85,336,381	85,463,836	127,455 +	1
GenelD:22422	Wnt7b	15	85,535,437	85,581,821	46,384 -	1
GenelD:105975	AU022754	15	85,581,142	85,593,708	12,566 +	1
GenelD:19013	Ppara	15	85,735,564	85,806,851	71,287 +	1
GenelD:29870	Gtse1	15	85,859,707	85,876,573	16,866 +	1
GenelD:72026	Trmu	15	85,879,327	85,897,393	18,066 +	1
GenelD:12614	Celsr1	15	85,898,758	86,033,777	135,019 -	1
GenelD:223752	Gramd4	15	86,057,695	86,137,636	79,941 +	1
GenelD:223753	Cerk	15	86,139,101	86,186,141	47,040 -	1
GenelD:223754	Tbc1d22a	15	86,214,459	86,498,503	284,044 +	1
GenelD:106014	Fam19a5	15	87,544,299	87,759,364	215,065 +	1
GenelD:223770	Brd1	15	88,687,035	88,734,219	47,184 -	2
GenelD:223773	Zbed4	15	88,751,711	88,784,516	32,805 +	1
GenelD:223774	Alg12	15	88,805,243	88,819,318	14,075 -	1
GenelD:76737	Creld2	15	88,819,646	88,826,681	7,035 +	1
GenelD:223775	Pim3	15	88,862,194	88,865,726	3,532 +	1
GenelD:406218	Panx2	15	89,059,726	89,070,907	11,181 +	2
GenelD:69120	1810021B22Rik	15	89,071,198	89,075,854	4,656 -	2
GenelD:67976	Trabd	15	89,076,064	89,087,075	11,011 +	3
GenelD:223776	1300018J18Rik	15	89,089,107	89,100,340	11,233 +	1
GenelD:328580	Tubgcp6	15	89,099,098	89,123,150	24,052 -	1
GenelD:19094	Mapk11	15	89,142,482	89,149,606	7,124 -	1
GenelD:140570	Plxnb2	15	89,155,549	89,180,788	25,239 -	3
GenelD:69440	Dennd6b	15	89,182,213	89,196,474	14,261 -	3
GenelD:71474	Ppp6r2	15	89,211,559	89,286,261	74,702 +	1
GenelD:58234	Shank3	15	89,499,857	89,560,261	60,404 +	1
GenelD:68708	Rabl2	15	89,582,527	89,591,923	9,396 -	1

GenelD:16564	Kif21a	15	90,933,276	91,049,948	116,672 -	1
GenelD:239606	Slc2a13	15	91,267,691	91,573,261	305,570 -	1
GenelD:67197	Zcrb1	15	93,386,113	93,398,290	12,177 -	1
GenelD:223828	Pphln1	15	93,398,350	93,491,913	93,563 +	1
GenelD:106042	Prickle1	15	93,499,114	93,595,891	96,777 -	2
GenelD:223838	Adamts20	15	94,270,163	94,404,350	134,187 -	1
GenelD:19230	Twf1	15	94,577,948	94,589,824	11,876 -	1
GenelD:54003	Nell2	15	95,219,450	95,528,706	309,256 -	1
GenelD:791370	A130051J06Rik	15	95,787,856	95,791,642	3,786 -	1
GenelD:105722	Ano6	15	95,790,843	95,975,472	184,629 +	1
GenelD:319722	E330033B04Rik	15	96,268,564	96,275,275	6,711 -	1
GenelD:77044	Arid2	15	96,287,522	96,405,463	117,941 +	2
GenelD:72193	Scaf11	15	96,411,698	96,460,843	49,145 -	1
GenelD:105727	Slc38a1	15	96,571,418	96,642,913	71,495 -	1
GenelD:67760	Slc38a2	15	96,687,392	96,699,698	12,306 -	1
GenelD:71919	Rpap3	15	97,675,105	97,705,822	30,717 -	1
GenelD:19011	Endou	15	97,711,019	97,731,405	20,386 -	1
GenelD:380967	Tmem106c	15	97,964,229	97,970,286	6,057 +	1
GenelD:78541	Asb8	15	98,134,640	98,165,578	30,938 -	1
GenelD:239650	Al836003	15	98,167,806	98,170,134	2,328 +	1
GenelD:69612	Kansl2	15	98,519,101	98,534,221	15,120 -	1
GenelD:10021741	Snora2b	15	98,526,348	98,526,459	111 -	1
GenelD:12455	Ccnt1	15	98,543,211	98,567,636	24,425 -	2
GenelD:10004889	9330020H09Rik	15	98,567,324	98,570,864	3,540 +	1
GenelD:73863	4930415O20Rik	15	98,571,004	98,589,588	18,584 +	1
GenelD:11512	Adcy6	15	98,589,978	98,607,633	17,655 -	1
GenelD:12297	Cacnb3	15	98,632,220	98,644,530	12,310 +	1
GenelD:74351	Ddx23	15	98,645,507	98,662,889	17,382 -	1
GenelD:223881	Rnd1	15	98,669,205	98,677,461	8,256 -	1
GenelD:11842	Arf3	15	98,737,626	98,763,118	25,492 -	1
GenelD:22410	Wnt10b	15	98,771,752	98,778,150	6,398 -	1
GenelD:13199	Ddn	15	98,803,782	98,807,925	4,143 -	1
GenelD:10004916	B130046B21Rik	15	98,807,024	98,816,320	9,296 +	1
GenelD:19082	Prkag1	15	98,812,797	98,831,508	18,711 -	2
GenelD:381022	Mll2	15	98,831,669	98,871,205	39,536 -	4
GenelD:69159	Rhebl1	15	98,877,760	98,881,414	3,654 -	1
GenelD:13363	Dhh	15	98,893,027	98,898,540	5,513 -	2
GenelD:74775	Lmbr1l	15	98,903,921	98,918,098	14,177 -	3
GenelD:22143	Tuba1b	15	98,931,429	98,934,390	2,961 -	1
GenelD:22142	Tuba1a	15	98,949,847	98,953,501	3,654 -	1
GenelD:22146	Tuba1c	15	99,029,891	99,038,105	8,214 +	1
GenelD:19132	Prph	15	99,055,174	99,058,978	3,804 +	1
GenelD:78733	Troap	15	99,074,973	99,083,409	8,436 +	1
GenelD:239659	C1ql4	15	99,084,754	99,087,728	2,974 -	1
GenelD:72778	Dnajc22	15	99,099,484	99,104,709	5,225 +	1
GenelD:16512	Kcnh3	15	99,224,976	99,242,817	17,841 +	1
GenelD:51812	Mcrs1	15	99,242,817	99,251,961	9,144 -	1

GenelD:73600	1700120C14Rik	15	99,251,788	99,262,041	10,253 +	1
GenelD:380969	Nckap5l	15	99,422,034	99,457,748	35,714 -	1
GenelD:75284	Bcdin3d	15	99,470,084	99,474,730	4,646 -	1
GenelD:26934	Racgap1	15	99,620,496	99,651,656	31,160 -	1
GenelD:71949	Cers5	15	99,735,592	99,772,515	36,923 -	1
GenelD:65970	Lima1	15	99,778,468	99,875,456	96,988 -	1
GenelD:207214	Larp4	15	99,970,074	100,016,358	46,284 +	1
GenelD:70281	2310068J16Rik	15	99,972,167	99,973,287	1,120 -	1
GenelD:239667	Dip2b	15	100,038,664	100,219,473	180,809 +	1
GenelD:18174	Slc11a2	15	100,387,898	100,423,055	35,157 -	1
GenelD:432982	Gm5475	15	100,423,193	100,428,150	4,957 +	1
GenelD:68614	Letmd1	15	100,469,034	100,479,252	10,218 +	1
GenelD:207785	Csrnp2	15	100,479,570	100,495,239	15,669 -	2
GenelD:21422	Tfcp2	15	100,502,796	100,551,947	49,151 -	1
GenelD:78445	C330013E15Rik	15	100,614,140	100,615,110	970 -	1
GenelD:23994	Dazap2	15	100,615,662	100,620,761	5,099 +	1
GenelD:207818	Smagp	15	100,621,339	100,636,865	15,526 -	1
GenelD:20273	Scn8a	15	100,870,683	101,045,929	175,246 +	3
GenelD:668225	Figl2	15	101,050,194	101,054,399	4,205 -	3
GenelD:208258	Ankrd33	15	101,115,755	101,120,028	4,273 +	1
GenelD:11482	Acvrl1	15	101,128,537	101,145,336	16,799 +	1
GenelD:380977	A330009N23Rik	15	101,221,191	101,225,186	3,995 -	1
GenelD:105968	AU021063	15	101,221,247	101,222,155	908 +	1
GenelD:56149	Grasp	15	101,224,207	101,232,756	8,549 +	1
GenelD:15370	Nr4a1	15	101,266,846	101,274,795	7,949 +	2
GenelD:68118	9430023L20Rik	15	101,284,301	101,290,934	6,633 +	2
GenelD:77717	6030408B16Rik	15	101,293,212	101,297,426	4,214 +	2
GenelD:75705	Eif4b	15	102,073,773	102,097,173	23,400 +	2
GenelD:109237	A030007N12Rik	15	102,077,424	102,080,224	2,800 +	1
GenelD:209039	Tenc1	15	102,102,988	102,116,401	13,413 +	1
GenelD:223918	Spryd3	15	102,116,528	102,136,215	19,687 -	2
GenelD:16012	Igfbp6	15	102,144,186	102,149,512	5,326 +	2
GenelD:223920	Soat2	15	102,150,575	102,163,436	12,861 +	1
GenelD:19411	Rarg	15	102,234,940	102,257,483	22,543 -	1
GenelD:432988	Gm9918	15	102,270,569	102,274,128	3,559 +	2
GenelD:106073	Mfsd5	15	102,279,456	102,281,744	2,288 +	2
GenelD:105988	Espl1	15	102,296,293	102,324,356	28,063 +	2
GenelD:223921	Aaas	15	102,338,247	102,350,759	12,512 -	1
GenelD:170574	Sp7	15	102,357,177	102,366,271	9,094 -	1
GenelD:66151	Prr13	15	102,459,170	102,462,806	3,636 +	1
GenelD:18521	Pcbp2	15	102,470,632	102,500,059	29,427 +	1
GenelD:15422	Hoxc13	15	102,921,131	102,928,814	7,683 +	1
GenelD:209448	Hoxc10	15	102,966,796	102,971,898	5,102 +	1
GenelD:723958	Mir196a-2	15	102,973,350	102,973,434	84 +	1
GenelD:15427	Hoxc9	15	102,977,032	102,984,444	7,412 +	1
GenelD:15426	Hoxc8	15	102,990,539	102,994,254	3,715 +	1
GenelD:12419	Cbx5	15	103,191,546	103,239,816	48,270 -	1

GenelD:16402	Itga5	15	103,344,286	103,366,748	22,462 -	1
GenelD:74763	Naa60	16	3,884,619	3,904,781	20,162 +	1
GenelD:68015	Trap1	16	4,039,977	4,077,810	37,833 -	1
GenelD:12914	Crebbp	16	4,084,048	4,213,404	129,356 -	2
GenelD:76397	4930455F16Rik	16	4,219,912	4,229,116	9,204 -	1
GenelD:11515	Adcy9	16	4,287,545	4,419,587	132,042 -	1
GenelD:83383	Tfap4	16	4,544,661	4,559,720	15,059 -	1
GenelD:83396	Glis2	16	4,594,713	4,615,957	21,244 +	1
GenelD:78885	Coro7	16	4,626,884	4,679,720	52,836 -	2
GenelD:246154	Vasn	16	4,639,945	4,651,166	11,221 +	2
GenelD:67824	Nmral1	16	4,711,317	4,719,059	7,742 -	1
GenelD:15369	Hmox2	16	4,726,361	4,766,249	39,888 +	1
GenelD:66626	Cdip1	16	4,765,461	4,789,935	24,474 -	1
GenelD:10016986	Gm10914	16	4,868,829	4,870,724	1,895 -	1
GenelD:207740	Ubal1	16	4,874,779	4,879,851	5,072 -	1
GenelD:17237	Mgrn1	16	4,886,100	4,938,296	52,196 +	1
GenelD:72615	Anks3	16	4,941,415	4,964,237	22,822 -	1
GenelD:74684	4930451G09Rik	16	4,964,289	4,978,963	14,674 +	1
GenelD:74022	Glyr1	16	5,013,902	5,049,910	36,008 -	1
GenelD:170644	Ubn1	16	5,050,068	5,086,285	36,217 +	1
GenelD:27426	Nagpa	16	5,195,280	5,204,012	8,732 -	1
GenelD:239691	AU021092	16	5,211,819	5,222,299	10,480 -	1
GenelD:208211	Alg1	16	5,233,621	5,244,907	11,286 +	1
GenelD:70511	Fam86	16	5,244,155	5,255,956	11,801 -	1
GenelD:66690	Tmem186	16	8,633,731	8,637,701	3,970 -	1
GenelD:54128	Pmm2	16	8,637,707	8,657,524	19,817 +	1
GenelD:52502	Carhsp1	16	8,658,587	8,672,153	13,566 -	1
GenelD:436336	Gm5767	16	8,680,770	8,683,905	3,135 +	1
GenelD:252870	Usp7	16	8,688,722	8,738,342	49,620 -	1
GenelD:69053	1810013L24Rik	16	8,830,100	8,858,924	28,824 +	1
GenelD:75329	Atf7ip2	16	10,192,906	10,243,051	50,145 +	1
GenelD:12703	Socs1	16	10,783,808	10,785,536	1,728 -	1
GenelD:21959	Tnp2	16	10,787,935	10,788,655	720 -	1
GenelD:19120	Prm3	16	10,790,508	10,790,914	406 -	1
GenelD:19119	Prm2	16	10,791,381	10,792,097	716 -	1
GenelD:223970	Rmi2	16	10,835,059	10,843,235	8,176 +	1
GenelD:56722	Litaf	16	10,959,273	10,993,121	33,848 -	1
GenelD:20621	Snn	16	11,066,298	11,074,985	8,687 +	1
GenelD:106200	Txndc11	16	11,074,911	11,134,532	59,621 -	1
GenelD:66409	Rsl1d1	16	11,193,037	11,203,292	10,255 -	1
GenelD:69918	2610020C07Rik	16	11,203,383	11,225,796	22,413 +	1
GenelD:14852	Gspt1	16	11,216,240	11,254,325	38,085 -	1
GenelD:10031683	Mir1945	16	11,254,368	11,254,445	77 -	1
GenelD:239719	Mkl2	16	13,256,481	13,417,529	161,048 +	1
GenelD:10012443	Mir193b	16	13,449,523	13,449,601	78 +	1
GenelD:723899	Mir365-1	16	13,453,840	13,453,926	86 +	1
GenelD:74108	Parn	16	13,537,964	13,668,170	130,206 -	1

GenelD:67118	Bfar	16	13,671,858	13,703,612	31,754 +	1
GenelD:66598	3110001I22Rik	16	13,672,020	13,678,385	6,365 +	1
GenelD:106298	Rrn3	16	13,780,699	13,814,841	34,142 +	2
GenelD:18203	Ntan1	16	13,819,277	13,835,450	16,173 +	1
GenelD:94184	Pdxdc1	16	13,833,930	13,903,135	69,205 -	1
GenelD:12609	Cebpd	16	15,887,286	15,889,545	2,259 +	1
GenelD:224008	2310008H04Rik	16	15,889,227	16,146,833	257,606 -	1
GenelD:70120	Yars2	16	16,302,965	16,309,640	6,675 +	1
GenelD:74006	Dnm1l	16	16,312,233	16,359,030	46,797 -	2
GenelD:16136	Igll1	16	16,860,671	16,863,985	3,314 -	1
GenelD:22362	Vpreb1	16	16,868,401	16,869,255	854 -	1
GenelD:21976	Top3b	16	16,870,891	16,892,986	22,095 +	1
GenelD:26413	Mapk1	16	16,983,382	17,047,453	64,071 +	1
GenelD:70458	2610318N02Rik	16	17,113,398	17,125,106	11,708 -	1
GenelD:723816	Mir130b	16	17,124,061	17,124,142	81 -	1
GenelD:791069	Mir301b	16	17,124,400	17,124,496	96 -	1
GenelD:64136	Sdf2l1	16	17,130,138	17,132,383	2,245 -	1
GenelD:623568	Gm6440	16	17,137,288	17,137,708	420 +	1
GenelD:76872	Ccdc116	16	17,139,064	17,144,423	5,359 -	1
GenelD:22195	Ube2l3	16	17,152,015	17,201,492	49,477 -	2
GenelD:239731	Rimbp3	16	17,208,135	17,213,982	5,847 +	2
GenelD:58180	Hic2	16	17,233,587	17,263,430	29,843 +	1
GenelD:224020	Pi4ka	16	17,280,351	17,406,314	125,963 -	1
GenelD:67474	Snap29	16	17,406,000	17,430,826	24,826 +	1
GenelD:12929	Crkl	16	17,451,987	17,486,255	34,268 +	1
GenelD:66863	Lztr1	16	17,508,971	17,526,330	17,359 +	1
GenelD:69009	Thap7	16	17,527,982	17,531,052	3,070 -	1
GenelD:77626	Smpd4	16	17,619,354	17,644,830	25,476 +	1
GenelD:94112	Med15	16	17,651,221	17,722,930	71,709 -	1
GenelD:224023	Klhl22	16	17,759,621	17,793,382	33,761 +	3
GenelD:224024	Scarf2	16	17,797,282	17,808,287	11,005 +	3
GenelD:433004	B830017H08Rik	16	17,833,119	17,835,019	1,900 +	1
GenelD:80733	Car15	16	17,835,276	17,838,186	2,910 -	1
GenelD:13356	Dgcr2	16	17,840,355	17,891,728	51,373 -	2
GenelD:22114	Tssk1	16	17,894,203	17,895,653	1,450 +	1
GenelD:22115	Tssk2	16	17,898,637	17,900,024	1,387 +	1
GenelD:27886	Dgcr14	16	17,900,709	17,911,348	10,639 -	1
GenelD:13358	Slc25a1	16	17,925,211	17,928,219	3,008 -	1
GenelD:27801	Zdhhc8	16	18,220,753	18,235,136	14,383 -	1
GenelD:19385	Ranbp1	16	18,239,979	18,248,694	8,715 -	2
GenelD:15547	Trmt2a	16	18,248,883	18,254,772	5,889 +	1
GenelD:94223	Dgcr8	16	18,253,964	18,289,168	35,204 -	2
GenelD:10031681	Mir1306	16	18,284,239	18,284,317	78 -	1
GenelD:11877	Arvcf	16	18,348,274	18,407,076	58,802 +	1
GenelD:13972	Gnb1l	16	18,498,768	18,566,679	67,911 +	1
GenelD:21380	Tbx1	16	18,581,713	18,586,969	5,256 -	3
GenelD:619305	4930588K23Rik	16	18,591,992	18,609,751	17,759 +	3

GenelD:12741	Cldn5	16	18,776,847	18,778,262	1,415 +	1
GenelD:12544	Cdc45	16	18,780,447	18,811,972	31,525 -	1
GenelD:18100	Mrpl40	16	18,872,018	18,876,637	4,619 -	1
GenelD:15260	Hira	16	18,876,750	18,970,309	93,559 +	1
GenelD:108105	B3gnt5	16	19,760,234	19,772,753	12,519 +	1
GenelD:75785	Klhl24	16	20,097,554	20,127,744	30,190 +	1
GenelD:208146	Yeats2	16	20,141,063	20,232,573	91,510 +	1
GenelD:381038	Parl	16	20,279,820	20,302,362	22,542 -	1
GenelD:224044	Cyp2ab1	16	20,308,387	20,325,404	17,017 -	1
GenelD:27416	Abcc5	16	20,331,303	20,426,394	95,091 -	1
GenelD:224045	Eif2b5	16	20,498,817	20,509,325	10,508 +	1
GenelD:10050429	Gm16618	16	20,510,763	20,517,766	7,003 -	1
GenelD:13544	Dvl3	16	20,517,064	20,532,187	15,123 +	1
GenelD:208624	Alg3	16	20,605,458	20,610,749	5,291 -	1
GenelD:107522	Ece2	16	20,611,601	20,645,915	34,314 +	1
GenelD:73047	Camk2n2	16	20,619,215	20,621,278	2,063 -	1
GenelD:21762	Psmd2	16	20,651,652	20,663,414	11,762 +	1
GenelD:208643	Eif4g1	16	20,672,749	20,692,883	20,134 +	2
GenelD:78408	Fam131a	16	20,695,057	20,703,036	7,979 +	1
GenelD:12724	Clcn2	16	20,702,966	20,716,636	13,670 -	3
GenelD:245841	Polr2h	16	20,717,826	20,722,265	4,439 +	2
GenelD:21832	Thpo	16	20,724,454	20,734,511	10,057 -	3
GenelD:12667	Chrd	16	20,733,127	20,742,384	9,257 +	1
GenelD:72190	2510009E07Rik	16	21,649,045	21,694,665	45,620 -	1
GenelD:66664	Tmem41a	16	21,934,327	21,947,552	13,225 -	1
GenelD:239759	Liph	16	21,953,817	21,995,542	41,725 -	1
GenelD:319765	Igf2bp2	16	22,059,009	22,163,299	104,290 -	2
GenelD:20462	Tra2b	16	22,245,741	22,265,929	20,188 -	1
GenelD:104156	Etv5	16	22,381,313	22,439,570	58,257 -	1
GenelD:13682	Eif4a2	16	23,107,479	23,114,132	6,653 +	1
GenelD:10021653	Snord2	16	23,108,953	23,109,020	67 +	1
GenelD:10021742	Snora81	16	23,110,770	23,110,933	163 +	1
GenelD:106344	Rfc4	16	23,113,948	23,127,730	13,782 -	1
GenelD:12053	Bcl6	16	23,965,052	23,988,612	23,560 -	1
GenelD:210530	Leprel1	16	25,960,323	26,105,784	145,461 -	1
GenelD:67501	Ccdc50	16	27,388,977	27,452,218	63,241 +	1
GenelD:14167	Fgf12	16	28,160,098	28,753,202	593,104 -	1
GenelD:239796	Mb21d2	16	28,826,176	28,929,698	103,522 -	2
GenelD:10004310	4632428C04Rik	16	30,008,667	30,021,430	12,763 +	1
GenelD:15205	Hes1	16	30,065,357	30,067,796	2,439 +	2
GenelD:224088	Atp13a3	16	30,312,423	30,388,530	76,107 -	1
GenelD:224093	Fam43a	16	30,599,723	30,602,797	3,074 +	1
GenelD:78618	Acap2	16	31,092,413	31,201,238	108,825 -	1
GenelD:66849	Ppp1r2	16	31,251,541	31,275,277	23,736 -	1
GenelD:71911	Bdh1	16	31,422,297	31,458,901	36,604 +	1
GenelD:239827	Pigz	16	31,933,851	31,946,046	12,195 +	1
GenelD:106264	0610012G03Rik	16	31,947,051	31,948,521	1,470 -	1

GenelD:68092	Ncbp2	16	31,948,546	31,958,472	9,926 +	1
GenelD:320213	Senp5	16	31,959,670	32,003,287	43,617 -	1
GenelD:224111	Ubxn7	16	32,332,252	32,393,747	61,495 +	1
GenelD:66061	Tctex1d2	16	32,419,702	32,428,892	9,190 +	1
GenelD:13026	Pcyt1a	16	32,430,921	32,475,065	44,144 +	1
GenelD:22042	Tfrc	16	32,608,896	32,632,794	23,898 +	1
GenelD:51789	Tnk2	16	32,644,643	32,683,493	38,850 +	1
GenelD:10050269	1700021K19Rik	16	32,821,702	32,868,366	46,664 -	1
GenelD:69823	Fyttd1	16	32,877,784	32,908,963	31,179 +	2
GenelD:70144	Lrch3	16	32,914,100	33,016,029	101,929 +	1
GenelD:625660	Gm6611	16	32,922,987	32,924,486	1,499 +	1
GenelD:69707	Iqcg	16	33,014,270	33,056,186	41,916 -	2
GenelD:57808	Rpl35a	16	33,056,453	33,060,189	3,736 +	2
GenelD:239833	Lmln	16	33,062,521	33,125,659	63,138 +	2
GenelD:106326	Osbpl11	16	33,185,071	33,243,312	58,241 +	2
GenelD:69150	Snx4	16	33,251,456	33,299,562	48,106 +	1
GenelD:10050274	1700007L15Rik	16	33,379,854	33,380,736	882 -	1
GenelD:22661	Zfp148	16	33,380,775	33,503,903	123,128 +	1
GenelD:77446	Heg1	16	33,684,466	33,768,195	83,729 +	1
GenelD:22247	Umps	16	33,955,012	33,967,003	11,991 -	1
GenelD:545156	Kalrn	16	33,969,073	34,514,027	544,954 -	1
GenelD:107589	Mylk	16	34,784,950	35,002,434	217,484 +	1
GenelD:70757	Ptplb	16	35,022,421	35,109,175	86,754 +	1
GenelD:224129	Adcy5	16	35,155,636	35,304,549	148,913 +	1
GenelD:317717	Sec22a	16	35,311,131	35,363,918	52,787 -	1
GenelD:72599	Pdia5	16	35,397,312	35,490,873	93,561 -	1
GenelD:20357	Sema5b	16	35,541,362	35,664,258	122,896 +	2
GenelD:224132	Dirc2	16	35,694,903	35,769,356	74,453 -	2
GenelD:66667	Hspbap1	16	35,770,386	35,828,462	58,076 +	2
GenelD:70186	Fam162a	16	36,043,844	36,071,515	27,671 -	1
GenelD:381045	Ccdc58	16	36,071,660	36,092,118	20,458 +	1
GenelD:14314	Fstl1	16	37,777,055	37,836,516	59,461 +	1
GenelD:320184	Lrrc58	16	37,868,400	37,888,857	20,457 +	1
GenelD:414072	BC031361	16	38,085,064	38,089,260	4,196 -	1
GenelD:56637	Gsk3b	16	38,089,001	38,246,079	157,078 +	1
GenelD:11544	Adprh	16	38,445,399	38,452,689	7,290 -	1
GenelD:12519	Cd80	16	38,458,933	38,486,933	28,000 +	1
GenelD:224143	Poglut1	16	38,525,180	38,550,184	25,004 -	1
GenelD:67846	Tmem39a	16	38,558,698	38,592,162	33,464 +	1
GenelD:12549	Arhgap31	16	38,598,343	38,713,035	114,692 -	1
GenelD:56375	B4galt4	16	38,742,264	38,769,045	26,781 +	1
GenelD:332175	Zdhhc23	16	43,969,146	43,979,050	9,904 -	1
GenelD:207798	Gramd1c	16	43,980,350	44,027,945	47,595 -	1
GenelD:11964	Atp6v1a	16	44,085,404	44,139,019	53,615 -	1
GenelD:72117	Naa50	16	44,139,809	44,163,364	23,555 +	2
GenelD:207806	Gm608	16	44,173,397	44,227,465	54,068 +	1
GenelD:212514	Spice1	16	44,347,401	44,388,492	41,091 +	1

GenelD:117606	Boc	16	44,485,045	44,558,870	73,825 -	1
GenelD:10052647	Mir3081	16	44,558,046	44,558,129	83 -	1
GenelD:212547	BC027231	16	44,724,301	44,737,284	12,983 +	1
GenelD:74102	Slc35a5	16	45,139,573	45,158,673	19,100 -	1
GenelD:67841	Atg3	16	45,158,829	45,188,538	29,709 +	1
GenelD:17470	Cd200	16	45,382,135	45,409,053	26,918 -	1
GenelD:208166	Gm609	16	45,416,755	45,492,969	76,214 -	1
GenelD:58998	Pvrl3	16	46,394,858	46,496,967	102,109 -	1
GenelD:224170	Dzip3	16	48,924,228	48,994,112	69,884 -	1
GenelD:224171	C330027C09Rik	16	48,994,188	49,019,705	25,517 +	1
GenelD:73916	Ift57	16	49,699,294	49,765,126	65,832 +	1
GenelD:16423	Cd47	16	49,855,654	49,911,688	56,034 +	2
GenelD:70508	Bbx	16	50,191,844	50,432,389	240,545 -	1
GenelD:619312	G730013B05Rik	16	50,526,245	50,559,459	33,214 +	1
GenelD:208650	Cblb	16	52,031,549	52,208,047	176,498 +	1
GenelD:80859	Nfkbiz	16	55,811,377	55,838,641	27,264 -	1
GenelD:629242	Gm6958	16	55,961,315	55,965,054	3,739 +	2
GenelD:68193	Rpl24	16	55,966,275	55,971,437	5,162 +	2
GenelD:66391	2310061J03Rik	16	55,973,268	55,974,617	1,349 -	2
GenelD:271377	Zbtb11	16	55,973,804	56,008,913	35,109 +	2
GenelD:76302	Pcnp	16	56,015,508	56,029,717	14,209 -	2
GenelD:52575	Trmt10c	16	56,033,720	56,037,774	4,054 -	2
GenelD:28185	Tomm70a	16	57,121,714	57,154,530	32,816 +	1
GenelD:52633	Nit2	16	57,156,665	57,167,332	10,667 -	1
GenelD:10050363	Gm16892	16	57,167,401	57,174,421	7,020 +	1
GenelD:67581	Tbc1d23	16	57,168,862	57,231,466	62,604 -	1
GenelD:73379	Dcbl2	16	58,408,535	58,469,745	61,210 +	1
GenelD:54613	St3gal6	16	58,470,541	58,523,312	52,771 -	1
GenelD:12892	Cpox	16	58,670,208	58,680,391	10,183 +	1
GenelD:67609	4930453N24Rik	16	64,766,105	64,770,939	4,834 -	1
GenelD:72020	Zfp654	16	64,780,347	64,786,321	5,974 -	1
GenelD:10086191	LOC100861916	16	64,786,675	64,851,652	64,977 -	2
GenelD:106143	Cggbp1	16	64,852,085	64,859,491	7,406 +	2
GenelD:68942	Chmp2b	16	65,539,133	65,562,697	23,564 -	1
GenelD:73569	Vgll3	16	65,815,633	65,863,066	47,433 +	1
GenelD:74185	Gbe1	16	70,314,087	70,569,716	255,629 +	1
GenelD:19876	Robo1	16	72,663,149	73,046,100	382,951 +	1
GenelD:268903	Nrip1	16	76,290,862	76,373,049	82,187 -	1
GenelD:13052	Cxadr	16	78,301,691	78,359,785	58,094 +	1
GenelD:12228	Btg3	16	78,359,860	78,376,785	16,925 -	1
GenelD:67102	D16Ertd472e	16	78,540,336	78,576,688	36,352 -	1
GenelD:27393	Mrpl39	16	84,717,580	84,735,302	17,722 -	1
GenelD:67374	Jam2	16	84,774,123	84,826,380	52,257 +	2
GenelD:11957	Atp5j	16	84,827,871	84,835,574	7,703 -	1
GenelD:14390	Gabpa	16	84,835,124	84,863,779	28,655 +	1
GenelD:11820	App	16	84,954,436	85,173,707	219,271 -	1
GenelD:11504	Adamts1	16	85,793,827	85,803,115	9,288 -	1

GenelD:23794	Adamts5	16	85,858,157	85,901,125	42,968 -	2
GenelD:74112	Usp16	16	87,454,985	87,483,515	28,530 +	1
GenelD:12469	Cct8	16	87,483,325	87,495,869	12,544 -	1
GenelD:414095	B130034C11Rik	16	87,496,073	87,504,038	7,965 +	1
GenelD:12013	Bach1	16	87,698,954	87,733,346	34,392 +	1
GenelD:10003870	Gm10789	16	90,142,237	90,146,827	4,590 +	1
GenelD:20655	Sod1	16	90,220,742	90,226,324	5,582 +	1
GenelD:224432	Scaf4	16	90,229,139	90,284,425	55,286 -	2
GenelD:26559	Hunk	16	90,386,397	90,499,553	113,156 +	1
GenelD:207932	Urb1	16	90,751,527	90,810,413	58,886 -	1
GenelD:68001	1110004E09Rik	16	90,925,811	90,934,849	9,038 -	1
GenelD:104015	Synj1	16	90,936,097	91,011,308	75,211 -	2
GenelD:67394	4930404I05Rik	16	91,011,249	91,016,503	5,254 +	1
GenelD:67367	Paxbp1	16	91,014,037	91,044,379	30,342 -	1
GenelD:50913	Olig2	16	91,225,550	91,228,677	3,127 +	1
GenelD:15976	Ifnar2	16	91,372,783	91,405,587	32,804 +	2
GenelD:16155	Il10rb	16	91,406,235	91,425,834	19,599 +	1
GenelD:15980	Ifngr2	16	91,547,094	91,564,007	16,913 +	1
GenelD:77975	Tmem50b	16	91,574,508	91,597,680	23,172 -	1
GenelD:14450	Gart	16	91,621,395	91,646,972	25,577 -	1
GenelD:20658	Son	16	91,647,824	91,679,192	31,368 +	2
GenelD:60364	Donson	16	91,679,265	91,688,728	9,463 -	1
GenelD:10003839	Gm10785	16	91,688,898	91,715,755	26,857 +	1
GenelD:66609	Cryz1	16	91,689,322	91,728,802	39,480 -	1
GenelD:53881	Slc5a3	16	92,058,322	92,087,473	29,151 +	1
GenelD:121022	Mrps6	16	92,058,336	92,112,227	53,891 +	1
GenelD:54720	Rcan1	16	92,391,953	92,466,146	74,193 -	1
GenelD:12394	Runx1	16	92,601,466	92,826,066	224,600 -	1
GenelD:70028	Dopey2	16	93,711,907	93,810,588	98,681 +	1
GenelD:338467	Morc3	16	93,832,121	93,876,073	43,952 +	2
GenelD:110749	Chaf1b	16	93,883,901	93,906,106	22,205 +	1
GenelD:20465	Sim2	16	94,085,260	94,127,032	41,772 +	1
GenelD:56176	Pigp	16	94,358,763	94,371,015	12,252 -	1
GenelD:22129	Ttc3	16	94,370,739	94,469,221	98,482 +	1
GenelD:13548	Dyrk1a	16	94,570,206	94,695,519	125,313 +	2
GenelD:23872	Ets2	16	95,702,407	95,721,049	18,642 +	1
GenelD:93871	Brwd1	16	95,992,092	96,082,428	90,336 -	1
GenelD:74296	1700093J21Rik	16	96,082,676	96,089,070	6,394 +	1
GenelD:15312	Hmgn1	16	96,121,588	96,127,725	6,137 -	1
GenelD:71446	Wrb	16	96,145,419	96,157,852	12,433 +	1
GenelD:385668	Lca5l	16	96,158,406	96,192,257	33,851 -	2
GenelD:50795	Sh3bgr	16	96,200,470	96,228,933	28,463 +	1
GenelD:56175	Bace2	16	97,356,728	97,439,012	82,284 +	1
GenelD:114604	Prdm15	16	97,791,467	97,851,227	59,760 -	1
GenelD:207781	C2cd2	16	97,855,209	97,922,633	67,424 -	2
GenelD:624086	A230045G11Rik	17	3,113,293	3,114,829	1,536 -	2
GenelD:106583	Scaf8	17	3,114,972	3,198,859	83,887 +	2

GenelD:239985	Arid1b	17	4,995,074	5,347,656	352,582 +	1
GenelD:10105571	LOC101055715	17	5,490,232	5,493,226	2,994 -	1
GenelD:224454	Zdhhc14	17	5,492,600	5,753,891	261,291 +	1
GenelD:66616	Snx9	17	5,841,380	5,930,711	89,331 +	1
GenelD:20975	Synj2	17	5,941,280	6,044,290	103,010 +	1
GenelD:321007	Serac1	17	6,040,571	6,079,739	39,168 -	1
GenelD:66467	Gtf2h5	17	6,079,828	6,085,488	5,660 +	1
GenelD:22350	Ezr	17	6,738,131	6,782,780	44,649 -	1
GenelD:55951	Mpc1	17	8,283,813	8,297,661	13,848 +	1
GenelD:75060	4930506C21Rik	17	8,297,270	8,311,118	13,848 -	1
GenelD:106489	Sft2d1	17	8,311,103	8,327,442	16,339 +	1
GenelD:320111	Prr18	17	8,340,406	8,344,113	3,707 +	1
GenelD:19317	Qk	17	10,206,471	10,319,361	112,890 -	1
GenelD:10105570	LOC101055707	17	10,319,370	10,321,142	1,772 -	1
GenelD:10052679	B930003M22Rik	17	10,319,919	10,321,141	1,222 +	1
GenelD:76634	1700110C19Rik	17	10,324,602	10,329,312	4,710 +	1
GenelD:16004	Igf2r	17	12,682,406	12,769,706	87,300 -	1
GenelD:104103	Airn	17	12,741,311	12,859,884	118,573 +	1
GenelD:240023	Pnlcd1	17	12,888,902	12,910,000	21,098 -	1
GenelD:67681	Mrpl18	17	12,911,355	12,916,091	4,736 -	1
GenelD:21454	Tcp1	17	12,916,465	12,925,067	8,602 +	1
GenelD:10030374	Snora20	17	12,922,857	12,922,917	60 +	1
GenelD:224530	Acat3	17	12,923,959	12,940,396	16,437 -	1
GenelD:110460	Acat2	17	12,943,042	12,960,725	17,683 -	1
GenelD:10050268	Gm15946	17	12,960,963	12,963,193	2,230 +	1
GenelD:60532	Wtap	17	12,966,799	12,992,539	25,740 -	3
GenelD:20656	Sod2	17	13,007,839	13,018,119	10,280 +	1
GenelD:21646	Tcte2	17	13,716,436	13,761,394	44,958 -	2
GenelD:17356	Mllt4	17	13,760,541	13,905,794	145,253 +	2
GenelD:64074	Smoc2	17	14,279,506	14,404,790	125,284 +	1
GenelD:71682	Wdr27	17	14,818,672	14,943,124	124,452 -	1
GenelD:67912	1600012H06Rik	17	14,943,184	14,945,939	2,755 +	1
GenelD:72057	Phf10	17	14,944,994	14,961,260	16,266 -	1
GenelD:106740	LOC106740	17	14,947,736	14,948,823	1,087 -	1
GenelD:13388	Dll1	17	15,367,354	15,375,823	8,469 -	1
GenelD:19170	Psmb1	17	15,475,721	15,498,276	22,555 -	1
GenelD:21374	Tbp	17	15,499,888	15,517,427	17,539 +	2
GenelD:18567	Pdcd2	17	15,521,575	15,527,301	5,726 -	1
GenelD:76030	5830433I10Rik	17	15,704,434	15,705,263	829 -	1
GenelD:12648	Chd1	17	15,704,967	15,772,612	67,645 +	1
GenelD:68799	Rgmb	17	15,806,253	15,826,586	20,333 -	2
GenelD:240028	Lnpep	17	17,527,723	17,624,489	96,766 -	1
GenelD:381070	Casp16	17	23,551,073	23,555,981	4,908 -	1
GenelD:449521	Zfp213	17	23,556,767	23,564,226	7,459 -	1
GenelD:320309	1520401A03Rik	17	23,704,488	23,722,783	18,295 -	2
GenelD:268930	Pkmyt1	17	23,726,336	23,736,729	10,393 +	2
GenelD:76498	Paqr4	17	23,736,186	23,740,330	4,144 -	2

GenelD:73016	Kremen2	17	23,741,199	23,745,829	4,630 -	1
GenelD:638247	9530082P21Rik	17	23,749,236	23,754,065	4,829 +	1
GenelD:224613	Flywch1	17	23,755,423	23,771,591	16,168 -	1
GenelD:76917	Flywch2	17	23,776,918	23,786,077	9,159 -	1
GenelD:75956	Srrm2	17	23,803,187	23,824,741	21,554 +	1
GenelD:10062859	Mir5125	17	23,823,291	23,823,369	78 +	1
GenelD:67673	Tceb2	17	23,824,740	23,829,109	4,369 -	1
GenelD:353130	Prss33	17	23,833,360	23,835,767	2,407 -	1
GenelD:71003	Prss41	17	23,836,785	23,844,156	7,371 -	1
GenelD:69259	Kctd5	17	24,047,720	24,073,485	25,765 -	1
GenelD:18607	Pdpc1	17	24,073,680	24,141,594	67,914 -	2
GenelD:245847	Amdhd2	17	24,155,833	24,163,733	7,900 -	1
GenelD:11984	Atp6v0c	17	24,163,866	24,169,429	5,563 -	1
GenelD:224617	Tbc1d24	17	24,175,431	24,205,562	30,131 -	2
GenelD:18209	Ntn3	17	24,203,831	24,209,387	5,556 -	1
GenelD:72016	1600002H07Rik	17	24,215,054	24,220,769	5,715 -	1
GenelD:12449	Ccnf	17	24,223,232	24,251,409	28,177 -	1
GenelD:381072	Abca17	17	24,264,279	24,347,252	82,973 -	1
GenelD:27410	Abca3	17	24,352,046	24,410,201	58,155 +	2
GenelD:654822	D330041H03Rik	17	24,409,481	24,414,513	5,032 -	1
GenelD:19826	Rnps1	17	24,414,675	24,425,898	11,223 +	1
GenelD:67078	Pgp	17	24,470,473	24,471,602	1,129 +	1
GenelD:56716	Mlst8	17	24,473,550	24,479,078	5,528 -	2
GenelD:319259	Bricd5	17	24,473,884	24,475,469	1,585 +	1
GenelD:268932	Caskin1	17	24,488,783	24,508,909	20,126 +	1
GenelD:18763	Pkd1	17	24,549,950	24,596,514	46,564 +	1
GenelD:22084	Tsc2	17	24,595,937	24,632,629	36,692 -	1
GenelD:18207	Nthl1	17	24,632,682	24,638,838	6,156 +	1
GenelD:65962	Slc9a3r2	17	24,639,282	24,650,305	11,023 -	2
GenelD:381073	Npw	17	24,657,330	24,658,425	1,095 -	1
GenelD:213753	Zfp598	17	24,669,752	24,682,016	12,264 +	1
GenelD:20974	Syng3	17	24,685,092	24,689,949	4,857 -	1
GenelD:11692	Gfer	17	24,693,191	24,696,156	2,965 -	1
GenelD:71893	Noxo1	17	24,696,234	24,700,530	4,296 +	1
GenelD:213773	Tbl3	17	24,700,653	24,707,653	7,000 -	1
GenelD:67504	Rnf151	17	24,715,839	24,718,057	2,218 -	1
GenelD:73474	Snhg9	17	24,719,531	24,719,965	434 -	1
GenelD:10030695	Snora78	17	24,719,676	24,719,832	156 -	1
GenelD:16898	Rps2	17	24,720,063	24,721,927	1,864 +	1
GenelD:104366	Snora64	17	24,720,789	24,720,905	116 +	1
GenelD:68342	Ndufb10	17	24,722,067	24,724,388	2,321 -	1
GenelD:66211	Rpl3l	17	24,727,829	24,736,149	8,320 +	1
GenelD:16005	Igfals	17	24,878,770	24,882,008	3,238 +	1
GenelD:26426	Nubp2	17	24,882,611	24,886,350	3,739 -	2
GenelD:79043	Spsb3	17	24,886,674	24,892,147	5,473 +	2
GenelD:193838	Eme2	17	24,892,152	24,895,087	2,935 -	2
GenelD:79044	Mrps34	17	24,895,120	24,896,274	1,154 +	2

GenelD:79059	Nme3	17	24,896,500	24,897,531	1,031 +	2
GenelD:30957	Mapk8ip3	17	24,897,506	24,936,977	39,471 -	1
GenelD:52009	Hn1l	17	24,942,470	24,960,623	18,153 -	1
GenelD:57354	Cramp1l	17	24,961,226	25,015,230	54,004 -	3
GenelD:106633	Ift140	17	25,016,086	25,099,499	83,413 +	2
GenelD:68509	Ptx4	17	25,120,760	25,125,268	4,508 +	1
GenelD:26373	Clcn7	17	25,133,394	25,162,099	28,705 +	1
GenelD:214489	BC003965	17	25,184,561	25,187,662	3,101 +	1
GenelD:74154	Unkl	17	25,188,400	25,234,442	46,042 +	2
GenelD:214505	Gnptg	17	25,234,317	25,240,116	5,799 -	1
GenelD:68327	Tsr3	17	25,240,170	25,242,799	2,629 +	1
GenelD:545192	Baiap3	17	25,242,659	25,256,364	13,705 -	1
GenelD:22196	Ube2i	17	25,260,511	25,274,310	13,799 -	1
GenelD:10027222	Gm17801	17	25,274,124	25,275,528	1,404 +	1
GenelD:58226	Cacna1h	17	25,374,287	25,433,783	59,496 -	1
GenelD:20681	Sox8	17	25,565,893	25,570,686	4,793 -	1
GenelD:72834	2810468N07Rik	17	25,570,811	25,575,043	4,232 +	1
GenelD:76483	Lmf1	17	25,579,174	25,662,826	83,652 +	1
GenelD:214931	Fbxl16	17	25,809,085	25,821,265	12,180 +	3
GenelD:268933	Wdr24	17	25,823,627	25,828,730	5,103 +	3
GenelD:72106	Jmjd8	17	25,829,043	25,831,843	2,800 +	4
GenelD:56424	Stub1	17	25,830,636	25,833,361	2,725 -	4
GenelD:214951	Rhbdl1	17	25,834,465	25,837,127	2,662 -	5
GenelD:214952	Rhot2	17	25,838,838	25,844,851	6,013 -	5
GenelD:106618	Wdr90	17	25,844,734	25,861,515	16,781 -	5
GenelD:68241	Fam195a	17	25,863,698	25,868,738	5,040 -	3
GenelD:68347	0610011F06Rik	17	25,875,500	25,877,163	1,663 +	2
GenelD:215001	Wfikkn1	17	25,877,628	25,880,858	3,230 -	2
GenelD:224624	Rab40c	17	25,882,114	25,919,714	37,600 -	2
GenelD:14755	Pigq	17	25,926,424	25,941,962	15,538 -	1
GenelD:69431	1700022N22Rik	17	25,985,815	25,988,572	2,757 +	1
GenelD:215445	Rab11fip3	17	25,989,036	26,069,177	80,141 -	2
GenelD:26378	Decr2	17	26,081,211	26,090,164	8,953 -	1
GenelD:56520	Nme4	17	26,091,745	26,095,470	3,725 -	1
GenelD:666609	Gm8186	17	26,098,872	26,099,257	385 -	1
GenelD:106581	Iftg3	17	26,212,692	26,244,242	31,550 -	2
GenelD:66978	Luc7l	17	26,252,910	26,285,506	32,596 +	2
GenelD:240055	Neurl1b	17	26,414,965	26,446,349	31,384 +	2
GenelD:19252	Dusp1	17	26,505,591	26,508,472	2,881 -	1
GenelD:67458	Ergic1	17	26,561,512	26,656,934	95,422 +	1
GenelD:11974	Atp6v0e	17	26,676,396	26,699,647	23,251 +	1
GenelD:77128	Crebrf	17	26,715,650	26,776,628	60,978 +	1
GenelD:18091	Nkx2-5	17	26,838,665	26,841,565	2,900 -	1
GenelD:16580	Kifc5b	17	26,917,091	26,932,579	15,488 +	1
GenelD:21652	Phf1	17	26,933,127	26,937,890	4,763 +	1
GenelD:67675	Cuta	17	26,937,972	26,939,478	1,506 -	1
GenelD:240057	Syngap1	17	26,941,452	26,970,645	29,193 +	2

GenelD:474156	Zbtb9	17	26,973,179	26,976,203	3,024 +	1
GenelD:268934	Grm4	17	27,422,387	27,503,304	80,917 -	1
GenelD:15361	Hmga1	17	27,556,574	27,563,672	7,098 +	3
GenelD:106672	Al413582	17	27,563,769	27,565,727	1,958 -	3
GenelD:56409	Nudt3	17	27,579,391	27,623,452	44,061 -	1
GenelD:67097	Rps10	17	27,630,429	27,635,242	4,813 -	2
GenelD:224647	D17Wsu92e	17	27,751,235	27,820,542	69,307 -	1
GenelD:20630	Snrpc	17	27,840,087	27,851,968	11,881 +	1
GenelD:224648	Uhrf1bp1	17	27,856,507	27,900,040	43,533 +	2
GenelD:68776	Taf11	17	27,901,128	27,907,724	6,596 -	1
GenelD:224650	Anks1	17	27,909,340	28,062,637	153,297 +	1
GenelD:268935	Scube3	17	28,142,526	28,171,345	28,819 +	1
GenelD:10050418	C230013L11Rik	17	28,174,178	28,177,105	2,927 -	1
GenelD:224656	Zfp523	17	28,177,418	28,205,886	28,468 +	1
GenelD:72775	Fance	17	28,313,530	28,326,574	13,044 +	2
GenelD:19896	Rpl10a	17	28,328,471	28,331,033	2,562 +	2
GenelD:21678	Tead3	17	28,331,671	28,350,805	19,134 -	4
GenelD:22157	Tulp1	17	28,351,519	28,365,143	13,624 -	2
GenelD:14229	Fkbp5	17	28,399,095	28,486,112	87,017 -	1
GenelD:10086228	LOC100862287	17	28,497,335	28,517,524	20,189 -	1
GenelD:320187	E230001N04Rik	17	28,523,281	28,525,370	2,089 +	1
GenelD:67645	Armc12	17	28,530,861	28,538,975	8,114 +	1
GenelD:20815	Srpk1	17	28,589,592	28,622,454	32,862 -	1
GenelD:224661	Slc26a8	17	28,636,992	28,689,987	52,995 -	1
GenelD:26416	Mapk14	17	28,691,342	28,748,405	57,063 +	1
GenelD:268936	Brpf3	17	28,801,126	28,838,789	37,663 +	2
GenelD:69307	Pxt1	17	28,933,986	28,942,262	8,276 -	1
GenelD:66989	Kctd20	17	28,953,216	28,967,937	14,721 +	1
GenelD:106504	Stk38	17	28,970,885	29,007,937	37,052 -	1
GenelD:20383	Srsf3	17	29,032,660	29,043,372	10,712 +	1
GenelD:12575	Cdkn1a	17	29,090,986	29,100,722	9,736 +	1
GenelD:240058	Cpne5	17	29,156,521	29,237,790	81,269 -	1
GenelD:68816	Ppil1	17	29,250,835	29,263,971	13,136 -	1
GenelD:80748	BC004004	17	29,268,788	29,302,887	34,099 +	1
GenelD:18712	Pim1	17	29,491,045	29,495,465	4,420 +	1
GenelD:71138	Tmem217	17	29,526,009	29,549,593	23,584 -	1
GenelD:381085	Tbc1d22b	17	29,549,802	29,606,808	57,006 +	2
GenelD:58230	Rnf8	17	29,614,831	29,641,659	26,828 +	1
GenelD:10050430	Gm20161	17	29,652,231	29,658,313	6,082 -	1
GenelD:74157	Ftsjd2	17	29,660,601	29,703,359	42,758 +	1
GenelD:74762	Mdga1	17	29,827,958	29,887,882	59,924 -	1
GenelD:21769	Zfand3	17	30,005,087	30,210,020	204,933 +	1
GenelD:224674	Slc37a1	17	31,295,483	31,350,709	55,226 +	1
GenelD:18585	Pde9a	17	31,386,234	31,476,309	90,075 +	1
GenelD:57773	Wdr4	17	31,494,322	31,512,487	18,165 -	1
GenelD:78330	Ndufv3	17	31,520,115	31,531,326	11,211 +	1
GenelD:18771	Pknnox1	17	31,564,773	31,607,693	42,920 +	1

GenelD:12411	Cbs	17	31,612,644	31,637,141	24,497 -	1
GenelD:108121	U2af1	17	31,647,082	31,658,754	11,672 -	1
GenelD:17691	Sik1	17	31,844,250	31,855,792	11,542 -	1
GenelD:74377	Hsf2bp	17	31,944,769	32,034,508	89,739 -	1
GenelD:72462	Rrp1b	17	32,036,162	32,062,862	26,700 +	1
GenelD:18131	Notch3	17	32,120,893	32,166,852	45,959 -	1
GenelD:71932	Ephx3	17	32,183,770	32,189,463	5,693 -	1
GenelD:57261	Brd4	17	32,196,274	32,284,123	87,849 -	2
GenelD:56399	Akap8	17	32,303,676	32,321,153	17,477 -	1
GenelD:54194	Akap8l	17	32,321,424	32,350,577	29,153 -	1
GenelD:320997	Cyp4f39	17	32,452,723	32,493,320	40,597 +	1
GenelD:240064	Zfp799	17	32,817,204	32,830,248	13,044 -	1
GenelD:224691	Zfp472	17	32,965,831	32,979,211	13,380 +	1
GenelD:22643	Zfp101	17	33,380,179	33,394,637	14,458 -	1
GenelD:76936	Hnrnpm	17	33,646,233	33,685,458	39,225 -	1
GenelD:224703	March2	17	33,685,692	33,718,677	32,985 -	2
GenelD:57875	Angptl4	17	33,774,900	33,781,575	6,675 -	1
GenelD:80880	Kank3	17	33,810,523	33,822,914	12,391 +	1
GenelD:54127	Rps28	17	33,823,036	33,824,498	1,462 -	1
GenelD:66416	Ndufa7	17	33,824,614	33,838,313	13,699 +	1
GenelD:10050276	Kifc1	17	33,875,666	33,890,633	14,967 -	1
GenelD:474160	BC033916	17	33,905,135	33,906,675	1,540 +	1
GenelD:407803	BC051226	17	33,908,182	33,909,178	996 -	2
GenelD:13163	Daxx	17	33,909,445	33,915,590	6,145 +	3
GenelD:81630	Zbtb22	17	33,916,176	33,919,325	3,149 +	4
GenelD:10050284	Gm19412	17	33,919,279	33,920,485	1,206 -	4
GenelD:21356	Tapbp	17	33,919,478	33,929,290	9,812 +	5
GenelD:19732	Rgl2	17	33,929,894	33,937,687	7,793 +	4
GenelD:14976	H2-Ke2	17	33,938,909	33,940,343	1,434 -	3
GenelD:57315	Wdr46	17	33,940,723	33,949,695	8,972 +	3
GenelD:54218	B3galt4	17	33,949,912	33,951,488	1,576 -	2
GenelD:20084	Rps18	17	33,951,999	33,955,641	3,642 -	1
GenelD:224705	Vps52	17	33,955,882	33,966,488	10,606 +	1
GenelD:14972	H2-K1	17	33,996,012	34,000,333	4,321 -	1
GenelD:19763	Ring1	17	34,020,792	34,024,680	3,888 -	3
GenelD:723823	Mir219-1	17	34,024,983	34,025,092	109 -	3
GenelD:14979	H2-Ke6	17	34,026,033	34,028,055	2,022 -	3
GenelD:14977	Slc39a7	17	34,028,266	34,031,690	3,424 -	3
GenelD:20182	Rxb	17	34,031,812	34,038,403	6,591 +	3
GenelD:12815	Col11a2	17	34,039,437	34,066,242	26,805 +	1
GenelD:10050291	Gm19450	17	34,099,929	34,109,826	9,897 +	1
GenelD:14312	Brd2	17	34,112,019	34,122,607	10,588 -	1
GenelD:18132	Notch4	17	34,564,295	34,588,543	24,248 +	1
GenelD:106512	Gpsm3	17	34,589,806	34,591,754	1,948 +	1
GenelD:18515	Pbx2	17	34,592,471	34,597,341	4,870 +	1
GenelD:11596	Ager	17	34,597,862	34,600,932	3,070 +	1
GenelD:54397	Ppt2	17	34,616,662	34,627,097	10,435 -	1

GenelD:260297	Prprt1	17	34,629,686	34,632,260	2,574 +	1
GenelD:81877	Tnxb	17	34,670,535	34,719,815	49,280 +	1
GenelD:54402	Stk19	17	34,823,993	34,836,903	12,910 -	1
GenelD:112403	Dom3z	17	34,837,019	34,839,186	2,167 +	1
GenelD:108077	Skiv2l	17	34,839,226	34,850,204	10,978 -	2
GenelD:27632	Nelfe	17	34,850,391	34,856,372	5,981 +	1
GenelD:14962	Cfb	17	34,856,374	34,862,514	6,140 -	1
GenelD:193736	Zbtb12	17	34,894,559	34,896,844	2,285 +	2
GenelD:110147	Ehmt2	17	34,898,499	34,914,047	15,548 +	2
GenelD:68763	1110038B12Rik	17	34,950,235	34,952,471	2,236 -	1
GenelD:10021742	Snord52	17	34,950,950	34,951,008	58 -	1
GenelD:15511	Hspa1b	17	34,956,429	34,959,238	2,809 -	1
GenelD:193740	Hspa1a	17	34,969,359	34,972,156	2,797 -	1
GenelD:15482	Hspa1l	17	34,972,703	34,979,228	6,525 +	1
GenelD:10105581	LOC101055816	17	34,976,899	34,981,788	4,889 -	1
GenelD:27756	Lsm2	17	34,981,854	34,985,891	4,037 +	1
GenelD:22321	Vars	17	35,000,907	35,016,329	15,422 +	1
GenelD:114652	Ly6g5c	17	35,108,300	35,111,953	3,653 +	1
GenelD:266614	Ly6g5b	17	35,113,944	35,115,400	1,456 -	1
GenelD:13001	Csnk2b	17	35,116,195	35,121,447	5,252 -	2
GenelD:81845	Gpank1	17	35,121,496	35,124,815	3,319 +	2
GenelD:114585	D17H6S53E	17	35,126,402	35,128,855	2,453 +	3
GenelD:55938	Apom	17	35,128,997	35,131,752	2,755 -	3
GenelD:224727	Bag6	17	35,135,178	35,147,322	12,144 +	3
GenelD:53761	Prrc2a	17	35,149,076	35,164,877	15,801 -	3
GenelD:11629	Aif1	17	35,170,992	35,176,001	5,009 -	2
GenelD:16988	Lst1	17	35,185,095	35,188,440	3,345 -	1
GenelD:16994	Ltb	17	35,194,507	35,196,305	1,798 +	1
GenelD:21926	Tnf	17	35,199,390	35,201,996	2,606 -	1
GenelD:16992	Lta	17	35,203,165	35,205,351	2,186 -	1
GenelD:18038	Nfkbil1	17	35,220,175	35,235,815	15,640 -	2
GenelD:66237	Atp6v1g2	17	35,236,596	35,238,767	2,171 +	2
GenelD:53817	Ddx39b	17	35,241,746	35,253,707	11,961 +	3
GenelD:14964	H2-D1	17	35,263,094	35,267,497	4,403 +	1
GenelD:110557	H2-Q6	17	35,424,877	35,428,361	3,484 +	1
GenelD:68915	Vars2	17	35,655,634	35,667,592	11,958 -	1
GenelD:14885	Gtf2h4	17	35,667,739	35,673,682	5,943 -	1
GenelD:12305	Ddr1	17	35,681,567	35,704,139	22,572 -	1
GenelD:14251	Flot1	17	35,823,357	35,832,787	9,430 +	2
GenelD:22154	Tubb5	17	35,833,920	35,838,301	4,381 -	2
GenelD:240087	Mdc1	17	35,841,498	35,859,670	18,172 +	3
GenelD:10050335	5530401N12Rik	17	35,859,653	35,866,886	7,233 -	1
GenelD:106582	Nrm	17	35,861,318	35,865,400	4,082 +	1
GenelD:76448	Ppp1r18	17	35,865,595	35,875,596	10,001 +	2
GenelD:69192	Dhx16	17	35,879,778	35,892,670	12,892 +	2
GenelD:69662	2310061I04Rik	17	35,892,677	35,897,378	4,701 -	1
GenelD:73242	Atat1	17	35,897,595	35,910,068	12,473 -	1

GenelD:224742	Abcf1	17	35,956,819	35,969,750	12,931 -	2
GenelD:10012445	Mir877	17	35,960,730	35,960,814	84 -	1
GenelD:75210	Prr3	17	35,972,539	35,979,825	7,286 -	2
GenelD:14670	Gnl1	17	35,979,955	35,989,462	9,507 +	2
GenelD:79263	Trim39	17	36,258,873	36,272,004	13,131 -	1
GenelD:54393	Gabbr1	17	37,045,966	37,074,305	28,339 +	1
GenelD:12488	Cd2ap	17	42,792,951	42,876,424	83,473 -	1
GenelD:94185	Tnfrsf21	17	43,016,555	43,089,188	72,633 +	1
GenelD:210510	Tdrd6	17	43,615,335	43,630,299	14,964 -	1
GenelD:74011	Slc25a27	17	43,641,900	43,667,015	25,115 -	1
GenelD:56050	Cyp39a1	17	43,667,425	43,751,431	84,006 +	1
GenelD:12393	Runx2	17	44,604,001	44,814,797	210,796 -	2
GenelD:109115	Supt3	17	44,777,171	45,119,284	342,113 +	1
GenelD:71702	Cdc5l	17	45,391,887	45,433,707	41,820 -	1
GenelD:21645	Tcte1	17	45,523,434	45,542,679	19,245 +	1
GenelD:210573	Tmem151b	17	45,541,940	45,549,677	7,737 -	1
GenelD:18037	Nfkbie	17	45,555,716	45,563,169	7,453 +	3
GenelD:73836	Slc35b2	17	45,564,152	45,567,669	3,517 +	2
GenelD:15516	Hsp90ab1	17	45,567,778	45,573,261	5,483 -	2
GenelD:63959	Slc29a1	17	45,585,200	45,599,603	14,403 -	1
GenelD:653016	Gm7325	17	45,600,967	45,602,102	1,135 -	1
GenelD:224807	Tmem63b	17	45,660,177	45,686,218	26,041 -	1
GenelD:10003860	E030047D23Rik	17	45,682,592	45,685,646	3,054 -	1
GenelD:68463	Mrpl14	17	45,686,372	45,698,495	12,123 +	1
GenelD:22339	Vegfa	17	46,016,993	46,032,377	15,384 -	1
GenelD:80905	Polh	17	46,171,993	46,202,625	30,632 -	1
GenelD:72322	Xpo5	17	46,202,855	46,242,299	39,444 +	2
GenelD:20016	Polr1c	17	46,243,920	46,248,045	4,125 -	2
GenelD:28064	Yipf3	17	46,248,080	46,252,537	4,457 +	2
GenelD:224813	Lrrc73	17	46,254,165	46,257,316	3,151 +	2
GenelD:74094	Tjap1	17	46,257,851	46,283,026	25,175 -	2
GenelD:106565	Dlk2	17	46,297,421	46,303,271	5,850 +	1
GenelD:224814	Abcc10	17	46,303,230	46,328,023	24,793 -	1
GenelD:78309	Cul9	17	46,500,609	46,546,388	45,779 -	2
GenelD:20807	Srf	17	46,546,839	46,556,162	9,323 -	2
GenelD:71461	Ptk7	17	46,564,451	46,629,504	65,053 -	2
GenelD:74764	Klc4	17	46,630,631	46,645,144	14,513 -	3
GenelD:27398	Mrpl2	17	46,646,248	46,650,132	3,884 +	2
GenelD:66515	Cul7	17	46,650,338	46,664,364	14,026 +	2
GenelD:21770	Ppp2r5d	17	46,682,991	46,705,002	22,011 -	1
GenelD:224824	Pex6	17	46,711,463	46,725,541	14,078 +	1
GenelD:19208	Ptcra	17	46,755,663	46,763,712	8,049 -	1
GenelD:67101	2310039H08Rik	17	46,772,635	46,773,407	772 +	1
GenelD:66229	Rpl7l1	17	46,773,907	46,782,656	8,749 -	1
GenelD:442840	A330017A19Rik	17	46,888,999	46,890,399	1,400 -	2
GenelD:72726	Tbcc	17	46,890,621	46,892,463	1,842 +	2
GenelD:224826	Ubr2	17	46,928,291	47,010,532	82,241 -	1

GenelD:224829	Trerf1	17	47,140,942	47,359,458	218,516 +	1
GenelD:12445	Ccnd3	17	47,505,051	47,599,689	94,638 +	1
GenelD:53414	Bysl	17	47,599,331	47,611,492	12,161 -	2
GenelD:56771	Med20	17	47,611,596	47,624,418	12,822 +	1
GenelD:224836	Usp49	17	47,630,690	47,684,067	53,377 +	2
GenelD:66119	Tomm6	17	47,686,645	47,688,386	1,741 -	1
GenelD:10041578	Gm14872	17	47,687,610	47,691,092	3,482 +	1
GenelD:381104	Prickle4	17	47,688,468	47,695,658	7,190 -	1
GenelD:107971	Frs3	17	47,695,207	47,704,286	9,079 +	1
GenelD:109820	Pgc	17	47,726,842	47,734,478	7,636 +	2
GenelD:21425	Tfeb	17	47,737,037	47,792,416	55,379 +	2
GenelD:17240	Mdfi	17	47,815,332	47,834,691	19,359 -	1
GenelD:74123	Foxp4	17	47,867,133	47,924,632	57,499 -	2
GenelD:18044	Nfya	17	48,386,885	48,409,820	22,935 -	1
GenelD:106821	Oard1	17	48,410,080	48,417,266	7,186 +	1
GenelD:11811	Apobec2	17	48,419,231	48,432,728	13,497 -	1
GenelD:76438	Rftn1	17	49,993,307	50,190,497	197,190 -	1
GenelD:13164	Dazl	17	50,279,394	50,293,599	14,205 -	1
GenelD:224860	Plcl2	17	50,509,547	50,688,494	178,947 +	2
GenelD:72238	Tbc1d5	17	50,733,127	51,179,349	446,222 -	1
GenelD:271457	Rab5a	17	53,479,234	53,507,678	28,444 +	1
GenelD:18519	Kat2b	17	53,566,971	53,672,721	105,750 +	1
GenelD:106766	Stap2	17	55,997,077	56,005,568	8,491 -	1
GenelD:68047	Mpnd	17	56,009,201	56,016,790	7,589 +	1
GenelD:20405	Sh3gl1	17	56,016,750	56,036,637	19,887 -	3
GenelD:27221	Chaf1a	17	56,040,416	56,068,026	27,610 +	2
GenelD:66530	Ubxn6	17	56,068,253	56,074,989	6,736 -	1
GenelD:15193	Hdgrfp2	17	56,079,657	56,100,596	20,939 +	1
GenelD:66968	Plin5	17	56,111,601	56,117,548	5,947 -	1
GenelD:76905	Lrg1	17	56,119,678	56,121,946	2,268 -	1
GenelD:20359	Sema6b	17	56,123,085	56,140,343	17,258 -	1
GenelD:14154	Fem1a	17	56,256,793	56,263,608	6,815 +	1
GenelD:76920	Arrdc5	17	56,294,111	56,300,286	6,175 -	1
GenelD:18140	Uhrf1	17	56,303,337	56,323,486	20,149 +	1
GenelD:19280	Ptprs	17	56,412,426	56,476,480	64,054 -	4
GenelD:668592	Gm9258	17	56,475,357	56,476,279	922 -	1
GenelD:224902	Safb2	17	56,562,942	56,584,583	21,641 -	1
GenelD:224903	Safb	17	56,584,982	56,606,294	21,312 +	2
GenelD:224904	2410015M20Rik	17	56,607,452	56,609,771	2,319 -	1
GenelD:54217	Rpl36	17	56,613,395	56,614,246	851 +	1
GenelD:74142	Lonp1	17	56,614,297	56,626,903	12,606 -	2
GenelD:106757	Catsperd	17	56,628,143	56,664,456	36,313 +	1
GenelD:71810	Ranbp3	17	56,673,225	56,711,769	38,544 +	1
GenelD:106639	Vmac	17	56,713,932	56,717,699	3,767 -	1
GenelD:69875	Ndufa11	17	56,717,762	56,724,248	6,486 +	1
GenelD:18188	Nrtn	17	56,751,325	56,757,530	6,205 -	2
GenelD:224907	Dus3l	17	56,764,751	56,770,093	5,342 +	1

GenelD:64144	Mllt1	17	56,892,611	56,935,388	42,777 -	1
GenelD:13640	Efna5	17	62,602,957	62,881,317	278,360 -	2
GenelD:50758	Fbxl17	17	63,045,949	63,500,580	454,631 -	1
GenelD:320004	A930002H24Rik	17	63,862,068	63,867,181	5,113 -	1
GenelD:224938	Pja2	17	64,281,006	64,331,883	50,877 -	1
GenelD:17158	Man2a1	17	64,601,649	64,755,110	153,461 +	1
GenelD:30960	Vapa	17	65,580,053	65,613,555	33,502 -	2
GenelD:106572	Rab31	17	65,651,726	65,772,752	121,026 -	2
GenelD:70351	Ppp4r1	17	65,783,355	65,841,926	58,571 +	2
GenelD:19765	Ralbp1	17	65,848,415	65,885,755	37,340 -	1
GenelD:65960	Twsg1	17	65,923,065	65,951,187	28,122 -	1
GenelD:106585	Ankrd12	17	65,967,501	66,077,046	109,545 -	1
GenelD:71331	5430411C19Rik	17	66,076,639	66,077,968	1,329 +	1
GenelD:72900	Ndufv2	17	66,078,795	66,101,491	22,696 -	3
GenelD:68767	Wash	17	66,111,546	66,120,503	8,957 +	2
GenelD:68617	Soga2	17	66,336,982	66,449,750	112,768 -	1
GenelD:19328	Rab12	17	66,494,512	66,519,670	25,158 -	1
GenelD:19274	Ptpm	17	66,666,848	67,354,459	687,611 -	1
GenelD:16772	Lama1	17	67,697,265	67,822,645	125,380 +	1
GenelD:622645	Tmem200c	17	68,837,136	68,843,138	6,002 +	1
GenelD:13823	Epb4.1l3	17	69,156,810	69,289,989	133,179 +	1
GenelD:77533	C030034I22Rik	17	69,416,447	69,419,193	2,746 +	1
GenelD:21815	Tgif1	17	70,844,205	70,853,532	9,327 -	2
GenelD:10031667	Mir1195	17	70,860,478	70,860,600	122 -	2
GenelD:67938	Myl12b	17	70,973,963	70,990,516	16,553 -	1
GenelD:67268	Myl12a	17	70,993,793	71,002,533	8,740 -	2
GenelD:74355	Smchd1	17	71,344,489	71,475,343	130,854 -	1
GenelD:67052	Ndc80	17	71,496,100	71,526,857	30,757 -	1
GenelD:70891	Spdya	17	71,552,061	71,589,533	37,472 +	1
GenelD:68789	Trmt61b	17	71,557,027	71,598,761	41,734 -	1
GenelD:72515	Wdr43	17	71,616,215	71,659,031	42,816 +	1
GenelD:11682	Alk	17	71,868,988	72,604,307	735,319 -	1
GenelD:383295	Ypel5	17	72,836,704	72,851,195	14,491 +	1
GenelD:77889	Lbh	17	72,918,305	72,941,946	23,641 +	1
GenelD:225010	Lclat1	17	73,107,985	73,243,368	135,383 +	1
GenelD:76890	Memo1	17	74,200,700	74,294,863	94,163 -	1
GenelD:66310	Dpy30	17	74,299,474	74,323,944	24,470 -	2
GenelD:50850	Spast	17	74,338,987	74,391,113	52,126 +	1
GenelD:67864	Yipf4	17	74,489,493	74,500,277	10,784 +	1
GenelD:12211	Birc6	17	74,528,295	74,703,773	175,478 +	1
GenelD:268977	Ltbp1	17	75,005,529	75,392,967	387,438 +	1
GenelD:50766	Crim1	17	78,200,248	78,376,592	176,344 +	1
GenelD:268980	Strn	17	78,653,964	78,736,560	82,596 -	1
GenelD:260409	Cdc42ep3	17	79,334,025	79,355,091	21,066 -	1
GenelD:10105564	LOC101055649	17	79,578,593	79,612,476	33,883 +	1
GenelD:381110	Rmdn2	17	79,614,900	79,682,152	67,252 +	1
GenelD:13078	Cyp1b1	17	79,706,953	79,715,041	8,088 -	1

GenelD:56298	Atl2	17	79,848,392	79,896,123	47,731 -	2
GenelD:72692	Hnrpll	17	80,029,487	80,062,334	32,847 -	1
GenelD:225027	Srsf7	17	80,200,080	80,207,305	7,225 -	1
GenelD:67737	Ttc39d	17	80,215,914	80,217,936	2,022 +	1
GenelD:381112	Arhgef33	17	80,307,407	80,388,689	81,282 +	1
GenelD:791338	Gm10190	17	80,371,857	80,373,542	1,685 -	1
GenelD:20662	Sos1	17	80,393,752	80,480,453	86,701 -	2
GenelD:225028	Map4k3	17	80,580,512	80,728,093	147,581 -	1
GenelD:72167	Thumpd2	17	81,026,327	81,065,085	38,758 -	1
GenelD:106522	Pkdcc	17	83,215,283	83,225,069	9,786 +	1
GenelD:225030	Kcng3	17	83,585,957	83,631,895	45,938 -	1
GenelD:12193	Zfp36l2	17	84,183,924	84,187,947	4,023 -	2
GenelD:240174	Thada	17	84,190,056	84,466,208	276,152 -	2
GenelD:72416	Lrpprc	17	84,705,247	84,790,786	85,539 -	1
GenelD:213760	Prepl	17	85,063,477	85,090,274	26,797 -	1
GenelD:73582	Camkmt	17	85,090,700	85,458,580	367,880 +	1
GenelD:10004390	Six3os1	17	85,601,932	85,618,396	16,464 -	2
GenelD:20473	Six3	17	85,620,834	85,626,191	5,357 +	2
GenelD:20472	Six2	17	85,684,268	85,688,254	3,986 -	1
GenelD:78586	Srbd1	17	85,984,665	86,145,175	160,510 -	1
GenelD:545228	Gm5817	17	86,165,461	86,168,023	2,562 -	1
GenelD:18754	Prkce	17	86,167,785	86,657,919	490,134 +	1
GenelD:13819	Epas1	17	86,753,864	86,833,410	79,546 +	1
GenelD:56468	Socs5	17	87,107,679	87,137,585	29,906 +	1
GenelD:193813	Mcf2	17	87,254,443	87,265,947	11,504 -	1
GenelD:74597	4833418N02Rik	17	87,274,886	87,282,814	7,928 -	2
GenelD:225049	Ttc7	17	87,282,886	87,381,770	98,884 +	1
GenelD:12314	Calm2	17	87,433,401	87,446,935	13,534 -	1
GenelD:210741	Kcnk12	17	87,745,821	87,797,994	52,173 -	2
GenelD:10105563	LOC101055631	17	87,968,658	87,974,955	6,297 -	1
GenelD:17688	Msh6	17	87,975,050	87,990,892	15,842 +	1
GenelD:225055	Fbxo11	17	87,990,859	88,065,285	74,426 -	2
GenelD:14236	Foxn2	17	88,440,712	88,490,533	49,821 +	1
GenelD:18189	Nrxn1	17	90,033,644	91,092,802	1,059,158 -	1
GenelD:12916	Crem	18	3,266,354	3,337,589	71,235 -	1
GenelD:633947	Gm6225	18	3,336,416	3,366,863	30,447 +	1
GenelD:71745	Cul2	18	3,383,225	3,436,700	53,475 +	1
GenelD:68010	Bambi	18	3,507,957	3,516,404	8,447 +	1
GenelD:73915	4833419F23Rik	18	4,353,547	4,368,945	15,398 +	1
GenelD:67440	Mtpap	18	4,375,592	4,397,330	21,738 +	1
GenelD:240185	9430020K01Rik	18	4,634,929	4,682,869	47,940 +	1
GenelD:240186	Zfp438	18	5,210,031	5,334,439	124,408 -	1
GenelD:791318	Gm10125	18	5,491,501	5,592,437	100,936 -	2
GenelD:21417	Zeb1	18	5,591,860	5,775,468	183,608 +	2
GenelD:75415	Arhgap12	18	6,024,448	6,136,098	111,650 -	1
GenelD:16573	Kif5b	18	6,201,005	6,241,524	40,519 -	1
GenelD:13831	Epc1	18	6,435,951	6,516,087	80,136 -	2

GenelD:10031677	Mir1893	18	6,490,564	6,490,646	82 -	1
GenelD:210719	Mkx	18	6,934,966	7,004,779	69,813 -	1
GenelD:225131	Wac	18	7,868,858	7,929,027	60,169 +	2
GenelD:14370	Fzd8	18	9,212,856	9,216,201	3,345 +	1
GenelD:67974	Ccny	18	9,314,044	9,450,150	136,106 -	1
GenelD:225160	Thoc1	18	9,958,180	9,995,484	37,304 +	1
GenelD:19877	Rock1	18	10,064,401	10,181,792	117,391 -	1
GenelD:381157	Greb1l	18	10,325,179	10,562,941	237,762 +	1
GenelD:77805	Esco1	18	10,566,512	10,610,352	43,840 -	1
GenelD:20641	Snrpd1	18	10,617,796	10,628,230	10,434 +	1
GenelD:106861	Abhd3	18	10,644,411	10,706,696	62,285 -	1
GenelD:75370	4930563E18Rik	18	10,706,860	10,711,832	4,972 +	1
GenelD:68434	1010001N08Rik	18	11,049,087	11,051,481	2,394 -	1
GenelD:14465	Gata6	18	11,052,510	11,085,635	33,125 +	1
GenelD:225182	Rbbp8	18	11,633,276	11,743,207	109,931 +	1
GenelD:621998	Gm6277	18	11,821,088	11,839,377	18,289 -	1
GenelD:63955	Cables1	18	11,839,274	11,945,627	106,353 +	1
GenelD:10031668	Mir1901	18	11,840,361	11,840,438	77 -	1
GenelD:18145	Npc1	18	12,189,694	12,236,386	46,692 -	1
GenelD:72747	Ttc39c	18	12,643,533	12,737,052	93,519 +	1
GenelD:64291	Osbp1a	18	12,755,312	12,941,841	186,529 -	1
GenelD:268996	Ss18	18	14,625,629	14,682,914	57,285 -	1
GenelD:72504	Taf4b	18	14,783,245	14,900,359	117,114 +	1
GenelD:106931	Kctd1	18	14,968,685	15,151,446	182,761 -	2
GenelD:12558	Cdh2	18	16,588,877	16,809,049	220,172 -	2
GenelD:328906	Gm15328	18	16,816,407	16,822,783	6,376 +	2
GenelD:75964	Trappc8	18	20,817,224	20,896,078	78,854 -	1
GenelD:56515	Rnf138	18	21,001,341	21,028,223	26,882 +	1
GenelD:381126	Garem	18	21,127,342	21,300,139	172,797 -	1
GenelD:211961	Asxl3	18	22,345,089	22,530,227	185,138 +	1
GenelD:69256	Zfp397	18	23,954,688	23,964,671	9,983 +	1
GenelD:59057	Zfp191	18	24,012,267	24,020,771	8,504 -	1
GenelD:14423	Galnt1	18	24,205,344	24,286,816	81,472 +	1
GenelD:68046	2700062C07Rik	18	24,470,871	24,477,767	6,896 +	1
GenelD:225283	Rprd1a	18	24,484,962	24,530,204	45,242 -	1
GenelD:106957	Slc39a6	18	24,579,881	24,603,817	23,936 -	1
GenelD:58523	Elp2	18	24,603,961	24,638,830	34,869 +	1
GenelD:68591	Mocos	18	24,653,691	24,701,556	47,865 +	1
GenelD:225288	Fhod3	18	24,709,445	25,133,501	424,056 +	1
GenelD:67453	Slc25a46	18	31,580,168	31,609,902	29,734 -	1
GenelD:69241	Polr2d	18	31,789,159	31,796,701	7,542 +	1
GenelD:74320	Wdr33	18	31,804,057	31,908,987	104,930 +	1
GenelD:73473	lws1	18	32,067,734	32,104,331	36,597 +	1
GenelD:26405	Map3k2	18	32,163,089	32,236,751	73,662 +	1
GenelD:402767	A830052D11Rik	18	32,359,057	32,378,284	19,227 -	1
GenelD:30948	Bin1	18	32,377,217	32,435,740	58,523 +	1
GenelD:75795	4930455D15Rik	18	32,663,642	32,837,287	173,645 -	1

GenelD:225348	Wdr36	18	32,837,225	32,866,420	29,195 +	1
GenelD:27528	Nrep	18	33,437,019	33,464,029	27,010 -	1
GenelD:433171	Gm10549	18	33,464,163	33,474,710	10,547 +	1
GenelD:69749	2410004N09Rik	18	33,794,892	33,795,989	1,097 +	1
GenelD:13824	Epb4.1l4a	18	33,796,327	34,007,206	210,879 -	2
GenelD:633395	Gm10548	18	34,207,775	34,221,772	13,997 -	1
GenelD:11789	Apc	18	34,220,984	34,322,190	101,206 +	2
GenelD:66384	Srp19	18	34,331,145	34,336,599	5,454 +	1
GenelD:13476	Reep5	18	34,344,885	34,373,415	28,530 -	1
GenelD:225358	Fam13b	18	34,442,351	34,506,823	64,472 -	1
GenelD:78656	Brd8	18	34,598,615	34,624,810	26,195 -	1
GenelD:19348	Kif20a	18	34,624,624	34,633,277	8,653 +	1
GenelD:52563	Cdc23	18	34,631,683	34,651,736	20,053 -	1
GenelD:12532	Cdc25c	18	34,732,997	34,751,533	18,536 -	1
GenelD:10050308	2010110K18Rik	18	34,753,443	34,758,297	4,854 +	1
GenelD:66306	Fam53c	18	34,758,906	34,773,760	14,854 +	2
GenelD:277250	Kdm3b	18	34,777,008	34,839,370	62,362 +	1
GenelD:13653	Egr1	18	34,861,207	34,864,956	3,749 +	2
GenelD:225363	Etf1	18	34,902,785	34,932,003	29,218 -	1
GenelD:15526	Hspa9	18	34,937,414	34,954,351	16,937 -	1
GenelD:10050338	Snhg4	18	35,553,410	35,558,316	4,906 +	1
GenelD:10031670	Mir1949	18	35,554,567	35,554,636	69 +	1
GenelD:436583	Snora74a	18	35,557,030	35,557,227	197 +	1
GenelD:17184	Matr3	18	35,562,158	35,592,045	29,887 +	2
GenelD:67869	Paip2	18	35,598,667	35,617,185	18,518 +	1
GenelD:67393	Cxxc5	18	35,829,818	35,861,688	31,870 +	3
GenelD:10004215	Nrg2	18	36,017,649	36,197,160	179,511 -	2
GenelD:19290	Pura	18	36,281,162	36,288,245	7,083 +	2
GenelD:93709	Pcdhga1	18	37,661,945	37,841,870	179,925 +	1
GenelD:93710	Pcdhga2	18	37,669,105	37,841,870	172,765 +	1
GenelD:93711	Pcdhga3	18	37,674,335	37,841,873	167,538 +	1
GenelD:93699	Pcdhgb1	18	37,680,458	37,841,870	161,412 +	1
GenelD:93712	Pcdhga4	18	37,685,400	37,841,870	156,470 +	1
GenelD:93700	Pcdhgb2	18	37,689,859	37,841,872	152,013 +	1
GenelD:93713	Pcdhga5	18	37,694,501	37,841,870	147,369 +	1
GenelD:93714	Pcdhga6	18	37,707,229	37,841,870	134,641 +	1
GenelD:93715	Pcdhga7	18	37,714,834	37,841,873	127,039 +	1
GenelD:93701	Pcdhgb4	18	37,720,554	37,841,870	121,316 +	1
GenelD:93716	Pcdhga8	18	37,725,706	37,841,873	116,167 +	1
GenelD:93702	Pcdhgb5	18	37,731,154	37,841,870	110,716 +	1
GenelD:93717	Pcdhga9	18	37,736,936	37,841,863	104,927 +	1
GenelD:93703	Pcdhgb6	18	37,742,094	37,841,873	99,779 +	1
GenelD:93722	Pcdhga10	18	37,747,188	37,841,870	94,682 +	1
GenelD:93704	Pcdhgb7	18	37,751,779	37,841,870	90,091 +	1
GenelD:93723	Pcdhga11	18	37,755,773	37,841,873	86,100 +	1
GenelD:93705	Pcdhgb8	18	37,761,801	37,841,873	80,072 +	1
GenelD:93724	Pcdhga12	18	37,765,580	37,841,873	76,293 +	1

GenelD:93706	Pcdhgc3	18	37,806,410	37,841,873	35,463 +	1
GenelD:93707	Pcdhgc4	18	37,815,079	37,841,873	26,794 +	1
GenelD:13367	Diap1	18	37,844,824	37,935,411	90,587 -	1
GenelD:15183	Hdac3	18	37,936,971	37,954,988	18,017 -	2
GenelD:225392	Rell2	18	37,955,559	37,959,179	3,620 +	1
GenelD:319262	Fchsd1	18	37,957,434	37,969,731	12,297 -	1
GenelD:56736	Rnf14	18	38,296,635	38,317,849	21,214 +	1
GenelD:26384	Gnpda1	18	38,327,537	38,338,993	11,456 -	1
GenelD:65113	Ndfip1	18	38,418,975	38,464,406	45,431 +	1
GenelD:24066	Spry4	18	38,586,265	38,601,268	15,003 -	1
GenelD:381155	9630014M24Rik	18	38,601,534	38,645,922	44,388 +	1
GenelD:71302	Arhgap26	18	38,993,145	39,376,285	383,140 +	1
GenelD:14815	Nr3c1	18	39,410,545	39,487,245	76,700 -	3
GenelD:56070	Tcerg1	18	42,511,487	42,575,785	64,298 +	1
GenelD:22240	Dpysl3	18	43,324,227	43,393,331	69,104 -	1
GenelD:10086230	LOC100862305	18	43,437,584	43,438,377	793 -	1
GenelD:10004207	Gm3650	18	43,445,110	43,475,271	30,161 +	1
GenelD:240255	Ythdc2	18	44,828,665	44,889,720	61,055 +	1
GenelD:140492	Kcnn2	18	45,560,154	45,685,883	125,729 +	1
GenelD:240263	Fem1c	18	46,504,606	46,525,971	21,365 -	1
GenelD:66676	Tmed7	18	46,585,928	46,597,535	11,607 -	1
GenelD:13664	Eif1a	18	46,597,704	46,610,225	12,521 +	1
GenelD:67526	Atg12	18	46,732,417	46,741,579	9,162 -	1
GenelD:11777	Ap3s1	18	46,741,917	46,790,826	48,909 +	1
GenelD:74574	4833403I15Rik	18	46,850,039	46,905,446	55,407 +	1
GenelD:20358	Sema6a	18	47,245,254	47,368,868	123,614 -	1
GenelD:240283	Dmxl1	18	49,832,997	49,965,473	132,476 +	1
GenelD:16948	Lox	18	52,517,238	52,529,708	12,470 -	1
GenelD:67847	Sncaip	18	52,767,811	52,915,931	148,120 +	1
GenelD:67804	Snx2	18	53,176,365	53,220,860	44,495 +	1
GenelD:225518	Prdm6	18	53,464,546	53,575,857	111,311 +	1
GenelD:70425	Csnk1g3	18	53,862,113	53,955,684	93,571 +	1
GenelD:16906	Lmnb1	18	56,707,813	56,753,424	45,611 +	1
GenelD:320253	March3	18	56,761,716	56,925,548	163,832 -	1
GenelD:20496	Slc12a2	18	57,878,678	57,946,821	68,143 +	1
GenelD:14119	Fbn2	18	58,008,623	58,209,926	201,303 -	1
GenelD:240322	Adamts19	18	58,836,764	59,053,678	216,914 +	1
GenelD:78923	Chsy3	18	59,175,340	59,411,336	235,996 +	1
GenelD:67665	Dctn4	18	60,526,221	60,558,762	32,541 +	1
GenelD:66810	Rbm22	18	60,560,786	60,572,729	11,943 +	1
GenelD:170947	Myoz3	18	60,573,717	60,591,716	17,999 -	1
GenelD:104027	Synpo	18	60,593,990	60,624,305	30,315 -	3
GenelD:10105583	LOC101055835	18	60,605,866	60,660,142	54,276 -	3
GenelD:20044	Rps14	18	60,774,596	60,778,546	3,950 +	1
GenelD:21453	Tcof1	18	60,813,755	60,848,964	35,209 -	1
GenelD:12590	Cdx1	18	61,018,862	61,036,199	17,337 -	1
GenelD:18596	Pdgfrb	18	61,045,150	61,085,067	39,917 +	1

GenelD:106894	Hmgxb3	18	61,131,277	61,177,050	45,773 -	1
GenelD:170826	Ppargc1b	18	61,298,136	61,400,431	102,295 -	2
GenelD:723889	Mir378	18	61,397,835	61,397,900	65 -	2
GenelD:93687	Csnk1a1	18	61,555,582	61,588,299	32,717 +	1
GenelD:15562	Htr4	18	62,324,204	62,467,802	143,598 +	1
GenelD:108123	Napg	18	62,977,916	62,999,450	21,534 +	1
GenelD:667742	Piezo2	18	63,010,213	63,387,183	376,970 -	1
GenelD:53382	Txnl1	18	63,662,801	63,692,359	29,558 -	1
GenelD:54670	Atp8b1	18	64,528,979	64,661,000	132,021 -	1
GenelD:83814	Nedd4l	18	64,887,756	65,217,826	330,070 +	1
GenelD:10050346	AA667203	18	64,894,744	64,901,218	6,474 +	1
GenelD:66286	Sec11c	18	65,800,578	65,817,657	17,079 +	1
GenelD:19434	Rax	18	65,934,639	65,939,089	4,450 -	1
GenelD:360222	Raxos1	18	65,937,538	65,940,447	2,909 +	1
GenelD:70361	Lman1	18	65,980,739	66,002,635	21,896 -	1
GenelD:320924	Ccbe1	18	66,056,856	66,291,838	234,982 -	1
GenelD:10050354	Gm15958	18	66,291,274	66,319,607	28,333 +	1
GenelD:14680	Gnal	18	67,088,336	67,226,792	138,456 +	2
GenelD:67064	Chmp1b	18	67,205,359	67,207,887	2,528 +	1
GenelD:225651	Mppe1	18	67,225,530	67,245,830	20,300 -	1
GenelD:114663	Impa2	18	67,289,223	67,318,841	29,618 +	1
GenelD:67951	Tubb6	18	67,390,731	67,402,749	12,018 +	1
GenelD:69597	Afg3l2	18	67,404,764	67,449,136	44,372 -	1
GenelD:225655	Slmo1	18	67,464,849	67,480,581	15,732 +	1
GenelD:225659	Cep76	18	67,617,397	67,641,336	23,939 -	1
GenelD:107047	Psmg2	18	67,641,599	67,654,162	12,563 +	1
GenelD:19255	Ptpn2	18	67,665,501	67,724,621	59,120 -	1
GenelD:72124	Seh1l	18	67,774,876	67,795,487	20,611 +	1
GenelD:75286	4930549G23Rik	18	67,776,033	67,799,943	23,910 -	1
GenelD:52662	Ldlrad4	18	67,933,257	68,255,549	322,292 +	1
GenelD:269033	4930503L19Rik	18	70,453,140	70,472,480	19,340 -	1
GenelD:170461	Stard6	18	70,472,545	70,501,063	28,518 +	1
GenelD:240396	Mex3c	18	73,572,705	73,592,578	19,873 +	1
GenelD:114615	Elac1	18	73,735,038	73,754,479	19,441 -	1
GenelD:107029	Me2	18	73,770,040	73,815,392	45,352 -	1
GenelD:225724	Mapk4	18	73,928,486	74,064,949	136,463 -	1
GenelD:66468	Ska1	18	74,195,299	74,207,818	12,519 -	1
GenelD:74322	Cxxc1	18	74,216,212	74,221,491	5,279 +	1
GenelD:17919	Myo5b	18	74,442,619	74,771,477	328,858 +	1
GenelD:319195	Rpl17	18	75,000,477	75,003,381	2,904 +	1
GenelD:10021745	Snord58b	18	75,001,068	75,001,122	54 +	1
GenelD:407819	BC031181	18	75,005,900	75,009,933	4,033 +	2
GenelD:69190	Dym	18	75,018,772	75,286,966	268,194 +	1
GenelD:17131	Smad7	18	75,367,365	75,395,934	28,569 +	6
GenelD:269037	Ctif	18	75,431,205	75,697,696	266,491 -	1
GenelD:207259	Zbtb7c	18	75,820,178	76,148,564	328,386 +	3
GenelD:66191	Ier3ip1	18	76,930,027	76,941,614	11,587 +	1

GenelD:225742	St8sia5	18	77,185,847	77,255,450	69,603 +	1
GenelD:212163	8030462N17Rik	18	77,633,281	77,714,010	80,729 -	2
GenelD:67640	4930465K10Rik	18	77,714,184	77,715,445	1,261 +	2
GenelD:225745	Haus1	18	77,757,567	77,767,780	10,213 -	1
GenelD:11946	Atp5a1	18	77,773,768	77,782,869	9,101 +	1
GenelD:619308	F830208F22Rik	18	77,793,257	77,796,743	3,486 -	1
GenelD:19201	Pstpip2	18	77,794,550	77,882,879	88,329 +	1
GenelD:240427	Setbp1	18	78,750,378	79,109,391	359,013 -	1
GenelD:93737	Pard6g	18	80,046,895	80,119,640	72,745 +	1
GenelD:66255	Hsbp1l1	18	80,229,751	80,247,102	17,351 -	1
GenelD:66943	Pqlc1	18	80,255,245	80,292,724	37,479 +	1
GenelD:18018	Nfatc1	18	80,606,205	80,713,071	106,866 -	2
GenelD:50771	Atp9b	18	80,734,141	80,934,058	199,917 -	1
GenelD:20689	Sall3	18	80,966,359	80,986,578	20,219 -	1
GenelD:17196	Mbp	18	82,475,123	82,585,637	110,514 +	1
GenelD:329002	Zfp236	18	82,593,597	82,692,734	99,137 -	1
GenelD:110796	Tshz1	18	84,011,627	84,086,562	74,935 -	2
GenelD:225791	Zadh2	18	84,088,158	84,097,514	9,356 +	2
GenelD:66054	Cndp2	18	84,667,469	84,685,633	18,164 -	1
GenelD:54607	Socs6	18	88,867,880	88,894,207	26,327 -	1
GenelD:12894	Cpt1a	19	3,323,301	3,385,733	62,432 +	3
GenelD:17771	Mtl5	19	3,388,869	3,407,785	18,916 +	1
GenelD:52036	Ppp6r3	19	3,454,928	3,575,749	120,821 -	1
GenelD:16973	Lrp5	19	3,584,825	3,686,564	101,739 -	2
GenelD:225888	Suv420h1	19	3,767,421	3,818,303	50,882 +	1
GenelD:12660	Chka	19	3,851,773	3,894,367	42,594 +	1
GenelD:73660	Cabp4	19	4,135,423	4,139,609	4,186 -	1
GenelD:269053	Gpr152	19	4,139,799	4,145,741	5,942 +	1
GenelD:23789	Coro1b	19	4,148,663	4,154,035	5,372 +	1
GenelD:19265	Ptprcap	19	4,154,646	4,156,710	2,064 +	1
GenelD:58988	Rps6kb2	19	4,156,977	4,163,245	6,268 -	1
GenelD:108995	Tbc1d10c	19	4,184,357	4,191,047	6,690 -	2
GenelD:19045	Ppp1ca	19	4,192,174	4,195,419	3,245 +	2
GenelD:19367	Rad9a	19	4,195,198	4,201,603	6,405 -	2
GenelD:56708	Clcf1	19	4,214,392	4,222,615	8,223 +	1
GenelD:225876	Kdm2a	19	4,316,144	4,397,077	80,933 -	1
GenelD:18563	Pcx	19	4,510,472	4,621,752	111,280 +	4
GenelD:225875	Lrfn4	19	4,611,784	4,615,667	3,883 -	3
GenelD:19671	Rce1	19	4,622,551	4,625,617	3,066 -	3
GenelD:381196	Gm960	19	4,625,841	4,698,668	72,827 -	2
GenelD:20743	Sptbn2	19	4,711,223	4,752,352	41,129 +	1
GenelD:66704	Rbm4b	19	4,756,525	4,765,940	9,415 +	1
GenelD:11474	Actn3	19	4,861,223	4,877,884	16,661 -	1
GenelD:70605	Zdhhc24	19	4,878,668	4,885,397	6,729 +	1
GenelD:52028	Bbs1	19	4,886,882	4,906,627	19,745 -	1
GenelD:240518	Peli3	19	4,931,855	4,943,092	11,237 -	1
GenelD:13340	Slc29a2	19	5,024,006	5,031,972	7,966 +	1

GenelD:108902	B3gnt1	19	5,038,826	5,041,134	2,308 +	1
GenelD:107392	Brms1	19	5,041,404	5,049,917	8,513 +	1
GenelD:70445	Cd248	19	5,068,078	5,070,640	2,562 +	2
GenelD:381199	Tmem151a	19	5,079,337	5,085,477	6,140 -	2
GenelD:12794	Cnih2	19	5,092,871	5,098,418	5,547 -	1
GenelD:76308	Rab1b	19	5,099,207	5,106,996	7,789 -	1
GenelD:16594	Klc2	19	5,107,746	5,118,408	10,662 -	2
GenelD:107975	Pacs1	19	5,133,685	5,273,119	139,434 -	1
GenelD:319322	Sf3b2	19	5,273,921	5,295,455	21,534 -	1
GenelD:545276	Gal3st3	19	5,298,331	5,308,739	10,408 +	1
GenelD:23825	Banf1	19	5,364,640	5,366,645	2,005 -	1
GenelD:69860	Eif1ad	19	5,366,813	5,371,511	4,698 +	1
GenelD:20227	Sart1	19	5,377,523	5,388,703	11,180 -	2
GenelD:414115	D330050I16Rik	19	5,388,336	5,390,069	1,733 +	1
GenelD:78306	Tsga10ip	19	5,390,047	5,402,460	12,413 -	1
GenelD:74931	4930481A15Rik	19	5,406,874	5,422,847	15,973 +	2
GenelD:66556	Drap1	19	5,422,811	5,424,916	2,105 -	2
GenelD:107242	Al837181	19	5,425,144	5,427,317	2,173 +	2
GenelD:14283	Fosl1	19	5,447,698	5,455,938	8,240 +	2
GenelD:240514	Ccdc85b	19	5,453,163	5,457,563	4,400 -	2
GenelD:58249	Fibp	19	5,460,607	5,465,052	4,445 +	3
GenelD:13041	Ctsw	19	5,465,240	5,468,498	3,258 -	3
GenelD:58859	Efemp2	19	5,474,690	5,481,854	7,164 +	3
GenelD:71711	Mus81	19	5,482,840	5,488,336	5,496 -	3
GenelD:12631	Cfl1	19	5,490,455	5,494,031	3,576 +	2
GenelD:225861	Snx32	19	5,495,278	5,510,489	15,211 -	2
GenelD:18426	Ovol1	19	5,549,137	5,560,575	11,438 -	2
GenelD:381201	Ap5b1	19	5,568,074	5,571,261	3,187 +	2
GenelD:68209	Rnaseh2c	19	5,601,873	5,602,959	1,086 +	2
GenelD:81601	Kat5	19	5,603,014	5,610,094	7,080 -	2
GenelD:19697	Rela	19	5,637,490	5,648,130	10,640 +	1
GenelD:20469	Sipa1	19	5,651,185	5,663,707	12,522 -	1
GenelD:104401	Pcnxl3	19	5,664,635	5,688,908	24,273 -	4
GenelD:26403	Map3k11	19	5,689,131	5,702,865	13,734 +	3
GenelD:114601	Ehbp1l1	19	5,707,369	5,726,317	18,948 -	2
GenelD:17826	Fam89b	19	5,728,087	5,729,666	1,579 -	2
GenelD:56390	Sssca1	19	5,730,306	5,731,721	1,415 -	3
GenelD:10003854	Gm10815	19	5,738,405	5,740,762	2,357 -	4
GenelD:16998	Ltbp3	19	5,740,904	5,758,532	17,628 +	3
GenelD:78891	Scyl1	19	5,758,427	5,771,401	12,974 -	1
GenelD:72289	Malat1	19	5,795,690	5,802,671	6,981 -	2
GenelD:104252	Cdc42ep2	19	5,917,556	5,924,816	7,260 -	1
GenelD:12333	Capn1	19	5,988,545	6,015,825	27,280 -	1
GenelD:10050298	Gm10814	19	6,012,620	6,018,459	5,839 +	1
GenelD:666300	Gm8034	19	6,044,442	6,044,897	455 -	1
GenelD:74126	Syvn1	19	6,046,576	6,053,718	7,142 +	2
GenelD:18120	Mrpl49	19	6,053,630	6,057,751	4,121 -	2

GenelD:14109	Fau	19	6,057,888	6,059,524	1,636 +	2
GenelD:29805	Znhit2	19	6,061,207	6,062,468	1,261 +	2
GenelD:73166	Tm7sf2	19	6,062,821	6,067,850	5,029 -	2
GenelD:68505	Vps51	19	6,067,842	6,077,187	9,345 -	3
GenelD:433215	BC048609	19	6,080,038	6,080,785	747 +	2
GenelD:81909	Zfpl1	19	6,080,762	6,084,891	4,129 -	2
GenelD:67849	Cdca5	19	6,085,097	6,091,773	6,676 +	1
GenelD:56327	Arl2	19	6,134,389	6,141,137	6,748 -	1
GenelD:170458	Gpha2	19	6,226,401	6,227,768	1,367 +	1
GenelD:225849	Ppp2r5b	19	6,227,767	6,235,840	8,073 -	2
GenelD:329015	Atg2a	19	6,241,668	6,262,304	20,636 +	2
GenelD:13660	Ehd1	19	6,276,896	6,300,096	23,200 +	1
GenelD:240505	Cdc42bpg	19	6,306,457	6,325,652	19,195 +	1
GenelD:17283	Men1	19	6,334,979	6,340,894	5,915 +	1
GenelD:26412	Map4k2	19	6,341,250	6,353,527	12,277 +	1
GenelD:22668	Sf1	19	6,363,690	6,378,038	14,348 +	1
GenelD:18190	Nrxn2	19	6,418,738	6,533,217	114,479 +	1
GenelD:56613	Rps6ka4	19	6,829,084	6,840,601	11,517 -	1
GenelD:10062857	Mir5046	19	6,829,886	6,829,944	58 -	1
GenelD:78317	Ccdc88b	19	6,844,623	6,858,211	13,588 -	1
GenelD:67077	Tex40	19	6,922,426	6,925,380	2,954 -	1
GenelD:16528	Kcnk4	19	6,925,690	6,934,515	8,825 -	2
GenelD:107173	Gpr137	19	6,938,070	6,942,450	4,380 -	3
GenelD:12015	Bad	19	6,941,855	6,951,893	10,038 +	3
GenelD:18797	Plcb3	19	6,953,713	6,969,752	16,039 -	3
GenelD:18938	Ppp1r14b	19	6,975,048	6,977,324	2,276 +	3
GenelD:14227	Fkbp2	19	6,977,739	6,980,461	2,722 -	3
GenelD:22340	Vegfb	19	6,982,472	6,987,651	5,179 -	3
GenelD:57431	Dnajc4	19	6,987,911	6,992,272	4,361 -	1
GenelD:68323	Nudt22	19	6,993,019	6,996,037	3,018 -	1
GenelD:107328	Trpt1	19	6,996,131	6,999,046	2,915 +	1
GenelD:107227	Macrod1	19	7,056,768	7,198,062	141,294 +	3
GenelD:107260	Otub1	19	7,198,206	7,206,284	8,078 -	1
GenelD:12868	Cox8a	19	7,215,158	7,217,616	2,458 -	1
GenelD:70999	Naa40	19	7,225,668	7,241,222	15,554 -	1
GenelD:104383	Rcor2	19	7,269,765	7,275,225	5,460 +	1
GenelD:13728	Mark2	19	7,275,396	7,341,844	66,448 -	2
GenelD:68229	Al846148	19	7,356,464	7,383,026	26,562 -	1
GenelD:654802	1700105P06Rik	19	7,383,003	7,383,561	558 +	1
GenelD:108899	2700081O15Rik	19	7,417,625	7,425,904	8,279 +	3
GenelD:20168	Rtn3	19	7,425,901	7,483,289	57,388 -	3
GenelD:17254	Slc3a2	19	8,706,882	8,723,369	16,487 -	1
GenelD:83673	Snhg1	19	8,723,487	8,726,326	2,839 +	2
GenelD:10012711	Snord22	19	8,725,866	8,725,991	125 +	1
GenelD:107071	Wdr74	19	8,735,839	8,740,624	4,785 +	2
GenelD:74307	1700092M07Rik	19	8,740,718	8,741,225	507 +	2
GenelD:56389	Stx5a	19	8,741,424	8,755,642	14,218 +	3

GenelD:53319	Nxf1	19	8,757,103	8,770,910	13,807 +	2
GenelD:66836	Tmem223	19	8,770,996	8,772,475	1,479 +	1
GenelD:67706	Tmem179b	19	8,772,522	8,774,467	1,945 -	1
GenelD:225895	Taf6l	19	8,774,354	8,786,417	12,063 -	1
GenelD:67531	5730408K05Rik	19	8,888,387	8,888,770	383 -	2
GenelD:10062860	Mir5136	19	8,888,699	8,888,774	75 -	2
GenelD:66276	1810009A15Rik	19	8,888,903	8,890,740	1,837 +	2
GenelD:109077	Ints5	19	8,892,987	8,897,890	4,903 +	2
GenelD:14376	Ganab	19	8,898,111	8,916,666	18,555 +	2
GenelD:72727	B3gat3	19	8,920,393	8,927,236	6,843 +	1
GenelD:19881	Rom1	19	8,927,382	8,929,356	1,974 -	1
GenelD:225898	Eml3	19	8,929,694	8,941,582	11,888 +	2
GenelD:23942	Mta2	19	8,941,920	8,952,300	10,380 +	1
GenelD:70044	Tut1	19	8,953,850	8,966,210	12,360 +	1
GenelD:67160	Eef1g	19	8,967,041	8,978,180	11,139 +	1
GenelD:66395	Ahnak	19	8,989,284	9,076,919	87,635 +	1
GenelD:16319	Incenp	19	9,872,297	9,899,533	27,236 -	1
GenelD:14319	Fth1	19	9,982,703	9,985,092	2,389 +	1
GenelD:24115	Best1	19	9,985,172	10,001,633	16,461 -	1
GenelD:74760	Rab3il1	19	10,018,228	10,035,586	17,358 +	1
GenelD:60527	Fads3	19	10,041,548	10,059,671	18,123 +	1
GenelD:56473	Fads2	19	10,064,164	10,101,503	37,339 -	1
GenelD:76267	Fads1	19	10,182,888	10,196,874	13,986 +	1
GenelD:269060	Dagla	19	10,245,265	10,304,877	59,612 -	1
GenelD:54525	Syt7	19	10,389,090	10,453,181	64,091 +	1
GenelD:278795	Lrrc10b	19	10,455,371	10,457,447	2,076 -	1
GenelD:66072	Sdhaf2	19	10,500,512	10,525,209	24,697 -	1
GenelD:269061	Cpsf7	19	10,525,244	10,547,735	22,491 +	2
GenelD:68642	Tmem216	19	10,550,466	10,556,238	5,772 -	1
GenelD:72982	Tmem138	19	10,570,885	10,577,097	6,212 -	1
GenelD:225912	Cyb561a3	19	10,577,723	10,589,830	12,107 +	1
GenelD:225913	Dak	19	10,592,197	10,604,258	12,061 -	1
GenelD:13194	Ddb1	19	10,605,625	10,629,822	24,197 +	1
GenelD:107305	Vps37c	19	10,688,815	10,714,419	25,604 +	1
GenelD:68539	Tmem109	19	10,870,660	10,881,743	11,083 -	1
GenelD:28000	Prpf19	19	10,895,231	10,909,559	14,328 +	1
GenelD:14764	Gpr44	19	10,937,160	10,942,511	5,351 +	1
GenelD:108673	Ccdc86	19	10,941,481	10,949,266	7,785 -	1
GenelD:207521	Dtx4	19	12,466,336	12,501,996	35,660 -	1
GenelD:107373	Fam111a	19	12,573,525	12,589,696	16,171 +	1
GenelD:74333	A330040F15Rik	19	12,585,868	12,596,566	10,698 -	1
GenelD:240549	Gm4952	19	12,599,984	12,627,616	27,632 +	1
GenelD:21888	Tle4	19	14,448,072	14,597,983	149,911 -	2
GenelD:107272	Psat1	19	15,905,123	15,925,059	19,936 -	1
GenelD:208518	Cep78	19	15,955,773	15,984,989	29,216 -	1
GenelD:10050265	C130060C02Rik	19	15,985,075	16,010,912	25,837 +	1
GenelD:14682	Gnaq	19	16,132,831	16,387,453	254,622 +	1

GenelD:14675	Gna14	19	16,435,667	16,610,818	175,151 +	1
GenelD:271564	Vps13a	19	16,615,366	16,780,933	165,567 -	1
GenelD:54391	Rfk	19	17,394,043	17,401,349	7,306 +	1
GenelD:18552	Pcsk5	19	17,432,832	17,837,632	404,800 -	1
GenelD:20409	Ostf1	19	18,580,364	18,631,813	51,449 -	1
GenelD:225994	Nmrk1	19	18,632,016	18,652,191	20,175 +	1
GenelD:67383	2410127L17Rik	19	18,670,780	18,704,792	34,012 +	2
GenelD:225995	D030056L22Rik	19	18,713,236	18,718,428	5,192 +	1
GenelD:10105624	LOC101056249	19	21,271,125	21,272,971	1,846 -	1
GenelD:22682	Zfand5	19	21,272,278	21,286,840	14,562 +	1
GenelD:66206	1110059E24Rik	19	21,597,313	21,652,791	55,478 -	1
GenelD:226016	Abhd17b	19	21,653,309	21,685,637	32,328 +	1
GenelD:83921	Tmem2	19	21,778,342	21,858,327	79,985 +	1
GenelD:16601	Klf9	19	23,141,226	23,166,911	25,685 +	1
GenelD:10031667	Mir1192	19	23,149,431	23,149,551	120 +	1
GenelD:226026	Smc5	19	23,206,441	23,273,897	67,456 -	1
GenelD:72351	Ptar1	19	23,687,400	23,721,129	33,729 +	1
GenelD:319924	Apba1	19	23,758,876	23,949,597	190,721 +	2
GenelD:18719	Pip5k1b	19	24,294,796	24,555,827	261,031 -	2
GenelD:68034	Fam122a	19	24,475,779	24,477,474	1,695 -	1
GenelD:107351	Kank1	19	25,237,202	25,434,496	197,294 +	1
GenelD:50796	Dmrt1	19	25,505,706	25,604,328	98,622 +	2
GenelD:240590	Dmrt3	19	25,610,537	25,623,921	13,384 +	1
GenelD:67155	Smarca2	19	26,605,160	26,778,321	173,161 +	1
GenelD:19726	Rfx3	19	27,761,721	28,011,166	249,445 -	1
GenelD:226075	Glis3	19	28,262,448	28,680,077	417,629 -	1
GenelD:320176	D930032P07Rik	19	28,678,224	28,720,027	41,803 +	1
GenelD:67072	Cdc37l1	19	28,990,494	29,017,569	27,075 +	1
GenelD:59028	Rcl1	19	29,101,375	29,143,843	42,468 +	1
GenelD:77779	A930007I19Rik	19	29,503,663	29,521,987	18,324 -	1
GenelD:226089	C030046E11Rik	19	29,522,282	29,605,921	83,639 +	1
GenelD:240613	9930021J03Rik	19	29,714,402	29,806,009	91,607 -	1
GenelD:240614	Ranbp6	19	29,808,108	29,812,974	4,866 -	1
GenelD:109113	Uhrf2	19	30,030,513	30,093,726	63,213 +	1
GenelD:208449	Sgms1	19	32,122,727	32,388,454	265,727 -	2
GenelD:67188	2700046G09Rik	19	32,389,216	32,391,184	1,968 +	2
GenelD:17330	Minpp1	19	32,485,769	32,515,370	29,601 +	1
GenelD:67979	Atad1	19	32,672,563	32,712,298	39,735 -	1
GenelD:19211	Pten	19	32,757,577	32,826,160	68,583 +	1
GenelD:76630	Stambpl1	19	34,192,270	34,240,328	48,058 +	1
GenelD:75735	Pank1	19	34,810,894	34,879,455	68,561 -	1
GenelD:226098	Hectd2	19	36,554,639	36,621,135	66,496 +	1
GenelD:74493	Tnks2	19	36,834,232	36,893,477	59,245 +	1
GenelD:72514	Fgfbp3	19	36,917,550	36,919,599	2,049 -	2
GenelD:107182	Btaf1	19	36,926,079	37,014,057	87,978 +	2
GenelD:208922	Cpeb3	19	37,021,291	37,207,293	186,002 -	2
GenelD:319931	A330032B11Rik	19	37,173,843	37,196,541	22,698 +	1

GenelD:69104	March5	19	37,207,545	37,224,457	16,912 +	1
GenelD:16551	Kif11	19	37,376,403	37,421,859	45,456 +	1
GenelD:107371	Exoc6	19	37,550,418	37,683,253	132,835 +	1
GenelD:619304	I830134H01Rik	19	38,051,774	38,054,528	2,754 -	1
GenelD:74107	Cep55	19	38,055,025	38,074,425	19,400 +	1
GenelD:209478	Tbc1d12	19	38,836,579	38,919,923	83,344 +	1
GenelD:15201	Hells	19	38,930,990	38,968,277	37,287 +	1
GenelD:668310	Cc2d2b	19	40,765,434	40,827,358	61,924 +	1
GenelD:240665	Ccnj	19	40,831,279	40,848,572	17,293 +	1
GenelD:72672	Zfp518a	19	40,894,705	40,917,947	23,242 +	1
GenelD:107358	Tm9sf3	19	41,210,842	41,264,004	53,162 -	1
GenelD:83490	Pik3ap1	19	41,274,218	41,385,070	110,852 -	1
GenelD:14296	Frat1	19	41,829,970	41,832,583	2,613 +	1
GenelD:212398	Frat2	19	41,845,972	41,848,132	2,160 -	1
GenelD:107094	Rrp12	19	41,862,851	41,896,153	33,302 -	1
GenelD:18648	Pgam1	19	41,911,871	41,918,665	6,794 +	1
GenelD:66583	Exosc1	19	41,922,980	41,933,314	10,334 -	1
GenelD:74168	Zdhhc16	19	41,933,472	41,944,103	10,631 +	1
GenelD:72199	Mms19	19	41,943,707	41,981,136	37,429 -	2
GenelD:226122	Ubt1	19	41,981,763	42,034,641	52,878 +	1
GenelD:277010	Marveld1	19	42,147,389	42,151,703	4,314 +	1
GenelD:71146	Golga7b	19	42,247,578	42,270,348	22,770 +	1
GenelD:52013	R3hcc1l	19	42,518,805	42,592,256	73,451 +	1
GenelD:18089	Nkx2-3	19	43,612,325	43,615,892	3,567 +	1
GenelD:93685	Entpd7	19	43,689,689	43,733,853	44,164 +	1
GenelD:226139	Cox15	19	43,733,254	43,753,000	19,746 -	1
GenelD:66388	Cutc	19	43,753,023	43,768,638	15,615 +	1
GenelD:71972	Dnmbp	19	43,846,819	43,940,198	93,379 -	2
GenelD:226144	Erlin1	19	44,034,943	44,069,785	34,842 -	1
GenelD:12675	Chuk	19	44,073,334	44,107,477	34,143 -	2
GenelD:72502	Cwf19l1	19	44,108,637	44,135,876	27,239 -	1
GenelD:18504	Pax2	19	44,757,394	44,837,871	80,477 +	2
GenelD:73322	1700039E22Rik	19	44,828,493	44,835,938	7,445 -	1
GenelD:226151	Fam178a	19	44,931,119	44,983,787	52,668 +	1
GenelD:26456	Sema4g	19	44,989,344	45,003,395	14,051 +	1
GenelD:94067	Mrpl43	19	45,005,014	45,006,442	1,428 -	2
GenelD:226153	Peo1	19	45,006,558	45,012,762	6,204 +	2
GenelD:226154	Lzts2	19	45,015,176	45,027,104	11,928 +	2
GenelD:107250	Kazald1	19	45,076,139	45,079,289	3,150 +	4
GenelD:16814	Lbx1	19	45,233,728	45,235,236	1,508 -	1
GenelD:30838	Fbxw4	19	45,578,257	45,660,193	81,936 -	1
GenelD:14179	Fgf8	19	45,736,798	45,742,884	6,086 -	2
GenelD:18150	Npm3	19	45,747,734	45,749,563	1,829 -	2
GenelD:76055	Mgea5	19	45,750,259	45,783,291	33,032 -	3
GenelD:80906	Kcnp2	19	45,793,670	45,815,803	22,133 -	1
GenelD:71617	9130011E15Rik	19	45,818,144	45,998,488	180,344 -	1
GenelD:20170	Hps6	19	46,003,478	46,006,173	2,695 +	1

GenelD:16825	Ldb1	19	46,032,594	46,045,211	12,617 -	1
GenelD:226169	Pprc1	19	46,056,539	46,072,909	16,370 +	2
GenelD:70769	Nolc1	19	46,075,863	46,085,530	9,667 +	1
GenelD:12686	Elov13	19	46,131,899	46,135,694	3,795 +	1
GenelD:18742	Pitx3	19	46,135,685	46,148,325	12,640 -	2
GenelD:107338	Gbf1	19	46,152,558	46,286,510	133,952 +	1
GenelD:10050339	4833438C02Rik	19	46,303,585	46,305,629	2,044 -	2
GenelD:18034	Nfkb2	19	46,304,737	46,312,090	7,353 +	2
GenelD:73728	Psd	19	46,312,087	46,327,156	15,069 -	3
GenelD:68431	Fbxl15	19	46,328,184	46,330,446	2,262 +	1
GenelD:67116	Cuedc2	19	46,329,812	46,338,660	8,848 -	2
GenelD:751550	Mir146b	19	46,342,762	46,342,870	108 +	1
GenelD:75579	2310034G01Rik	19	46,348,201	46,348,988	787 -	1
GenelD:75146	Tmem180	19	46,356,880	46,375,254	18,374 +	1
GenelD:93679	Trim8	19	46,501,648	46,516,455	14,807 +	2
GenelD:56350	Arl3	19	46,531,109	46,573,085	41,976 -	1
GenelD:94279	Sfxn2	19	46,573,365	46,596,901	23,536 +	1
GenelD:76952	Nt5c2	19	46,886,831	47,015,189	128,358 -	1
GenelD:226180	Ina	19	47,014,698	47,024,358	9,660 +	1
GenelD:226182	Taf5	19	47,067,748	47,083,479	15,731 +	1
GenelD:629389	Gm6970	19	47,170,469	47,171,130	661 -	1
GenelD:18011	Neurl1a	19	47,178,820	47,259,441	80,621 +	2
GenelD:14218	Sh3pxd2a	19	47,260,174	47,464,411	204,237 -	1
GenelD:67788	Sfr1	19	47,731,756	47,735,588	3,832 +	1
GenelD:10004853	Wdr96	19	47,736,857	47,837,361	100,504 -	1
GenelD:14873	Gsto1	19	47,854,989	47,864,790	9,801 +	1
GenelD:68214	Gsto2	19	47,865,545	47,886,305	20,760 +	1
GenelD:414801	Itrip1	19	47,894,596	47,919,299	24,703 -	1
GenelD:170750	Xpnpep1	19	52,991,183	53,038,542	47,359 -	1
GenelD:27360	Add3	19	53,140,445	53,247,399	106,954 +	1
GenelD:17859	Mxi1	19	53,310,506	53,375,810	65,304 +	2
GenelD:76479	Smndc1	19	53,379,214	53,390,573	11,359 -	1
GenelD:240672	Dusp5	19	53,529,318	53,541,322	12,004 +	1
GenelD:13006	Smc3	19	53,600,396	53,645,831	45,435 +	1
GenelD:73713	Rbm20	19	53,677,306	53,867,080	189,774 +	1
GenelD:18569	Pdcd4	19	53,892,231	53,929,861	37,630 +	1
GenelD:10050359	Gm19788	19	53,893,830	53,896,554	2,724 +	1
GenelD:11551	Adra2a	19	54,045,182	54,048,982	3,800 +	1
GenelD:14732	Gpam	19	55,069,734	55,099,447	29,713 -	1
GenelD:66980	Zdhhc6	19	55,298,296	55,316,032	17,736 -	1
GenelD:53611	Vti1a	19	55,316,351	55,626,561	310,210 +	1
GenelD:21416	Tcf7l2	19	55,741,810	55,933,655	191,845 +	2
GenelD:55947	Dclre1a	19	56,529,161	56,548,222	19,061 -	1
GenelD:66866	Nhlrc2	19	56,548,261	56,598,846	50,585 +	1
GenelD:213993	A630007B06Rik	19	56,790,963	56,813,683	22,720 -	1
GenelD:83561	Tdrd1	19	56,826,209	56,870,012	43,803 +	1
GenelD:226250	Afap1l2	19	56,912,354	57,008,575	96,221 -	1

GenelD:320879	B230217O12Rik	19	57,323,197	57,360,899	37,702 -	1
GenelD:226252	Fam160b1	19	57,361,009	57,389,594	28,585 +	1
GenelD:226255	Atrnl1	19	57,611,034	58,133,343	522,309 +	1
GenelD:73442	Hspa12a	19	58,795,751	58,860,984	65,233 -	1
GenelD:107368	Pdzd8	19	59,296,084	59,345,780	49,696 -	1
GenelD:329078	Emx2os	19	59,425,104	59,458,635	33,531 -	2
GenelD:13797	Emx2	19	59,458,690	59,465,357	6,667 +	2
GenelD:74998	Rab11fip2	19	59,902,884	59,943,654	40,770 -	1
GenelD:74963	4930470F04Rik	19	59,943,625	59,944,658	1,033 +	1
GenelD:76539	D19Ertd737e	19	60,198,586	60,226,697	28,111 -	1
GenelD:226278	Prlhr	19	60,466,733	60,468,304	1,571 -	1
GenelD:78832	Cacul1	19	60,524,696	60,581,023	56,327 -	1
GenelD:332397	Nanos1	19	60,755,987	60,759,914	3,927 +	1
GenelD:13669	Eif3a	19	60,761,116	60,790,693	29,577 -	2
GenelD:269233	Fam171a1	2	3,118,388	3,227,809	109,421 +	1
GenelD:18108	Nmt2	2	3,284,288	3,326,369	42,081 +	1
GenelD:64707	Suv39h2	2	3,455,815	3,474,986	19,171 -	1
GenelD:50497	Hspa14	2	3,488,854	3,512,814	23,960 -	1
GenelD:10086194	LOC100861945	2	3,506,804	3,509,102	2,298 -	1
GenelD:227526	Cdnf	2	3,513,065	3,526,376	13,311 +	1
GenelD:227541	Camk1d	2	5,293,457	5,714,664	421,207 -	1
GenelD:209361	Taf3	2	9,914,552	10,048,609	134,057 -	1
GenelD:11949	Atp5c1	2	10,056,030	10,080,510	24,480 -	2
GenelD:16588	Kin	2	10,080,612	10,092,701	12,089 +	1
GenelD:170768	Pfkfb3	2	11,471,430	11,553,929	82,499 -	2
GenelD:76938	Rbm17	2	11,585,439	11,603,199	17,760 -	1
GenelD:50755	Fbxo18	2	11,742,573	11,777,527	34,954 -	1
GenelD:320816	Ankrd16	2	11,777,753	11,790,325	12,572 +	1
GenelD:22352	Vim	2	13,574,311	13,582,826	8,515 +	1
GenelD:241230	St8sia6	2	13,654,934	13,793,520	138,586 -	1
GenelD:30963	Ptpla	2	14,026,831	14,056,035	29,204 -	1
GenelD:70957	4921530L18Rik	2	14,070,333	14,073,934	3,601 -	1
GenelD:20844	Stam	2	14,074,112	14,148,338	74,226 +	1
GenelD:12296	Cacnb2	2	14,604,306	14,987,908	383,602 +	1
GenelD:74455	Nsun6	2	14,995,131	15,054,872	59,741 -	1
GenelD:75869	Arl5b	2	15,055,362	15,079,191	23,829 +	1
GenelD:67448	Plxdc2	2	16,356,322	16,752,115	395,793 +	1
GenelD:77940	A930004D18Rik	2	18,025,187	18,037,741	12,554 -	4
GenelD:10003473	Gm17762	2	18,027,249	18,030,577	3,328 +	3
GenelD:72668	Skida1	2	18,044,087	18,048,449	4,362 -	2
GenelD:17354	Mllt10	2	18,055,237	18,212,390	157,153 +	2
GenelD:10105596	LOC101055966	2	18,063,038	18,064,815	1,777 -	1
GenelD:13418	Dnajc1	2	18,206,333	18,392,830	186,497 -	1
GenelD:12238	Commd3	2	18,672,462	18,676,216	3,754 +	1
GenelD:12151	Bmi1	2	18,677,018	18,686,629	9,611 +	3
GenelD:10105597	LOC101055977	2	18,687,516	18,690,731	3,215 -	2
GenelD:381350	BC061194	2	18,699,022	18,749,605	50,583 +	2

GenelD:10004147	Gm3363	2	18,766,485	18,767,455	970 -	1
GenelD:18718	Pip4k2a	2	18,842,256	18,998,121	155,865 -	1
GenelD:74629	4930426L09Rik	2	18,998,319	18,999,804	1,485 +	1
GenelD:10004124	Gm3230	2	19,655,806	19,657,897	2,091 -	1
GenelD:71198	Otud1	2	19,658,062	19,660,590	2,528 +	1
GenelD:71435	Arhgap21	2	20,847,919	20,967,721	119,802 -	2
GenelD:433408	Gm13375	2	20,968,874	20,970,348	1,474 +	2
GenelD:11308	Abi1	2	22,939,989	23,040,240	100,251 -	1
GenelD:77683	Ehmt1	2	24,790,773	24,919,590	128,817 -	1
GenelD:215705	Arrdc1	2	24,925,352	24,935,281	9,929 -	1
GenelD:67187	Zmynd19	2	24,949,802	24,959,413	9,611 +	1
GenelD:67228	Wdr85	2	24,962,422	24,973,471	11,049 +	1
GenelD:107733	Mrpl41	2	24,972,470	24,975,098	2,628 -	1
GenelD:241274	Pnpla7	2	24,976,033	25,054,072	78,039 +	2
GenelD:56876	Nsmf	2	25,054,379	25,062,881	8,502 +	1
GenelD:67122	Nrap	2	25,180,758	25,183,339	2,581 +	1
GenelD:78797	Ndor1	2	25,244,813	25,255,414	10,601 -	2
GenelD:227615	Tmem203	2	25,255,439	25,256,352	913 +	2
GenelD:97031	Tprn	2	25,262,598	25,269,886	7,288 +	3
GenelD:68475	Ssna1	2	25,271,039	25,272,418	1,379 -	2
GenelD:99152	Anapc2	2	25,272,466	25,285,916	13,450 +	2
GenelD:83768	Dpp7	2	25,352,290	25,356,332	4,042 -	1
GenelD:227620	Uap1l1	2	25,361,492	25,365,626	4,134 -	2
GenelD:72080	Sapcd2	2	25,372,321	25,378,213	5,892 +	2
GenelD:12496	Entpd2	2	25,395,874	25,401,323	5,449 +	2
GenelD:18146	Npdc1	2	25,403,083	25,409,494	6,411 +	2
GenelD:77701	Lcn12	2	25,490,845	25,493,911	3,066 -	1
GenelD:69379	C8g	2	25,498,656	25,500,506	1,850 -	1
GenelD:30839	Fbxw5	2	25,500,778	25,505,470	4,692 +	1
GenelD:22030	Traf2	2	25,517,982	25,546,894	28,912 -	1
GenelD:59022	Edf1	2	25,557,900	25,562,082	4,182 +	1
GenelD:381352	Mamdc4	2	25,563,115	25,571,316	8,201 -	2
GenelD:75454	Phpt1	2	25,573,431	25,574,871	1,440 -	1
GenelD:381353	Gm996	2	25,575,416	25,580,099	4,683 -	1
GenelD:227624	Rabl6	2	25,583,018	25,608,446	25,428 -	2
GenelD:77058	4921530D09Rik	2	25,608,629	25,617,678	9,049 -	1
GenelD:227634	Camsap1	2	25,926,838	25,983,282	56,444 -	1
GenelD:109299	C330006A16Rik	2	26,136,807	26,140,506	3,699 -	1
GenelD:227638	Qsox2	2	26,209,130	26,237,420	28,290 -	1
GenelD:77481	C030048H21Rik	2	26,243,463	26,247,414	3,951 -	1
GenelD:67839	Gpsm1	2	26,315,533	26,348,237	32,704 +	2
GenelD:52838	Dnlz	2	26,348,118	26,352,110	3,992 -	1
GenelD:332579	Card9	2	26,352,312	26,359,547	7,235 -	1
GenelD:227644	Snpc4	2	26,362,765	26,380,653	17,888 -	2
GenelD:68112	Sdccag3	2	26,382,800	26,389,316	6,516 -	1
GenelD:66865	Pmpca	2	26,389,348	26,397,121	7,773 +	1
GenelD:64436	Inpp5e	2	26,396,249	26,409,188	12,939 -	1

GenelD:227648	Sec16a	2	26,409,431	26,445,216	35,785 -	1
GenelD:10012592	0610009E02Rik	2	26,445,696	26,459,417	13,721 +	1
GenelD:18128	Notch1	2	26,457,902	26,503,822	45,920 -	1
GenelD:67512	Agpat2	2	26,593,587	26,604,210	10,623 -	1
GenelD:56279	Fam69b	2	26,628,457	26,636,497	8,040 +	2
GenelD:72091	Snhg7	2	26,637,176	26,640,244	3,068 -	2
GenelD:10030695	Snora43	2	26,637,847	26,637,985	138 -	2
GenelD:10030695	Snora17	2	26,639,190	26,639,321	131 -	2
GenelD:329369	5730588L14Rik	2	26,640,372	26,645,944	5,572 +	1
GenelD:10003944	Gm2240	2	26,646,594	26,651,820	5,226 +	1
GenelD:20935	Surf6	2	26,890,772	26,902,813	12,041 -	1
GenelD:20933	Med22	2	26,905,267	26,910,642	5,375 -	1
GenelD:27176	Rpl7a	2	26,910,807	26,913,311	2,504 +	1
GenelD:20930	Surf1	2	26,913,378	26,916,530	3,152 -	1
GenelD:20931	Surf2	2	26,916,421	26,920,172	3,751 +	1
GenelD:20932	Surf4	2	26,920,041	26,933,511	13,470 -	2
GenelD:279029	Gm711	2	26,934,069	26,953,496	19,427 +	1
GenelD:279028	Adamts13	2	26,973,416	27,009,625	36,209 +	1
GenelD:381356	Cacfd1	2	27,009,926	27,021,089	11,163 +	1
GenelD:22325	Vav2	2	27,263,635	27,426,825	163,190 -	1
GenelD:67382	Brd3	2	27,445,581	27,475,673	30,092 -	1
GenelD:140858	Wdr5	2	27,515,147	27,536,535	21,388 +	1
GenelD:20181	Rxra	2	27,677,201	27,763,319	86,118 +	2
GenelD:12831	Col5a1	2	27,886,425	28,039,510	153,085 +	2
GenelD:69327	1700007K13Rik	2	28,462,001	28,466,324	4,323 -	1
GenelD:118451	Mrps2	2	28,468,066	28,471,177	3,111 +	1
GenelD:227671	Gbgt1	2	28,496,891	28,505,415	8,524 +	1
GenelD:19730	Ralgds	2	28,513,167	28,553,082	39,915 +	1
GenelD:64930	Tsc1	2	28,641,243	28,691,167	49,924 +	1
GenelD:269252	Gtf3c4	2	28,822,299	28,840,360	18,061 -	1
GenelD:227674	Ddx31	2	28,840,406	28,905,575	65,169 +	1
GenelD:54422	Barhl1	2	28,907,680	28,916,440	8,760 -	1
GenelD:329375	1700101E01Rik	2	28,955,481	29,055,066	99,585 -	2
GenelD:22130	Ttf1	2	29,060,263	29,087,650	27,387 +	2
GenelD:171171	Ntng2	2	29,194,821	29,248,040	53,219 -	1
GenelD:76220	6530402F18Rik	2	29,245,116	29,252,993	7,877 -	1
GenelD:68975	Med27	2	29,346,836	29,524,788	177,952 +	1
GenelD:70319	2600006K01Rik	2	29,868,726	29,869,785	1,059 -	1
GenelD:99151	Cercam	2	29,869,494	29,882,840	13,346 +	2
GenelD:18286	Odf2	2	29,889,720	29,931,746	42,026 +	2
GenelD:74412	Gle1	2	29,935,409	29,959,432	24,023 +	2
GenelD:20740	Sptan1	2	29,965,560	30,031,451	65,891 +	1
GenelD:71820	Wdr34	2	30,031,551	30,048,879	17,328 -	1
GenelD:56086	Set	2	30,061,996	30,072,577	10,581 +	3
GenelD:263803	Pkn3	2	30,078,766	30,091,019	12,253 +	1
GenelD:67350	1700084E18Rik	2	30,237,197	30,237,631	434 -	1
GenelD:241296	Lrrc8a	2	30,237,769	30,263,790	26,021 +	1

GenelD:227696	Phyhhd1	2	30,266,529	30,282,149	15,620 +	1
GenelD:227697	Dolk	2	30,284,229	30,286,354	2,125 -	1
GenelD:227699	Nup188	2	30,286,433	30,344,262	57,829 +	1
GenelD:12908	Crat	2	30,400,476	30,415,748	15,272 -	1
GenelD:110854	Ppp2r4	2	30,416,050	30,447,807	31,757 +	1
GenelD:72500	Ier5l	2	30,472,631	30,474,199	1,568 -	2
GenelD:665635	Gm14486	2	30,658,164	30,669,902	11,738 -	1
GenelD:10003870	Gm14488	2	30,713,150	30,717,043	3,893 -	1
GenelD:10052649	Mir3089	2	30,721,210	30,721,293	83 +	1
GenelD:10105574	LOC101055740	2	30,772,644	30,783,406	10,762 +	1
GenelD:30934	Tor1b	2	30,953,001	30,959,015	6,014 +	2
GenelD:30931	Tor1a	2	30,960,561	30,967,918	7,357 -	2
GenelD:227707	BC005624	2	30,972,833	30,981,941	9,108 -	1
GenelD:14269	Fnbp1	2	31,026,206	31,142,008	115,802 -	2
GenelD:320973	D330023K18Rik	2	31,151,049	31,152,291	1,242 -	2
GenelD:277463	Gpr107	2	31,152,316	31,216,567	64,251 +	2
GenelD:14299	Ncs1	2	31,245,923	31,295,472	49,549 +	1
GenelD:665700	Hmcn2	2	31,314,415	31,460,738	146,323 +	2
GenelD:11898	Ass1	2	31,470,270	31,520,670	50,400 +	1
GenelD:320267	Fubp3	2	31,572,725	31,617,519	44,794 +	1
GenelD:227715	Exosc2	2	31,670,737	31,681,320	10,583 +	1
GenelD:11350	Abl1	2	31,688,556	31,804,227	115,671 +	1
GenelD:241303	Fam78a	2	32,066,885	32,083,705	16,820 -	1
GenelD:227723	Prrc2b	2	32,151,148	32,234,537	83,389 +	1
GenelD:13429	Dnm1	2	32,308,471	32,353,304	44,833 -	2
GenelD:68379	Ciz1	2	32,363,010	32,378,313	15,303 +	3
GenelD:73737	1110008P14Rik	2	32,379,101	32,381,915	2,814 -	1
GenelD:16819	Lcn2	2	32,384,637	32,387,739	3,102 -	1
GenelD:98952	Fam102a	2	32,535,359	32,569,750	34,391 +	1
GenelD:20448	St6galnac4	2	32,587,490	32,600,482	12,992 +	1
GenelD:50935	St6galnac6	2	32,599,709	32,620,804	21,095 +	1
GenelD:13805	Eng	2	32,646,595	32,682,669	36,074 +	1
GenelD:14287	Fpgs	2	32,682,609	32,694,175	11,566 -	2
GenelD:107951	Cdk9	2	32,705,782	32,712,784	7,002 -	2
GenelD:10049951	Mir2861	2	32,712,807	32,712,888	81 -	2
GenelD:10062860	Mir3960	2	32,712,900	32,712,972	72 -	2
GenelD:27387	Sh2d3c	2	32,721,055	32,755,007	33,952 +	2
GenelD:30933	Tor2a	2	32,757,234	32,762,244	5,010 +	1
GenelD:338348	Ttc16	2	32,762,177	32,775,383	13,206 -	1
GenelD:20910	Stxbp1	2	32,787,607	32,847,237	59,630 -	1
GenelD:227737	Fam129b	2	32,876,134	32,925,253	49,119 +	1
GenelD:227738	Lrsam1	2	32,925,215	32,961,255	36,040 -	1
GenelD:269261	Rpl12	2	32,961,712	32,964,045	2,333 +	1
GenelD:104367	Snora65	2	32,963,301	32,963,418	117 +	1
GenelD:56017	Slc2a8	2	32,972,989	32,982,056	9,067 -	2
GenelD:99326	Garnl3	2	32,986,366	33,087,204	100,838 -	1
GenelD:241311	Zbtb34	2	33,406,108	33,431,324	25,216 -	1

GenelD:71834	Zbtb43	2	33,450,287	33,468,532	18,245 -	1
GenelD:72543	Mvb12b	2	33,729,956	33,887,946	157,990 -	2
GenelD:18516	Pbx3	2	34,171,909	34,372,036	200,127 -	2
GenelD:30050	Fbxw2	2	34,804,364	34,826,235	21,871 -	1
GenelD:66998	Psmc5	2	34,852,089	34,870,962	18,873 -	1
GenelD:77996	D730039F16Rik	2	34,874,436	34,892,133	17,697 +	1
GenelD:68365	Rab14	2	35,180,205	35,201,120	20,915 -	1
GenelD:69601	Dab2ip	2	35,558,458	35,730,994	172,536 +	2
GenelD:74410	Ttll11	2	35,751,240	35,979,624	228,384 -	1
GenelD:68375	Ndufa8	2	36,036,334	36,049,292	12,958 -	1
GenelD:75495	Morn5	2	36,049,473	36,079,709	30,236 +	1
GenelD:319817	Rc3h2	2	37,370,069	37,422,903	52,834 -	1
GenelD:241322	Zbtb6	2	37,425,500	37,430,919	5,419 -	1
GenelD:320633	Zbtb26	2	37,432,168	37,443,121	10,953 -	2
GenelD:227800	Rabgap1	2	37,443,285	37,566,437	123,152 +	1
GenelD:227801	Dennd1a	2	37,798,990	38,287,384	488,394 -	1
GenelD:59126	Nek6	2	38,511,697	38,587,490	75,793 +	1
GenelD:26423	Nr5a1	2	38,692,660	38,714,542	21,882 -	1
GenelD:14536	Nr6a1	2	38,723,374	38,926,461	203,087 -	2
GenelD:241327	Olfml2a	2	38,931,980	38,960,585	28,605 +	2
GenelD:76646	Wdr38	2	38,998,309	39,001,584	3,275 +	2
GenelD:66489	Rpl35	2	39,001,581	39,005,131	3,550 -	2
GenelD:74192	Arpc5l	2	39,008,139	39,015,872	7,733 +	2
GenelD:76899	Golga1	2	39,016,503	39,065,406	48,903 -	2
GenelD:320271	Scai	2	39,066,214	39,190,730	124,516 -	2
GenelD:67857	Ppp6c	2	39,196,798	39,226,338	29,540 -	2
GenelD:11480	Acvr2a	2	48,814,109	48,903,264	89,155 +	1
GenelD:227867	Epc2	2	49,451,486	49,551,609	100,123 +	1
GenelD:16574	Kif5c	2	49,619,314	49,774,778	155,464 +	1
GenelD:320343	Lypd6	2	50,066,429	50,193,569	127,140 +	1
GenelD:109129	Mmadhc	2	50,279,881	50,296,677	16,796 -	1
GenelD:10050262	Gm13483	2	50,296,810	50,433,967	137,157 +	1
GenelD:74194	Rnd3	2	51,130,439	51,149,111	18,672 -	1
GenelD:51869	Rif1	2	52,072,837	52,122,381	49,544 +	1
GenelD:75423	Arl5a	2	52,397,951	52,424,874	26,923 -	1
GenelD:414078	A430018G15Rik	2	52,424,978	52,434,890	9,912 +	1
GenelD:12298	Cacnb4	2	52,428,320	52,676,582	248,262 -	2
GenelD:56324	Stam2	2	52,692,206	52,742,149	49,943 -	1
GenelD:71409	Fmnl2	2	52,857,868	53,134,202	276,334 +	1
GenelD:56194	Prpf40a	2	53,138,475	53,191,187	52,712 -	1
GenelD:65103	Arl6ip6	2	53,192,084	53,219,221	27,137 +	1
GenelD:18227	Nr4a2	2	57,107,226	57,124,003	16,777 -	2
GenelD:767815	BB557941	2	57,127,477	57,181,754	54,277 -	1
GenelD:227923	A930012O16Rik	2	57,236,227	57,238,502	2,275 -	1
GenelD:14571	Gpd2	2	57,237,678	57,370,719	133,041 +	1
GenelD:269275	Acvr1c	2	58,267,453	58,357,758	90,305 -	1
GenelD:11477	Acvr1	2	58,446,438	58,566,828	120,390 -	1

GenelD:227937	Pkp4	2	59,160,850	59,355,205	194,355 +	1
GenelD:66860	Tanc1	2	59,612,044	59,846,149	234,105 +	1
GenelD:72137	Wdsub1	2	59,852,364	59,882,606	30,242 -	1
GenelD:407823	Baz2b	2	59,899,363	60,125,740	226,377 -	1
GenelD:10050517	LOC100505179	2	60,206,593	60,209,364	2,771 -	1
GenelD:57438	March7	2	60,209,936	60,248,385	38,449 +	1
GenelD:56878	Rbms1	2	60,751,953	60,963,204	211,251 -	2
GenelD:10003849	Gm13582	2	60,964,376	60,975,151	10,775 -	1
GenelD:21353	Tank	2	61,578,586	61,654,171	75,585 +	1
GenelD:59029	Psmc14	2	61,711,694	61,800,376	88,682 +	1
GenelD:21375	Tbr1	2	61,804,453	61,814,114	9,661 +	1
GenelD:319876	Cobll1	2	65,088,339	65,238,626	150,287 -	1
GenelD:14425	Galnt3	2	66,082,766	66,124,793	42,027 -	1
GenelD:53416	Stk39	2	68,210,447	68,471,981	261,534 -	1
GenelD:241447	Cers6	2	68,861,557	69,111,290	249,733 +	1
GenelD:14725	Lrp2	2	69,424,335	69,586,067	161,732 -	1
GenelD:72569	Bbs5	2	69,647,255	69,667,569	20,314 +	1
GenelD:320720	Fastkd1	2	69,686,820	69,712,606	25,786 -	1
GenelD:228005	Ppig	2	69,723,088	69,754,059	30,971 +	1
GenelD:73373	Phospho2	2	69,789,737	69,797,168	7,431 +	1
GenelD:20823	Ssb	2	69,861,562	69,871,846	10,284 +	1
GenelD:75422	Mettl5	2	69,871,195	69,885,604	14,409 -	1
GenelD:10032914	4930550G17Rik	2	69,885,679	69,888,162	2,483 +	1
GenelD:68795	Ubr3	2	69,897,246	70,024,013	126,767 +	1
GenelD:70231	Gorasp2	2	70,661,509	70,691,725	30,216 +	1
GenelD:228012	Tlk1	2	70,712,407	70,825,480	113,073 -	1
GenelD:228019	Mettl8	2	70,964,561	71,055,606	91,045 -	1
GenelD:75763	Dcaf17	2	71,055,744	71,099,142	43,398 +	1
GenelD:13427	Dync1i2	2	71,211,706	71,263,303	51,597 +	1
GenelD:107435	Hat1	2	71,389,260	71,441,622	52,362 +	1
GenelD:66559	Metap1d	2	71,453,338	71,525,191	71,853 +	1
GenelD:16403	Itga6	2	71,787,083	71,856,758	69,675 +	1
GenelD:228026	Pdk1	2	71,873,272	71,903,858	30,586 +	1
GenelD:65964	B230120H23Rik	2	72,285,637	72,442,610	156,973 +	1
GenelD:66953	Cdca7	2	72,476,219	72,486,890	10,671 +	1
GenelD:20687	Sp3	2	72,936,430	72,980,446	44,016 -	2
GenelD:10050384	1700011J10Rik	2	72,979,432	72,989,249	9,817 +	2
GenelD:67059	Ola1	2	73,092,801	73,214,447	121,646 -	1
GenelD:381373	Sp9	2	73,271,926	73,275,771	3,845 +	1
GenelD:66935	Cir1	2	73,283,872	73,312,592	28,720 -	1
GenelD:108699	Chn1	2	73,610,660	73,775,346	164,686 -	1
GenelD:10003853	Gm10822	2	73,892,996	73,900,850	7,854 +	1
GenelD:228033	Atp5g3	2	73,908,450	73,911,294	2,844 -	1
GenelD:69605	Lnp	2	74,514,837	74,578,948	64,111 -	1
GenelD:14029	Evx2	2	74,655,616	74,659,419	3,803 -	2
GenelD:15433	Hoxd13	2	74,668,310	74,671,599	3,289 +	2
GenelD:15432	Hoxd12	2	74,675,013	74,677,705	2,692 +	1

GenelD:15431	Hoxd11	2	74,679,558	74,687,016	7,458 +	1
GenelD:15430	Hoxd10	2	74,691,891	74,695,106	3,215 +	2
GenelD:15438	Hoxd9	2	74,697,763	74,700,208	2,445 +	2
GenelD:15437	Hoxd8	2	74,705,489	74,707,307	1,818 +	1
GenelD:73429	1700109F18Rik	2	74,710,044	74,716,130	6,086 -	1
GenelD:15434	Hoxd3	2	74,711,993	74,748,271	36,278 +	2
GenelD:15436	Hoxd4	2	74,721,978	74,729,160	7,182 +	1
GenelD:387144	Mir10b	2	74,726,070	74,726,137	67 +	1
GenelD:399588	6720416L17Rik	2	74,748,334	74,750,500	2,166 -	1
GenelD:15429	Hoxd1	2	74,762,980	74,765,142	2,162 +	1
GenelD:53375	Mtx2	2	74,825,812	74,876,748	50,936 +	1
GenelD:229279	Hnrnpa3	2	75,659,259	75,669,407	10,148 +	1
GenelD:18024	Nfe2l2	2	75,675,519	75,704,641	29,122 -	1
GenelD:320474	E030042O20Rik	2	75,704,735	75,710,025	5,290 +	1
GenelD:13067	Cyct	2	76,353,943	76,360,448	6,505 -	1
GenelD:241490	Rbm45	2	76,369,984	76,383,768	13,784 +	1
GenelD:99031	Osbpl6	2	76,406,538	76,600,647	194,109 +	1
GenelD:70599	Ssfa2	2	79,635,425	79,672,966	37,541 +	1
GenelD:66861	Dnajc10	2	80,315,466	80,354,055	38,589 +	1
GenelD:50884	Nckap1	2	80,501,295	80,580,965	79,670 -	1
GenelD:68082	Dusp19	2	80,617,214	80,631,661	14,447 +	1
GenelD:672381	Gm13690	2	80,628,683	80,629,638	955 -	1
GenelD:735274	Mir684-1	2	80,628,705	80,628,790	85 -	1
GenelD:69482	Nup35	2	80,638,812	80,660,071	21,259 +	1
GenelD:69082	Zc3h15	2	83,644,578	83,664,617	20,039 +	1
GenelD:16410	Itgav	2	83,724,397	83,806,916	82,519 +	1
GenelD:228136	Zdhhc5	2	84,687,920	84,715,164	27,244 -	1
GenelD:98985	Clp1	2	84,723,122	84,727,268	4,146 -	1
GenelD:241525	Ypel4	2	84,734,204	84,737,877	3,673 +	1
GenelD:387149	Mir130a	2	84,741,115	84,741,178	63 -	1
GenelD:10050287	Gm19426	2	84,742,169	84,743,655	1,486 -	1
GenelD:30059	Timm10	2	84,827,021	84,830,213	3,192 +	1
GenelD:72401	Slc43a1	2	84,839,408	84,863,586	24,178 +	1
GenelD:269295	Rtn4rl2	2	84,871,946	84,886,692	14,746 -	1
GenelD:228139	P2rx3	2	84,996,552	85,035,834	39,282 -	1
GenelD:10086234	LOC100862344	2	85,030,204	85,033,586	3,382 -	1
GenelD:20833	Ssrp1	2	85,037,201	85,047,111	9,910 +	2
GenelD:228140	Tnks1bp1	2	85,050,460	85,073,048	22,588 +	1
GenelD:67445	C1qtnf4	2	90,885,786	90,890,526	4,740 +	1
GenelD:68349	Ndufs3	2	90,894,636	90,904,721	10,085 -	2
GenelD:67136	Kbtbd4	2	90,904,786	90,910,560	5,774 +	2
GenelD:66461	Ptpmt1	2	90,910,713	90,918,050	7,337 -	2
GenelD:13046	Celf1	2	90,940,397	91,019,497	79,100 +	1
GenelD:68427	Slc39a13	2	91,061,791	91,070,221	8,430 -	1
GenelD:228355	Madd	2	91,137,360	91,183,047	45,687 -	1
GenelD:22259	Nr1h3	2	91,184,061	91,195,116	11,055 -	1
GenelD:228357	Lrp4	2	91,457,531	91,513,901	56,370 +	1

GenelD:619941	Gm13770	2	91,523,573	91,523,884	311 -	1
GenelD:51897	Atg13	2	91,674,612	91,710,592	35,980 -	1
GenelD:241547	Harbi1	2	91,710,950	91,721,566	10,616 +	2
GenelD:228361	Ambra1	2	91,730,138	91,918,849	188,711 +	2
GenelD:12672	Chrm4	2	91,922,189	91,929,829	7,640 +	2
GenelD:17242	Mdk	2	91,929,821	91,932,282	2,461 -	2
GenelD:104418	Dgkz	2	91,932,822	91,963,563	30,741 -	1
GenelD:26427	Creb3l1	2	91,982,328	92,024,170	41,842 -	1
GenelD:192285	Phf21a	2	92,184,182	92,364,666	180,484 +	1
GenelD:228366	Gylt1b	2	92,365,046	92,371,036	5,990 -	1
GenelD:18633	Pex16	2	92,374,676	92,381,220	6,544 +	1
GenelD:12953	Cry2	2	92,403,646	92,434,069	30,423 -	1
GenelD:320507	D930015M05Rik	2	92,408,892	92,432,308	23,416 +	1
GenelD:228368	Slc35c1	2	92,452,764	92,460,518	7,754 -	1
GenelD:277414	Trp53i11	2	93,187,584	93,201,757	14,173 +	1
GenelD:241556	Tspan18	2	93,201,760	93,334,487	132,727 -	1
GenelD:620695	Gm13889	2	93,955,810	93,957,100	1,290 -	1
GenelD:74569	Ttc17	2	94,300,766	94,406,689	105,923 -	1
GenelD:66457	2810002D19Rik	2	94,406,707	94,411,682	4,975 +	1
GenelD:11800	Api5	2	94,411,727	94,438,147	26,420 -	2
GenelD:22034	Traf6	2	101,678,440	101,700,976	22,536 +	1
GenelD:80985	Trim44	2	102,300,119	102,400,900	100,781 -	1
GenelD:14221	Fjx1	2	102,449,366	102,451,792	2,426 -	1
GenelD:99382	Abtb2	2	103,566,310	103,718,423	152,113 +	1
GenelD:98956	Nat10	2	103,721,259	103,761,250	39,991 -	1
GenelD:53872	Caprin1	2	103,762,945	103,797,640	34,695 -	3
GenelD:78031	4930547E08Rik	2	103,804,452	103,810,622	6,170 -	2
GenelD:241589	D430041D05Rik	2	104,143,073	104,410,334	267,261 -	1
GenelD:15259	Hipk3	2	104,426,481	104,494,489	68,008 -	1
GenelD:228410	Cstf3	2	104,590,484	104,665,425	74,941 +	1
GenelD:99003	Qser1	2	104,754,795	104,816,696	61,901 -	1
GenelD:71928	2310047K21Rik	2	104,810,764	104,818,683	7,919 +	1
GenelD:98221	Eif3m	2	104,999,656	105,017,027	17,371 -	1
GenelD:329480	Al314831	2	105,076,538	105,126,510	49,972 -	3
GenelD:22431	Wt1	2	105,126,529	105,173,614	47,085 +	3
GenelD:19672	Rcn1	2	105,385,948	105,399,319	13,371 -	1
GenelD:12064	Bdnf	2	109,674,700	109,727,043	52,343 +	1
GenelD:10003845	Gm13939	2	109,902,396	109,913,319	10,923 -	1
GenelD:107515	Lgr4	2	109,917,647	110,014,257	96,610 +	1
GenelD:213765	Nutm1	2	112,247,948	112,259,291	11,343 -	1
GenelD:66181	Nop10	2	112,261,969	112,262,898	929 +	1
GenelD:107723	Slc12a6	2	112,266,314	112,363,163	96,849 +	1
GenelD:320870	E330013P08Rik	2	112,268,981	112,272,586	3,605 +	1
GenelD:72425	Katnbl1	2	112,379,211	112,414,237	35,026 +	1
GenelD:23892	Grem1	2	113,748,675	113,758,648	9,973 -	2
GenelD:17536	Meis2	2	115,861,264	116,065,058	203,794 -	1
GenelD:72603	2700033N17Rik	2	116,066,216	116,067,444	1,228 -	1

GenelD:114715	Spred1	2	117,121,450	117,179,337	57,887 +	1
GenelD:68215	Fam98b	2	117,249,739	117,271,540	21,801 +	1
GenelD:27103	Eif2ak4	2	118,388,617	118,475,234	86,617 +	2
GenelD:20813	Srp14	2	118,475,843	118,479,696	3,853 -	1
GenelD:12236	Bub1b	2	118,598,211	118,641,592	43,381 +	1
GenelD:214230	Pak6	2	118,663,577	118,698,020	34,443 +	3
GenelD:383787	Ankrd63	2	118,699,103	118,703,963	4,860 -	2
GenelD:18796	Plcb2	2	118,707,517	118,728,438	20,921 -	1
GenelD:10004327	5430417L22Rik	2	118,745,762	118,748,807	3,045 +	1
GenelD:214239	A430105I19Rik	2	118,754,145	118,762,661	8,516 -	2
GenelD:228536	Bahd1	2	118,901,615	118,924,524	22,909 +	1
GenelD:269336	Ccdc32	2	119,017,779	119,029,393	11,614 -	1
GenelD:271842	Rpusd2	2	119,034,790	119,042,198	7,408 +	2
GenelD:76464	Casc5	2	119,047,119	119,104,121	57,002 +	2
GenelD:19361	Rad51	2	119,112,817	119,136,070	23,253 +	1
GenelD:67809	Rmdn3	2	119,136,998	119,157,034	20,036 -	1
GenelD:320415	Gchfr	2	119,167,788	119,172,389	4,601 +	1
GenelD:69408	Dnajc17	2	119,172,500	119,208,795	36,295 -	1
GenelD:623781	Gm14137	2	119,174,509	119,177,575	3,066 +	1
GenelD:72112	Ppp1r14d	2	119,218,123	119,229,865	11,742 -	1
GenelD:20732	Spint1	2	119,237,360	119,249,514	12,154 +	1
GenelD:10004360	Gm14207	2	119,321,199	119,326,197	4,998 -	1
GenelD:54485	Dll4	2	119,325,784	119,335,666	9,882 +	1
GenelD:68142	Ino80	2	119,373,042	119,477,629	104,587 -	1
GenelD:56398	Chp1	2	119,547,707	119,587,024	39,317 +	1
GenelD:66602	1700020I14Rik	2	119,594,296	119,600,746	6,450 +	1
GenelD:625328	H3f3c	2	119,665,491	119,666,152	661 -	1
GenelD:76246	Rtf1	2	119,675,068	119,735,407	60,339 +	3
GenelD:228550	Itpka	2	119,742,337	119,751,253	8,916 +	2
GenelD:17005	Ltk	2	119,751,326	119,760,431	9,105 -	2
GenelD:22174	Tyro3	2	119,799,514	119,818,104	18,590 +	2
GenelD:70715	6330405D24Rik	2	119,870,361	119,878,403	8,042 -	1
GenelD:29808	Mga	2	119,897,228	119,969,581	72,353 +	1
GenelD:20402	Zfp106	2	120,506,830	120,563,831	57,001 -	1
GenelD:20619	Snap23	2	120,567,671	120,600,722	33,051 +	1
GenelD:68968	Cdan1	2	120,716,154	120,731,517	15,363 -	1
GenelD:140810	Ttbk2	2	120,732,816	120,850,584	117,768 -	2
GenelD:10050270	AV039307	2	120,850,656	120,866,690	16,034 +	1
GenelD:22222	Ubr1	2	120,860,272	120,970,715	110,443 -	1
GenelD:329504	Lcmt2	2	121,137,292	121,140,698	3,406 -	1
GenelD:75894	Adal	2	121,142,141	121,156,678	14,537 +	1
GenelD:99334	Zscan29	2	121,157,427	121,171,149	13,722 -	1
GenelD:51885	Tubgcp4	2	121,171,206	121,197,118	25,912 +	1
GenelD:212670	Catsper2	2	121,394,355	121,413,792	19,437 -	1
GenelD:14827	Pdia3	2	121,413,902	121,438,687	24,785 +	1
GenelD:269344	Ell3	2	121,439,027	121,442,601	3,574 -	1
GenelD:378702	Serf2	2	121,449,228	121,453,426	4,198 +	1

GenelD:574418	Serinc4	2	121,451,177	121,456,764	5,587 -	1
GenelD:67693	Hypk	2	121,457,088	121,458,440	1,352 +	1
GenelD:319996	Casc4	2	121,866,970	121,936,220	69,250 +	1
GenelD:17147	Mageb3	2	121,953,771	121,956,092	2,321 -	1
GenelD:329506	Ctdspl2	2	121,956,453	122,013,586	57,133 +	1
GenelD:78655	Eif3j1	2	122,028,623	122,053,629	25,006 +	1
GenelD:214585	Spg11	2	122,053,526	122,118,386	64,860 -	1
GenelD:67578	Patl2	2	122,120,108	122,186,189	66,081 -	1
GenelD:99439	Duox1	2	122,315,672	122,347,972	32,300 +	1
GenelD:435684	Shf	2	122,348,892	122,368,918	20,026 -	1
GenelD:214616	Spata5l1	2	122,630,625	122,636,477	5,852 +	1
GenelD:433470	AA467197	2	122,637,887	122,641,076	3,189 +	1
GenelD:387165	Mir147	2	122,640,803	122,640,881	78 +	1
GenelD:22785	Slc30a4	2	122,681,239	122,702,663	21,424 -	1
GenelD:18457	Bloc1s6	2	122,738,505	122,749,487	10,982 +	1
GenelD:214968	Sema6d	2	124,610,296	124,667,770	57,474 +	1
GenelD:110074	Dut	2	125,247,248	125,259,049	11,801 +	1
GenelD:14118	Fbn1	2	125,300,594	125,506,438	205,844 -	2
GenelD:70354	Secisbp2l	2	125,736,986	125,782,870	45,884 -	1
GenelD:12848	Cops2	2	125,830,304	125,859,018	28,714 -	1
GenelD:69976	Galk2	2	125,859,218	125,984,298	125,080 +	1
GenelD:75823	Fam227b	2	125,983,628	126,146,251	162,623 -	1
GenelD:69185	Dtwd1	2	126,152,141	126,165,277	13,136 +	1
GenelD:26458	Slc27a2	2	126,553,024	126,588,243	35,219 +	1
GenelD:14391	Gabpb1	2	126,628,913	126,675,487	46,574 -	1
GenelD:58800	Trpm7	2	126,791,558	126,876,261	84,703 -	1
GenelD:320632	Snrnp200	2	127,208,404	127,240,451	32,047 +	1
GenelD:26371	Ciao1	2	127,240,938	127,247,816	6,878 -	1
GenelD:69470	Tmem127	2	127,247,975	127,260,764	12,789 +	2
GenelD:545459	Gm10766	2	127,269,458	127,270,438	980 -	1
GenelD:99138	Stard7	2	127,270,229	127,298,934	28,705 +	1
GenelD:56461	Kcnp3	2	127,456,498	127,521,370	64,872 -	1
GenelD:72180	Zfp661	2	127,575,533	127,584,677	9,144 -	1
GenelD:77721	Mrps5	2	127,587,426	127,603,986	16,560 +	1
GenelD:12235	Bub1	2	127,800,200	127,831,859	31,659 -	1
GenelD:74121	Acox1	2	127,854,628	128,123,893	269,265 +	1
GenelD:12125	Bcl2l11	2	128,126,038	128,162,547	36,509 +	1
GenelD:17222	Anapc1	2	128,610,083	128,687,395	77,312 -	1
GenelD:17289	Mertk	2	128,698,997	128,802,187	103,190 +	1
GenelD:72477	Tmem87b	2	128,818,303	128,854,261	35,958 +	1
GenelD:57432	Zc3h8	2	128,926,268	128,944,020	17,752 -	1
GenelD:668894	Gm14025	2	129,025,073	129,048,166	23,093 -	1
GenelD:10050338	Gm14022	2	129,058,887	129,065,911	7,024 -	1
GenelD:69737	Ttl	2	129,065,947	129,096,283	30,336 +	1
GenelD:20515	Slc20a1	2	129,198,773	129,211,615	12,842 +	1
GenelD:70466	Ckap2l	2	129,268,210	129,297,212	29,002 -	1
GenelD:10050346	Gm14023	2	129,297,370	129,307,826	10,456 +	1

GenelD:16175	Il1a	2	129,299,610	129,309,972	10,362 -	1
GenelD:654409	4932416H05Rik	2	129,798,369	129,801,459	3,090 -	1
GenelD:67333	Stk35	2	129,800,517	129,832,287	31,770 +	1
GenelD:20638	Snrpb	2	130,171,636	130,179,364	7,728 -	1
GenelD:192140	Tmc2	2	130,195,194	130,264,445	69,251 +	1
GenelD:67134	Nop56	2	130,274,412	130,279,313	4,901 +	1
GenelD:10021745	Snord110	2	130,275,515	130,275,573	58 +	1
GenelD:10021742	Snord57	2	130,278,026	130,278,088	62 +	1
GenelD:170718	Idh3b	2	130,279,309	130,284,451	5,142 -	1
GenelD:228598	Ebf4	2	130,295,939	130,370,481	74,542 +	2
GenelD:19262	Ptpa	2	130,450,278	130,554,300	104,022 +	1
GenelD:321014	4930473A02Rik	2	130,543,791	130,563,749	19,958 -	1
GenelD:99045	Mrps26	2	130,563,757	130,565,394	1,637 +	1
GenelD:140629	Ubox5	2	130,589,996	130,630,038	40,042 -	2
GenelD:380601	Fastkd5	2	130,613,838	130,630,027	16,189 -	2
GenelD:241638	Lzts3	2	130,632,839	130,642,803	9,964 -	2
GenelD:269356	Slc4a11	2	130,684,108	130,697,519	13,411 -	1
GenelD:613258	A730017L22Rik	2	130,872,541	130,906,396	33,855 -	1
GenelD:11990	Atrn	2	130,906,496	131,030,329	123,833 +	1
GenelD:72630	Hspa12b	2	131,127,412	131,145,985	18,573 +	1
GenelD:67326	1700037H04Rik	2	131,146,325	131,160,020	13,695 -	1
GenelD:70997	Spef1	2	131,170,261	131,174,810	4,549 -	1
GenelD:12616	Cenpb	2	131,177,289	131,180,012	2,723 -	1
GenelD:12531	Cdc25b	2	131,186,948	131,198,511	11,563 +	1
GenelD:74450	Pank2	2	131,262,500	131,299,188	36,688 +	1
GenelD:51902	Rnf24	2	131,298,488	131,352,892	54,404 -	1
GenelD:228608	Smox	2	131,491,862	131,525,183	33,321 +	1
GenelD:19122	Prnp	2	131,909,928	131,938,431	28,503 +	1
GenelD:215653	Rassf2	2	131,992,850	132,029,988	37,138 -	1
GenelD:54338	Slc23a2	2	132,052,496	132,145,108	92,612 -	1
GenelD:18538	Pcna	2	132,249,286	132,253,180	3,894 -	1
GenelD:110911	Cds2	2	132,263,257	132,312,041	48,784 +	1
GenelD:74182	Gpcpd1	2	132,529,083	132,578,248	49,165 -	1
GenelD:66926	Trmt6	2	132,804,215	132,816,054	11,839 -	1
GenelD:66634	Mcm8	2	132,816,335	132,844,197	27,862 +	1
GenelD:320974	Lrrn4	2	132,868,516	132,880,862	12,346 -	1
GenelD:12156	Bmp2	2	133,553,199	133,562,885	9,686 +	1
GenelD:18795	Plcb1	2	134,786,164	135,475,258	689,094 +	1
GenelD:16449	Jag1	2	137,081,451	137,116,520	35,069 -	2
GenelD:319909	Ism1	2	139,678,178	139,758,581	80,403 +	1
GenelD:12075	Bfsp1	2	143,826,528	143,863,173	36,645 -	1
GenelD:56431	Dstn	2	143,915,331	143,943,324	27,993 +	1
GenelD:81910	Rrbp1	2	143,947,395	144,011,263	63,868 -	1
GenelD:69178	Snx5	2	144,250,123	144,270,902	20,779 -	1
GenelD:10031351	Snord17	2	144,265,982	144,266,202	220 -	1
GenelD:74528	Mgme1	2	144,271,035	144,281,229	10,194 +	1
GenelD:27054	Sec23b	2	144,556,229	144,590,753	34,524 +	1

GenelD:228715	Gm561	2	144,594,065	144,595,365	1,300 +	1
GenelD:66044	Dtd1	2	144,599,953	144,768,747	168,794 +	1
GenelD:67877	Naa20	2	145,903,241	145,916,425	13,184 +	1
GenelD:66877	Crnkl1	2	145,917,482	145,934,700	17,218 -	1
GenelD:78774	4930529M08Rik	2	145,934,784	145,964,226	29,442 +	1
GenelD:53626	Insm1	2	146,221,997	146,225,020	3,023 +	3
GenelD:24128	Xrn2	2	147,013,060	147,078,000	64,940 +	1
GenelD:15376	Foxa2	2	148,042,878	148,046,969	4,091 -	1
GenelD:20608	Sstr4	2	148,395,377	148,396,764	1,387 +	1
GenelD:21824	Thbd	2	148,404,471	148,408,188	3,717 -	1
GenelD:56488	Nxt1	2	148,672,615	148,676,026	3,411 +	1
GenelD:74533	Gzf1	2	148,681,120	148,692,949	11,829 +	1
GenelD:13010	Cst3	2	148,871,732	148,875,468	3,736 -	1
GenelD:433485	Syndig1	2	149,830,783	150,004,392	173,609 +	1
GenelD:71881	Apmap	2	150,583,081	150,608,523	25,442 -	1
GenelD:68738	Acss1	2	150,618,111	150,668,240	50,129 -	2
GenelD:109344	E130215H24Rik	2	150,667,494	150,668,932	1,438 +	1
GenelD:110078	Pygb	2	150,786,796	150,831,748	44,952 +	1
GenelD:78177	Ninl	2	150,934,519	151,009,398	74,879 -	1
GenelD:14225	Fkbp1a	2	151,542,499	151,561,691	19,192 +	1
GenelD:228769	Psmf1	2	151,716,062	151,741,293	25,231 -	1
GenelD:75283	4930556L07Rik	2	151,747,578	151,751,425	3,847 -	1
GenelD:545474	Scrt2	2	152,081,529	152,095,802	14,273 +	2
GenelD:76650	Srxn1	2	152,105,524	152,111,376	5,852 +	1
GenelD:12995	Csnk2a1	2	152,226,840	152,281,852	55,012 +	1
GenelD:67231	Tbc1d20	2	152,293,872	152,312,590	18,718 +	1
GenelD:24105	Rbck1	2	152,316,334	152,332,639	16,305 -	1
GenelD:228775	Trib3	2	152,337,425	152,344,060	6,635 -	1
GenelD:20667	Sox12	2	152,393,611	152,398,046	4,435 -	1
GenelD:67917	Zcchc3	2	152,411,956	152,415,044	3,088 -	1
GenelD:228778	6820408C15Rik	2	152,415,587	152,444,328	28,741 +	1
GenelD:654459	Defb25	2	152,622,356	152,623,053	697 -	1
GenelD:19700	Rem1	2	152,627,008	152,635,191	8,183 +	2
GenelD:14950	H13	2	152,669,461	152,708,668	39,207 +	3
GenelD:15901	Id1	2	152,736,274	152,737,410	1,136 +	1
GenelD:12048	Bcl2l1	2	152,780,668	152,831,682	51,014 -	2
GenelD:72119	Tpx2	2	152,847,964	152,895,321	47,357 +	1
GenelD:228785	Mylk2	2	152,911,352	152,923,065	11,713 +	1
GenelD:14239	Foxs1	2	152,931,898	152,933,208	1,310 -	2
GenelD:252864	Dusp15	2	152,940,995	152,951,582	10,587 -	2
GenelD:74711	Ttll9	2	152,962,485	153,008,482	45,997 +	1
GenelD:68559	Pdrg1	2	153,008,890	153,015,383	6,493 -	1
GenelD:228787	Xkr7	2	153,031,852	153,055,775	23,923 +	1
GenelD:16569	Kif3b	2	153,291,416	153,333,390	41,974 +	1
GenelD:72326	2500004C02Rik	2	153,341,157	153,345,810	4,653 -	1
GenelD:228790	Asxl1	2	153,346,139	153,404,007	57,868 +	1
GenelD:329540	8430427H17Rik	2	153,407,461	153,529,971	122,510 -	3

GenelD:228792	7530422B04Rik	2	153,648,690	153,650,635	1,945 -	1
GenelD:13436	Dnmt3b	2	153,649,454	153,687,730	38,276 +	1
GenelD:20648	Snta1	2	154,376,314	154,408,084	31,770 -	1
GenelD:12396	Cbfa2t2	2	154,436,484	154,539,356	102,872 +	1
GenelD:56846	Necab3	2	154,544,405	154,558,853	14,448 -	1
GenelD:13555	E2f1	2	154,559,639	154,569,852	10,213 -	1
GenelD:59038	Pxmp4	2	154,587,044	154,603,673	16,629 -	1
GenelD:228807	Zfp341	2	154,613,368	154,646,817	33,449 +	1
GenelD:75608	Chmp4b	2	154,657,026	154,694,783	37,757 +	1
GenelD:19383	Raly	2	154,791,110	154,867,261	76,151 +	1
GenelD:67204	Eif2s2	2	154,871,410	154,892,906	21,496 -	1
GenelD:16396	Itch	2	155,133,481	155,226,855	93,374 +	1
GenelD:68728	Trp53inp2	2	155,381,856	155,389,847	7,991 +	1
GenelD:56406	Ncoa6	2	155,390,656	155,440,783	50,127 -	1
GenelD:56407	Trpc4ap	2	155,634,277	155,692,384	58,107 -	1
GenelD:108687	Edem2	2	155,701,673	155,729,475	27,802 -	1
GenelD:17391	Mmp24	2	155,775,344	155,818,366	43,022 +	1
GenelD:613262	BC029722	2	155,817,730	155,819,203	1,473 -	1
GenelD:16418	Eif6	2	155,819,837	155,826,925	7,088 -	1
GenelD:71405	Fam83c	2	155,829,183	155,834,854	5,671 -	1
GenelD:16328	Cep250	2	155,956,558	155,998,900	42,342 +	1
GenelD:245865	Spag4	2	156,065,213	156,069,499	4,286 +	1
GenelD:266692	Cpne1	2	156,071,841	156,111,965	40,124 -	2
GenelD:75710	Rbm12	2	156,094,882	156,111,965	17,083 -	1
GenelD:18041	Nfs1	2	156,123,637	156,144,186	20,549 -	1
GenelD:67067	Romo1	2	156,144,153	156,145,794	1,641 +	1
GenelD:170791	Rbm39	2	156,147,239	156,180,240	33,001 -	2
GenelD:10105585	LOC101055858	2	156,180,330	156,180,750	420 +	1
GenelD:228829	Phf20	2	156,196,647	156,309,953	113,306 +	2
GenelD:19018	Scand1	2	156,311,846	156,312,704	858 -	1
GenelD:70873	Cnbd2	2	156,312,473	156,375,638	63,165 +	1
GenelD:632394	Gm14251	2	156,322,402	156,322,680	278 +	1
GenelD:668941	Gm14173	2	156,410,842	156,411,180	338 -	1
GenelD:13821	Epb4.111	2	156,421,052	156,543,214	122,162 +	1
GenelD:10050435	Gm14169	2	156,609,198	156,613,422	4,224 -	1
GenelD:228836	Dlgap4	2	156,613,705	156,764,363	150,658 +	2
GenelD:74846	4930405A21Rik	2	156,714,539	156,720,909	6,370 -	1
GenelD:10050436	Gm14230	2	156,829,851	156,839,919	10,068 -	1
GenelD:228839	Tgif2	2	156,840,077	156,855,532	15,455 +	2
GenelD:74487	5430405H02Rik	2	156,852,403	156,862,945	10,542 -	1
GenelD:74704	4930518I15Rik	2	156,856,615	156,858,069	1,454 -	1
GenelD:67388	1110008F13Rik	2	156,863,122	156,873,563	10,441 +	1
GenelD:77799	Sla2	2	156,872,922	156,887,078	14,156 -	1
GenelD:66934	Dsn1	2	156,995,062	157,007,075	12,013 -	1
GenelD:320706	Soga1	2	157,010,442	157,079,265	68,823 -	2
GenelD:383766	Tldc2	2	157,087,055	157,096,481	9,426 +	1
GenelD:56045	Samhd1	2	157,097,529	157,135,222	37,693 -	1

GenelD:19650	Rbl1	2	157,145,893	157,204,534	58,641 -	1
GenelD:629499	Mroh8	2	157,208,550	157,279,549	70,999 -	2
GenelD:20014	Rpn2	2	157,279,098	157,326,318	47,220 +	1
GenelD:69161	Manbal	2	157,367,594	157,396,763	29,169 +	1
GenelD:53619	Blcap	2	157,556,362	157,566,361	9,999 -	2
GenelD:18111	Nnat	2	157,560,110	157,562,522	2,412 +	2
GenelD:68108	9430008C03Rik	2	158,353,700	158,361,522	7,822 -	1
GenelD:228850	Ralgapb	2	158,409,853	158,499,253	89,400 +	1
GenelD:228852	Ppp1r16b	2	158,666,733	158,766,334	99,601 +	2
GenelD:71878	Fam83d	2	158,768,099	158,786,637	18,538 +	1
GenelD:16658	Mafb	2	160,363,677	160,367,065	3,388 -	1
GenelD:21969	Top1	2	160,645,897	160,722,764	76,867 +	2
GenelD:18803	Plcg1	2	160,731,310	160,775,760	44,450 +	1
GenelD:320799	Zhx3	2	160,770,447	160,872,990	102,543 -	1
GenelD:64899	Lpin3	2	160,880,670	160,906,000	25,330 +	2
GenelD:280635	Emilin3	2	160,906,438	160,912,328	5,890 -	1
GenelD:67996	Srsf6	2	162,931,508	162,937,121	5,613 +	1
GenelD:27219	Sgk2	2	162,987,481	163,014,127	26,646 +	1
GenelD:245866	Ift52	2	163,017,472	163,046,135	28,663 +	2
GenelD:17865	Mybl2	2	163,054,635	163,084,687	30,052 +	1
GenelD:66680	3230401D17Rik	2	163,405,822	163,419,470	13,648 -	1
GenelD:228859	Fitm2	2	163,468,703	163,472,629	3,926 -	1
GenelD:69517	2310001K24Rik	2	163,472,545	163,473,003	458 +	1
GenelD:26943	Serinc3	2	163,623,273	163,645,143	21,870 -	1
GenelD:68386	0610039K10Rik	2	163,644,850	163,645,800	950 +	1
GenelD:54401	Ywhab	2	163,995,197	164,018,587	23,390 +	1
GenelD:67145	Tommm34	2	164,053,541	164,071,102	17,561 -	1
GenelD:58231	Stk4	2	164,074,178	164,155,521	81,343 +	1
GenelD:16538	Kcns1	2	164,163,619	164,171,113	7,494 -	1
GenelD:209232	Wfdc5	2	164,176,325	164,182,742	6,417 -	1
GenelD:20971	Sdc4	2	164,424,247	164,443,188	18,941 -	1
GenelD:66460	Sys1	2	164,460,971	164,465,510	4,539 +	1
GenelD:73603	Trp53tg5	2	164,470,301	164,473,718	3,417 -	1
GenelD:52840	Dbn1d2	2	164,486,140	164,493,323	7,183 +	2
GenelD:78928	Pigt	2	164,497,525	164,508,301	10,776 +	1
GenelD:71856	Wfdc3	2	164,731,226	164,743,267	12,041 -	1
GenelD:10105592	LOC101055924	2	164,743,565	164,745,931	2,366 -	1
GenelD:76233	Dnttip1	2	164,746,015	164,768,220	22,205 +	1
GenelD:21925	Tnnc2	2	164,777,161	164,779,734	2,573 -	1
GenelD:101113	Snx21	2	164,786,021	164,792,770	6,749 +	1
GenelD:170789	Acot8	2	164,792,768	164,804,881	12,113 -	1
GenelD:71971	Zswim1	2	164,822,686	164,826,867	4,181 +	2
GenelD:75642	Spata25	2	164,827,382	164,828,534	1,152 -	2
GenelD:415115	Neur12	2	164,830,730	164,833,596	2,866 -	2
GenelD:19025	Ctsa	2	164,832,873	164,841,032	8,159 +	2
GenelD:18830	Pltp	2	164,839,518	164,857,708	18,190 -	3
GenelD:228866	Pcif1	2	164,879,368	164,891,437	12,069 +	1

GenelD:329559	Zfp335	2	164,891,892	164,911,750	19,858 -	1
GenelD:629777	Gm11458	2	164,911,360	164,919,953	8,593 +	1
GenelD:57138	Slc12a5	2	164,967,988	164,999,731	31,743 +	1
GenelD:228869	Ncoa5	2	165,000,357	165,034,779	34,422 -	1
GenelD:228875	Slc35c2	2	165,276,522	165,287,838	11,316 -	1
GenelD:140579	Elmo2	2	165,288,031	165,326,479	38,448 -	2
GenelD:114644	Slc13a3	2	165,405,295	165,473,197	67,902 -	1
GenelD:17979	Ncoa3	2	165,992,637	166,073,242	80,605 +	1
GenelD:72043	Sulf2	2	166,073,899	166,155,683	81,784 -	1
GenelD:277360	Prex1	2	166,566,345	166,713,832	147,487 -	1
GenelD:76367	Trp53rk	2	166,793,767	166,799,492	5,725 +	1
GenelD:99371	Arfgef2	2	166,805,581	166,898,052	92,471 +	2
GenelD:110750	Cse1l	2	166,906,096	166,946,389	40,293 +	1
GenelD:20853	Stau1	2	166,948,141	166,996,278	48,137 -	1
GenelD:228889	Ddx27	2	167,015,313	167,034,945	19,632 +	1
GenelD:98999	Znfx1	2	167,035,793	167,063,015	27,222 -	1
GenelD:68949	1500012F01Rik	2	167,062,934	167,065,862	2,928 +	1
GenelD:10021744	Snord12	2	167,065,293	167,065,358	65 +	1
GenelD:16500	Kcnb1	2	167,095,969	167,188,818	92,849 -	1
GenelD:19223	Ptgis	2	167,203,196	167,240,537	37,341 -	1
GenelD:263876	Spata2	2	167,481,136	167,492,874	11,738 -	1
GenelD:81018	Rnf114	2	167,492,645	167,516,166	23,521 +	2
GenelD:20613	Snai1	2	167,538,227	167,542,814	4,587 +	2
GenelD:66589	Ube2v1	2	167,607,639	167,632,005	24,366 -	1
GenelD:407243	Tmem189	2	167,643,225	167,661,544	18,319 -	1
GenelD:12608	Cebpb	2	167,688,915	167,690,418	1,503 +	1
GenelD:329562	A530013C23Rik	2	167,691,208	167,697,413	6,205 +	1
GenelD:19246	Ptpn1	2	167,932,327	167,979,385	47,058 +	1
GenelD:58220	Pard6b	2	168,081,004	168,101,203	20,199 +	1
GenelD:11538	Adnp	2	168,180,965	168,207,062	26,097 -	1
GenelD:13480	Dpm1	2	168,209,048	168,230,379	21,331 -	2
GenelD:69372	Mocs3	2	168,230,622	168,232,303	1,681 +	1
GenelD:22722	Zfp64	2	168,925,361	168,955,587	30,226 -	1
GenelD:228911	Tshz2	2	169,633,646	169,888,504	254,858 +	1
GenelD:109054	Pfdn4	2	170,496,428	170,519,070	22,642 +	1
GenelD:10050294	Gm16796	2	170,499,357	170,511,927	12,570 -	1
GenelD:228942	Cbln4	2	172,036,336	172,043,466	7,130 -	1
GenelD:67017	Fam210b	2	172,345,577	172,355,749	10,172 +	1
GenelD:12162	Bmp7	2	172,869,686	172,940,293	70,607 -	1
GenelD:26972	Spo11	2	172,979,842	172,993,576	13,734 +	1
GenelD:66679	Rae1	2	173,000,117	173,015,739	15,622 +	2
GenelD:56190	Rbm38	2	173,021,902	173,034,734	12,832 +	1
GenelD:19334	Rab22a	2	173,659,845	173,702,182	42,337 +	1
GenelD:56491	Vapb	2	173,737,571	173,784,336	46,765 +	1
GenelD:228960	Stx16	2	174,077,051	174,099,771	22,720 +	1
GenelD:14683	Gnas	2	174,284,320	174,346,744	62,424 +	2
GenelD:64138	Ctsz	2	174,427,494	174,438,992	11,498 -	1

GenelD:320558	Sycp2	2	178,345,295	178,407,658	62,363 -	1
GenelD:228966	Ppp1r3d	2	178,411,206	178,414,472	3,266 -	1
GenelD:71532	Fam217b	2	178,414,534	178,422,177	7,643 +	1
GenelD:228980	Taf4a	2	179,912,146	179,976,646	64,500 -	2
GenelD:66730	4921531C22Rik	2	179,976,853	179,979,013	2,160 +	2
GenelD:241846	Lsm14b	2	180,024,987	180,035,461	10,474 +	2
GenelD:26444	Psm7	2	180,036,376	180,042,402	6,026 -	1
GenelD:269397	Ss18l1	2	180,042,483	180,070,201	27,718 +	1
GenelD:228983	Osbpl2	2	180,119,366	180,162,680	43,314 +	2
GenelD:56436	Adrm1	2	180,171,588	180,176,283	4,695 +	1
GenelD:16776	Lama5	2	180,176,373	180,225,859	49,486 -	2
GenelD:73247	Mrgbp	2	180,581,304	180,585,634	4,330 +	1
GenelD:72075	Ogfr	2	180,589,407	180,595,837	6,430 +	1
GenelD:23856	Dido1	2	180,657,964	180,709,999	52,035 -	2
GenelD:76425	Gid8	2	180,712,546	180,718,517	5,971 +	2
GenelD:140489	Bhlhe23	2	180,774,381	180,776,900	2,519 -	1
GenelD:228994	Ythdf1	2	180,904,377	180,920,936	16,559 -	1
GenelD:329581	Birc7	2	180,929,023	180,934,010	4,987 +	1
GenelD:228998	Arfgap1	2	180,967,225	180,982,524	15,299 +	1
GenelD:66496	Pdpf	2	181,187,343	181,188,504	1,161 +	1
GenelD:20459	Ptk6	2	181,195,124	181,202,789	7,665 -	1
GenelD:269400	Rtel1	2	181,319,724	181,356,616	36,892 +	1
GenelD:76688	Arfrp1	2	181,357,690	181,365,404	7,714 -	1
GenelD:229007	Zgpat	2	181,364,931	181,380,793	15,862 +	1
GenelD:72147	Zbtb46	2	181,390,886	181,459,426	68,540 -	2
GenelD:241850	Abhd16b	2	181,493,206	181,494,980	1,774 +	1
GenelD:66314	Tpd52l2	2	181,497,253	181,516,757	19,504 +	2
GenelD:13002	Dnajc5	2	181,520,505	181,552,249	31,744 +	1
GenelD:68556	Uckl1	2	181,569,152	181,581,973	12,821 -	1
GenelD:10027184	Gm16119	2	181,578,480	181,585,115	6,635 +	1
GenelD:269401	Znf512b	2	181,582,103	181,592,461	10,358 -	1
GenelD:20672	Sox18	2	181,669,837	181,671,640	1,803 -	2
GenelD:21400	Tcea2	2	181,680,310	181,688,051	7,741 +	3
GenelD:56470	Rgs19	2	181,688,423	181,693,924	5,501 -	2
GenelD:277496	4930526D03Rik	2	181,696,795	181,698,442	1,647 -	1
GenelD:19302	Pex2	3	5,560,188	5,576,248	16,060 -	1
GenelD:18767	Pkia	3	7,366,604	7,445,366	78,762 +	1
GenelD:21985	Tpd52	3	8,929,436	9,004,515	75,079 -	1
GenelD:229055	Zbtb10	3	9,250,567	9,285,333	34,766 +	1
GenelD:94212	Pag1	3	9,687,479	9,833,679	146,200 -	1
GenelD:55980	Impa1	3	10,313,540	10,331,439	17,899 -	1
GenelD:241877	Slc10a5	3	10,331,734	10,335,656	3,922 -	1
GenelD:66361	Zfand1	3	10,339,956	10,351,301	11,345 -	1
GenelD:76897	Raly1	3	13,471,655	14,182,287	710,632 +	1
GenelD:71710	Lrrcc1	3	14,533,788	14,572,658	38,870 +	1
GenelD:13559	E2f5	3	14,578,671	14,606,309	27,638 +	1
GenelD:229096	Ythdf3	3	16,183,183	16,217,037	33,854 +	1

GenelD:18583	Pde7a	3	19,225,918	19,311,322	85,404 -	1
GenelD:12807	Hps3	3	19,995,945	20,035,310	39,365 -	1
GenelD:27357	Gyg	3	20,122,084	20,155,096	33,012 -	1
GenelD:10004035	2810416G20Rik	3	22,074,411	22,078,707	4,296 -	1
GenelD:81004	Tbl1xr1	3	22,076,652	22,216,594	139,942 +	1
GenelD:13605	Ect2	3	27,097,222	27,153,878	56,656 -	1
GenelD:76657	1700125G22Rik	3	27,154,026	27,157,019	2,993 +	1
GenelD:72007	Fndc3b	3	27,416,162	27,710,439	294,277 -	1
GenelD:665113	Tnik	3	28,263,214	28,670,585	407,371 +	1
GenelD:208691	Eif5a2	3	28,781,311	28,798,846	17,535 +	1
GenelD:69276	Sec62	3	30,792,876	30,821,263	28,387 +	1
GenelD:71862	Gpr160	3	30,855,950	30,897,192	41,242 +	1
GenelD:241915	Phc3	3	30,899,295	30,969,415	70,120 -	1
GenelD:18759	Prkci	3	30,995,771	31,052,740	56,969 +	1
GenelD:20482	Skil	3	31,095,061	31,122,577	27,516 +	1
GenelD:67778	Zfp639	3	32,510,550	32,520,833	10,283 +	2
GenelD:67414	Mfn1	3	32,529,482	32,579,225	49,743 +	1
GenelD:56456	Actl6a	3	32,708,546	32,726,971	18,425 +	1
GenelD:72607	Usp13	3	32,817,626	32,935,257	117,631 +	1
GenelD:67120	Ttc14	3	33,800,195	33,816,634	16,439 +	1
GenelD:320478	Sox2ot	3	34,560,381	34,677,993	117,612 +	1
GenelD:20674	Sox2	3	34,650,005	34,652,461	2,456 +	1
GenelD:72039	Mccc1	3	35,959,296	36,000,678	41,382 -	1
GenelD:654424	A330050B17Rik	3	35,999,913	36,008,828	8,915 +	1
GenelD:241943	Ccdc144b	3	36,007,247	36,053,547	46,300 -	1
GenelD:229211	Acad9	3	36,066,000	36,092,857	26,857 +	1
GenelD:50911	Exosc9	3	36,552,606	36,565,727	13,121 +	1
GenelD:12428	Ccna2	3	36,564,865	36,571,996	7,131 -	1
GenelD:71492	Bbs7	3	36,573,143	36,613,389	40,246 -	1
GenelD:229228	Nudt6	3	37,404,984	37,419,590	14,606 -	1
GenelD:57815	Spata5	3	37,420,280	37,579,095	158,815 +	1
GenelD:24063	Spry1	3	37,639,950	37,644,599	4,649 +	1
GenelD:99696	Ankrd50	3	38,449,261	38,484,816	35,555 -	1
GenelD:329628	Fat4	3	38,886,940	39,011,985	125,045 +	2
GenelD:18415	Hspa4l	3	40,745,613	40,790,365	44,752 +	1
GenelD:20873	Plk4	3	40,799,951	40,816,883	16,932 +	1
GenelD:214048	Larp1b	3	40,950,631	40,977,793	27,162 +	1
GenelD:70804	Pgrmc2	3	41,066,326	41,083,046	16,720 -	1
GenelD:269424	Phf17	3	41,555,734	41,616,864	61,130 +	1
GenelD:12457	Ccrn4l	3	51,224,447	51,251,654	27,207 +	1
GenelD:69257	Elf2	3	51,255,665	51,325,987	70,322 -	1
GenelD:67746	4930577N17Rik	3	51,276,761	51,278,292	1,531 +	1
GenelD:66377	Ndufc1	3	51,405,479	51,408,955	3,476 -	1
GenelD:74838	Naa15	3	51,416,016	51,475,985	59,969 +	1
GenelD:73251	Setd7	3	51,515,318	51,560,823	45,505 -	1
GenelD:10003968	5031434O11Rik	3	51,559,757	51,567,117	7,360 +	1
GenelD:433586	Maml3	3	51,687,611	52,105,006	417,395 -	2

GenelD:56458	Foxo1	3	52,268,337	52,350,109	81,772 +	1
GenelD:108927	Lhfp	3	53,041,547	53,261,679	220,132 +	1
GenelD:212114	Nhlrc3	3	53,451,996	53,463,258	11,262 -	2
GenelD:212127	Proser1	3	53,463,817	53,481,755	17,938 +	2
GenelD:242022	Frem2	3	53,513,938	53,657,355	143,417 -	1
GenelD:67890	Ufm1	3	53,853,376	53,863,807	10,431 -	1
GenelD:69639	Exosc8	3	54,728,679	54,735,364	6,685 -	1
GenelD:66248	Alg5	3	54,735,539	54,749,795	14,256 +	1
GenelD:12427	Ccna1	3	55,045,469	55,055,055	9,586 -	1
GenelD:70970	4931419H13Rik	3	55,055,242	55,084,002	28,760 +	1
GenelD:26422	Nbea	3	55,625,198	56,183,701	558,503 -	2
GenelD:17116	Mab2111	3	55,782,510	55,785,287	2,777 +	1
GenelD:97064	Wwtr1	3	57,455,644	57,575,910	120,266 -	1
GenelD:18645	Pfn2	3	57,841,895	57,847,757	5,862 -	1
GenelD:72033	Tsc22d2	3	58,415,689	58,466,787	51,098 +	1
GenelD:28146	Serp1	3	58,521,969	58,525,884	3,915 -	1
GenelD:229317	Eif2a	3	58,525,821	58,557,501	31,680 +	1
GenelD:69227	2810407C02Rik	3	58,576,658	58,593,544	16,886 +	1
GenelD:20439	Siah2	3	58,674,949	58,692,388	17,439 -	1
GenelD:71301	4930593A02Rik	3	58,692,589	58,788,524	95,935 +	1
GenelD:329650	Med12l	3	59,006,978	59,318,416	311,438 +	1
GenelD:56758	Mbnl1	3	60,472,830	60,629,748	156,918 +	1
GenelD:18441	P2ry1	3	61,002,795	61,008,979	6,184 +	1
GenelD:74012	Rap2b	3	61,364,507	61,368,703	4,196 +	1
GenelD:622434	Arhgef26	3	62,338,777	62,462,221	123,444 +	1
GenelD:17380	Mme	3	63,295,872	63,382,231	86,359 +	1
GenelD:329659	E130311K13Rik	3	63,914,696	63,929,385	14,689 -	1
GenelD:229363	Gmps	3	63,976,143	64,019,078	42,935 +	1
GenelD:67437	Ssr3	3	65,379,657	65,392,553	12,896 -	1
GenelD:71004	4931440P22Rik	3	65,527,483	65,529,414	1,931 -	1
GenelD:99929	Tiparp	3	65,528,447	65,555,518	27,071 +	1
GenelD:624866	Lekr1	3	65,666,228	65,831,162	164,934 +	2
GenelD:56706	Ccnl1	3	65,946,151	65,958,225	12,074 -	1
GenelD:109222	Rarres1	3	67,478,886	67,515,523	36,637 -	1
GenelD:10050538	Gm21949	3	67,892,220	68,626,482	734,262 +	1
GenelD:30953	Schip1	3	68,064,802	68,626,482	561,680 +	1
GenelD:68725	1110032F04Rik	3	68,869,586	68,872,163	2,577 +	1
GenelD:68259	lft80	3	68,892,499	69,004,570	112,071 -	1
GenelD:70099	Smc4	3	69,004,972	69,034,623	29,651 +	2
GenelD:387175	Mir15b	3	69,009,772	69,009,835	63 +	1
GenelD:723949	Mir16-2	3	69,009,902	69,009,996	94 +	1
GenelD:66949	Trim59	3	69,035,294	69,044,742	9,448 -	1
GenelD:16649	Kpna4	3	69,072,221	69,127,092	54,871 -	1
GenelD:381452	Gm1647	3	69,131,233	69,157,177	25,944 +	1
GenelD:242083	Ppm1l	3	69,316,918	69,555,404	238,486 +	1
GenelD:97112	Nmd3	3	69,722,055	69,749,047	26,992 +	1
GenelD:73124	Golim4	3	75,876,383	75,956,831	80,448 -	1

GenelD:329679	Fnip2	3	79,455,971	79,567,679	111,708 -	1
GenelD:75879	4930589L23Rik	3	79,568,192	79,572,580	4,388 +	1
GenelD:67738	Ppid	3	79,591,389	79,603,650	12,261 +	1
GenelD:54635	Pdghc	3	81,036,416	81,214,031	177,615 +	1
GenelD:20319	Sfrp2	3	83,766,321	83,774,314	7,993 +	1
GenelD:229473	D930015E06Rik	3	83,898,287	84,040,161	141,874 -	1
GenelD:229474	Fhdc1	3	84,442,196	84,480,439	38,243 -	1
GenelD:99889	Arfp1	3	84,496,063	84,586,143	90,080 -	1
GenelD:50754	Fbxw7	3	84,815,577	84,979,198	163,621 +	1
GenelD:20091	Rps3a1	3	86,137,940	86,142,668	4,728 -	1
GenelD:19870	Snord73a	3	86,138,791	86,138,858	67 -	1
GenelD:19871	Rnu73b	3	86,140,617	86,140,687	70 -	1
GenelD:80877	Lrba	3	86,224,690	86,782,694	558,004 +	1
GenelD:70762	Dclk2	3	86,786,150	86,920,884	134,734 -	1
GenelD:27049	Etv3	3	87,525,578	87,540,156	14,578 +	1
GenelD:213498	Arhgef11	3	87,618,751	87,738,033	119,282 +	1
GenelD:94315	Prcc	3	87,858,903	87,885,562	26,659 -	1
GenelD:15191	Hdgf	3	87,906,321	87,916,132	9,811 +	1
GenelD:67707	Mrpl24	3	87,919,544	87,923,433	3,889 +	1
GenelD:229503	Rrnad1	3	87,922,601	87,930,195	7,594 -	1
GenelD:229504	Isg20l2	3	87,930,314	87,940,686	10,372 +	1
GenelD:18008	Nes	3	87,971,093	87,980,451	9,358 +	1
GenelD:12032	Bcan	3	87,987,531	88,000,356	12,825 -	1
GenelD:73940	Hapl2	3	88,021,750	88,027,511	5,761 -	1
GenelD:10050289	Gm19439	3	88,030,785	88,033,152	2,367 +	2
GenelD:66614	Gpatch4	3	88,043,108	88,055,993	12,885 +	2
GenelD:246703	Apoa1bp	3	88,056,523	88,058,495	1,972 -	1
GenelD:214191	Ttc24	3	88,069,410	88,078,304	8,894 -	1
GenelD:404710	Iqgap3	3	88,082,051	88,121,048	38,997 +	1
GenelD:10050291	Gm19451	3	88,138,135	88,139,398	1,263 -	1
GenelD:17261	Mef2d	3	88,142,395	88,169,167	26,772 +	1
GenelD:10004227	Gm3764	3	88,214,452	88,222,132	7,680 +	1
GenelD:67037	Pmf1	3	88,394,143	88,410,316	16,173 -	1
GenelD:229517	Slc25a44	3	88,410,495	88,425,139	14,644 -	1
GenelD:16905	Lmna	3	88,481,149	88,503,332	22,183 -	2
GenelD:72640	Mex3a	3	88,532,395	88,541,394	8,999 +	3
GenelD:10031680	Mir1905	3	88,536,301	88,536,382	81 -	3
GenelD:53868	Rab25	3	88,542,029	88,548,279	6,250 -	4
GenelD:83409	Lamtor2	3	88,549,819	88,552,927	3,108 -	1
GenelD:94232	Ubqln4	3	88,553,716	88,569,725	16,009 +	1
GenelD:16800	Arhgef2	3	88,616,207	88,648,052	31,845 +	1
GenelD:74200	2810403A07Rik	3	88,685,794	88,712,933	27,139 +	1
GenelD:65111	Dap3	3	88,920,803	88,950,282	29,479 -	1
GenelD:192195	Ash1l	3	88,965,812	89,079,375	113,563 +	1
GenelD:72296	Rusc1	3	89,083,977	89,093,363	9,386 -	1
GenelD:110196	Fdps	3	89,093,588	89,101,967	8,379 -	1
GenelD:12748	Clk2	3	89,164,805	89,177,087	12,282 +	2

GenelD:24045	Scamp3	3	89,177,485	89,182,770	5,285 +	2
GenelD:68521	Fam189b	3	89,183,225	89,189,289	6,064 +	2
GenelD:14466	Gba	3	89,202,928	89,208,681	5,753 +	1
GenelD:17827	Mtx1	3	89,209,081	89,214,335	5,254 -	1
GenelD:21827	Thbs3	3	89,215,187	89,226,837	11,650 +	1
GenelD:68563	Dpm3	3	89,266,552	89,267,077	525 +	1
GenelD:19729	Slc50a1	3	89,268,246	89,270,570	2,324 -	1
GenelD:13636	Efna1	3	89,271,730	89,280,951	9,221 -	2
GenelD:13638	Efna3	3	89,314,951	89,322,879	7,928 -	1
GenelD:10003841	Gm15998	3	89,315,439	89,318,907	3,468 +	1
GenelD:13639	Efna4	3	89,333,393	89,338,028	4,635 -	1
GenelD:10004889	4731419I09Rik	3	89,337,850	89,347,831	9,981 +	1
GenelD:11490	Adam15	3	89,339,640	89,350,010	10,370 -	1
GenelD:22724	Zbtb7b	3	89,377,646	89,393,203	15,557 -	1
GenelD:545539	Gm15417	3	89,391,864	89,398,779	6,915 +	1
GenelD:57275	Lenep	3	89,401,896	89,402,650	754 -	1
GenelD:20416	Shc1	3	89,418,551	89,430,029	11,478 +	1
GenelD:68911	Pygo2	3	89,430,837	89,435,128	4,291 +	1
GenelD:229534	Pbxip1	3	89,436,704	89,450,952	14,248 +	1
GenelD:140493	Kcnn3	3	89,520,164	89,672,494	152,330 +	1
GenelD:56417	Adar	3	89,715,022	89,753,455	38,433 +	1
GenelD:11444	Chrn2	3	89,753,448	89,764,632	11,184 -	3
GenelD:70093	Ube2q1	3	89,773,609	89,783,997	10,388 +	3
GenelD:214547	She	3	89,831,370	89,858,846	27,476 +	1
GenelD:16194	Il6ra	3	89,869,324	89,913,162	43,838 -	1
GenelD:54667	Atp8b2	3	89,939,481	89,963,332	23,851 -	1
GenelD:10012448	Mir190b	3	90,070,020	90,070,099	79 +	1
GenelD:59069	Tpm3	3	90,072,651	90,100,902	28,251 +	1
GenelD:74343	Crtc2	3	90,254,281	90,264,125	9,844 +	1
GenelD:229541	Dennd4b	3	90,266,534	90,280,665	14,131 +	1
GenelD:26568	Slc27a3	3	90,385,233	90,389,927	4,694 -	1
GenelD:229543	Ints3	3	90,391,380	90,433,636	42,256 -	1
GenelD:18160	Npr1	3	90,450,592	90,465,866	15,274 -	1
GenelD:67781	Ilf2	3	90,476,201	90,488,379	12,178 +	1
GenelD:20615	Snapin	3	90,488,026	90,491,013	2,987 -	1
GenelD:66511	Chtop	3	90,498,958	90,509,443	10,485 -	2
GenelD:20193	S100a1	3	90,511,034	90,514,330	3,296 -	1
GenelD:20196	S100a13	3	90,514,435	90,524,581	10,146 +	1
GenelD:271944	C2cd4d	3	94,362,444	94,364,567	2,123 +	1
GenelD:19885	Rorc	3	94,372,826	94,398,239	25,413 +	1
GenelD:76742	Snx27	3	94,497,544	94,582,702	85,158 -	1
GenelD:229584	Pogz	3	94,837,567	94,883,569	46,002 +	1
GenelD:19172	Psmb4	3	94,884,324	94,886,958	2,634 -	1
GenelD:107650	Pi4kb	3	94,974,731	95,006,843	32,112 +	1
GenelD:18720	Pip5k1a	3	95,059,595	95,106,858	47,263 -	2
GenelD:21427	Vps72	3	95,111,042	95,123,051	12,009 +	2
GenelD:20360	Sema6c	3	95,164,374	95,173,316	8,942 +	3

GenelD:213054	Gabpb2	3	95,181,766	95,217,942	36,176 -	1
GenelD:56772	Mllt11	3	95,218,544	95,228,677	10,133 -	1
GenelD:57912	Cdc42se1	3	95,228,780	95,236,409	7,629 +	1
GenelD:229588	Gm128	3	95,236,920	95,241,109	4,189 -	1
GenelD:71790	Anxa9	3	95,296,093	95,307,176	11,083 -	1
GenelD:76193	6330562C20Rik	3	95,307,672	95,315,117	7,445 -	1
GenelD:76893	Cers2	3	95,315,252	95,323,570	8,318 +	1
GenelD:84505	Setdb1	3	95,323,525	95,357,202	33,677 -	1
GenelD:10004330	Gm4349	3	95,427,349	95,431,085	3,736 +	1
GenelD:11863	Arnt	3	95,434,390	95,497,240	62,850 +	1
GenelD:17210	Mcl1	3	95,658,721	95,663,179	4,458 +	1
GenelD:66471	Anp32e	3	95,929,257	95,947,387	18,130 +	1
GenelD:668224	Gm9054	3	95,985,510	95,986,967	1,457 +	1
GenelD:67220	Plekho1	3	95,988,828	95,995,839	7,011 -	1
GenelD:22365	Vps45	3	95,999,832	96,058,455	58,623 -	1
GenelD:229603	Otud7b	3	96,104,527	96,161,129	56,602 +	1
GenelD:621893	Hist2h2ab	3	96,219,916	96,220,308	392 +	1
GenelD:319176	Hist2h2ac	3	96,220,455	96,220,844	389 -	1
GenelD:319190	Hist2h2be	3	96,221,121	96,223,738	2,617 +	1
GenelD:10003846	Gm15441	3	96,555,768	96,566,801	11,033 -	1
GenelD:56338	Txnip	3	96,557,957	96,561,857	3,900 +	1
GenelD:280411	Lix1l	3	96,601,133	96,625,352	24,219 +	1
GenelD:60365	Rbm8a	3	96,629,928	96,633,791	3,863 +	1
GenelD:18632	Pex11b	3	96,635,357	96,645,381	10,024 +	1
GenelD:213119	Itga10	3	96,645,584	96,664,519	18,935 +	1
GenelD:213121	Ankrd35	3	96,670,131	96,691,034	20,903 +	1
GenelD:229615	Pias3	3	96,696,375	96,706,070	9,695 +	1
GenelD:78373	Nudt17	3	96,705,892	96,708,560	2,668 -	1
GenelD:74414	Polr3c	3	96,711,895	96,727,439	15,544 -	1
GenelD:67845	Rnf115	3	96,727,611	96,791,155	63,544 +	1
GenelD:67549	Gpr89	3	96,871,066	96,905,298	34,232 -	1
GenelD:66659	Acp6	3	97,158,777	97,176,576	17,799 +	1
GenelD:68058	Chd1l	3	97,560,748	97,610,190	49,442 -	1
GenelD:83679	Pde4dip	3	97,689,828	97,888,707	198,879 -	1
GenelD:20333	Sec22b	3	97,901,227	97,922,318	21,091 +	1
GenelD:18129	Notch2	3	98,013,538	98,150,367	136,829 +	1
GenelD:242109	Zfp697	3	98,382,481	98,431,949	49,468 +	3
GenelD:70560	Wars2	3	99,141,090	99,220,203	79,113 +	1
GenelD:269470	Wdr3	3	100,138,180	100,162,403	24,223 -	1
GenelD:14547	Gdap2	3	100,162,518	100,206,981	44,463 +	1
GenelD:74645	Fam46c	3	100,471,536	100,489,192	17,656 -	1
GenelD:545557	Gm12474	3	100,489,397	100,523,918	34,521 +	1
GenelD:17156	Man1a2	3	100,562,203	100,685,473	123,270 -	1
GenelD:19221	Ptgfrn	3	101,040,236	101,110,166	69,930 -	1
GenelD:11928	Atp1a1	3	101,576,219	101,604,707	28,488 -	1
GenelD:242126	Slc22a15	3	101,855,768	101,924,453	68,685 -	1
GenelD:229658	Vangl1	3	102,156,695	102,204,693	47,998 -	1

GenelD:66641	Sike1	3	102,995,740	103,003,914	8,174 +	1
GenelD:229665	Ampd1	3	103,074,014	103,099,720	25,706 +	1
GenelD:94093	Trim33	3	103,279,293	103,358,768	79,475 +	1
GenelD:15257	Hipk1	3	103,739,815	103,791,275	51,460 -	1
GenelD:140917	Dclre1b	3	103,800,605	103,809,387	8,782 -	2
GenelD:10050315	Gm15471	3	103,803,129	103,808,440	5,311 +	1
GenelD:67489	Ap4b1	3	103,809,517	103,822,025	12,508 +	1
GenelD:19260	Ptpn22	3	103,860,292	103,912,247	51,955 +	1
GenelD:229675	Rsbm1	3	103,914,120	103,966,620	52,500 +	2
GenelD:10012593	A130049A11Rik	3	103,964,536	103,968,316	3,780 -	1
GenelD:18685	Phtf1	3	103,968,110	104,007,490	39,380 +	1
GenelD:99470	Magi3	3	104,013,259	104,220,406	207,147 -	1
GenelD:269473	Lrig2	3	104,453,983	104,511,856	57,873 -	1
GenelD:20501	Slc16a1	3	104,638,668	104,658,462	19,794 +	1
GenelD:71887	Ppm1j	3	104,781,056	104,786,018	4,962 +	1
GenelD:11853	Rhoc	3	104,789,034	104,794,459	5,425 +	1
GenelD:17454	Mov10	3	104,794,832	104,818,563	23,731 -	2
GenelD:12340	Capza1	3	104,822,785	104,864,505	41,720 -	2
GenelD:229681	St7l	3	104,864,506	104,930,064	65,558 +	1
GenelD:22414	Wnt2b	3	104,944,805	104,961,709	16,904 -	1
GenelD:78635	1700095B22Rik	3	105,448,190	105,452,955	4,765 -	1
GenelD:56543	Kcnd3	3	105,452,330	105,674,002	221,672 +	1
GenelD:53975	Ddx20	3	105,678,462	105,687,571	9,109 -	1
GenelD:99712	Cept1	3	106,502,260	106,547,761	45,501 -	1
GenelD:67171	Dram2	3	106,547,827	106,574,845	27,018 +	1
GenelD:16491	Kcna3	3	107,036,162	107,038,129	1,967 +	1
GenelD:229694	AI504432	3	107,039,504	107,054,322	14,818 +	1
GenelD:68576	Lamtor5	3	107,278,858	107,284,082	5,224 +	1
GenelD:99738	Kcnc4	3	107,438,303	107,458,898	20,595 -	1
GenelD:229706	Slc6a17	3	107,467,548	107,518,018	50,470 -	1
GenelD:229707	Strip1	3	107,612,532	107,631,710	19,178 -	1
GenelD:12977	Csf1	3	107,741,048	107,760,469	19,421 -	1
GenelD:109674	Ampd2	3	108,074,062	108,086,627	12,565 -	1
GenelD:14686	Gnat2	3	108,093,068	108,101,286	8,218 +	1
GenelD:75504	1700013F07Rik	3	108,537,584	108,544,697	7,113 +	1
GenelD:10021743	Scarna2	3	108,554,342	108,554,402	60 -	1
GenelD:67495	Tmem167b	3	108,556,425	108,562,466	6,041 -	1
GenelD:99730	Taf13	3	108,571,699	108,582,068	10,369 +	1
GenelD:99512	Wdr47	3	108,591,278	108,645,719	54,441 +	2
GenelD:229725	Clcc1	3	108,653,913	108,678,840	24,927 +	1
GenelD:20912	Stxbp3a	3	108,793,180	108,840,502	47,322 -	1
GenelD:66921	Prpf38b	3	108,902,807	108,911,704	8,897 -	1
GenelD:10105574	LOC101055747	3	108,939,873	108,941,256	1,383 -	1
GenelD:66715	Henmt1	3	108,940,084	108,960,776	20,692 +	1
GenelD:329739	Fam102b	3	108,970,997	109,027,607	56,610 -	1
GenelD:57257	Vav3	3	109,340,683	109,685,694	345,011 +	1
GenelD:99890	Prmt6	3	110,246,109	110,250,998	4,889 -	1

GenelD:66500	Slc30a7	3	115,938,973	116,007,406	68,433 -	1
GenelD:58193	Extl2	3	116,007,449	116,029,016	21,567 +	1
GenelD:64378	Gpr88	3	116,249,654	116,253,484	3,830 -	1
GenelD:229776	Cdc14a	3	116,272,553	116,424,032	151,479 -	1
GenelD:229780	Trmt13	3	116,581,336	116,614,587	33,251 -	1
GenelD:72776	Sass6	3	116,595,008	116,630,984	35,976 +	1
GenelD:15247	Hiat1	3	116,631,164	116,662,677	31,513 -	1
GenelD:229782	Slc35a3	3	116,670,798	116,712,280	41,482 -	2
GenelD:71994	Cnn3	3	121,426,541	121,458,205	31,664 +	1
GenelD:14066	F3	3	121,723,537	121,735,052	11,515 +	1
GenelD:19299	Abcd3	3	121,758,910	121,815,215	56,305 -	1
GenelD:214137	Arhgap29	3	121,953,326	122,016,154	62,828 +	1
GenelD:14630	Gclm	3	122,245,592	122,266,648	21,056 +	2
GenelD:99480	Dnttip2	3	122,274,414	122,285,271	10,857 +	2
GenelD:791077	Mir760	3	122,293,585	122,293,703	118 -	1
GenelD:214459	Fnbp1l	3	122,538,719	122,619,667	80,948 -	1
GenelD:242202	Pde5a	3	122,729,158	122,859,374	130,216 +	1
GenelD:99526	Usp53	3	122,933,601	122,984,447	50,846 -	1
GenelD:19142	Prss12	3	123,446,913	123,506,602	59,689 +	1
GenelD:229801	Tram1l1	3	124,321,037	124,323,260	2,223 +	1
GenelD:108058	Camk2d	3	126,596,973	126,845,054	248,081 +	1
GenelD:28036	Larp7	3	127,536,714	127,553,349	16,635 -	1
GenelD:723948	Mir302b	3	127,545,228	127,545,301	73 +	1
GenelD:723835	Mir302c	3	127,545,363	127,545,430	67 +	1
GenelD:723920	Mir302a	3	127,545,496	127,545,564	68 +	1
GenelD:723928	Mir302d	3	127,545,624	127,545,689	65 +	1
GenelD:723911	Mir367	3	127,545,733	127,545,807	74 +	1
GenelD:71643	4930422G04Rik	3	127,553,489	127,618,023	64,534 +	1
GenelD:211556	Ap1ar	3	127,807,264	127,837,492	30,228 -	1
GenelD:18741	Pitx2	3	129,199,918	129,219,591	19,673 +	1
GenelD:170439	Elovl6	3	129,532,386	129,638,495	106,109 +	1
GenelD:20132	Rrh	3	129,808,575	129,822,505	13,930 -	1
GenelD:68147	Gar1	3	129,824,912	129,831,396	6,484 -	1
GenelD:12630	Cfi	3	129,836,739	129,875,328	38,589 +	1
GenelD:68436	Rpl34	3	130,726,831	130,730,308	3,477 -	1
GenelD:16842	Lef1	3	131,110,471	131,223,334	112,863 +	1
GenelD:15107	Hadh	3	131,233,424	131,272,037	38,613 -	1
GenelD:56811	Dkk2	3	132,085,292	132,180,304	95,012 +	1
GenelD:13722	Aimp1	3	132,660,498	132,683,879	23,381 -	1
GenelD:271981	Tbck	3	132,684,144	132,838,506	154,362 +	1
GenelD:67553	Gstcd	3	132,982,550	133,091,740	109,190 -	1
GenelD:71793	Ints12	3	133,091,953	133,110,988	19,035 +	1
GenelD:229841	Cenpe	3	135,212,563	135,273,540	60,977 +	1
GenelD:319587	4930539J05Rik	3	135,436,220	135,438,665	2,445 -	2
GenelD:66105	Ube2d3	3	135,438,759	135,467,178	28,419 +	2
GenelD:110173	Manba	3	135,485,611	135,571,404	85,793 +	1
GenelD:18033	Nfkb1	3	135,584,655	135,691,547	106,892 -	1

GenelD:19055	Ppp3ca	3	136,670,770	136,935,779	265,009 +	1
GenelD:10105580	LOC101055801	3	137,862,589	137,864,510	1,921 -	1
GenelD:51788	H2afz	3	137,864,599	137,866,922	2,323 +	1
GenelD:70604	Dnajb14	3	137,867,675	137,908,931	41,256 +	1
GenelD:75624	Metap1	3	138,458,960	138,489,382	30,422 -	1
GenelD:13684	Eif4e	3	138,526,191	138,557,599	31,408 +	1
GenelD:10031670	Mir1956	3	138,526,421	138,526,485	64 +	1
GenelD:56224	Tspan5	3	138,742,195	138,904,424	162,229 +	1
GenelD:229877	Rap1gds1	3	138,925,906	139,075,199	149,293 -	1
GenelD:433658	Gm15688	3	141,457,976	141,465,470	7,494 -	1
GenelD:22253	Unc5c	3	141,465,564	141,834,922	369,358 +	1
GenelD:229906	Gtf2b	3	142,765,247	142,783,606	18,359 +	1
GenelD:109333	Pkn2	3	142,790,902	142,882,004	91,102 -	1
GenelD:320229	9530052C20Rik	3	142,882,495	142,895,070	12,575 +	1
GenelD:16911	Lmo4	3	144,188,530	144,205,255	16,725 -	2
GenelD:23908	Hs2st1	3	144,431,107	144,570,216	139,109 -	1
GenelD:93684	Sep15	3	144,570,427	144,597,677	27,250 +	1
GenelD:229937	Znhit6	3	145,576,208	145,605,245	29,037 +	1
GenelD:16007	Cyr61	3	145,646,971	145,649,985	3,014 -	1
GenelD:10021634	Gm17501	3	145,650,312	145,652,473	2,161 +	1
GenelD:69219	Ddah1	3	145,758,692	145,894,277	135,585 +	1
GenelD:12042	Bcl10	3	145,924,378	145,934,283	9,905 +	2
GenelD:66421	2410004B18Rik	3	145,938,032	145,944,275	6,243 +	1
GenelD:214804	Syde2	3	145,987,870	146,021,720	33,850 +	1
GenelD:70951	Spata1	3	146,457,203	146,499,753	42,550 -	1
GenelD:14707	Gng5	3	146,499,836	146,505,543	5,707 +	1
GenelD:70285	Rpf1	3	146,506,344	146,521,423	15,079 -	1
GenelD:70892	Ttll7	3	146,852,367	146,982,750	130,383 +	1
GenelD:67035	Dnajb4	3	152,183,955	152,210,299	26,344 -	1
GenelD:51886	Fubp1	3	152,210,458	152,236,830	26,372 +	1
GenelD:215708	Fam73a	3	152,273,459	152,340,407	66,948 -	2
GenelD:170822	Usp33	3	152,346,478	152,393,617	47,139 +	3
GenelD:108946	Zzz3	3	152,396,010	152,462,826	66,816 +	1
GenelD:209584	Tyw3	3	154,576,520	154,597,098	20,578 -	1
GenelD:12972	Cryz	3	154,596,711	154,623,182	26,471 +	1
GenelD:19218	Ptger3	3	157,566,892	157,644,758	77,866 +	1
GenelD:433667	Ankrd13c	3	157,947,466	158,006,837	59,371 +	1
GenelD:69207	Srsf11	3	158,010,493	158,036,639	26,146 -	1
GenelD:67144	Lrrc40	3	158,036,703	158,068,478	31,775 +	1
GenelD:67427	Rps20	4	3,834,473	3,835,600	1,127 -	1
GenelD:56711	Plag1	4	3,901,158	3,938,405	37,247 -	1
GenelD:66433	Chchd7	4	3,938,888	3,943,526	4,638 +	1
GenelD:242291	Impad1	4	4,764,342	4,793,306	28,964 -	1
GenelD:53378	Sdcbp	4	6,365,680	6,396,122	30,442 +	1
GenelD:59021	Rab2a	4	8,535,644	8,607,702	72,058 +	1
GenelD:65973	Asph	4	9,449,085	9,669,162	220,077 -	1
GenelD:242316	Gdf6	4	9,844,372	9,862,345	17,973 +	1

GenelD:67157	2610301B20Rik	4	10,874,498	10,899,425	24,927 +	1
GenelD:71801	Plekhf2	4	10,988,662	11,007,619	18,957 -	1
GenelD:76947	Ndufaf6	4	11,051,045	11,076,204	25,159 -	1
GenelD:60599	Trp53inp1	4	11,156,441	11,174,377	17,936 +	1
GenelD:12448	Ccne2	4	11,191,354	11,204,779	13,425 +	1
GenelD:72656	Ints8	4	11,199,158	11,254,259	55,101 -	2
GenelD:381510	Dpy19l4	4	11,265,079	11,322,131	57,052 -	1
GenelD:207920	Esrp1	4	11,332,038	11,386,783	54,745 -	1
GenelD:381511	Pdp1	4	11,958,185	11,966,450	8,265 -	1
GenelD:10050363	1700123M08Rik	4	11,966,574	11,994,295	27,721 +	1
GenelD:68099	Fam92a	4	12,153,722	12,172,015	18,293 -	1
GenelD:12395	Runx1t1	4	13,743,302	13,893,649	150,347 +	1
GenelD:100201	Tmem64	4	15,265,820	15,286,753	20,933 +	1
GenelD:27354	Nbn	4	15,957,967	15,992,589	34,622 +	1
GenelD:209212	Osgin2	4	15,997,121	16,013,877	16,756 -	1
GenelD:192656	Ripk2	4	16,123,375	16,163,498	40,123 -	1
GenelD:10041591	A530072M11Rik	4	16,164,110	16,266,225	102,115 +	1
GenelD:107568	Wwp1	4	19,607,248	19,709,000	101,752 -	1
GenelD:74988	4930480G23Rik	4	19,979,445	20,005,739	26,294 -	1
GenelD:50500	Ttpa	4	20,008,428	20,030,785	22,357 +	1
GenelD:269513	Nkain3	4	20,243,847	20,778,668	534,821 -	1
GenelD:230025	Prdm13	4	21,677,480	21,685,963	8,483 -	1
GenelD:51813	Ccnc	4	21,727,703	21,750,546	22,843 +	1
GenelD:269514	Fbxl4	4	22,357,565	22,434,046	76,481 +	1
GenelD:212377	Mms22l	4	24,496,462	24,602,950	106,488 +	1
GenelD:68493	Ndufaf4	4	24,898,083	24,905,001	6,918 +	1
GenelD:14348	Fut9	4	25,609,333	25,800,003	190,670 -	1
GenelD:242362	Manea	4	26,324,506	26,346,652	22,146 -	1
GenelD:13841	Epha7	4	28,813,145	28,967,499	154,354 +	2
GenelD:26409	Map3k7	4	31,964,107	32,023,467	59,360 +	1
GenelD:10105616	LOC101056168	4	32,239,435	32,240,600	1,165 +	1
GenelD:10003865	D130062J21Rik	4	32,243,733	32,246,476	2,743 +	1
GenelD:26885	Casp8ap2	4	32,615,473	32,653,265	37,792 +	1
GenelD:100019	Mdn1	4	32,657,119	32,775,217	118,098 +	1
GenelD:52187	Rragd	4	32,982,998	33,022,180	39,182 +	2
GenelD:10050416	4933421O10Rik	4	33,027,139	33,031,323	4,184 -	1
GenelD:56228	Ube2j1	4	33,031,425	33,052,364	20,939 +	1
GenelD:272009	Srsf12	4	33,208,991	33,233,340	24,349 +	1
GenelD:108767	Pnrc1	4	33,245,423	33,248,787	3,364 -	1
GenelD:12801	Cnr1	4	33,924,632	33,948,831	24,199 +	1
GenelD:50793	Orc3	4	34,566,781	34,614,942	48,161 -	1
GenelD:109093	Rars2	4	34,614,958	34,660,167	45,209 +	1
GenelD:24060	Slc35a1	4	34,663,257	34,687,438	24,181 -	1
GenelD:30046	Zfp292	4	34,803,110	34,882,948	79,838 -	1
GenelD:106021	Topors	4	40,259,606	40,269,841	10,235 -	1
GenelD:10050430	2010003O02Rik	4	40,269,579	40,270,221	642 +	1
GenelD:230075	Ndufb6	4	40,270,663	40,279,368	8,705 -	1

GenelD:622208	Gm6297	4	40,720,156	40,722,413	2,257 -	1
GenelD:15502	Dnaja1	4	40,722,468	40,737,153	14,685 +	1
GenelD:387203	Mir207	4	40,722,917	40,722,995	78 +	1
GenelD:74255	Smu1	4	40,735,649	40,757,885	22,236 -	1
GenelD:14595	B4galt1	4	40,804,602	40,853,998	49,396 -	1
GenelD:10062861	Mir5123	4	40,850,056	40,850,138	82 -	1
GenelD:76959	Chmp5	4	40,948,553	40,965,302	16,749 +	1
GenelD:74164	Nfx1	4	40,970,943	41,025,992	55,049 +	1
GenelD:68970	Dcaf12	4	41,291,300	41,314,901	23,601 -	1
GenelD:109242	Kif24	4	41,390,748	41,464,848	74,100 -	1
GenelD:66401	Nudt2	4	41,465,148	41,480,926	15,778 +	1
GenelD:329828	Al464131	4	41,495,601	41,503,075	7,474 -	1
GenelD:73721	1110017D15Rik	4	41,505,009	41,517,333	12,324 -	1
GenelD:71901	Fam219a	4	41,518,929	41,569,527	50,598 -	1
GenelD:68922	Dnaic1	4	41,569,794	41,638,158	68,364 +	1
GenelD:69961	Rpp25l	4	41,712,033	41,713,517	1,484 -	1
GenelD:53598	Dctn3	4	41,714,798	41,723,163	8,365 -	1
GenelD:550619	Arid3c	4	41,723,836	41,731,142	7,306 -	1
GenelD:14430	Galt	4	41,755,253	41,759,125	3,872 +	1
GenelD:16157	Il11ra1	4	41,760,443	41,769,473	9,030 +	1
GenelD:269523	Vcp	4	42,979,964	43,000,507	20,543 -	1
GenelD:60534	Fancg	4	43,002,337	43,010,301	7,964 -	1
GenelD:22249	Unc13b	4	43,058,984	43,264,887	205,903 +	1
GenelD:320571	Atp8b5	4	43,267,159	43,373,831	106,672 +	1
GenelD:100213	Rusc2	4	43,381,982	43,427,086	45,104 +	3
GenelD:329831	Fam166b	4	43,427,020	43,429,134	2,114 -	2
GenelD:230099	Car9	4	43,507,026	43,513,725	6,699 +	2
GenelD:22004	Tpm2	4	43,514,712	43,523,388	8,676 -	2
GenelD:21894	Tln1	4	43,531,513	43,562,583	31,070 -	2
GenelD:12913	Creb3	4	43,562,634	43,567,060	4,426 +	1
GenelD:230101	Gba2	4	43,566,928	43,578,864	11,936 -	2
GenelD:242406	Rgp1	4	43,578,735	43,587,487	8,752 +	1
GenelD:10003967	Msmg	4	43,583,216	43,584,494	1,278 -	1
GenelD:10003845	Gm12472	4	43,587,504	43,589,141	1,637 +	1
GenelD:230103	Npr2	4	43,631,935	43,651,244	19,309 +	2
GenelD:433700	Spag8	4	43,651,729	43,653,552	1,823 -	1
GenelD:68917	Hint2	4	43,654,227	43,656,445	2,218 -	1
GenelD:242408	Fam221b	4	43,659,622	43,668,859	9,237 -	1
GenelD:10050383	Gm12481	4	43,663,916	43,664,413	497 +	1
GenelD:53614	Reck	4	43,875,530	43,944,806	69,276 +	1
GenelD:12757	Clta	4	44,012,643	44,032,846	20,203 +	1
GenelD:50798	Gne	4	44,034,075	44,084,177	50,102 -	1
GenelD:73469	Rnf38	4	44,126,212	44,168,283	42,071 -	1
GenelD:18507	Pax5	4	44,531,506	44,710,440	178,934 -	1
GenelD:70602	5730488B01Rik	4	44,702,800	44,705,110	2,310 +	1
GenelD:545618	Gm12463	4	44,752,132	44,753,182	1,050 -	1
GenelD:319885	Zcchc7	4	44,756,559	44,932,215	175,656 +	1

GenelD:76238	Grhpr	4	44,981,411	44,990,696	9,285 +	1
GenelD:230119	Zbtb5	4	44,991,242	45,012,412	21,170 -	3
GenelD:73405	1700055D18Rik	4	45,012,822	45,014,399	1,577 +	2
GenelD:64424	Polr1e	4	45,018,625	45,033,692	15,067 +	2
GenelD:269529	Fbxo10	4	45,034,248	45,084,604	50,356 -	1
GenelD:68512	Tomm5	4	45,105,209	45,108,113	2,904 -	1
GenelD:69934	Trmt10b	4	45,297,168	45,316,131	18,963 +	1
GenelD:66362	Exosc3	4	45,316,629	45,320,603	3,974 -	1
GenelD:242418	Dcaf10	4	45,342,101	45,379,722	37,621 +	1
GenelD:230126	Shb	4	45,423,276	45,530,828	107,552 -	1
GenelD:272027	Tstd2	4	46,114,746	46,138,475	23,729 -	1
GenelD:433702	Ncbp1	4	46,138,511	46,172,403	33,892 +	1
GenelD:22590	Xpa	4	46,175,222	46,196,311	21,089 -	1
GenelD:67628	Anp32b	4	46,451,117	46,472,523	21,406 +	2
GenelD:94181	Nans	4	46,489,329	46,503,438	14,109 +	1
GenelD:74735	Trim14	4	46,506,847	46,536,144	29,297 -	1
GenelD:381605	Tbc1d2	4	46,604,390	46,650,199	45,809 -	1
GenelD:12819	Col15a1	4	47,208,012	47,313,165	105,153 +	1
GenelD:21812	Tgfbr1	4	47,353,305	47,414,924	61,619 +	1
GenelD:56737	Alg2	4	47,469,833	47,474,367	4,534 -	1
GenelD:66212	Sec61b	4	47,474,661	47,483,233	8,572 +	1
GenelD:10105565	LOC101055654	4	48,041,257	48,045,089	3,832 -	2
GenelD:18124	Nr4a3	4	48,051,248	48,083,352	32,104 +	2
GenelD:269536	Tex10	4	48,430,956	48,473,422	42,466 -	1
GenelD:230157	Tmeff1	4	48,585,193	48,663,131	77,938 +	1
GenelD:67063	Tmem246	4	49,584,506	49,597,870	13,364 -	1
GenelD:72648	2700081L22Rik	4	52,430,284	52,438,964	8,680 -	1
GenelD:14211	Smc2	4	52,439,249	52,488,260	49,011 +	1
GenelD:11303	Abca1	4	53,030,789	53,159,895	129,106 -	1
GenelD:100434	Slc44a1	4	53,440,413	53,622,478	182,065 +	1
GenelD:319636	Fsd1l	4	53,631,471	53,707,009	75,538 +	2
GenelD:246179	Fktn	4	53,714,182	53,763,271	49,089 +	1
GenelD:52076	Tmem38b	4	53,826,045	53,862,018	35,973 +	1
GenelD:666920	Gm8364	4	54,944,474	54,945,859	1,385 -	1
GenelD:242466	Zfp462	4	54,947,945	55,083,563	135,618 +	1
GenelD:19359	Rad23b	4	55,350,042	55,392,237	42,195 +	1
GenelD:16600	Klf4	4	55,527,137	55,532,475	5,338 -	1
GenelD:230233	lkbkap	4	56,749,680	56,802,331	52,651 -	1
GenelD:230234	BC026590	4	56,802,329	56,809,605	7,276 +	1
GenelD:54366	Ctnnal1	4	56,810,935	56,865,211	54,276 -	2
GenelD:242474	Tmem245	4	56,876,013	56,947,429	71,416 -	1
GenelD:545622	Ptpn3	4	57,190,841	57,301,837	110,996 -	2
GenelD:619973	Gm12538	4	57,413,711	57,426,153	12,442 -	1
GenelD:14745	Lpar1	4	58,435,252	58,553,491	118,239 -	1
GenelD:230249	AI314180	4	58,800,030	58,912,725	112,695 -	1
GenelD:72429	Dnajc25	4	59,003,193	59,023,398	20,205 +	1
GenelD:230257	Ptbp3	4	59,471,868	59,549,364	77,496 -	1

GenelD:72479	Hsd12	4	59,581,563	59,618,694	37,131 +	1
GenelD:230259	E130308A19Rik	4	59,626,221	59,754,303	128,082 +	1
GenelD:209131	Snx30	4	59,805,650	59,904,740	99,090 +	1
GenelD:17025	Alad	4	62,509,170	62,520,063	10,893 -	1
GenelD:59001	Pole3	4	62,523,798	62,525,014	1,216 -	1
GenelD:214106	4933430I17Rik	4	62,525,369	62,547,993	22,624 +	1
GenelD:50780	Rgs3	4	62,559,847	62,703,019	143,172 +	1
GenelD:373864	Col27a1	4	63,215,412	63,334,991	119,579 +	2
GenelD:73750	Whrn	4	63,414,910	63,495,951	81,041 -	1
GenelD:66290	Atp6v1g1	4	63,544,765	63,550,701	5,936 +	1
GenelD:18491	Pappa	4	65,124,174	65,357,509	233,335 +	1
GenelD:230316	Megf9	4	70,431,927	70,534,928	103,001 -	1
GenelD:21885	Tle1	4	72,117,142	72,200,919	83,777 -	1
GenelD:68285	C630043F03Rik	4	72,201,244	72,203,930	2,686 +	1
GenelD:76804	Kdm4c	4	74,242,497	74,405,864	163,367 +	1
GenelD:19266	Ptprd	4	75,941,239	76,594,299	653,060 -	1
GenelD:52829	Lurap1l	4	80,910,686	80,954,301	43,615 +	1
GenelD:18028	Nfib	4	82,290,173	82,505,308	215,135 -	1
GenelD:77634	Snapc3	4	83,417,744	83,453,340	35,596 +	1
GenelD:101739	Psip1	4	83,455,680	83,486,390	30,710 -	1
GenelD:320226	Ccdc171	4	83,525,545	83,864,670	339,125 +	1
GenelD:242509	Bnc2	4	84,272,542	84,675,086	402,544 -	2
GenelD:338349	Cntln	4	84,884,327	85,131,918	247,591 +	1
GenelD:68441	Rraga	4	86,575,673	86,577,285	1,612 +	1
GenelD:230376	Haus6	4	86,581,284	86,612,022	30,738 -	2
GenelD:329877	Dennd4c	4	86,748,555	86,850,603	102,048 +	2
GenelD:20104	Rps6	4	86,854,099	86,857,367	3,268 -	1
GenelD:230379	Acer2	4	86,874,414	86,920,881	46,467 +	1
GenelD:76376	Slc24a2	4	86,983,124	87,230,540	247,416 -	1
GenelD:70122	Mllt3	4	87,769,925	88,033,407	263,482 -	1
GenelD:242521	Klhl9	4	88,718,292	88,722,508	4,216 -	1
GenelD:66902	Mtap	4	89,137,370	89,181,090	43,720 +	1
GenelD:12578	Cdkn2a	4	89,274,473	89,294,619	20,146 -	1
GenelD:15569	Elavl2	4	91,250,766	91,399,984	149,218 -	1
GenelD:69136	Tusc1	4	93,334,148	93,335,511	1,363 -	1
GenelD:67770	Caap1	4	94,500,079	94,556,796	56,717 -	1
GenelD:18786	Plaa	4	94,565,139	94,603,247	38,108 -	2
GenelD:667250	Gm12657	4	94,593,650	94,600,319	6,669 +	1
GenelD:320713	Mysm1	4	94,942,041	94,979,100	37,059 -	1
GenelD:10003926	Gm12703	4	95,029,963	95,048,370	18,407 -	1
GenelD:16476	Jun	4	95,049,036	95,052,222	3,186 -	1
GenelD:18027	Nfia	4	97,581,943	98,118,876	536,933 +	1
GenelD:12695	Inadl	4	98,395,826	98,719,603	323,777 +	1
GenelD:230484	Usp1	4	98,923,810	98,935,533	11,723 +	1
GenelD:242557	Atg4c	4	99,193,934	99,259,787	65,853 +	1
GenelD:67733	Itgb3bp	4	99,765,402	99,829,118	63,716 -	1
GenelD:230500	Efcab7	4	99,829,500	99,912,785	83,285 +	1

GenelD:26563	Ror1	4	100,095,791	100,442,545	346,754 +	1
GenelD:320508	Cachd1	4	100,776,679	101,003,749	227,070 +	1
GenelD:242570	Raver2	4	101,069,038	101,152,370	83,332 +	1
GenelD:16451	Jak1	4	101,151,974	101,265,282	113,308 -	1
GenelD:77866	E130102H24Rik	4	101,346,524	101,356,248	9,724 -	1
GenelD:387143	Mir101a	4	101,346,945	101,347,027	82 -	1
GenelD:68400	O610043K17Rik	4	101,353,783	101,399,185	45,402 +	1
GenelD:72685	Dnajc6	4	101,496,648	101,642,799	146,151 +	1
GenelD:230514	Leprot	4	101,647,783	101,659,358	11,575 +	1
GenelD:242584	Wdr78	4	103,038,065	103,114,299	76,234 -	2
GenelD:71148	Mier1	4	103,114,465	103,165,749	51,284 +	2
GenelD:242585	Slc35d1	4	103,171,718	103,214,884	43,166 -	1
GenelD:67916	Ppap2b	4	105,157,347	105,232,767	75,420 +	1
GenelD:329908	Usp24	4	106,316,213	106,441,327	125,114 +	1
GenelD:74754	Dhcr24	4	106,561,038	106,589,113	28,075 +	1
GenelD:72475	Ssbp3	4	106,911,470	107,049,694	138,224 +	2
GenelD:66526	Tceanc2	4	107,134,162	107,178,366	44,204 -	1
GenelD:56374	Tmem59	4	107,178,630	107,200,996	22,366 +	1
GenelD:230584	Yipf1	4	107,314,363	107,359,823	45,460 +	1
GenelD:72787	Tmem48	4	107,367,784	107,414,338	46,554 +	1
GenelD:230587	Glis1	4	107,434,719	107,635,059	200,340 +	1
GenelD:16975	Lrp8	4	107,802,259	107,876,840	74,581 +	1
GenelD:619295	B230314M03Rik	4	107,806,033	107,823,022	16,989 -	1
GenelD:230590	Zyg11a	4	108,181,934	108,217,922	35,988 -	1
GenelD:414872	Zyg11b	4	108,227,755	108,301,090	73,335 -	2
GenelD:18392	Orc1	4	108,579,454	108,614,833	35,379 +	1
GenelD:319965	Cc2d1b	4	108,619,956	108,634,122	14,166 +	1
GenelD:73133	3110021N24Rik	4	108,719,649	108,781,904	62,255 +	1
GenelD:66073	Txndc12	4	108,834,678	108,862,120	27,442 +	1
GenelD:100087	Kti12	4	108,847,857	108,849,412	1,555 +	1
GenelD:100273	Osbpl9	4	109,061,145	109,202,272	141,127 -	1
GenelD:13858	Eps15	4	109,280,275	109,387,817	107,542 +	1
GenelD:319743	9630013D21Rik	4	109,651,529	109,657,853	6,324 -	2
GenelD:12580	Cdkn2c	4	109,660,876	109,665,372	4,496 -	2
GenelD:14084	Faf1	4	109,676,627	109,963,960	287,333 +	2
GenelD:15572	Elavl4	4	110,203,737	110,351,911	148,174 -	1
GenelD:67946	Spata6	4	111,720,010	111,829,137	109,127 +	1
GenelD:666048	Trabd2b	4	114,406,724	114,615,098	208,374 +	1
GenelD:17301	Foxd2	4	114,906,280	114,908,898	2,618 -	1
GenelD:10004073	9130206I24Rik	4	114,909,289	114,921,118	11,829 +	2
GenelD:30923	Foxe3	4	114,925,147	114,926,013	866 -	1
GenelD:66588	Cmpk1	4	114,960,613	114,987,228	26,615 -	1
GenelD:20460	Stil	4	115,000,118	115,043,203	43,085 +	1
GenelD:21349	Tal1	4	115,059,527	115,071,755	12,228 +	1
GenelD:230648	Efcab14	4	115,738,073	115,777,327	39,254 +	1
GenelD:14073	Faah	4	115,996,656	116,017,902	21,246 -	1
GenelD:66576	Uqcrh	4	116,066,965	116,075,070	8,105 -	1

GenelD:230654	Lrrc41	4	116,075,465	116,097,043	21,578 +	1
GenelD:68075	Lurap1	4	116,136,728	116,144,616	7,888 -	1
GenelD:68273	Pomgnt1	4	116,150,518	116,159,844	9,326 +	1
GenelD:230657	Tmem69	4	116,551,528	116,555,943	4,415 -	1
GenelD:77110	Gpbp1l1	4	116,557,727	116,593,882	36,155 +	1
GenelD:50927	Nasp	4	116,601,052	116,627,951	26,899 -	1
GenelD:58810	Akr1a1	4	116,636,510	116,651,674	15,164 -	1
GenelD:10050295	AV051173	4	116,684,962	116,686,022	1,060 -	1
GenelD:18477	Prdx1	4	116,685,599	116,700,000	14,401 +	1
GenelD:74464	Zswim5	4	116,877,402	116,989,105	111,703 +	1
GenelD:22275	Urod	4	116,990,217	116,994,375	4,158 -	1
GenelD:76608	Hectd3	4	116,995,348	117,005,277	9,929 +	1
GenelD:108067	Eif2b3	4	117,019,408	117,086,852	67,444 +	2
GenelD:19207	Ptch2	4	117,096,356	117,114,831	18,475 +	1
GenelD:78611	Btbd19	4	117,119,218	117,125,725	6,507 -	1
GenelD:242646	Tctex1d4	4	117,126,813	117,128,730	1,917 +	1
GenelD:12795	Plk3	4	117,128,655	117,133,952	5,297 -	1
GenelD:625405	Gm13015	4	117,148,902	117,149,303	401 +	1
GenelD:20116	Rps8	4	117,153,836	117,156,132	2,296 -	1
GenelD:10021742	Snord38a	4	117,154,516	117,154,574	58 -	1
GenelD:10021653	Snord55	4	117,155,771	117,155,848	77 -	1
GenelD:73804	Kif2c	4	117,159,634	117,182,624	22,990 -	2
GenelD:66743	Rnf220	4	117,271,464	117,496,915	225,451 -	1
GenelD:140546	Eri3	4	117,550,494	117,674,281	123,787 +	1
GenelD:14664	Slc6a9	4	117,835,258	117,869,305	34,047 +	1
GenelD:53418	B4galt2	4	117,873,000	117,883,476	10,476 -	1
GenelD:114143	Atp6v0b	4	117,884,330	117,887,329	2,999 -	1
GenelD:67728	Dph2	4	117,888,643	117,892,003	3,360 -	1
GenelD:230673	Ipo13	4	117,894,493	117,914,999	20,506 -	1
GenelD:20441	St3gal3	4	117,932,153	118,134,914	202,761 -	1
GenelD:230674	Kdm4a	4	118,137,004	118,180,043	43,039 -	1
GenelD:19268	Ptprf	4	118,208,213	118,291,397	83,184 -	1
GenelD:230676	Szt2	4	118,362,740	118,409,263	46,523 -	1
GenelD:80509	Med8	4	118,409,337	118,415,782	6,445 +	1
GenelD:54325	Elovl1	4	118,428,093	118,432,916	4,823 +	1
GenelD:107995	Cdc20	4	118,432,901	118,437,343	4,442 -	1
GenelD:17480	Mpl	4	118,442,417	118,457,495	15,078 -	1
GenelD:20525	Slc2a1	4	119,108,745	119,137,330	28,585 +	1
GenelD:27028	Ermap	4	119,175,457	119,190,011	14,554 -	1
GenelD:69216	Ccdc23	4	119,195,310	119,201,298	5,988 +	1
GenelD:75180	4930538K18Rik	4	119,205,055	119,218,217	13,162 -	1
GenelD:230696	AU022252	4	119,225,138	119,232,724	7,586 -	1
GenelD:56401	Lepre1	4	119,232,915	119,248,977	16,062 +	2
GenelD:242653	Cldn19	4	119,255,441	119,262,438	6,997 +	1
GenelD:22608	Ybx1	4	119,277,327	119,294,513	17,186 -	2
GenelD:66101	Ppih	4	119,300,010	119,320,523	20,513 -	3
GenelD:73332	Ccdc30	4	119,322,893	119,415,521	92,628 -	3

GenelD:106564	Ppcs	4	119,418,533	119,422,420	3,887 -	2
GenelD:332934	Zmynd12	4	119,422,684	119,453,899	31,215 +	2
GenelD:433752	AA415398	4	119,530,308	119,538,769	8,461 -	2
GenelD:230700	Foxj3	4	119,539,688	119,629,119	89,431 +	2
GenelD:10105564	LOC101055647	4	119,712,286	119,736,766	24,480 +	1
GenelD:329934	Foxo6	4	120,267,078	120,287,261	20,183 -	1
GenelD:29871	Scmh1	4	120,405,281	120,530,199	124,918 +	1
GenelD:51797	Ctps	4	120,539,868	120,570,276	30,408 -	1
GenelD:56222	Cited4	4	120,666,563	120,667,820	1,257 +	1
GenelD:18046	Nfyc	4	120,757,435	120,831,575	74,140 -	1
GenelD:73172	Exo5	4	120,921,202	120,925,005	3,803 -	1
GenelD:381549	Zfp69	4	120,930,137	120,951,701	21,564 -	1
GenelD:69780	Smap2	4	120,968,317	121,017,247	48,930 -	1
GenelD:16918	Mycl1	4	122,996,099	123,002,485	6,386 +	1
GenelD:66966	Trit1	4	123,016,597	123,054,934	38,337 +	1
GenelD:11426	Macf1	4	123,349,633	123,684,360	334,727 -	3
GenelD:442834	D830031N03Rik	4	123,403,601	123,411,911	8,310 -	1
GenelD:68050	Akirin1	4	123,735,195	123,750,299	15,104 -	1
GenelD:10003864	Gm10572	4	123,895,291	123,896,618	1,327 -	1
GenelD:56309	Mycbp	4	123,905,013	123,912,250	7,237 +	2
GenelD:54170	Rragc	4	123,917,433	123,936,997	19,564 +	1
GenelD:18991	Pou3f1	4	124,657,646	124,660,655	3,009 +	1
GenelD:67205	Utp11l	4	124,678,764	124,693,554	14,790 -	1
GenelD:14201	Fhl3	4	124,700,699	124,708,611	7,912 +	2
GenelD:75062	Sf3a3	4	124,714,861	124,732,423	17,562 +	1
GenelD:16330	Inpp5b	4	124,741,878	124,801,511	59,633 +	1
GenelD:17764	Mtf1	4	124,802,549	124,849,800	47,251 +	2
GenelD:68920	1110065P20Rik	4	124,849,485	124,850,730	1,245 -	1
GenelD:230734	Yrdc	4	124,850,759	124,855,242	4,483 +	1
GenelD:215090	Maneal	4	124,855,239	124,862,171	6,932 -	1
GenelD:52276	Cdca8	4	124,918,465	124,936,917	18,452 -	1
GenelD:194268	9930104L06Rik	4	124,937,048	124,944,661	7,613 +	1
GenelD:75563	Dnali1	4	125,055,339	125,065,657	10,318 -	1
GenelD:76793	Snip1	4	125,066,693	125,074,043	7,350 +	1
GenelD:12986	Csf3r	4	126,024,659	126,044,975	20,316 +	1
GenelD:66407	Mrps15	4	126,046,928	126,055,536	8,608 +	1
GenelD:230751	Oscp1	4	126,058,565	126,089,334	30,769 +	1
GenelD:116748	Lsm10	4	126,096,653	126,098,584	1,931 +	2
GenelD:74178	Stk40	4	126,103,957	126,141,029	37,072 +	4
GenelD:230752	Eva1b	4	126,148,003	126,149,874	1,871 +	2
GenelD:66938	Sh3d21	4	126,150,602	126,163,341	12,739 -	1
GenelD:230753	Thrap3	4	126,164,082	126,202,710	38,628 -	1
GenelD:245877	Map7d1	4	126,232,167	126,256,319	24,152 -	1
GenelD:27096	Trappc3	4	126,262,405	126,275,883	13,478 +	1
GenelD:329941	Col8a2	4	126,286,794	126,314,330	27,536 +	1
GenelD:100206	Adprhl2	4	126,316,351	126,321,703	5,352 -	1
GenelD:24084	Tekt2	4	126,322,121	126,325,199	3,078 -	1

GenelD:10004892	Gm12945	4	126,323,599	126,325,237	1,638 +	1
GenelD:214150	Ago3	4	126,340,678	126,429,542	88,864 -	1
GenelD:236511	Ago1	4	126,435,012	126,468,421	33,409 -	2
GenelD:230757	5730409E04Rik	4	126,609,854	126,614,371	4,517 +	1
GenelD:332937	Tfap2e	4	126,716,003	126,736,269	20,266 -	1
GenelD:26562	Ncdn	4	126,743,750	126,753,429	9,679 -	2
GenelD:100317	AU040320	4	126,753,555	126,869,694	116,139 +	1
GenelD:71514	Sfpq	4	127,021,301	127,037,014	15,713 +	1
GenelD:242667	Dlgap3	4	127,169,271	127,237,022	67,751 +	4
GenelD:80284	Smim12	4	127,243,784	127,247,809	4,025 +	2
GenelD:54383	Phc2	4	128,654,702	128,752,881	98,179 +	1
GenelD:67525	Trim62	4	128,884,140	128,911,326	27,186 +	1
GenelD:242669	Adc	4	128,932,146	128,962,417	30,271 -	1
GenelD:67349	1700086P04Rik	4	129,050,088	129,057,983	7,895 -	1
GenelD:75234	Rnf19b	4	129,058,271	129,084,526	26,255 +	1
GenelD:74648	S100pbb	4	129,150,825	129,189,482	38,657 -	1
GenelD:107271	Yars	4	129,189,795	129,219,607	29,812 +	1
GenelD:19646	Rbbp4	4	129,307,100	129,335,370	28,270 -	1
GenelD:67106	Zbtb8os	4	129,336,026	129,347,029	11,003 +	1
GenelD:17357	Marcksl1	4	129,513,581	129,515,981	2,400 +	1
GenelD:433759	Hdac1	4	129,516,104	129,542,646	26,542 -	1
GenelD:54709	Eif3i	4	129,591,974	129,600,648	8,674 -	1
GenelD:76799	Tmem234	4	129,600,707	129,607,890	7,183 +	1
GenelD:10050449	Dcdc2b	4	129,608,331	129,614,257	5,926 -	1
GenelD:16650	Kpna6	4	129,643,979	129,672,767	28,788 -	1
GenelD:230770	Tmem39b	4	129,676,355	129,696,838	20,483 -	1
GenelD:20218	Khdrbs1	4	129,703,169	129,742,303	39,134 -	1
GenelD:19244	Ptp4a2	4	129,820,479	129,850,003	29,524 +	1
GenelD:622480	Spocd1	4	129,920,709	129,956,993	36,284 +	1
GenelD:72225	1700003M07Rik	4	129,960,374	129,965,138	4,764 +	1
GenelD:230775	Bai2	4	129,985,078	130,022,633	37,555 +	1
GenelD:107581	Col16a1	4	130,047,840	130,099,277	51,437 +	1
GenelD:80912	Pum1	4	130,663,359	130,781,564	118,205 +	1
GenelD:19273	Ptpru	4	131,768,457	131,838,278	69,821 -	1
GenelD:26922	Mecr	4	131,843,471	131,867,787	24,316 +	1
GenelD:545681	Gm12992	4	131,912,416	131,915,516	3,100 -	2
GenelD:623230	Tmem200b	4	131,921,771	131,923,140	1,369 +	2
GenelD:269587	Epb4.1	4	131,923,413	132,075,313	151,900 -	4
GenelD:10105601	LOC101056016	4	132,073,075	132,076,992	3,917 +	1
GenelD:213541	Ythdf2	4	132,184,916	132,212,256	27,340 -	1
GenelD:664903	Rps15a-ps4	4	132,219,893	132,220,589	696 -	1
GenelD:56809	Gmeb1	4	132,221,025	132,261,549	40,524 -	1
GenelD:100088	Rcc1	4	132,331,919	132,345,750	13,831 -	2
GenelD:399101	Snhg3	4	132,351,933	132,353,686	1,753 -	1
GenelD:10030694	Snora73b	4	132,352,322	132,352,526	204 -	1
GenelD:10030694	Snora73a	4	132,352,775	132,352,979	204 -	1
GenelD:100169	Phactr4	4	132,355,923	132,422,446	66,523 -	2

GenelD:67219	Med18	4	132,458,729	132,463,921	5,192 -	1
GenelD:230784	Sesn2	4	132,492,804	132,510,456	17,652 -	1
GenelD:11983	Atpif1	4	132,530,555	132,533,659	3,104 -	2
GenelD:68598	Dnajc8	4	132,535,559	132,553,742	18,183 +	2
GenelD:14050	Eya3	4	132,639,046	132,724,763	85,717 +	1
GenelD:381560	Xkr8	4	132,724,904	132,732,546	7,642 -	1
GenelD:100340	Smpdl3b	4	132,732,966	132,757,171	24,205 -	1
GenelD:19891	Rpa2	4	132,768,360	132,778,746	10,386 +	1
GenelD:230789	Fam76a	4	132,899,213	132,922,551	23,338 -	1
GenelD:14191	Fgr	4	132,974,095	133,001,893	27,798 +	1
GenelD:230793	Ahdc1	4	133,011,506	133,078,110	66,604 +	4
GenelD:242687	Wasf2	4	133,130,633	133,198,330	67,697 +	1
GenelD:53608	Map3k6	4	133,240,818	133,252,928	12,110 +	2
GenelD:269589	Syt1	4	133,253,090	133,263,087	9,997 -	1
GenelD:52174	Tmem222	4	133,266,045	133,277,790	11,745 -	1
GenelD:18221	Nudc	4	133,532,542	133,546,027	13,485 -	1
GenelD:23957	Nr0b2	4	133,553,390	133,556,536	3,146 +	1
GenelD:242691	Gpatch3	4	133,574,745	133,584,242	9,497 +	2
GenelD:100210	Gpn2	4	133,584,373	133,591,735	7,362 +	2
GenelD:230801	Pigv	4	133,661,425	133,672,647	11,222 -	1
GenelD:93760	Arid1a	4	133,679,008	133,753,611	74,603 -	3
GenelD:15331	Hmgn2	4	133,964,739	133,967,991	3,252 -	1
GenelD:67422	Dhdds	4	133,969,057	134,000,864	31,807 -	1
GenelD:194231	Cnksr1	4	134,228,042	134,238,399	10,357 -	1
GenelD:68040	Zfp593	4	134,243,306	134,245,591	2,285 -	2
GenelD:77490	E130218I03Rik	4	134,243,763	134,245,873	2,110 +	2
GenelD:72690	Grrp1	4	134,251,110	134,254,106	2,996 -	2
GenelD:230809	Pdik1l	4	134,275,002	134,287,846	12,844 -	1
GenelD:16765	Stmn1	4	134,468,320	134,473,843	5,523 +	1
GenelD:76824	Mtfr1l	4	134,525,555	134,535,387	9,832 -	1
GenelD:74777	Sepn1	4	134,537,892	134,552,166	14,274 -	1
GenelD:230815	Man1c1	4	134,561,690	134,704,290	142,600 -	1
GenelD:100017	Ldlrap1	4	134,745,412	134,768,004	22,592 -	1
GenelD:66146	Tmem57	4	134,802,759	134,853,345	50,586 -	1
GenelD:71817	Tmem50a	4	134,897,849	134,914,916	17,067 -	2
GenelD:27981	D4Wsu53e	4	134,923,625	134,927,370	3,745 +	3
GenelD:68592	Syf2	4	134,930,980	134,937,537	6,557 +	2
GenelD:29876	Clic4	4	135,213,969	135,272,760	58,791 -	1
GenelD:51796	Srrm1	4	135,320,484	135,353,214	32,730 -	1
GenelD:14105	Srsf10	4	135,856,092	135,869,908	13,816 +	1
GenelD:12802	Cnr2	4	135,895,404	135,920,215	24,811 +	1
GenelD:71665	Fuca1	4	135,920,726	135,940,300	19,574 +	2
GenelD:15356	Hmgcl	4	135,946,453	135,962,617	16,164 +	3
GenelD:74246	Gale	4	135,965,165	135,968,178	3,013 +	2
GenelD:26394	Lypla2	4	135,968,225	135,972,594	4,369 -	2
GenelD:66193	Pithd1	4	135,975,602	135,987,244	11,642 -	1
GenelD:27224	Tceb3	4	136,003,370	136,021,649	18,279 -	1

GenelD:67025	Rpl11	4	136,049,948	136,053,371	3,423 -	1
GenelD:15903	Id3	4	136,143,822	136,145,392	1,570 +	1
GenelD:242705	E2f2	4	136,172,394	136,196,057	23,663 +	1
GenelD:22704	Zfp46	4	136,286,069	136,293,942	7,873 +	1
GenelD:74326	Hnrnpr	4	136,310,976	136,340,678	29,702 +	1
GenelD:269593	Luzp1	4	136,469,761	136,549,318	79,557 +	2
GenelD:242707	Lactbl1	4	136,622,621	136,638,110	15,489 +	1
GenelD:13844	Ephb2	4	136,653,608	136,835,935	182,327 -	1
GenelD:230848	Zbtb40	4	136,979,732	137,048,695	68,963 -	1
GenelD:22417	Wnt4	4	137,277,635	137,299,501	21,866 +	1
GenelD:12540	Cdc42	4	137,319,696	137,357,759	38,063 -	1
GenelD:665533	Rpl31-ps10	4	137,395,299	137,395,709	410 +	1
GenelD:15530	Hspg2	4	137,468,803	137,570,630	101,827 +	2
GenelD:170707	Usp48	4	137,594,189	137,658,537	64,348 +	1
GenelD:110351	Rap1gap	4	137,664,726	137,729,861	65,135 +	2
GenelD:11647	Alpl	4	137,741,732	137,796,377	54,645 -	1
GenelD:230857	Ece1	4	137,862,237	137,965,229	102,992 +	2
GenelD:230861	Eif4g3	4	137,993,456	138,207,079	213,623 +	2
GenelD:15441	Hp1bp3	4	138,216,627	138,243,170	26,543 +	1
GenelD:68943	Pink1	4	138,313,409	138,326,296	12,887 -	1
GenelD:625638	Fam43b	4	138,394,092	138,396,458	2,366 -	1
GenelD:66259	Camk2n1	4	138,455,148	138,460,126	4,978 +	1
GenelD:73162	Otud3	4	138,895,379	138,913,947	18,568 -	1
GenelD:66825	Rnf186	4	138,967,112	138,968,366	1,254 +	1
GenelD:77056	Tmco4	4	138,972,905	139,059,171	86,266 +	1
GenelD:17965	Nbl1	4	139,082,292	139,092,970	10,678 -	1
GenelD:433771	Minos1	4	139,101,814	139,131,113	29,299 -	2
GenelD:12345	Capzb	4	139,192,931	139,291,812	98,881 +	1
GenelD:212555	Pqlc2	4	139,298,005	139,310,700	12,695 -	1
GenelD:110198	Akr7a5	4	139,310,744	139,318,786	8,042 +	1
GenelD:212632	Iffo2	4	139,530,548	139,620,382	89,834 +	1
GenelD:230872	Crocc	4	141,016,637	141,060,545	43,908 -	2
GenelD:66147	Necap2	4	141,066,512	141,078,345	11,833 -	2
GenelD:329972	Spata21	4	141,088,345	141,112,759	24,414 +	1
GenelD:213491	Szrd1	4	141,113,015	141,139,796	26,781 -	2
GenelD:213499	Fbxo42	4	141,147,922	141,204,062	56,140 +	2
GenelD:13836	Epha2	4	141,301,221	141,329,384	28,163 +	2
GenelD:277744	Gm694	4	141,432,672	141,436,105	3,433 -	1
GenelD:22642	Zbtb17	4	141,444,673	141,467,937	23,264 +	1
GenelD:56381	Spen	4	141,467,890	141,538,597	70,707 -	3
GenelD:10004295	Gm4123	4	141,536,181	141,537,422	1,241 +	3
GenelD:320456	B330016D10Rik	4	141,546,162	141,548,313	2,151 +	3
GenelD:74202	Fblim1	4	141,576,062	141,606,052	29,990 -	1
GenelD:213989	Tmem82	4	141,614,233	141,618,633	4,400 -	1
GenelD:384071	Slc25a34	4	141,618,824	141,623,834	5,010 -	1
GenelD:69582	Plekhn2	4	141,625,734	141,664,115	38,381 -	2
GenelD:68817	Ddi2	4	141,683,563	141,723,419	39,856 -	1

GenelD:214063	Dnajc16	4	141,761,998	141,790,644	28,646 -	1
GenelD:12371	Casp9	4	141,793,612	141,815,975	22,363 +	1
GenelD:27984	Efhd2	4	141,858,142	141,874,920	16,778 -	1
GenelD:214359	Tmem51	4	142,030,993	142,084,304	53,311 -	1
GenelD:10003869	Tmem51as1	4	142,084,298	142,088,101	3,803 +	1
GenelD:71529	Kazn	4	142,102,390	142,239,401	137,011 -	1
GenelD:110593	Prdm2	4	143,107,391	143,212,709	105,318 -	2
GenelD:242735	Lrrc38	4	143,349,750	143,371,028	21,278 +	1
GenelD:20148	Dhrs3	4	144,892,827	144,927,645	34,818 +	1
GenelD:230895	Vps13d	4	144,975,137	145,190,592	215,455 -	1
GenelD:666532	Gm13139	4	147,132,093	147,180,579	48,486 +	1
GenelD:18822	Plod1	4	147,909,753	147,936,776	27,023 -	1
GenelD:77034	2510039O18Rik	4	147,940,895	147,947,314	6,419 +	1
GenelD:11610	Agtrap	4	148,077,061	148,088,064	11,003 -	1
GenelD:70433	Draxin	4	148,098,437	148,130,698	32,261 -	1
GenelD:56717	Mtor	4	148,448,582	148,557,685	109,103 +	2
GenelD:50912	Exosc10	4	148,558,427	148,582,401	23,974 +	3
GenelD:20810	Srm	4	148,591,513	148,594,619	3,106 +	1
GenelD:230908	Tardbp	4	148,612,382	148,626,996	14,614 -	1
GenelD:56273	Pex14	4	148,960,535	149,099,812	139,277 -	1
GenelD:13347	Dffa	4	149,104,153	149,120,650	16,497 +	1
GenelD:69928	Apitd1	4	149,128,349	149,137,600	9,251 -	1
GenelD:110208	Pgd	4	149,149,985	149,166,707	16,722 -	1
GenelD:16561	Kif1b	4	149,176,321	149,307,698	131,377 -	2
GenelD:63958	Ube4b	4	149,328,416	149,426,631	98,215 -	1
GenelD:66454	Nmnat1	4	149,468,787	149,485,142	16,355 -	1
GenelD:69151	Lzic	4	149,485,333	149,496,668	11,335 +	1
GenelD:70556	Slc25a33	4	149,744,036	149,774,267	30,231 -	1
GenelD:74646	Spsb1	4	149,896,283	149,955,006	58,723 -	1
GenelD:100198	H6pd	4	149,979,481	150,009,023	29,542 -	1
GenelD:269604	Gpr157	4	150,087,503	150,105,927	18,424 +	1
GenelD:68703	Rere	4	150,281,916	150,621,966	340,050 +	1
GenelD:73348	1700045H11Rik	4	150,828,225	150,854,949	26,724 -	1
GenelD:74155	Errfi1	4	150,855,091	150,868,880	13,789 +	1
GenelD:57320	Park7	4	150,897,133	150,909,921	12,788 -	1
GenelD:18628	Per3	4	151,003,655	151,044,622	40,967 -	1
GenelD:22319	Vamp3	4	151,047,305	151,057,953	10,648 -	2
GenelD:100072	Camta1	4	151,059,523	151,861,768	802,245 -	5
GenelD:10004196	9230110K08Rik	4	151,862,033	151,863,304	1,271 +	1
GenelD:230935	Dnajc11	4	151,933,720	151,981,959	48,239 +	2
GenelD:69876	Thap3	4	151,982,638	151,988,986	6,348 -	3
GenelD:230936	Phf13	4	151,989,631	151,996,179	6,548 -	3
GenelD:242785	Klhl21	4	152,008,891	152,017,677	8,786 +	2
GenelD:100090	Zbtb48	4	152,019,776	152,027,671	7,895 -	2
GenelD:110326	Tas1r1	4	152,027,914	152,038,490	10,576 -	2
GenelD:74035	Nol9	4	152,039,327	152,061,494	22,167 +	1
GenelD:269608	Plekhg5	4	152,096,719	152,115,400	18,681 +	1

GenelD:85030	Tnfrsf25	4	152,116,343	152,120,111	3,768 +	1
GenelD:56226	Espn	4	152,120,876	152,152,207	31,331 -	4
GenelD:10050473	Gm20377	4	152,156,049	152,157,564	1,515 -	1
GenelD:15206	Hes2	4	152,158,867	152,162,469	3,602 +	1
GenelD:70025	Acot7	4	152,178,100	152,271,855	93,755 +	1
GenelD:100129	Gpr153	4	152,274,362	152,285,337	10,975 +	1
GenelD:15207	Hes3	4	152,285,972	152,291,662	5,690 -	2
GenelD:57295	Icmt	4	152,297,214	152,307,126	9,912 +	1
GenelD:433809	Rnf207	4	152,307,023	152,318,625	11,602 -	2
GenelD:19934	Rpl22	4	152,325,878	152,334,071	8,193 +	1
GenelD:230959	Ajap1	4	153,373,221	153,482,830	109,609 -	1
GenelD:407793	BC039966	4	153,948,455	153,950,476	2,021 -	1
GenelD:97159	A430005L14Rik	4	153,957,237	153,961,925	4,688 +	1
GenelD:13368	Dffb	4	153,964,449	153,975,081	10,632 -	2
GenelD:230967	Cep104	4	153,975,561	154,007,225	31,664 +	2
GenelD:72946	Lrrc47	4	154,011,803	154,021,512	9,709 +	1
GenelD:68859	Smim1	4	154,020,470	154,026,044	5,574 -	1
GenelD:59002	Wrap73	4	154,142,372	154,156,818	14,446 +	2
GenelD:67808	Tprgl	4	154,157,485	154,160,684	3,199 -	2
GenelD:230971	Megf6	4	154,170,713	154,275,721	105,008 +	2
GenelD:70673	Prdm16	4	154,316,125	154,636,873	320,748 -	1
GenelD:320939	5930403L14Rik	4	154,630,691	154,636,367	5,676 -	1
GenelD:10004217	Gm13111	4	154,636,914	154,644,724	7,810 +	1
GenelD:15208	Hes5	4	154,960,923	154,962,371	1,448 +	2
GenelD:269614	Pank4	4	154,964,133	154,980,938	16,805 +	2
GenelD:67830	Rer1	4	155,074,112	155,086,297	12,185 -	1
GenelD:76866	Morn1	4	155,086,577	155,145,507	58,930 +	2
GenelD:20481	Ski	4	155,154,075	155,222,535	68,460 -	2
GenelD:10050266	Gm19313	4	155,210,595	155,212,222	1,627 -	1
GenelD:67513	2610002J02Rik	4	155,249,966	155,256,687	6,721 +	1
GenelD:18762	Prkcz	4	155,260,120	155,361,391	101,271 -	1
GenelD:14688	Gnb1	4	155,491,361	155,559,269	67,908 +	1
GenelD:12537	Cdk11b	4	155,624,869	155,649,932	25,063 +	2
GenelD:26561	Mmp23	4	155,650,655	155,653,384	2,729 -	2
GenelD:76580	Mib2	4	155,654,470	155,669,254	14,784 -	3
GenelD:230991	B930041F14Rik	4	155,694,342	155,696,485	2,143 +	2
GenelD:68991	Ssu72	4	155,704,815	155,733,879	29,064 +	2
GenelD:108888	Atad3a	4	155,740,640	155,761,098	20,458 -	1
GenelD:70448	2610204G22Rik	4	155,761,192	155,763,560	2,368 +	1
GenelD:246228	Vwa1	4	155,768,495	155,774,561	6,066 -	2
GenelD:320587	Tmem88b	4	155,781,591	155,785,874	4,283 -	1
GenelD:242805	Ankrd65	4	155,791,172	155,793,182	2,010 +	1
GenelD:66448	Mrpl20	4	155,803,618	155,808,829	5,211 +	2
GenelD:56036	Ccnl2	4	155,812,489	155,824,543	12,054 +	3
GenelD:66077	Aurkaip1	4	155,831,269	155,833,098	1,829 +	1
GenelD:74761	Mxra8	4	155,839,680	155,844,102	4,422 +	2
GenelD:13542	Dvl1	4	155,847,412	155,859,303	11,891 +	3

GenelD:83771	Tas1r3	4	155,859,268	155,863,353	4,085 -	2
GenelD:79554	Gltpd1	4	155,864,723	155,869,440	4,717 -	2
GenelD:71957	Cpsf3l	4	155,869,567	155,889,103	19,536 +	3
GenelD:433813	Pusl1	4	155,888,857	155,891,762	2,905 -	1
GenelD:140500	Acap3	4	155,891,875	155,907,251	15,376 +	1
GenelD:140499	Ube2j2	4	155,943,831	155,959,604	15,773 +	1
GenelD:117592	B3galt6	4	155,989,466	155,992,678	3,212 -	1
GenelD:20318	Sdf4	4	155,992,914	156,013,610	20,696 +	1
GenelD:11603	Agrn	4	156,165,290	156,197,488	32,198 -	2
GenelD:10003888	Isg15	4	156,199,424	156,200,818	1,394 -	1
GenelD:100382	AW011738	4	156,203,284	156,206,028	2,744 +	1
GenelD:231002	Plekhn1	4	156,221,456	156,228,542	7,086 -	1
GenelD:231003	Klhl17	4	156,229,044	156,234,857	5,813 -	1
GenelD:57741	Noc2l	4	156,236,010	156,247,616	11,606 +	1
GenelD:12571	Cdk6	5	3,344,312	3,522,225	177,913 +	3
GenelD:70797	Ankib1	5	3,690,000	3,803,109	113,109 -	1
GenelD:79264	Krit1	5	3,803,165	3,844,515	41,350 +	1
GenelD:100986	Akap9	5	3,928,186	4,080,204	152,018 +	1
GenelD:13121	Cyp51	5	4,080,674	4,104,697	24,023 -	1
GenelD:14362	Fzd1	5	4,753,839	4,758,216	4,377 -	1
GenelD:70358	Steap1	5	5,736,322	5,749,317	12,995 -	1
GenelD:27214	Dbf4	5	8,396,969	8,422,716	25,747 -	1
GenelD:319653	Slc25a40	5	8,422,850	8,454,793	31,943 +	1
GenelD:242819	Rundc3b	5	8,490,336	8,622,952	132,616 -	1
GenelD:74114	Crot	5	8,966,048	8,997,146	31,098 -	1
GenelD:652925	Tmem243	5	9,100,737	9,118,983	18,246 +	1
GenelD:23857	Dmtf1	5	9,118,868	9,161,776	42,908 -	1
GenelD:319689	Gm17739	5	9,156,287	9,160,986	4,699 -	1
GenelD:108151	Sema3d	5	12,383,166	12,588,943	205,777 +	1
GenelD:26875	Pclo	5	14,514,918	14,863,459	348,541 +	1
GenelD:14677	Gnai1	5	18,265,135	18,360,413	95,278 -	1
GenelD:70832	4921504A21Rik	5	19,202,378	19,226,679	24,301 -	1
GenelD:50791	Magi2	5	19,227,046	20,704,792	1,477,746 +	2
GenelD:242860	Rsbni1	5	20,893,024	20,951,822	58,798 -	1
GenelD:320770	A630072M18Rik	5	20,950,989	20,956,398	5,409 +	1
GenelD:19248	Ptpn12	5	20,986,645	21,055,797	69,152 -	1
GenelD:22791	Dnajc2	5	21,757,277	21,785,165	27,888 -	2
GenelD:19181	Psmc2	5	21,785,283	21,803,784	18,501 +	2
GenelD:269630	5031425E22Rik	5	23,431,808	23,434,353	2,545 -	1
GenelD:69188	Mll5	5	23,434,429	23,504,229	69,800 +	1
GenelD:433855	Al506816	5	23,692,261	23,712,667	20,406 -	1
GenelD:10105610	LOC101056102	5	23,701,164	23,702,705	1,541 -	1
GenelD:10052650	Mir3096	5	23,710,976	23,711,076	100 -	1
GenelD:78697	Pus7	5	23,740,696	23,783,661	42,965 -	1
GenelD:72772	Rint1	5	23,787,744	23,820,369	32,625 +	1
GenelD:84652	Fam126a	5	23,960,931	24,030,683	69,752 -	1
GenelD:52323	Klhl7	5	24,100,590	24,161,231	60,641 +	2

GenelD:231042	Nupl2	5	24,164,963	24,184,008	19,045 +	1
GenelD:16511	Kcnh2	5	24,319,589	24,351,604	32,015 -	1
GenelD:18127	Nos3	5	24,364,819	24,384,474	19,655 +	1
GenelD:213948	Atg9b	5	24,384,181	24,392,143	7,962 -	1
GenelD:74610	Abcb8	5	24,394,156	24,409,947	15,791 +	1
GenelD:66587	Fastk	5	24,441,040	24,445,235	4,195 -	1
GenelD:64295	Tmub1	5	24,445,463	24,447,846	2,383 -	1
GenelD:213990	Agap3	5	24,452,177	24,502,047	49,870 +	2
GenelD:27407	Abcf2	5	24,565,341	24,577,467	12,126 -	2
GenelD:10004234	Gm10221	5	24,581,452	24,581,905	453 -	2
GenelD:100910	Chpf2	5	24,586,750	24,592,487	5,737 +	3
GenelD:735264	Mir671	5	24,592,114	24,592,211	97 +	2
GenelD:66993	Smarcd3	5	24,592,622	24,602,002	9,380 -	2
GenelD:269633	Wdr86	5	24,712,269	24,730,680	18,411 -	1
GenelD:19744	Rheb	5	24,802,823	24,842,361	39,538 -	1
GenelD:108099	Prkag2	5	24,862,735	25,100,642	237,907 -	1
GenelD:67261	2900005J15Rik	5	25,100,975	25,103,007	2,032 +	1
GenelD:231051	Mll3	5	25,271,794	25,498,783	226,989 -	2
GenelD:320965	4831440E17Rik	5	25,499,797	25,504,473	4,676 +	2
GenelD:73571	1700096K18Rik	5	25,530,018	25,531,466	1,448 +	1
GenelD:10086235	Gm21671	5	25,949,797	25,954,344	4,547 -	1
GenelD:55982	Paxip1	5	27,740,665	27,791,339	50,674 -	1
GenelD:231070	Insig1	5	28,071,412	28,078,662	7,250 +	1
GenelD:13799	En2	5	28,165,696	28,172,166	6,470 +	1
GenelD:381626	Rbm33	5	28,317,189	28,419,242	102,053 +	1
GenelD:56873	Lmbr1	5	29,229,802	29,378,390	148,588 -	1
GenelD:78263	4632411P08Rik	5	29,378,465	29,390,488	12,023 +	1
GenelD:100763	Ube3c	5	29,569,242	29,676,077	106,835 +	1
GenelD:332993	Gm5129	5	29,735,334	29,735,936	602 -	1
GenelD:23950	Dnajb6	5	29,735,898	29,786,478	50,580 +	1
GenelD:97212	Hadha	5	30,118,304	30,154,980	36,676 -	1
GenelD:231086	Hadhb	5	30,155,322	30,184,583	29,261 +	1
GenelD:10050282	Gm9899	5	30,573,987	30,588,619	14,632 -	1
GenelD:16527	Kcnk3	5	30,588,170	30,625,270	37,100 +	1
GenelD:74919	Slc35f6	5	30,647,939	30,659,729	11,790 +	2
GenelD:12615	Cenpa	5	30,666,902	30,674,826	7,924 +	1
GenelD:100732	Mapre3	5	30,814,756	30,866,106	51,350 +	2
GenelD:10050284	Gm19409	5	30,815,620	30,818,477	2,857 +	1
GenelD:68796	Tmem214	5	30,869,647	30,877,467	7,820 +	1
GenelD:231093	Agbl5	5	30,888,852	30,906,666	17,814 +	2
GenelD:67695	Ost4	5	30,906,518	30,907,788	1,270 -	2
GenelD:100952	Emilin1	5	30,913,786	30,921,275	7,489 +	2
GenelD:16548	Khk	5	30,921,895	30,931,246	9,351 +	1
GenelD:58522	Trim54	5	31,116,612	31,137,626	21,014 +	1
GenelD:22226	Ucn	5	31,137,989	31,138,895	906 -	1
GenelD:17527	Mpv17	5	31,140,660	31,154,242	13,582 -	1
GenelD:13667	Eif2b4	5	31,187,558	31,193,139	5,581 -	1

GenelD:266781	Snx17	5	31,193,304	31,198,900	5,596 +	1
GenelD:101023	Zfp513	5	31,198,981	31,202,303	3,322 -	1
GenelD:14208	Ppm1g	5	31,202,668	31,220,545	17,877 -	2
GenelD:192292	Nrbp1	5	31,240,918	31,251,563	10,645 +	2
GenelD:69815	Krtcap3	5	31,251,706	31,253,197	1,491 +	1
GenelD:67661	Ift172	5	31,253,279	31,291,114	37,835 -	1
GenelD:64339	Fndc4	5	31,292,246	31,295,877	3,631 -	1
GenelD:231103	Gckr	5	31,297,581	31,327,302	29,721 +	1
GenelD:66845	Mrpl33	5	31,613,951	31,622,644	8,693 +	1
GenelD:71336	Rbks	5	31,624,439	31,697,610	73,171 -	2
GenelD:107976	Bre	5	31,698,050	32,084,739	386,689 +	1
GenelD:10003862	Gm10463	5	32,130,283	32,133,171	2,888 -	2
GenelD:14284	Fosl2	5	32,136,472	32,157,840	21,368 +	2
GenelD:22612	Yes1	5	32,611,171	32,687,066	75,895 +	1
GenelD:320951	Pisd	5	32,736,314	32,785,626	49,312 -	1
GenelD:215476	Prr14l	5	32,789,207	32,854,230	65,023 -	2
GenelD:277854	Depdc5	5	32,863,721	32,994,233	130,512 +	1
GenelD:22629	Ywhah	5	33,018,816	33,027,966	9,150 +	2
GenelD:59003	Maea	5	33,335,572	33,373,294	37,722 +	1
GenelD:20492	Slbp	5	33,640,062	33,652,306	12,244 -	1
GenelD:68366	Tmem129	5	33,653,216	33,657,832	4,616 -	1
GenelD:21335	Tacc3	5	33,658,147	33,672,198	14,051 +	1
GenelD:14184	Fgfr3	5	33,721,724	33,737,068	15,344 +	1
GenelD:56384	Letm1	5	33,741,352	33,782,704	41,352 -	1
GenelD:24116	Nelfa	5	33,898,179	33,936,258	38,079 -	1
GenelD:381633	Gm1673	5	33,983,474	33,985,006	1,532 +	1
GenelD:269642	Nat8l	5	33,995,984	34,005,916	9,932 +	1
GenelD:272158	Poln	5	34,007,198	34,169,448	162,250 -	1
GenelD:231125	Zfyve28	5	34,194,894	34,288,324	93,430 -	1
GenelD:10086206	Gm21446	5	34,297,509	34,327,327	29,818 +	2
GenelD:19822	Rnf4	5	34,336,390	34,353,430	17,040 +	1
GenelD:231130	Tnip2	5	34,496,096	34,513,979	17,883 -	1
GenelD:24055	Sh3bp2	5	34,525,784	34,563,639	37,855 +	1
GenelD:11518	Add1	5	34,573,714	34,632,305	58,591 +	2
GenelD:68294	Mfsd10	5	34,633,647	34,637,114	3,467 -	1
GenelD:75416	Nop14	5	34,638,536	34,660,148	21,612 -	1
GenelD:15194	Htt	5	34,761,740	34,912,521	150,781 +	1
GenelD:403174	Msantd1	5	34,915,915	34,923,839	7,924 +	1
GenelD:71729	Rgs12	5	34,949,448	35,033,595	84,147 +	1
GenelD:442795	E130018O15Rik	5	35,379,152	35,388,476	9,324 -	1
GenelD:15371	Hmx1	5	35,389,117	35,392,872	3,755 +	1
GenelD:78890	Trmt44	5	35,556,209	35,575,070	18,861 -	1
GenelD:74364	4931431C16Rik	5	35,581,227	35,588,763	7,536 -	1
GenelD:80911	Acox3	5	35,583,060	35,613,801	30,741 +	1
GenelD:78558	Htra3	5	35,652,033	35,679,782	27,749 -	2
GenelD:231147	Sh3tc1	5	35,697,180	35,729,276	32,096 -	1
GenelD:231148	Ablim2	5	35,757,880	35,884,979	127,099 +	1

GenelD:70292	Afap1	5	35,893,319	36,003,922	110,603 +	1
GenelD:81840	Sorcs2	5	36,017,180	36,398,139	380,959 -	1
GenelD:17713	Grpel1	5	36,465,185	36,474,077	8,892 +	1
GenelD:231151	Tada2b	5	36,473,670	36,484,285	10,615 -	1
GenelD:66717	Ccdc96	5	36,484,588	36,488,171	3,583 +	1
GenelD:100855	Tbc1d14	5	36,490,604	36,586,226	95,622 -	2
GenelD:117197	Bloc1s4	5	36,747,374	36,748,679	1,305 -	1
GenelD:67568	Mrfap1	5	36,794,867	36,796,754	1,887 -	1
GenelD:17160	Man2b2	5	36,806,813	36,830,649	23,836 -	2
GenelD:12933	Crmp1	5	37,242,080	37,292,133	50,053 +	1
GenelD:59056	Evc	5	37,299,171	37,336,881	37,710 -	1
GenelD:68525	Evc2	5	37,338,478	37,425,054	86,576 +	1
GenelD:17701	Msx1	5	37,820,491	37,824,585	4,094 -	1
GenelD:93895	Msx1as	5	37,820,564	37,822,751	2,187 +	1
GenelD:71116	Stx18	5	38,039,235	38,136,818	97,583 +	1
GenelD:18196	Nsg1	5	38,137,193	38,159,467	22,274 -	1
GenelD:75079	Zbtb49	5	38,200,044	38,220,428	20,384 -	1
GenelD:17089	Lyar	5	38,220,482	38,234,306	13,824 +	1
GenelD:66309	Tmem128	5	38,260,375	38,269,618	9,243 +	1
GenelD:22388	Wdr1	5	38,526,813	38,561,595	34,782 -	1
GenelD:100515	Zfp518b	5	38,668,484	38,684,826	16,342 -	1
GenelD:100972	Rab28	5	41,624,976	41,708,155	83,179 -	1
GenelD:665775	Bod1l	5	41,787,538	41,844,315	56,777 -	1
GenelD:665934	Gm7854	5	43,151,686	43,235,354	83,668 -	1
GenelD:231207	Cpeb2	5	43,233,463	43,289,724	56,261 +	1
GenelD:242960	Fbxl5	5	43,744,618	43,782,149	37,531 -	1
GenelD:66988	Lap3	5	45,493,374	45,512,691	19,317 +	2
GenelD:66999	Med28	5	45,520,229	45,529,284	9,055 +	1
GenelD:58227	Fam184b	5	45,529,705	45,639,501	109,796 -	2
GenelD:69788	1600023N17Rik	5	45,668,702	45,669,708	1,006 -	1
GenelD:54392	Ncapg	5	45,669,925	45,700,547	30,622 +	1
GenelD:209707	Lcorl	5	45,697,184	45,857,540	160,356 -	1
GenelD:20563	Slit2	5	47,983,155	48,305,778	322,623 +	1
GenelD:70693	Gpr125	5	49,959,951	50,058,996	99,045 -	1
GenelD:13204	Dhx15	5	52,150,209	52,190,519	40,310 -	1
GenelD:414108	9230114K14Rik	5	52,190,681	52,197,984	7,303 +	1
GenelD:414111	C130083M11Rik	5	52,199,984	52,216,433	16,449 -	1
GenelD:211006	Sepsecs	5	52,643,407	52,669,701	26,294 -	1
GenelD:19664	Rbpj	5	53,555,779	53,657,445	101,666 +	1
GenelD:116873	Stim2	5	53,998,523	54,121,057	122,534 +	1
GenelD:319216	4932441J04Rik	5	57,570,084	57,717,919	147,835 -	1
GenelD:54216	Pcdh7	5	57,718,021	58,132,240	414,219 +	1
GenelD:100532	Rell1	5	63,908,898	63,968,897	59,999 -	1
GenelD:57915	Tbc1d1	5	64,160,211	64,351,486	191,275 +	1
GenelD:10050404	Gm20033	5	64,802,029	64,804,329	2,300 -	2
GenelD:16599	Klf3	5	64,803,523	64,830,129	26,606 +	2
GenelD:21899	Tlr6	5	64,953,095	64,960,034	6,939 -	1

GenelD:68303	Fam114a1	5	64,970,075	65,041,901	71,826 +	1
GenelD:10012445	Mir574	5	64,970,318	64,970,395	77 +	1
GenelD:19687	Rfc1	5	65,261,852	65,335,639	73,787 -	1
GenelD:83379	Klb	5	65,348,411	65,384,003	35,592 +	1
GenelD:20005	Rpl9	5	65,388,364	65,391,431	3,067 -	1
GenelD:79464	Lias	5	65,391,497	65,409,207	17,710 +	1
GenelD:22235	Ugdh	5	65,413,221	65,435,842	22,621 -	1
GenelD:68552	Smim14	5	65,448,755	65,492,835	44,080 -	1
GenelD:53323	Ube2k	5	65,537,261	65,598,989	61,728 +	1
GenelD:71521	Pds5a	5	65,615,260	65,697,856	82,596 -	1
GenelD:333789	N4bp2	5	65,763,521	65,826,784	63,263 +	1
GenelD:11787	Apbb2	5	66,298,725	66,618,817	320,092 -	1
GenelD:77569	Limch1	5	66,745,840	67,057,159	311,319 +	1
GenelD:67878	Tmem33	5	67,260,652	67,291,461	30,809 +	1
GenelD:109108	Slc30a9	5	67,306,957	67,356,145	49,188 +	1
GenelD:330096	Shisa3	5	67,607,883	67,613,987	6,104 +	1
GenelD:11980	Atp8a1	5	67,618,140	67,847,431	229,291 -	2
GenelD:243043	Kctd8	5	69,109,285	69,341,709	232,424 -	1
GenelD:100978	Nfxl1	5	72,513,304	72,559,645	46,341 -	1
GenelD:75991	Slain2	5	72,914,317	72,978,828	64,511 +	1
GenelD:231290	Slc10a4	5	73,006,904	73,012,955	6,051 +	1
GenelD:72313	Fryl	5	73,020,191	73,256,618	236,427 -	1
GenelD:100737	Dcun1d4	5	73,481,055	73,560,794	79,739 +	1
GenelD:69727	Usp46	5	74,000,038	74,068,411	68,373 -	1
GenelD:70036	Dancr	5	74,093,083	74,094,336	1,253 +	1
GenelD:10031394	Snora26	5	74,093,530	74,093,650	120 +	1
GenelD:68939	Rasl11b	5	74,195,326	74,199,477	4,151 +	1
GenelD:212986	Scfd2	5	74,204,816	74,531,749	326,933 -	3
GenelD:66899	Fip111	5	74,535,482	74,597,124	61,642 +	2
GenelD:74277	Chic2	5	75,006,424	75,044,626	38,202 -	1
GenelD:10050318	Gm19583	5	75,110,321	75,147,107	36,786 +	2
GenelD:18595	Pdgfra	5	75,152,291	75,198,204	45,913 +	2
GenelD:16542	Kdr	5	75,933,265	75,978,428	45,163 -	1
GenelD:57357	Srd5a3	5	76,140,273	76,155,503	15,230 +	1
GenelD:21982	Tmem165	5	76,183,880	76,209,244	25,364 +	1
GenelD:12753	Clock	5	76,212,177	76,304,548	92,371 -	1
GenelD:665055	Gm7467	5	76,304,882	76,305,527	645 +	1
GenelD:79455	Pdcl2	5	76,312,146	76,331,111	18,965 -	1
GenelD:56183	Nmu	5	76,333,495	76,363,777	30,282 -	1
GenelD:381644	Cep135	5	76,591,714	76,646,466	54,752 +	1
GenelD:320411	A730089K16Rik	5	76,655,531	76,658,428	2,897 -	1
GenelD:67054	Paics	5	76,951,411	76,967,505	16,094 +	1
GenelD:66661	Srp72	5	76,974,701	76,999,935	25,234 +	1
GenelD:19712	Rest	5	77,265,494	77,283,697	18,203 +	1
GenelD:10062857	Mir5098	5	77,272,757	77,272,838	81 +	1
GenelD:29817	Igfbp7	5	77,349,240	77,408,045	58,805 -	1
GenelD:319387	Lphn3	5	81,021,593	81,795,730	774,137 +	1

GenelD:231386	Ythdc1	5	86,804,490	86,836,657	32,167 +	1
GenelD:65961	Utp3	5	88,554,483	88,556,083	1,600 +	2
GenelD:231413	Grsf1	5	88,659,237	88,676,171	16,934 -	1
GenelD:68473	Mob1b	5	88,720,871	88,758,455	37,584 +	1
GenelD:330119	Adamts3	5	89,673,841	89,883,334	209,493 -	1
GenelD:81702	Ankrd17	5	90,227,166	90,366,185	139,019 -	1
GenelD:791294	Gm9958	5	90,366,997	90,368,488	1,491 +	1
GenelD:68098	Rchy1	5	91,948,904	91,963,068	14,164 -	1
GenelD:23881	G3bp2	5	92,052,146	92,083,735	31,589 -	1
GenelD:56041	Uso1	5	92,137,938	92,202,795	64,857 +	1
GenelD:10004060	Gm15710	5	92,140,238	92,140,969	731 -	1
GenelD:231452	Sdad1	5	92,284,010	92,310,024	26,014 -	1
GenelD:269113	Nup54	5	92,415,540	92,435,199	19,659 -	1
GenelD:12492	Scarb2	5	92,443,873	92,505,608	61,735 -	2
GenelD:78088	Sowahb	5	93,041,123	93,045,022	3,899 -	1
GenelD:52398	Sept11	5	93,093,457	93,174,958	81,501 +	1
GenelD:12453	Ccni	5	93,181,933	93,206,495	24,562 -	1
GenelD:75610	2010109A12Rik	5	93,206,518	93,213,474	6,956 +	1
GenelD:12452	Ccng2	5	93,267,573	93,276,231	8,658 +	1
GenelD:231464	Cnot6l	5	96,075,737	96,161,990	86,253 -	2
GenelD:231470	Fras1	5	96,373,955	96,784,728	410,773 +	1
GenelD:670358	Gm9484	5	96,996,203	96,997,534	1,331 -	1
GenelD:140780	Bmp2k	5	96,997,689	97,091,048	93,359 +	1
GenelD:231474	Paqr3	5	97,082,329	97,111,596	29,267 -	1
GenelD:97243	Naa11	5	97,382,209	97,392,330	10,121 -	1
GenelD:75814	4930467D21Rik	5	97,392,417	97,588,126	195,709 +	1
GenelD:71914	Antxr2	5	97,884,688	98,030,962	146,274 -	1
GenelD:14176	Fgf5	5	98,254,184	98,277,030	22,846 +	1
GenelD:75784	1700007G11Rik	5	98,329,304	98,802,019	472,715 +	1
GenelD:320292	Rasgef1b	5	99,217,420	99,252,927	35,507 -	1
GenelD:319818	A930011G23Rik	5	99,297,244	99,729,060	431,816 -	2
GenelD:11991	Hnrnpd	5	99,955,936	99,978,938	23,002 -	2
GenelD:10105565	LOC101055652	5	99,978,935	99,979,653	718 +	2
GenelD:50926	Hnrpdl	5	100,033,577	100,039,222	5,645 -	1
GenelD:67870	Enoph1	5	100,039,994	100,068,765	28,771 +	1
GenelD:69162	Sec31a	5	100,361,649	100,416,234	54,585 -	1
GenelD:10050319	5430416N02Rik	5	100,420,842	100,429,535	8,693 -	2
GenelD:191578	Helq	5	100,762,148	100,798,600	36,452 -	1
GenelD:68735	Mrps18c	5	100,798,759	100,804,467	5,708 +	1
GenelD:70681	Fam175a	5	100,804,802	100,820,935	16,133 -	1
GenelD:72145	Wdfy3	5	101,832,953	102,069,921	236,968 -	1
GenelD:10105566	LOC101055666	5	102,069,185	102,071,782	2,597 +	1
GenelD:17355	Aff1	5	103,754,162	103,855,322	101,160 +	1
GenelD:246293	Klhl8	5	103,862,050	103,911,229	49,179 -	1
GenelD:18764	Pkd2	5	104,459,457	104,505,819	46,362 +	1
GenelD:100604	Lrrc8c	5	105,519,471	105,608,954	89,483 +	1
GenelD:231549	Lrrc8d	5	105,699,969	105,815,215	115,246 +	3

GenelD:52397	Zfp644	5	106,616,741	106,696,830	80,089 -	1
GenelD:10050477	LOC100504779	5	106,689,820	106,696,223	6,403 -	1
GenelD:12545	Cdc7	5	106,964,322	106,984,431	20,109 +	1
GenelD:21814	Tgfbr3	5	107,106,570	107,289,595	183,025 -	1
GenelD:14020	Evi5	5	107,744,795	107,875,107	130,312 -	1
GenelD:10050367	Rpl5	5	107,900,528	107,909,005	8,477 +	1
GenelD:67266	Fam69a	5	107,908,042	107,987,077	79,035 -	1
GenelD:13486	Dr1	5	108,268,897	108,280,521	11,624 +	1
GenelD:10050380	Gm10419	5	108,369,858	108,378,239	8,381 +	1
GenelD:231580	Gak	5	108,569,414	108,629,739	60,325 -	1
GenelD:72392	Tmem175	5	108,629,810	108,647,770	17,960 +	1
GenelD:15932	Idua	5	108,669,106	108,684,558	15,452 +	1
GenelD:116701	Fgfr1	5	108,694,229	108,706,950	12,721 +	1
GenelD:403178	Plcx1	5	110,099,969	110,105,953	5,984 +	2
GenelD:107999	Gtpbp6	5	110,103,977	110,108,197	4,220 -	2
GenelD:675812	Zfp605	5	110,110,092	110,129,794	19,702 +	2
GenelD:269682	Golga3	5	110,176,701	110,223,155	46,454 +	1
GenelD:71782	Ankle2	5	110,231,004	110,256,651	25,647 +	1
GenelD:72542	Pgam5	5	110,259,135	110,269,899	10,764 -	1
GenelD:19301	Pxmp2	5	110,274,286	110,286,168	11,882 -	1
GenelD:381667	Lrcl1	5	110,354,096	110,356,087	1,991 +	1
GenelD:381668	Fbrs1	5	110,361,751	110,448,503	86,752 -	3
GenelD:100608	Noc4l	5	110,648,419	110,653,382	4,963 -	1
GenelD:69663	Ddx51	5	110,653,451	110,660,496	7,045 +	1
GenelD:75560	Ep400	5	110,664,373	110,770,717	106,344 -	1
GenelD:10050404	Gm15559	5	110,770,949	110,779,260	8,311 +	1
GenelD:56361	Pus1	5	110,773,667	110,780,615	6,948 -	1
GenelD:22241	Ulk1	5	110,784,489	110,810,081	25,592 -	1
GenelD:50883	Chek2	5	110,840,017	110,874,133	34,116 +	1
GenelD:209683	Ttc28	5	110,879,803	111,289,780	409,977 +	2
GenelD:56305	Pitpnb	5	111,330,763	111,388,359	57,596 +	1
GenelD:433938	Mn1	5	111,418,166	111,457,025	38,859 +	2
GenelD:12960	Crybb1	5	112,255,821	112,269,582	13,761 +	1
GenelD:22022	Tpst2	5	112,276,707	112,315,356	38,649 +	2
GenelD:54723	Tfip11	5	112,326,369	112,338,073	11,704 +	1
GenelD:333048	Tmem211	5	113,226,909	113,239,263	12,354 +	1
GenelD:14747	Cmklr1	5	113,612,355	113,650,390	38,035 -	1
GenelD:53890	Sart3	5	113,742,446	113,771,649	29,203 -	3
GenelD:10004178	Gm3511	5	113,767,100	113,767,414	314 +	2
GenelD:66383	Iscu	5	113,772,812	113,778,282	5,470 +	2
GenelD:23790	Coro1c	5	113,842,439	113,908,706	66,267 -	1
GenelD:100756	Usp30	5	114,100,333	114,122,924	22,591 +	2
GenelD:231642	Alkbh2	5	114,123,934	114,128,176	4,242 -	2
GenelD:22256	Ung	5	114,130,435	114,139,321	8,886 +	2
GenelD:330171	Kctd10	5	114,363,572	114,380,505	16,933 -	2
GenelD:117146	Ube3b	5	114,380,607	114,421,166	40,559 +	2
GenelD:77697	Mmab	5	114,431,034	114,444,027	12,993 -	1

GenelD:17855	Mvk	5	114,444,306	114,460,591	16,285 +	1
GenelD:433940	Fam222a	5	114,568,251	114,613,218	44,967 +	1
GenelD:26431	Git2	5	114,727,408	114,773,492	46,084 -	2
GenelD:67642	4930515G01Rik	5	114,773,733	114,774,983	1,250 -	2
GenelD:68420	Ankrd13a	5	114,775,140	114,805,821	30,681 +	3
GenelD:10050273	Gm19344	5	114,780,594	114,784,570	3,976 +	2
GenelD:66236	1500011B03Rik	5	114,808,196	114,813,976	5,780 -	2
GenelD:330173	2610524H06Rik	5	114,821,937	114,823,468	1,531 -	2
GenelD:74585	Sppl3	5	115,011,524	115,098,790	87,266 +	2
GenelD:11409	Acads	5	115,110,299	115,119,313	9,014 -	1
GenelD:106840	Unc119b	5	115,122,566	115,134,975	12,409 -	2
GenelD:109154	Mlec	5	115,142,981	115,158,176	15,195 -	2
GenelD:29867	Cabp1	5	115,168,691	115,186,121	17,430 -	1
GenelD:117109	Pop5	5	115,235,851	115,240,972	5,121 +	2
GenelD:50849	Rnf10	5	115,241,770	115,272,895	31,125 -	3
GenelD:52064	Coq5	5	115,279,702	115,296,972	17,270 +	2
GenelD:56455	Dynll1	5	115,297,110	115,300,990	3,880 -	1
GenelD:108014	Srsf9	5	115,327,177	115,333,080	5,903 +	2
GenelD:384281	Gatc	5	115,333,242	115,341,161	7,919 -	3
GenelD:69076	Triap1	5	115,341,247	115,343,552	2,305 +	2
GenelD:12861	Cox6a1	5	115,345,654	115,348,955	3,301 -	2
GenelD:17690	Msi1	5	115,429,685	115,454,202	24,517 +	1
GenelD:78154	4930430O22Rik	5	115,436,070	115,436,638	568 -	1
GenelD:19303	Pxn	5	115,506,702	115,555,986	49,284 +	3
GenelD:11837	Rplp0	5	115,559,467	115,563,729	4,262 +	2
GenelD:231659	Gcn11l	5	115,565,263	115,622,654	57,391 +	2
GenelD:66123	1110006O24Rik	5	115,631,049	115,631,816	767 -	1
GenelD:77407	Rab35	5	115,631,987	115,647,158	15,171 +	1
GenelD:19079	Prkab1	5	116,013,590	116,024,428	10,838 -	1
GenelD:10050293	Gm13842	5	116,026,411	116,029,230	2,819 -	1
GenelD:71954	Suds3	5	117,091,680	117,115,993	24,313 -	2
GenelD:330177	Taok3	5	117,120,129	117,275,101	154,972 +	3
GenelD:10003935	Gm10399	5	117,318,497	117,319,238	741 -	1
GenelD:231668	Vsig10	5	117,319,266	117,355,006	35,740 +	2
GenelD:59043	Wsb2	5	117,357,305	117,378,589	21,284 +	2
GenelD:72151	Rfc5	5	117,379,145	117,389,023	9,878 -	1
GenelD:231670	Fbxo21	5	117,976,770	118,010,191	33,421 +	1
GenelD:57816	Tesc	5	118,027,824	118,061,870	34,046 +	1
GenelD:231672	Fbxw8	5	118,064,981	118,155,458	90,477 -	1
GenelD:76199	Med13l	5	118,560,719	118,765,438	204,719 +	1
GenelD:21386	Tbx3	5	119,670,669	119,684,601	13,932 +	1
GenelD:71772	Plbd2	5	120,483,893	120,503,623	19,730 -	1
GenelD:170756	Slc24a6	5	120,511,192	120,534,024	22,832 +	1
GenelD:252972	Tpcn1	5	120,534,157	120,588,613	54,456 -	1
GenelD:75732	lqcd	5	120,589,023	120,607,113	18,090 +	1
GenelD:14357	Dtx1	5	120,680,264	120,711,669	31,405 -	2
GenelD:19247	Ptpn11	5	121,130,533	121,191,397	60,864 -	1

GenelD:19988	Rpl6	5	121,204,501	121,209,241	4,740 +	1
GenelD:269700	Gm15800	5	121,220,219	121,368,577	148,358 +	1
GenelD:231713	Naa25	5	121,397,982	121,440,113	42,131 +	1
GenelD:67397	Erp29	5	121,444,753	121,452,474	7,721 -	1
GenelD:77462	Tmem116	5	121,452,709	121,495,421	42,712 +	1
GenelD:17165	Mapkapk5	5	121,525,051	121,545,892	20,841 -	1
GenelD:11669	Aldh2	5	121,567,687	121,593,824	26,137 -	1
GenelD:338350	Acad12	5	121,598,281	121,618,938	20,657 -	1
GenelD:71985	Acad10	5	121,621,029	121,660,510	39,481 -	1
GenelD:72399	Brap	5	121,660,586	121,687,248	26,662 +	1
GenelD:20239	Atxn2	5	121,711,609	121,814,950	103,341 +	1
GenelD:16923	Sh2b3	5	121,817,215	121,836,801	19,586 -	3
GenelD:231717	Fam109a	5	121,849,028	121,854,599	5,571 +	1
GenelD:13048	Cux2	5	121,860,216	122,047,825	187,609 -	2
GenelD:19047	Ppp1cc	5	122,158,279	122,175,269	16,990 +	1
GenelD:654470	Tctn1	5	122,241,515	122,264,460	22,945 -	1
GenelD:320717	Pptc7	5	122,284,398	122,324,281	39,883 +	2
GenelD:231724	Rad9b	5	122,325,508	122,354,195	28,687 -	1
GenelD:56433	Vps29	5	122,354,413	122,363,287	8,874 +	2
GenelD:68948	Fam216a	5	122,364,584	122,371,963	7,379 -	2
GenelD:68080	Gpn3	5	122,372,508	122,382,771	10,263 +	2
GenelD:56378	Arpc3	5	122,391,928	122,406,178	14,250 +	1
GenelD:56317	Anapc7	5	122,422,444	122,444,912	22,468 +	1
GenelD:11938	Atp2a2	5	122,453,513	122,502,225	48,712 -	1
GenelD:207565	Camkk2	5	122,731,170	122,779,410	48,240 -	1
GenelD:59008	Anapc5	5	122,787,459	122,821,339	33,880 -	2
GenelD:80751	Rnf34	5	122,850,188	122,868,945	18,757 +	1
GenelD:30841	Kdm2b	5	122,870,668	122,989,092	118,424 -	2
GenelD:109202	A930024E05Rik	5	122,989,354	122,998,345	8,991 +	1
GenelD:10003989	Gm2479	5	123,007,299	123,012,872	5,573 -	1
GenelD:109305	Orai1	5	123,015,074	123,030,452	15,378 +	1
GenelD:330189	Tmem120b	5	123,076,275	123,117,445	41,170 +	1
GenelD:23912	Rhof	5	123,118,180	123,132,629	14,449 -	3
GenelD:74366	4932422M17Rik	5	123,138,252	123,141,563	3,311 +	4
GenelD:208043	Setd1b	5	123,142,193	123,168,630	26,437 +	4
GenelD:67151	Psmd9	5	123,228,190	123,250,126	21,936 +	1
GenelD:77045	Bcl7a	5	123,344,448	123,374,083	29,635 +	1
GenelD:66593	Diablo	5	123,511,330	123,524,164	12,834 -	1
GenelD:77573	Vps33a	5	123,528,757	123,573,015	44,258 -	1
GenelD:56430	Clip1	5	123,579,070	123,684,291	105,221 -	1
GenelD:208606	Rsrc2	5	123,728,430	123,749,412	20,982 -	1
GenelD:208628	Kntc1	5	123,749,726	123,821,593	71,867 +	1
GenelD:68184	Denr	5	123,907,275	123,928,832	21,557 +	1
GenelD:330192	Vps37b	5	124,004,641	124,032,260	27,619 -	1
GenelD:66627	Ogfod2	5	124,112,338	124,115,476	3,138 +	2
GenelD:65105	Arl6ip4	5	124,116,108	124,118,195	2,087 +	2
GenelD:19679	Pitpnm2	5	124,118,690	124,216,418	97,728 -	2

GenelD:269702	Mphosph9	5	124,250,959	124,328,451	77,492 -	1
GenelD:13445	Cdk2ap1	5	124,345,439	124,354,628	9,189 -	2
GenelD:243272	Sbno1	5	124,368,702	124,425,914	57,212 -	1
GenelD:75695	Rilpl1	5	124,493,080	124,531,391	38,311 -	2
GenelD:56334	Tmed2	5	124,540,791	124,550,503	9,712 +	3
GenelD:67848	Ddx55	5	124,552,864	124,569,660	16,796 +	1
GenelD:67978	Tctn2	5	124,598,749	124,627,738	28,989 +	1
GenelD:21871	Atp6v0a2	5	124,629,067	124,646,816	17,749 +	1
GenelD:215707	Ccdc92	5	124,834,432	124,862,221	27,789 -	1
GenelD:269704	Zfp664	5	124,862,705	124,888,630	25,925 +	1
GenelD:20602	Ncor2	5	125,017,153	125,179,214	162,061 -	5
GenelD:20778	Scarb1	5	125,277,087	125,341,094	64,007 -	1
GenelD:22190	Ubc	5	125,385,965	125,390,017	4,052 -	1
GenelD:208213	Tmem132c	5	127,241,826	127,565,790	323,964 +	1
GenelD:100561	Slc15a4	5	127,595,666	127,617,392	21,726 -	1
GenelD:19384	Ran	5	129,020,156	129,024,321	4,165 +	1
GenelD:231769	Sfswap	5	129,501,231	129,571,384	70,153 +	1
GenelD:23948	Mmp17	5	129,584,214	129,608,211	23,997 +	1
GenelD:74222	Sept14	5	129,683,391	129,708,511	25,120 -	1
GenelD:66258	Mrps17	5	129,715,528	129,718,691	3,163 +	1
GenelD:14467	Gbas	5	129,725,075	129,758,325	33,250 +	1
GenelD:100678	Psph	5	129,765,558	129,787,253	21,695 -	1
GenelD:12466	Cct6a	5	129,787,385	129,794,500	7,115 +	1
GenelD:10011336	Snora15	5	129,794,561	129,794,676	115 +	1
GenelD:18682	Phkg1	5	129,863,435	129,879,083	15,648 -	1
GenelD:14004	Chchd2	5	129,881,161	129,887,470	6,309 -	1
GenelD:71970	2410018M08Rik	5	129,895,723	129,903,623	7,900 +	1
GenelD:56715	Rabgef1	5	130,171,819	130,214,337	42,518 +	1
GenelD:71667	Tmem248	5	130,219,744	130,243,765	24,021 +	1
GenelD:66711	Sbds	5	130,245,732	130,255,462	9,730 -	1
GenelD:100929	Tyw1	5	130,255,619	130,341,567	85,948 +	1
GenelD:319974	Auts2	5	131,437,682	132,542,343	1,104,661 -	3
GenelD:80909	Gatsl2	5	134,099,748	134,141,782	42,034 +	1
GenelD:94254	Wbscr16	5	134,148,058	134,176,767	28,709 -	1
GenelD:114674	Gtf2ird2	5	134,184,038	134,218,143	34,105 +	1
GenelD:14886	Gtf2i	5	134,237,834	134,314,746	76,912 -	1
GenelD:269713	Clip2	5	134,489,386	134,552,434	63,048 -	1
GenelD:214292	Syna	5	134,557,254	134,560,171	2,917 -	1
GenelD:22384	Eif4h	5	134,619,876	134,639,328	19,452 -	1
GenelD:16885	Limk1	5	134,656,039	134,688,590	32,551 -	1
GenelD:10003850	Gm10369	5	134,676,490	134,680,145	3,655 +	1
GenelD:20907	Stx1a	5	135,023,572	135,051,099	27,527 +	1
GenelD:66138	Wbscr22	5	135,052,957	135,064,666	11,709 -	1
GenelD:66114	Dnajc30	5	135,064,206	135,065,365	1,159 +	1
GenelD:194309	Vps37d	5	135,072,900	135,078,266	5,366 -	1
GenelD:58805	Mlxipl	5	135,106,891	135,138,382	31,491 +	1
GenelD:27368	Tbl2	5	135,149,711	135,162,662	12,951 +	2

GenelD:12054	Bcl7b	5	135,168,372	135,181,852	13,480 +	2
GenelD:22385	Baz1b	5	135,187,323	135,246,129	58,806 +	2
GenelD:14371	Fzd9	5	135,248,938	135,251,047	2,109 -	1
GenelD:107939	Pom121	5	135,376,140	135,394,546	18,406 -	1
GenelD:215114	Hip1	5	135,406,518	135,545,122	138,604 -	1
GenelD:18984	Por	5	135,689,214	135,735,325	46,111 +	1
GenelD:215210	Tmem120a	5	135,735,490	135,744,172	8,682 -	1
GenelD:76571	Styx1	5	135,747,220	135,778,385	31,165 -	2
GenelD:17448	Mdh2	5	135,778,649	135,790,386	11,737 +	1
GenelD:22628	Ywhag	5	135,908,379	135,934,641	26,262 -	1
GenelD:23921	Sh2b2	5	136,218,149	136,244,903	26,754 -	2
GenelD:13047	Cux1	5	136,248,135	136,567,431	319,296 -	2
GenelD:140709	Col26a1	5	136,741,764	136,883,107	141,343 -	1
GenelD:67286	Rab15	5	136,908,150	136,913,244	5,094 +	1
GenelD:70103	Znhit1	5	136,982,201	136,987,882	5,681 -	1
GenelD:26433	Plod3	5	136,987,019	136,996,646	9,627 +	1
GenelD:735283	Mir702	5	136,991,433	136,991,541	108 +	1
GenelD:381677	Vgf	5	137,030,295	137,033,351	3,056 +	1
GenelD:11769	Ap1s1	5	137,034,994	137,046,060	11,066 -	1
GenelD:11423	Ache	5	137,288,277	137,294,463	6,186 +	1
GenelD:70240	Ufsp1	5	137,294,669	137,295,664	995 +	1
GenelD:83701	Srrt	5	137,295,704	137,307,674	11,970 -	3
GenelD:22051	Trip6	5	137,309,899	137,314,241	4,342 -	2
GenelD:83704	Slc12a9	5	137,314,558	137,333,582	19,024 -	3
GenelD:13846	Ephb4	5	137,350,109	137,374,522	24,413 +	1
GenelD:74097	Pop7	5	137,501,439	137,502,429	990 -	1
GenelD:57330	Gigyf1	5	137,518,880	137,527,935	9,055 +	4
GenelD:14693	Gnb2	5	137,528,129	137,533,229	5,100 -	3
GenelD:71176	Fbxo24	5	137,612,505	137,625,078	12,573 -	1
GenelD:231798	Lrch4	5	137,629,123	137,641,099	11,976 +	1
GenelD:10031690	Gm20605	5	137,629,123	137,642,896	13,773 +	1
GenelD:243300	Nyap1	5	137,730,948	137,739,998	9,050 -	2
GenelD:78829	Tsc22d4	5	137,745,969	137,768,453	22,484 +	2
GenelD:69871	Ppp1r35	5	137,778,918	137,780,107	1,189 +	2
GenelD:231803	Mepce	5	137,781,906	137,786,701	4,795 -	2
GenelD:381678	Zcwpw1	5	137,787,802	137,822,621	34,819 +	2
GenelD:74570	Zkscan1	5	138,085,084	138,107,822	22,738 +	1
GenelD:26893	Cops6	5	138,161,102	138,163,984	2,882 +	1
GenelD:17220	Mcm7	5	138,164,589	138,171,862	7,273 -	1
GenelD:723926	Mir25	5	138,165,321	138,165,404	83 -	1
GenelD:723885	Mir93	5	138,165,523	138,165,610	87 -	1
GenelD:723925	Mir106b	5	138,165,737	138,165,818	81 -	1
GenelD:11781	Ap4m1	5	138,172,021	138,178,687	6,666 +	1
GenelD:21343	Taf6	5	138,178,617	138,187,186	8,569 -	1
GenelD:66096	Lamtor4	5	138,255,482	138,259,395	3,913 +	1
GenelD:231807	BC037034	5	138,259,658	138,264,052	4,394 -	1
GenelD:69004	6330418K02Rik	5	138,264,045	138,266,661	2,616 +	1

GenelD:330217	Gal3st4	5	138,264,925	138,272,754	7,829 -	1
GenelD:71951	Gpc2	5	138,273,660	138,279,937	6,277 -	1
GenelD:72154	Zfp157	5	138,441,476	138,460,694	19,218 +	1
GenelD:80752	Fam20c	5	138,755,081	138,810,063	54,982 +	1
GenelD:18590	Pdgfa	5	138,976,971	138,994,953	17,982 -	3
GenelD:433956	Heatr2	5	139,150,223	139,186,505	36,282 +	1
GenelD:77053	Sun1	5	139,200,637	139,249,839	49,202 +	1
GenelD:545817	Cyp2w1	5	139,352,617	139,357,033	4,416 +	1
GenelD:73212	3110082I17Rik	5	139,359,739	139,460,534	100,795 -	3
GenelD:723898	Mir339	5	139,369,650	139,369,745	95 -	1
GenelD:320197	D830046C22Rik	5	139,377,697	139,380,053	2,356 +	2
GenelD:80290	Gpr146	5	139,380,667	139,396,414	15,747 +	2
GenelD:100494	Zfand2a	5	139,471,216	139,484,491	13,275 -	1
GenelD:74973	4930500L23Rik	5	139,523,751	139,541,339	17,588 +	1
GenelD:22255	Uncx	5	139,543,898	139,548,179	4,281 +	1
GenelD:68510	Ints1	5	139,751,282	139,775,678	24,396 -	1
GenelD:17135	Mafk	5	139,791,536	139,802,652	11,116 +	2
GenelD:231832	Tmem184a	5	139,804,952	139,814,283	9,331 -	1
GenelD:66506	Psmg3	5	139,823,594	139,826,843	3,249 -	1
GenelD:243312	Elfn1	5	139,907,943	139,974,725	66,782 +	1
GenelD:17120	Mad1l1	5	140,008,689	140,321,552	312,863 -	1
GenelD:68017	Ftsj2	5	140,327,674	140,331,898	4,224 -	1
GenelD:17766	Nudt1	5	140,331,922	140,338,135	6,213 +	1
GenelD:27979	Eif3b	5	140,419,305	140,443,358	24,053 +	1
GenelD:16848	Lfng	5	140,607,341	140,615,545	8,204 +	2
GenelD:791272	Gm10091	5	140,615,695	140,618,343	2,648 +	2
GenelD:78339	Ttyh3	5	140,620,578	140,649,031	28,453 -	2
GenelD:74239	lqce	5	140,663,505	140,702,378	38,873 -	1
GenelD:231841	Brat1	5	140,705,023	140,719,334	14,311 +	1
GenelD:14673	Gna12	5	140,759,944	140,830,431	70,487 -	1
GenelD:17425	Foxk1	5	142,401,497	142,462,015	60,518 +	2
GenelD:231855	Ap5z1	5	142,463,931	142,478,715	14,784 +	1
GenelD:231858	Radil	5	142,484,841	142,551,077	66,236 -	1
GenelD:231861	Tnrc18	5	142,724,605	142,817,387	92,782 -	4
GenelD:231863	Fbxl18	5	142,871,789	142,895,238	23,449 -	2
GenelD:11461	Actb	5	142,903,116	142,906,724	3,608 -	2
GenelD:14086	Fscn1	5	142,960,355	142,973,189	12,834 +	1
GenelD:231866	Zfp12	5	143,235,208	143,247,970	12,762 +	1
GenelD:54201	Zfp316	5	143,249,695	143,270,022	20,327 -	1
GenelD:330230	Zfp853	5	143,287,594	143,292,404	4,810 -	1
GenelD:231868	E130309D02Rik	5	143,301,072	143,315,360	14,288 -	1
GenelD:72881	Zdhhc4	5	143,316,489	143,329,238	12,749 -	2
GenelD:67672	O610040B10Rik	5	143,329,308	143,332,704	3,396 +	1
GenelD:66913	Kdelr2	5	143,403,820	143,421,904	18,084 +	1
GenelD:19353	Rac1	5	143,505,481	143,527,993	22,512 -	1
GenelD:19159	Cyth3	5	143,622,447	143,710,250	87,803 +	1
GenelD:231874	Ccz1	5	143,987,909	144,014,853	26,944 -	1

GenelD:18261	Ocm	5	144,019,807	144,050,609	30,802 -	1
GenelD:231876	Lmtk2	5	144,100,436	144,188,204	87,768 +	1
GenelD:55950	Bri3	5	144,244,437	144,264,573	20,136 +	1
GenelD:66898	Baiap211	5	144,264,525	144,358,112	93,587 -	1
GenelD:75873	4930568B11Rik	5	144,544,888	144,546,036	1,148 -	1
GenelD:53324	Nptx2	5	144,545,887	144,557,478	11,591 +	1
GenelD:243339	Tmem130	5	144,735,915	144,761,578	25,663 -	1
GenelD:100683	Trrap	5	144,768,792	144,859,773	90,981 +	1
GenelD:75788	Smurf1	5	144,876,495	144,965,830	89,335 -	1
GenelD:56443	Arpc1a	5	145,083,869	145,108,756	24,887 +	2
GenelD:11867	Arpc1b	5	145,114,256	145,128,186	13,930 +	1
GenelD:231887	Pdap1	5	145,128,770	145,140,089	11,319 -	1
GenelD:231889	Bud31	5	145,140,397	145,148,074	7,677 +	1
GenelD:71799	Ptcd1	5	145,147,378	145,167,104	19,726 -	2
GenelD:54188	Cpsf4	5	145,167,224	145,182,040	14,816 +	1
GenelD:22757	Zkscan5	5	145,204,559	145,221,750	17,191 +	1
GenelD:72611	Zfp655	5	145,231,715	145,247,306	15,591 +	1
GenelD:666311	Zscan25	5	145,283,343	145,291,469	8,126 +	1
GenelD:74132	Rnf6	5	146,209,193	146,221,457	12,264 -	1
GenelD:264064	Cdk8	5	146,231,675	146,302,874	71,199 +	1
GenelD:19933	Rpl21	5	146,832,890	146,837,032	4,142 +	1
GenelD:66596	Gtf3a	5	146,948,657	146,955,614	6,957 +	1
GenelD:76366	Mtif3	5	146,951,573	146,963,797	12,224 -	1
GenelD:140887	Ln timer	5	147,016,655	147,076,572	59,917 -	1
GenelD:20018	Polr1d	5	147,077,541	147,111,359	33,818 +	1
GenelD:10003980	D5Ertd605e	5	147,418,620	147,423,044	4,424 +	1
GenelD:72587	Pan3	5	147,430,580	147,548,501	117,921 +	1
GenelD:14254	Flt1	5	147,562,196	147,725,988	163,792 -	1
GenelD:66537	Pomp	5	147,860,628	147,875,778	15,150 +	1
GenelD:11987	Slc7a1	5	148,327,410	148,399,904	72,494 -	1
GenelD:231912	Katnal1	5	148,871,584	148,928,647	57,063 -	1
GenelD:15289	Hmgb1	5	149,047,227	149,053,037	5,810 -	1
GenelD:69657	2310047D07Rik	5	149,237,154	149,237,987	833 +	1
GenelD:15505	Hsph1	5	149,616,845	149,636,315	19,470 -	1
GenelD:10050399	Gm20005	5	149,641,602	149,648,163	6,561 +	1
GenelD:433968	Gm5566	5	149,660,652	149,668,937	8,285 -	1
GenelD:381694	B3galt1	5	149,678,257	149,762,599	84,342 +	1
GenelD:100637	N4bp211	5	150,571,643	150,594,525	22,882 -	1
GenelD:381695	N4bp212	5	150,635,973	150,665,612	29,639 -	2
GenelD:100710	Pds5b	5	150,673,827	150,810,669	136,842 +	2
GenelD:16591	Kl	5	150,952,607	150,993,817	41,210 +	1
GenelD:213819	Casd1	6	4,601,066	4,643,381	42,315 +	1
GenelD:10004001	Gm9835	6	4,893,352	4,903,214	9,862 -	1
GenelD:243725	Ppp1r9a	6	4,903,320	5,165,661	262,341 +	1
GenelD:50799	Slc25a13	6	6,041,218	6,217,173	175,955 -	1
GenelD:10105613	LOC101056138	6	6,222,535	6,280,821	58,286 +	1
GenelD:13395	Dlx5	6	6,877,805	6,882,068	4,263 -	1

GenelD:252875	Mios	6	8,209,227	8,236,274	27,047 +	1
GenelD:75725	Phf14	6	11,925,881	12,081,198	155,317 +	1
GenelD:71900	Tmem106b	6	13,069,759	13,089,269	19,510 +	1
GenelD:101118	Tmem168	6	13,580,689	13,608,063	27,374 -	1
GenelD:64450	Gpr85	6	13,835,071	13,839,848	4,777 -	1
GenelD:114142	Foxp2	6	14,901,349	15,441,977	540,628 +	1
GenelD:16543	Mdfic	6	15,720,661	15,802,169	81,508 +	1
GenelD:10050430	Gm15473	6	17,058,803	17,064,996	6,193 -	1
GenelD:21753	Tes	6	17,065,149	17,105,825	40,676 +	1
GenelD:30785	Cttnbp2	6	18,366,477	18,514,825	148,348 -	1
GenelD:16508	Kcnd2	6	21,216,109	21,729,805	513,696 +	1
GenelD:73178	Wasl	6	24,613,810	24,664,995	51,185 -	1
GenelD:319832	Tmem229a	6	24,951,141	24,956,125	4,984 -	1
GenelD:14763	Gpr37	6	25,668,523	25,689,980	21,457 -	1
GenelD:627049	Zfp800	6	28,239,931	28,261,601	21,670 -	1
GenelD:56463	Snd1	6	28,480,348	28,888,832	408,484 +	2
GenelD:192198	Lrrc4	6	28,828,126	28,831,747	3,621 -	2
GenelD:68272	Rbm28	6	29,123,573	29,164,724	41,151 -	1
GenelD:101359	Prrt4	6	29,169,230	29,179,584	10,354 -	1
GenelD:232664	Ccdc136	6	29,398,926	29,426,995	28,069 +	1
GenelD:68794	Flnc	6	29,433,153	29,461,888	28,735 +	1
GenelD:27056	Irf5	6	29,526,625	29,537,320	10,695 +	1
GenelD:319757	Smo	6	29,735,497	29,761,366	25,869 +	2
GenelD:74340	Ahcyl2	6	29,768,443	29,912,310	143,867 +	1
GenelD:18181	Nrf1	6	30,047,988	30,153,458	105,470 +	1
GenelD:22214	Ube2h	6	30,211,289	30,304,539	93,250 -	1
GenelD:17294	Mest	6	30,733,506	30,748,466	14,960 +	1
GenelD:723930	Mir335	6	30,741,299	30,741,396	97 +	1
GenelD:54160	Copg2	6	30,748,411	30,750,638	2,227 -	1
GenelD:619665	Klf14	6	30,956,021	30,958,990	2,969 -	1
GenelD:10050386	Gm13845	6	31,366,885	31,398,773	31,888 -	1
GenelD:27418	Mkln1	6	31,398,828	31,509,482	110,654 +	1
GenelD:27205	Podxl	6	31,519,493	31,563,937	44,444 -	1
GenelD:58246	Slc35b4	6	34,155,879	34,177,054	21,175 -	1
GenelD:11677	Akr1b3	6	34,303,930	34,317,489	13,559 -	1
GenelD:109624	Cald1	6	34,709,444	34,775,469	66,025 +	1
GenelD:76223	Agbl3	6	34,780,432	34,857,932	77,500 +	1
GenelD:70699	Nup205	6	35,177,616	35,247,599	69,983 +	1
GenelD:14489	Mtpn	6	35,508,824	35,539,888	31,064 -	1
GenelD:208647	Creb3l2	6	37,331,021	37,442,148	111,127 -	1
GenelD:21848	Trim24	6	37,870,811	37,966,292	95,481 +	1
GenelD:209032	Zc3hav1l	6	38,287,394	38,299,259	11,865 -	1
GenelD:78781	Zc3hav1	6	38,310,497	38,354,603	44,106 -	1
GenelD:264134	Ttc26	6	38,381,524	38,427,647	46,123 +	1
GenelD:320538	Ubn2	6	38,433,925	38,512,763	78,838 +	1
GenelD:74253	Klrg2	6	38,626,660	38,637,239	10,579 -	1
GenelD:15258	Hipk2	6	38,697,840	38,876,190	178,350 -	2

GenelD:243771	Parp12	6	39,086,412	39,118,349	31,937 -	1
GenelD:75379	4930599N23Rik	6	39,118,473	39,148,312	29,839 +	1
GenelD:338523	Jhdm1d	6	39,136,620	39,206,773	70,153 -	1
GenelD:72144	Slc37a3	6	39,334,770	39,377,707	42,937 -	1
GenelD:19331	Rab19	6	39,381,428	39,390,380	8,952 +	1
GenelD:54484	Mkrn1	6	39,397,821	39,420,369	22,548 -	1
GenelD:209773	Dennd2a	6	39,462,378	39,557,834	95,456 -	1
GenelD:109880	Braf	6	39,603,237	39,725,463	122,226 -	1
GenelD:22793	Zyx	6	42,349,828	42,358,395	8,567 +	1
GenelD:13835	Epha1	6	42,358,487	42,373,268	14,781 -	1
GenelD:320946	A930035D04Rik	6	47,452,390	47,460,855	8,465 -	1
GenelD:26965	Cul1	6	47,454,324	47,526,139	71,815 +	1
GenelD:14056	Ezh2	6	47,530,274	47,595,030	64,756 -	1
GenelD:330301	Zfp786	6	47,819,266	47,830,505	11,239 -	1
GenelD:272347	Zfp398	6	47,835,661	47,868,257	32,596 +	1
GenelD:101095	Zfp282	6	47,877,555	47,908,485	30,930 +	1
GenelD:232784	Zfp212	6	47,920,568	47,932,639	12,071 +	1
GenelD:232785	Zfp783	6	47,943,175	47,954,549	11,374 +	1
GenelD:101197	Zfp956	6	47,953,390	47,965,300	11,910 +	1
GenelD:72306	Zfp777	6	48,024,188	48,048,114	23,926 -	2
GenelD:68910	Zfp467	6	48,427,692	48,445,825	18,133 -	2
GenelD:243369	Sspo	6	48,448,229	48,501,250	53,021 +	2
GenelD:330305	Gm5111	6	48,589,445	48,590,584	1,139 +	2
GenelD:58887	Repin1	6	48,593,883	48,599,082	5,199 +	3
GenelD:75593	Malsu1	6	49,073,795	49,084,717	10,922 +	1
GenelD:140488	Igf2bp3	6	49,085,218	49,214,954	129,736 -	3
GenelD:101214	Tra2a	6	49,243,921	49,264,052	20,131 -	1
GenelD:71720	Osbp13	6	50,293,327	50,456,170	162,843 -	1
GenelD:73183	5430402O13Rik	6	50,566,643	50,594,865	28,222 +	1
GenelD:70821	4921507P07Rik	6	50,573,304	50,596,590	23,286 -	1
GenelD:387166	Mir148a	6	51,269,812	51,269,910	98 -	1
GenelD:18025	Nfe2l3	6	51,432,670	51,458,768	26,098 +	1
GenelD:15394	Hoxa1	6	52,155,367	52,158,317	2,950 -	1
GenelD:10050406	Gm15051	6	52,158,524	52,162,289	3,765 +	1
GenelD:15399	Hoxa2	6	52,162,511	52,164,831	2,320 -	1
GenelD:10050396	LOC100503966	6	52,165,674	52,169,576	3,902 +	1
GenelD:15400	Hoxa3	6	52,169,062	52,213,067	44,005 -	2
GenelD:72628	2700086A05Rik	6	52,201,124	52,213,597	12,473 +	2
GenelD:15402	Hoxa5	6	52,201,754	52,204,587	2,833 -	1
GenelD:15403	Hoxa6	6	52,206,365	52,208,624	2,259 -	1
GenelD:10073624	Mira	6	52,214,491	52,215,288	797 -	2
GenelD:15404	Hoxa7	6	52,215,623	52,218,573	2,950 -	2
GenelD:15405	Hoxa9	6	52,224,054	52,227,370	3,316 -	3
GenelD:723820	Mir196b	6	52,230,081	52,230,165	84 -	3
GenelD:15395	Hoxa10	6	52,231,197	52,240,854	9,657 -	3
GenelD:15396	Hoxa11	6	52,242,106	52,245,767	3,661 -	1
GenelD:58875	Hibadh	6	52,546,230	52,640,300	94,070 -	1

GenelD:52440	Tax1bp1	6	52,713,729	52,766,780	53,051 +	1
GenelD:66873	Tril	6	53,815,468	53,820,825	5,357 -	1
GenelD:69993	Chn2	6	54,039,932	54,301,812	261,880 +	1
GenelD:10004205	9130019P16Rik	6	54,269,681	54,430,221	160,540 -	1
GenelD:69938	Scrn1	6	54,508,816	54,566,382	57,566 -	1
GenelD:231997	Fkbp14	6	54,577,605	54,593,128	15,523 -	1
GenelD:231999	Plekha8	6	54,595,111	54,645,823	50,712 +	1
GenelD:107607	Nod1	6	54,923,942	54,972,612	48,670 -	1
GenelD:353172	Gars	6	55,038,001	55,079,504	41,503 +	1
GenelD:11517	Adcyap1r1	6	55,451,980	55,501,455	49,475 +	1
GenelD:78937	Avl9	6	56,714,905	56,761,911	47,006 +	1
GenelD:107569	Nt5c3	6	56,882,400	56,923,932	41,532 -	1
GenelD:73998	Herc3	6	58,833,700	58,920,398	86,698 +	1
GenelD:13990	Smarcad1	6	65,042,667	65,116,049	73,382 +	1
GenelD:68169	Ndnf	6	65,671,611	65,706,930	35,319 +	1
GenelD:75373	4930597O21Rik	6	66,894,644	66,921,502	26,858 -	1
GenelD:14701	Gng12	6	66,896,397	67,021,361	124,964 +	1
GenelD:13197	Gadd45a	6	67,035,096	67,037,407	2,311 -	1
GenelD:320172	E230016M11Rik	6	67,036,599	67,080,652	44,053 +	1
GenelD:66870	Serbp1	6	67,266,979	67,289,302	22,323 +	1
GenelD:68477	Rmnd5a	6	71,388,634	71,440,637	52,003 -	1
GenelD:22644	Rnf103	6	71,493,894	71,510,881	16,987 +	1
GenelD:66700	Chmp3	6	71,543,854	71,581,574	37,720 +	1
GenelD:104263	Kdm3a	6	71,588,972	71,632,905	43,933 -	1
GenelD:52250	Reep1	6	71,707,681	71,810,710	103,029 +	1
GenelD:20454	St3gal5	6	72,097,613	72,154,570	56,957 +	1
GenelD:71093	Atoh8	6	72,206,177	72,235,577	29,400 -	1
GenelD:28035	Usp39	6	72,318,676	72,345,175	26,499 -	1
GenelD:68364	0610030E20Rik	6	72,347,317	72,353,162	5,845 +	2
GenelD:232086	Tmem150a	6	72,355,483	72,359,762	4,279 +	2
GenelD:66510	Rnf181	6	72,359,714	72,362,381	2,667 -	1
GenelD:53620	Vamp5	6	72,368,049	72,380,468	12,419 -	2
GenelD:22320	Vamp8	6	72,385,221	72,390,667	5,446 -	1
GenelD:56316	Ggcx	6	72,414,333	72,430,707	16,374 +	1
GenelD:232087	Mat2a	6	72,432,799	72,439,558	6,759 -	1
GenelD:78108	4930414L22Rik	6	72,438,683	72,440,615	1,932 +	1
GenelD:21415	Tcf7l1	6	72,626,380	72,788,956	162,576 -	1
GenelD:74287	Kcmf1	6	72,841,114	72,899,979	58,865 -	2
GenelD:19240	Tmsb10	6	72,957,347	72,958,748	1,401 -	1
GenelD:15277	Hk2	6	82,725,025	82,774,454	49,429 -	1
GenelD:16950	Loxl3	6	83,034,224	83,052,564	18,340 +	2
GenelD:64704	Htra2	6	83,051,266	83,054,571	3,305 -	2
GenelD:11993	Aup1	6	83,054,653	83,057,682	3,029 +	2
GenelD:93838	Dqx1	6	83,057,844	83,067,219	9,375 +	3
GenelD:21909	Tlx2	6	83,068,325	83,070,225	1,900 -	1
GenelD:69837	Pcgf1	6	83,078,390	83,080,855	2,465 +	1
GenelD:243510	Ccdc142	6	83,101,516	83,109,121	7,605 +	2

GenelD:68499	Mrpl53	6	83,109,108	83,109,932	824 +	2
GenelD:57377	Mogs	6	83,115,506	83,118,898	3,392 +	2
GenelD:22377	Wbp1	6	83,119,044	83,121,461	2,417 -	2
GenelD:70020	Ino80b	6	83,121,828	83,125,029	3,201 -	2
GenelD:20166	Rtkn	6	83,135,808	83,152,579	16,771 +	2
GenelD:75659	Wdr54	6	83,152,710	83,156,379	3,669 -	2
GenelD:71837	1700003E16Rik	6	83,156,404	83,162,975	6,571 +	2
GenelD:13191	Dctn1	6	83,165,924	83,200,118	34,194 +	2
GenelD:17768	Mthfd2	6	83,305,704	83,317,604	11,900 -	2
GenelD:232157	Mob1a	6	83,326,039	83,340,949	14,910 +	2
GenelD:78653	Bola3	6	83,349,484	83,358,392	8,908 +	1
GenelD:194388	Tet3	6	83,362,373	83,441,678	79,305 -	2
GenelD:320775	B230319C09Rik	6	83,441,755	83,448,322	6,567 +	2
GenelD:232174	Cyp26b1	6	84,571,414	84,593,908	22,494 -	2
GenelD:75914	Exoc6b	6	84,618,486	85,069,513	451,027 -	1
GenelD:94282	Sfxn5	6	85,213,051	85,333,422	120,371 -	1
GenelD:52055	Rab11fip5	6	85,334,962	85,374,634	39,672 -	2
GenelD:735267	Mir705	6	85,336,292	85,336,373	81 -	1
GenelD:384452	Noto	6	85,423,886	85,428,877	4,991 +	1
GenelD:232187	Smyd5	6	85,431,976	85,446,429	14,453 +	1
GenelD:330369	Fbxo41	6	85,469,578	85,502,886	33,308 -	2
GenelD:13656	Egr4	6	85,511,122	85,513,542	2,420 -	1
GenelD:236266	Alms1	6	85,587,531	85,702,751	115,220 +	1
GenelD:26910	Figla	6	86,017,191	86,020,996	3,805 +	1
GenelD:21802	Tgfa	6	86,195,251	86,275,449	80,198 +	1
GenelD:66488	Fam136a	6	86,365,683	86,370,058	4,375 +	2
GenelD:68011	Snrpg	6	86,371,540	86,378,902	7,362 +	2
GenelD:66881	Pcyox1	6	86,386,006	86,397,150	11,144 -	2
GenelD:21841	Tia1	6	86,404,219	86,433,405	29,186 +	2
GenelD:23983	Pcbp1	6	86,524,494	86,526,171	1,677 -	1
GenelD:72012	1600020E01Rik	6	86,527,330	86,564,449	37,119 +	1
GenelD:23885	Gmcl1	6	86,691,768	86,733,378	41,610 -	1
GenelD:11746	Anxa4	6	86,736,840	86,793,584	56,744 -	1
GenelD:14583	Gfpt1	6	87,042,846	87,092,207	49,361 +	1
GenelD:10050326	Gm19618	6	87,707,198	87,722,084	14,886 -	1
GenelD:58229	Efcc1	6	87,730,869	87,755,912	25,043 +	1
GenelD:69834	Rab43	6	87,788,853	87,811,779	22,926 -	1
GenelD:57905	Isy1	6	87,818,447	87,838,759	20,312 -	1
GenelD:54161	Copg1	6	87,887,940	87,913,595	25,655 +	1
GenelD:232210	8430410A17Rik	6	87,913,976	87,936,614	22,638 +	1
GenelD:243529	H1fx	6	87,980,421	87,981,482	1,061 -	1
GenelD:434064	Gm5577	6	87,981,683	87,984,180	2,497 +	1
GenelD:103963	Rpn1	6	88,084,473	88,105,304	20,831 +	1
GenelD:74589	Kbtbd12	6	88,613,751	88,627,445	13,694 -	1
GenelD:23945	Mgll	6	88,724,412	88,828,360	103,948 +	1
GenelD:17216	Mcm2	6	88,883,474	88,898,780	15,306 -	1
GenelD:24100	Tpra1	6	88,902,251	88,912,240	9,989 +	1

GenelD:18844	Plxna1	6	89,316,313	89,362,613	46,300 -	1
GenelD:232223	Txnrd3	6	89,643,988	89,675,529	31,541 +	1
GenelD:243537	Uroc1	6	90,333,289	90,364,551	31,262 +	1
GenelD:80292	Zxdc	6	90,369,494	90,403,486	33,992 +	1
GenelD:66277	Klf15	6	90,462,626	90,475,209	12,583 +	1
GenelD:232227	Iqsec1	6	90,659,598	90,810,123	150,525 -	2
GenelD:54563	Nup210	6	91,013,067	91,116,826	103,759 -	1
GenelD:21366	Slc6a6	6	91,684,067	91,759,063	74,996 +	1
GenelD:330385	9530026P05Rik	6	92,940,582	93,111,749	171,167 +	2
GenelD:67582	Slc25a26	6	94,500,314	94,604,655	104,341 +	1
GenelD:16206	Lrig1	6	94,604,529	94,700,145	95,616 -	1
GenelD:243574	Kbtbd8	6	95,117,906	95,129,790	11,884 +	1
GenelD:20917	Suclg2	6	95,474,134	95,718,837	244,703 -	1
GenelD:101351	Eogt	6	97,110,944	97,148,883	37,939 -	1
GenelD:232286	Tmf1	6	97,151,950	97,179,124	27,174 -	2
GenelD:22200	Uba3	6	97,183,816	97,205,642	21,826 -	1
GenelD:232288	Frm4b	6	97,286,867	97,617,657	330,790 -	2
GenelD:66892	Eif4e3	6	99,625,137	99,666,771	41,634 -	1
GenelD:14761	Gpr27	6	99,692,679	99,693,818	1,139 +	1
GenelD:56353	Rybp	6	100,228,565	100,287,358	58,793 -	1
GenelD:72171	Shq1	6	100,573,082	100,671,157	98,075 -	1
GenelD:55983	Pdzn3	6	101,149,607	101,377,897	228,290 -	1
GenelD:70047	Trnt1	6	106,769,138	106,782,474	13,336 +	1
GenelD:58799	Crbn	6	106,778,244	106,800,074	21,830 -	1
GenelD:58911	Sumf1	6	108,107,021	108,185,583	78,562 -	1
GenelD:67166	Arl8b	6	108,783,059	108,823,723	40,664 +	2
GenelD:192193	Edem1	6	108,828,641	108,859,356	30,715 +	1
GenelD:18430	Oxtr	6	112,473,684	112,489,808	16,124 -	1
GenelD:14911	Thumpd3	6	113,046,327	113,068,273	21,946 +	2
GenelD:14910	Gt(ROSA)26Sor	6	113,067,428	113,077,244	9,816 -	2
GenelD:72895	Setd5	6	113,077,639	113,153,424	75,785 +	2
GenelD:211232	Cpne9	6	113,282,307	113,305,571	23,264 +	1
GenelD:78783	Brpf1	6	113,307,197	113,324,709	17,512 +	1
GenelD:18294	Ogg1	6	113,326,976	113,334,188	7,212 +	1
GenelD:52163	Camk1	6	113,334,124	113,343,922	9,798 -	1
GenelD:14311	Cidec	6	113,424,636	113,435,755	11,119 -	1
GenelD:67767	Jagn1	6	113,442,517	113,448,229	5,712 +	1
GenelD:171095	Il17rc	6	113,471,455	113,483,163	11,708 +	1
GenelD:171508	Creld1	6	113,483,569	113,493,338	9,769 +	2
GenelD:210673	Prrt3	6	113,494,095	113,501,818	7,723 -	1
GenelD:66087	Emc3	6	113,514,887	113,531,638	16,751 -	1
GenelD:211651	Fancd2	6	113,531,682	113,596,285	64,603 +	2
GenelD:70979	Fancd2os	6	113,596,762	113,600,715	3,953 -	1
GenelD:101314	Brk1	6	113,604,772	113,616,951	12,179 +	2
GenelD:22346	Vhl	6	113,624,021	113,631,633	7,612 +	1
GenelD:108960	Irak2	6	113,638,467	113,695,026	56,559 +	1
GenelD:381801	Tatdn2	6	113,697,499	113,711,068	13,569 +	1

GenelD:110157	Raf1	6	115,618,573	115,676,635	58,062 -	1
GenelD:67088	Cand2	6	115,774,557	115,805,555	30,998 +	1
GenelD:19951	Rpl32	6	115,805,514	115,808,743	3,229 -	1
GenelD:10021745	Snora7a	6	115,807,975	115,808,103	128 -	1
GenelD:212516	Efcab12	6	115,810,729	115,838,412	27,683 -	1
GenelD:67784	Plxnd1	6	115,954,811	115,995,005	40,194 -	1
GenelD:330401	Tmcc1	6	116,018,618	116,193,374	174,756 -	1
GenelD:666648	Gm8213	6	116,195,418	116,195,858	440 -	1
GenelD:67492	Zfand4	6	116,264,235	116,329,627	65,392 +	1
GenelD:71779	March8	6	116,338,123	116,409,540	71,417 +	1
GenelD:20315	Cxcl12	6	117,168,535	117,181,368	12,833 +	1
GenelD:98758	Hnrnpf	6	117,900,340	117,925,622	25,282 +	1
GenelD:213895	Bms1	6	118,383,381	118,419,417	36,036 -	1
GenelD:72720	Zfp248	6	118,427,319	118,455,506	28,187 -	1
GenelD:12288	Cacna1c	6	118,592,296	119,196,409	604,113 -	1
GenelD:319618	Dcp1b	6	119,175,253	119,221,614	46,361 +	1
GenelD:22419	Wnt5b	6	119,432,531	119,544,347	111,816 -	2
GenelD:101358	Fbxl14	6	119,479,668	119,483,886	4,218 +	2
GenelD:111173	Erc1	6	119,570,796	119,848,150	277,354 -	1
GenelD:67289	3110021A11Rik	6	119,848,193	119,849,029	836 +	1
GenelD:232341	Wnk1	6	119,923,969	120,038,655	114,686 -	1
GenelD:735290	Mir706	6	120,034,228	120,034,311	83 -	1
GenelD:330406	B4galnt3	6	120,203,810	120,294,559	90,749 -	1
GenelD:67200	Ccdc77	6	120,324,322	120,364,369	40,047 -	1
GenelD:214899	Kdm5a	6	120,364,099	120,444,574	80,475 +	1
GenelD:16172	Il17ra	6	120,463,197	120,483,727	20,530 +	1
GenelD:214932	Cecr5	6	120,509,494	120,531,299	21,805 -	1
GenelD:330409	Cecr2	6	120,666,421	120,771,191	104,770 +	1
GenelD:11973	Atp6v1e1	6	120,795,244	120,822,685	27,441 -	1
GenelD:12122	Bid	6	120,893,119	120,916,820	23,701 -	1
GenelD:194401	Mical3	6	120,931,546	121,131,022	199,476 -	1
GenelD:67602	Necap1	6	122,874,557	122,888,941	14,384 +	1
GenelD:19305	Pex5	6	124,396,816	124,415,067	18,251 -	1
GenelD:14792	Lpcat3	6	124,663,104	124,704,716	41,612 +	2
GenelD:14791	Emg1	6	124,704,370	124,712,178	7,808 -	1
GenelD:12034	Phb2	6	124,712,289	124,716,945	4,656 +	1
GenelD:387159	Mir141	6	124,717,914	124,717,985	71 -	1
GenelD:723944	Mir200c	6	124,718,322	124,718,390	68 -	1
GenelD:15170	Ptpn6	6	124,720,718	124,738,709	17,991 -	3
GenelD:14790	Grcc10	6	124,739,183	124,741,079	1,896 -	2
GenelD:19866	Rnu7	6	124,741,225	124,741,286	61 -	2
GenelD:13498	Atn1	6	124,742,544	124,756,487	13,943 -	2
GenelD:14794	Spsb2	6	124,808,941	124,810,614	1,673 +	2
GenelD:21991	Tpi1	6	124,810,592	124,814,296	3,704 -	2
GenelD:22225	Usp5	6	124,815,019	124,829,447	14,428 -	2
GenelD:16768	Lag3	6	124,904,359	124,911,705	7,346 -	1
GenelD:69202	Ptms	6	124,913,675	124,917,946	4,271 -	1

GenelD:442825	A230083G16Rik	6	124,916,863	124,925,844	8,981 +	2
GenelD:30853	Mlf2	6	124,931,388	124,936,149	4,761 +	1
GenelD:26894	Cops7a	6	124,958,411	124,965,529	7,118 -	1
GenelD:319352	Pianp	6	124,996,720	125,003,096	6,376 +	1
GenelD:107932	Chd4	6	125,096,163	125,130,514	34,351 +	2
GenelD:110109	Nop2	6	125,131,883	125,144,753	12,870 +	1
GenelD:320678	Iffo1	6	125,145,241	125,161,782	16,541 +	2
GenelD:14433	Gapdh	6	125,161,852	125,165,583	3,731 -	2
GenelD:68298	Ncapd2	6	125,168,007	125,191,586	23,579 -	2
GenelD:22317	Vamp1	6	125,215,581	125,222,306	6,725 +	1
GenelD:213233	Tapbpl	6	125,224,205	125,231,860	7,655 -	1
GenelD:17000	Ltbr	6	125,306,571	125,313,870	7,299 -	1
GenelD:20276	Scnn1a	6	125,321,340	125,344,943	23,603 +	1
GenelD:12527	Cd9	6	125,460,266	125,494,755	34,489 -	1
GenelD:19362	Rad51ap1	6	126,923,419	126,939,555	16,136 -	1
GenelD:28040	D6Wsu163e	6	126,939,966	126,975,704	35,738 +	1
GenelD:64654	Fgf23	6	127,072,902	127,081,408	8,506 +	1
GenelD:319801	9630033F20Rik	6	127,085,116	127,109,552	24,436 -	1
GenelD:12444	Ccnd2	6	127,125,708	127,151,048	25,340 -	1
GenelD:77558	9330179D12Rik	6	127,149,389	127,212,419	63,030 +	1
GenelD:109246	Tspan9	6	127,961,400	128,143,578	182,178 -	1
GenelD:22158	Tulp3	6	128,321,161	128,355,851	34,690 -	2
GenelD:10105575	LOC101055755	6	128,356,004	128,358,837	2,833 +	2
GenelD:72440	Rhno1	6	128,357,000	128,362,897	5,897 -	2
GenelD:14235	Foxm1	6	128,362,994	128,375,886	12,892 +	2
GenelD:14228	Fkbp4	6	128,430,107	128,438,631	8,524 -	1
GenelD:791299	Gm10069	6	128,438,757	128,503,281	64,524 +	1
GenelD:14011	Etv6	6	134,035,707	134,270,158	234,451 +	1
GenelD:16974	Lrp6	6	134,446,476	134,566,913	120,437 -	1
GenelD:232430	Crebl2	6	134,830,199	134,857,883	27,684 +	1
GenelD:12576	Cdkn1b	6	134,920,401	134,925,525	5,124 +	2
GenelD:381822	1190002F15Rik	6	134,929,092	134,951,718	22,626 +	2
GenelD:381823	Apold1	6	134,982,001	134,986,836	4,835 +	1
GenelD:10050288	Gm19434	6	135,188,480	135,194,959	6,479 +	1
GenelD:74525	8430419L09Rik	6	135,197,987	135,236,240	38,253 +	1
GenelD:320332	Hist4h4	6	136,801,553	136,804,431	2,878 -	1
GenelD:232440	H2afj	6	136,808,248	136,810,074	1,826 +	1
GenelD:60321	Wbp11	6	136,813,654	136,828,216	14,562 -	1
GenelD:232441	Rerg	6	137,054,825	137,170,496	115,671 -	1
GenelD:13860	Eps8	6	137,477,245	137,649,120	171,875 -	1
GenelD:109135	Plekha5	6	140,424,099	140,594,906	170,807 +	1
GenelD:11569	Aebp2	6	140,622,663	140,677,418	54,755 +	1
GenelD:54611	Pde3a	6	141,249,269	141,499,351	250,082 +	1
GenelD:232491	Pyroxd1	6	142,345,697	142,362,624	16,927 +	1
GenelD:19691	Recql	6	142,350,342	142,387,087	36,745 -	2
GenelD:66964	Golt1b	6	142,387,243	142,403,858	16,615 +	1
GenelD:16832	Ldhb	6	142,490,249	142,507,943	17,694 -	1

GenelD:12764	Cmas	6	142,756,686	142,775,714	19,028 +	1
GenelD:20449	St8sia1	6	142,821,541	142,964,452	142,911 -	1
GenelD:74741	C2cd5	6	143,010,920	143,100,107	89,187 -	1
GenelD:75320	Etnk1	6	143,167,230	143,208,546	41,316 +	1
GenelD:12035	Bcat1	6	144,993,835	145,076,157	82,322 -	1
GenelD:16653	Kras	6	145,216,699	145,250,231	33,532 -	1
GenelD:10003949	Gm15706	6	145,250,552	145,251,856	1,304 +	1
GenelD:79362	Bhlhe41	6	145,862,737	145,865,340	2,603 -	2
GenelD:16439	Itpr2	6	146,111,480	146,501,912	390,432 -	1
GenelD:67623	Tm7sf3	6	146,602,276	146,634,592	32,316 -	1
GenelD:108098	Med21	6	146,642,579	146,650,600	8,021 +	1
GenelD:232533	Stk38l	6	146,724,930	146,778,814	53,884 +	1
GenelD:67533	Ppfibp1	6	146,888,494	147,032,023	143,529 +	1
GenelD:66532	Rep15	6	147,032,537	147,033,518	981 +	1
GenelD:232536	Mrps35	6	147,042,770	147,070,902	28,132 +	1
GenelD:545893	Mansc4	6	147,075,062	147,087,032	11,970 -	1
GenelD:232539	Klhl42	6	147,091,075	147,112,778	21,703 +	1
GenelD:622129	Gm6288	6	147,438,362	147,476,284	37,922 -	1
GenelD:67015	Ccdc91	6	147,475,871	147,632,612	156,741 +	1
GenelD:67456	Ergic2	6	148,179,318	148,212,374	33,056 -	1
GenelD:320737	4732416N19Rik	6	148,212,288	148,235,663	23,375 +	1
GenelD:387314	Tmtc1	6	148,232,430	148,444,352	211,922 -	2
GenelD:56306	Fam60a	6	148,921,057	148,946,432	25,375 -	1
GenelD:109163	3010003L21Rik	6	148,944,867	148,947,129	2,262 +	1
GenelD:320560	Dennd5b	6	148,988,069	149,101,680	113,611 -	1
GenelD:67246	2810474O19Rik	6	149,309,414	149,335,663	26,249 +	1
GenelD:68988	Prpf31	7	3,629,985	3,642,485	12,500 +	1
GenelD:232791	Cnot3	7	3,645,269	3,661,109	15,840 +	1
GenelD:10062859	Mir3572	7	3,655,962	3,656,047	85 +	1
GenelD:77323	9430041J12Rik	7	4,074,125	4,120,728	46,603 -	1
GenelD:57776	Ttyh1	7	4,119,533	4,136,241	16,708 +	1
GenelD:10003739	D030047H15Rik	7	4,126,340	4,136,926	10,586 -	1
GenelD:232798	Leng8	7	4,137,056	4,148,173	11,117 +	1
GenelD:243813	Leng9	7	4,148,183	4,149,872	1,689 -	1
GenelD:58804	Cdc42ep5	7	4,151,260	4,164,702	13,442 -	1
GenelD:78052	Tmem190	7	4,782,940	4,784,341	1,401 +	1
GenelD:664968	Tmem238	7	4,784,785	4,789,560	4,775 -	1
GenelD:19943	Rpl28	7	4,792,965	4,794,547	1,582 +	1
GenelD:77891	Ube2s	7	4,808,014	4,812,340	4,326 -	1
GenelD:232816	Zfp628	7	4,915,217	4,922,003	6,786 +	2
GenelD:269854	Nat14	7	4,922,251	4,925,006	2,755 +	2
GenelD:269855	Ssc5d	7	4,925,844	4,944,797	18,953 +	1
GenelD:68490	Zfp579	7	4,992,852	4,996,101	3,249 -	1
GenelD:23877	Fiz1	7	5,007,056	5,014,728	7,672 -	2
GenelD:66056	Zfp524	7	5,015,508	5,018,488	2,980 +	2
GenelD:319748	Zfp865	7	5,020,376	5,033,223	12,847 +	2
GenelD:654801	Zfp784	7	5,034,446	5,038,446	4,000 -	1

GenelD:68992	Zfp580	7	5,051,532	5,053,723	2,191 +	4
GenelD:232821	Ccdc106	7	5,056,726	5,060,785	4,059 +	4
GenelD:22185	U2af2	7	5,062,143	5,079,945	17,802 +	5
GenelD:13854	Epn1	7	5,080,235	5,098,178	17,943 +	1
GenelD:67109	Zfp787	7	6,131,489	6,155,971	24,482 -	2
GenelD:10004245	Gm16532	7	6,415,175	6,431,086	15,911 +	1
GenelD:18616	Peg3	7	6,705,960	6,730,419	24,459 -	1
GenelD:57775	Usp29	7	6,730,741	6,967,220	236,479 +	1
GenelD:67370	Zfp606	7	12,478,305	12,496,235	17,930 +	1
GenelD:243834	Zfp324	7	12,965,864	12,973,822	7,958 +	1
GenelD:26459	Slc27a5	7	12,988,346	12,998,192	9,846 -	1
GenelD:232879	Zbtb45	7	13,005,666	13,009,800	4,134 -	2
GenelD:21849	Trim28	7	13,024,152	13,031,032	6,880 +	1
GenelD:68953	Chmp2a	7	13,032,006	13,034,777	2,771 -	2
GenelD:22192	Ube2m	7	13,035,120	13,038,275	3,155 -	2
GenelD:109889	Mzf1	7	13,042,303	13,054,764	12,461 -	1
GenelD:666528	Zfp541	7	16,071,942	16,096,328	24,386 +	1
GenelD:108124	Napa	7	16,098,643	16,117,975	19,332 +	1
GenelD:110891	Slc8a2	7	16,130,300	16,160,511	30,211 +	1
GenelD:66300	Prr24	7	16,272,013	16,273,692	1,679 -	1
GenelD:243846	Ccdc9	7	16,274,042	16,286,795	12,753 -	1
GenelD:170770	Bbc3	7	16,309,583	16,318,334	8,751 +	3
GenelD:56459	Sae1	7	16,327,054	16,387,785	60,731 -	1
GenelD:330474	Zc3h4	7	16,401,196	16,437,696	36,500 +	1
GenelD:69094	Tmem160	7	16,452,779	16,455,490	2,711 +	1
GenelD:18142	Npas1	7	16,455,721	16,476,780	21,059 -	1
GenelD:20514	Slc1a5	7	16,781,346	16,798,274	16,928 +	1
GenelD:243853	Fkrp	7	16,809,267	16,816,732	7,465 -	2
GenelD:97387	Strn4	7	16,815,889	16,840,931	25,042 +	2
GenelD:12315	Calm3	7	16,915,379	16,924,032	8,653 -	1
GenelD:434128	Pnmal2	7	16,944,682	16,948,828	4,146 +	1
GenelD:434130	Ccdc8	7	16,994,588	16,996,645	2,057 +	1
GenelD:19060	Ppp5c	7	17,004,640	17,027,914	23,274 -	2
GenelD:53417	Hif3a	7	17,030,993	17,062,427	31,434 -	2
GenelD:378430	Nanos2	7	18,987,524	18,988,962	1,438 +	1
GenelD:232934	Mypop	7	18,991,245	19,001,766	10,521 +	2
GenelD:272359	Irf2bp1	7	19,004,065	19,006,763	2,698 +	1
GenelD:15377	Foxa3	7	19,013,283	19,023,539	10,256 -	2
GenelD:68188	Sympk	7	19,024,377	19,054,622	30,245 +	1
GenelD:83434	Rsph6a	7	19,054,687	19,074,447	19,760 +	1
GenelD:13401	Dmwd	7	19,076,200	19,082,775	6,575 +	1
GenelD:13400	Dmpk	7	19,083,849	19,093,821	9,972 +	2
GenelD:10052650	Mir3100	7	19,086,828	19,086,892	64 +	2
GenelD:20475	Six5	7	19,094,544	19,098,345	3,801 +	1
GenelD:67369	Qpctl	7	19,140,217	19,149,196	8,979 -	1
GenelD:107686	Snrpd2	7	19,149,838	19,152,726	2,888 +	1
GenelD:381853	Gipr	7	19,157,125	19,166,127	9,002 -	1

GenelD:22323	Vasp	7	19,256,929	19,271,854	14,925 -	2
GenelD:232941	Ppm1n	7	19,276,807	19,280,049	3,242 -	2
GenelD:20167	Rtn2	7	19,282,667	19,296,160	13,493 +	1
GenelD:22069	n-Ts2	7	19,301,244	19,301,329	85 +	1
GenelD:14282	Fosb	7	19,302,696	19,310,045	7,349 -	2
GenelD:330479	D830036C21Rik	7	19,320,117	19,342,225	22,108 -	1
GenelD:13870	Ercc1	7	19,345,071	19,356,524	11,453 +	1
GenelD:70333	Cd3eap	7	19,356,007	19,359,483	3,476 -	1
GenelD:333654	Ppp1r13l	7	19,361,216	19,378,533	17,317 +	1
GenelD:232944	Mark4	7	19,426,075	19,458,494	32,419 -	1
GenelD:74463	Exoc3l2	7	19,463,331	19,496,762	33,431 +	4
GenelD:232946	Bloc1s3	7	19,505,804	19,508,331	2,527 -	2
GenelD:67091	Trappc6a	7	19,508,729	19,516,145	7,416 +	3
GenelD:69547	Nkpd1	7	19,518,731	19,525,050	6,319 +	2
GenelD:232947	Ppp1r37	7	19,530,967	19,562,398	31,431 -	2
GenelD:69731	Gemin7	7	19,564,949	19,573,343	8,394 -	1
GenelD:19698	Relb	7	19,606,222	19,629,438	23,216 -	2
GenelD:56457	Clptm1	7	19,631,580	19,665,030	33,450 -	2
GenelD:11813	Apoc2	7	19,671,579	19,676,864	5,285 -	1
GenelD:19294	Pvrl2	7	19,716,644	19,749,573	32,929 -	1
GenelD:57278	Bcam	7	19,756,138	19,770,532	14,394 -	1
GenelD:18793	Plaur	7	24,462,500	24,475,873	13,373 +	1
GenelD:260299	Cadm4	7	24,482,023	24,504,533	22,510 +	2
GenelD:232969	Zfp428	7	24,507,087	24,515,682	8,595 +	1
GenelD:210146	Irgq	7	24,530,648	24,538,600	7,952 +	1
GenelD:641361	Pinlyp	7	24,541,658	24,546,005	4,347 -	1
GenelD:101544	Zfp575	7	24,583,838	24,587,641	3,803 -	1
GenelD:66071	Ethe1	7	24,587,543	24,608,925	21,382 +	1
GenelD:71241	Dmrtc2	7	24,870,057	24,877,651	7,594 +	1
GenelD:20085	Rps19	7	24,884,714	24,889,802	5,088 +	1
GenelD:14470	Rabac1	7	24,969,750	24,972,728	2,978 -	1
GenelD:232975	Atp1a3	7	24,978,167	25,005,895	27,728 -	2
GenelD:14809	Grik5	7	25,009,849	25,072,369	62,520 -	3
GenelD:232976	Zfp574	7	25,077,205	25,083,492	6,287 +	1
GenelD:18987	Pou2f2	7	25,091,114	25,132,460	41,346 -	1
GenelD:67379	Dedd2	7	25,202,840	25,219,859	17,019 -	1
GenelD:210172	Zfp526	7	25,221,451	25,227,505	6,054 +	1
GenelD:606496	Gsk3a	7	25,228,259	25,237,851	9,592 -	2
GenelD:77124	9130221H12Rik	7	25,228,723	25,230,264	1,541 +	1
GenelD:13875	Erf	7	25,242,560	25,250,758	8,198 -	3
GenelD:71722	Cic	7	25,282,179	25,294,148	11,969 +	5
GenelD:18476	Pafah1b3	7	25,295,049	25,297,955	2,906 -	2
GenelD:623131	Prr19	7	25,301,359	25,304,133	2,774 +	2
GenelD:330485	Tmem145	7	25,306,108	25,316,195	10,087 +	3
GenelD:269878	Megf8	7	25,317,164	25,365,917	48,753 +	1
GenelD:66349	Atp5sl	7	25,619,493	25,625,550	6,057 +	1
GenelD:232984	B3gnt8	7	25,627,624	25,629,490	1,866 +	1

GenelD:12039	Bckdha	7	25,629,852	25,658,761	28,909 -	1
GenelD:232987	B9d2	7	25,681,158	25,686,558	5,400 +	1
GenelD:21803	Tgfb1	7	25,687,002	25,704,996	17,994 +	1
GenelD:232989	Hnrnpul1	7	25,722,036	25,754,720	32,684 -	1
GenelD:26362	Axl	7	25,756,500	25,788,733	32,233 -	2
GenelD:384724	Cyp2t4	7	27,153,714	27,158,564	4,850 +	1
GenelD:112406	Egln2	7	27,158,658	27,166,802	8,144 -	1
GenelD:19342	Rab4b	7	27,168,433	27,178,883	10,450 -	1
GenelD:10052650	Mir3101	7	27,176,006	27,176,093	87 -	1
GenelD:53607	Snrpa	7	27,187,006	27,196,271	9,265 -	1
GenelD:414069	BC024978	7	27,195,781	27,204,320	8,539 +	1
GenelD:10031683	Mir1191	7	27,205,536	27,205,655	119 +	1
GenelD:233011	Itpkc	7	27,207,170	27,228,597	21,427 -	1
GenelD:76889	Adck4	7	27,233,013	27,257,949	24,936 +	1
GenelD:108075	Ltbp4	7	27,305,141	27,337,612	32,471 -	1
GenelD:192192	Shkbp1	7	27,342,133	27,356,008	13,875 -	1
GenelD:80297	Sptbn4	7	27,356,383	27,446,589	90,206 -	1
GenelD:66367	2310022A10Rik	7	27,553,295	27,582,099	28,804 +	1
GenelD:11652	Akt2	7	27,591,560	27,639,453	47,893 +	1
GenelD:269881	Map3k10	7	27,656,377	27,674,598	18,221 -	1
GenelD:112415	C030039L03Rik	7	27,674,661	27,706,484	31,823 +	1
GenelD:319482	9530053A07Rik	7	28,129,466	28,164,811	35,345 +	1
GenelD:14113	Fbl	7	28,169,748	28,179,269	9,521 +	2
GenelD:13549	Dyrk1b	7	28,179,483	28,187,294	7,811 +	2
GenelD:386655	Eid2	7	28,267,881	28,269,168	1,287 +	1
GenelD:434156	Eid2b	7	28,277,706	28,280,129	2,423 +	1
GenelD:280621	BC089491	7	28,284,652	28,291,134	6,482 -	2
GenelD:13389	Dll3	7	28,293,555	28,301,785	8,230 -	2
GenelD:66525	Timm50	7	28,305,826	28,312,046	6,220 -	1
GenelD:20924	Supt5	7	28,314,894	28,338,719	23,825 -	1
GenelD:101497	Plekhg2	7	28,359,604	28,372,662	13,058 -	3
GenelD:22695	Zfp36	7	28,376,784	28,379,228	2,444 -	3
GenelD:67224	Med29	7	28,385,247	28,392,690	7,443 -	2
GenelD:233040	Fbxo27	7	28,692,849	28,699,338	6,489 +	1
GenelD:320435	Rinl	7	28,788,969	28,798,965	9,996 +	1
GenelD:15388	Hnrnp1	7	28,810,890	28,822,266	11,376 +	2
GenelD:60595	Actn4	7	28,893,254	28,962,280	69,026 -	1
GenelD:73830	Eif3k	7	28,971,373	28,981,814	10,441 -	1
GenelD:233046	Rasgrp4	7	29,134,933	29,153,961	19,028 +	1
GenelD:73833	Fam98c	7	29,152,510	29,156,210	3,700 -	1
GenelD:101809	Spred3	7	29,158,829	29,168,647	9,818 -	2
GenelD:243897	Ggn	7	29,170,210	29,173,933	3,723 +	1
GenelD:57296	Psmd8	7	29,174,187	29,180,673	6,486 -	1
GenelD:320225	Catsperg1	7	29,181,532	29,214,033	32,501 -	1
GenelD:52150	Kcnk6	7	29,221,928	29,232,522	10,594 -	1
GenelD:77254	Yif1b	7	29,238,323	29,247,532	9,209 +	1
GenelD:20733	Spint2	7	29,256,330	29,281,977	25,647 -	2

GenelD:68458	Ppp1r14a	7	29,289,320	29,293,390	4,070 +	2
GenelD:29861	Dpf1	7	29,304,005	29,317,586	13,581 +	1
GenelD:114675	4932431P20Rik	7	29,524,543	29,538,055	13,512 +	1
GenelD:243906	Zfp14	7	30,036,359	30,051,396	15,037 -	1
GenelD:330502	Zfp82	7	30,056,034	30,072,823	16,789 -	2
GenelD:72556	Zfp566	7	30,077,337	30,090,510	13,173 -	1
GenelD:12865	Cox7a1	7	30,184,171	30,186,030	1,859 +	1
GenelD:12336	Capns1	7	30,186,942	30,195,048	8,106 -	1
GenelD:233064	Wdr62	7	30,240,138	30,280,421	40,283 -	1
GenelD:75629	Thap8	7	30,280,094	30,290,237	10,143 +	1
GenelD:233065	Alkbh6	7	30,308,753	30,314,303	5,550 +	1
GenelD:233066	Syne4	7	30,314,816	30,319,045	4,229 +	1
GenelD:68332	Sdhaf1	7	30,321,409	30,322,375	966 -	1
GenelD:233067	Lrfr3	7	30,355,514	30,362,772	7,258 -	1
GenelD:75410	Wbp7	7	30,568,855	30,588,726	19,871 -	1
GenelD:58206	Zbtb32	7	30,589,681	30,592,942	3,261 -	1
GenelD:11944	Atp4a	7	30,712,232	30,725,534	13,302 +	1
GenelD:69804	Tmem147	7	30,727,701	30,729,534	1,833 -	1
GenelD:791088	C630016N16Rik	7	30,729,579	30,745,929	16,350 +	1
GenelD:14447	Gapdhs	7	30,729,887	30,739,356	9,469 -	1
GenelD:22282	Usf2	7	30,945,248	30,956,803	11,555 -	1
GenelD:10004382	Gm4673	7	30,957,409	30,961,782	4,373 +	1
GenelD:54135	Lsr	7	30,957,770	30,973,469	15,699 -	2
GenelD:76415	Fam187b	7	30,973,804	30,989,726	15,922 +	1
GenelD:18301	Fxyd5	7	31,032,723	31,042,322	9,599 -	1
GenelD:57780	Fxyd7	7	31,042,515	31,051,454	8,939 -	1
GenelD:56188	Fxyd1	7	31,051,678	31,055,656	3,978 -	1
GenelD:243914	Lgi4	7	31,059,935	31,070,935	11,000 +	1
GenelD:52857	Gramd1a	7	31,130,127	31,151,050	20,923 -	1
GenelD:50995	Uba2	7	34,140,697	34,168,529	27,832 -	1
GenelD:10004341	Gm12778	7	34,175,712	34,176,044	332 +	1
GenelD:68079	Pdcd2l	7	34,184,497	34,196,647	12,150 -	1
GenelD:14751	Gpi1	7	34,201,327	34,230,305	28,978 -	1
GenelD:67070	Lsm14a	7	34,344,719	34,389,540	44,821 -	1
GenelD:233107	Kctd15	7	34,639,015	34,652,841	13,826 -	2
GenelD:68947	Chst8	7	34,674,468	34,812,711	138,243 -	1
GenelD:18624	Pepd	7	34,912,407	35,044,708	132,301 +	1
GenelD:12611	Cebpg	7	35,046,422	35,056,566	10,144 -	1
GenelD:12606	Cebpa	7	35,119,293	35,121,928	2,635 +	1
GenelD:110959	Nudt19	7	35,547,185	35,555,928	8,743 -	1
GenelD:243923	Rgs9bp	7	35,578,993	35,585,582	6,589 -	1
GenelD:245886	Ankrd27	7	35,586,247	35,639,237	52,990 +	2
GenelD:56330	Pdcd5	7	35,641,985	35,647,482	5,497 -	1
GenelD:233115	Dpy19l3	7	35,685,500	35,754,454	68,954 -	1
GenelD:668501	Zfp507	7	35,772,346	35,802,989	30,643 -	1
GenelD:78547	E130304l02Rik	7	35,802,592	35,838,074	35,482 +	1
GenelD:243931	Tshz3	7	36,698,118	36,773,457	75,339 +	3

GenelD:19777	Uri1	7	37,959,992	38,019,552	59,560 -	1
GenelD:70227	Zfp619	7	39,517,766	39,540,415	22,649 +	1
GenelD:69930	Zfp715	7	43,296,523	43,313,261	16,738 -	1
GenelD:70004	1700028J19Rik	7	44,229,929	44,236,122	6,193 -	1
GenelD:668661	2410002F23Rik	7	44,246,722	44,252,319	5,597 +	1
GenelD:10021743	Snord88c	7	44,249,855	44,249,938	83 +	1
GenelD:10021743	Snord88a	7	44,250,150	44,250,221	71 +	1
GenelD:10050399	Acpt	7	44,253,087	44,257,204	4,117 -	1
GenelD:20256	Clec11a	7	44,303,766	44,306,959	3,193 -	1
GenelD:243961	Shank1	7	44,310,264	44,358,353	48,089 +	2
GenelD:69349	1700008O03Rik	7	44,360,043	44,375,030	14,987 -	1
GenelD:18971	Pold1	7	44,532,744	44,548,815	16,071 -	3
GenelD:22260	Nr1h2	7	44,549,632	44,553,923	4,291 -	3
GenelD:107503	Atf5	7	44,812,256	44,816,658	4,402 -	1
GenelD:10032858	Nup62-il4i1	7	44,816,370	44,840,804	24,434 +	1
GenelD:18226	Nup62	7	44,816,420	44,830,807	14,387 +	1
GenelD:233204	Tbc1d17	7	44,840,776	44,849,079	8,303 -	1
GenelD:67605	Akt1s1	7	44,849,224	44,855,421	6,197 +	3
GenelD:735269	Mir707	7	44,849,699	44,849,771	72 +	1
GenelD:59047	Pnkp	7	44,857,181	44,862,929	5,748 +	3
GenelD:84113	Ptov1	7	44,863,068	44,869,788	6,720 -	3
GenelD:75613	Med25	7	44,879,386	44,892,366	12,980 -	1
GenelD:11771	Ap2a1	7	44,900,373	44,929,490	29,117 -	1
GenelD:75736	Bcl2l12	7	44,991,222	44,997,579	6,357 -	1
GenelD:54131	Irf3	7	44,997,648	45,002,848	5,200 +	1
GenelD:233208	Scaf1	7	45,002,950	45,016,249	13,299 -	1
GenelD:20130	Rras	7	45,018,007	45,021,644	3,637 +	1
GenelD:233210	Prr12	7	45,027,707	45,052,881	25,174 -	3
GenelD:65116	Prrg2	7	45,053,604	45,061,652	8,048 -	3
GenelD:66394	Nosip	7	45,062,429	45,078,503	16,074 +	2
GenelD:52377	Rcn3	7	45,082,914	45,092,213	9,299 -	1
GenelD:69748	Aldh16a1	7	45,141,840	45,154,538	12,698 -	1
GenelD:68845	Pih1d1	7	45,154,398	45,160,064	5,666 +	1
GenelD:72961	Slc17a7	7	45,163,921	45,176,139	12,218 +	1
GenelD:381884	Slc6a16	7	45,259,154	45,273,365	14,211 +	1
GenelD:76713	1700039E15Rik	7	45,282,873	45,288,993	6,120 +	1
GenelD:76787	Ppfia3	7	45,339,126	45,367,019	27,893 -	1
GenelD:50994	Mtag2	7	45,366,163	45,367,948	1,785 +	1
GenelD:22342	Lin7b	7	45,367,891	45,370,564	2,673 -	1
GenelD:20637	Snrnp70	7	45,376,454	45,395,647	19,193 -	1
GenelD:16495	Kcna7	7	45,405,960	45,411,382	5,422 +	1
GenelD:78405	Ntf5	7	45,413,695	45,417,179	3,484 +	1
GenelD:10086221	LOC100862214	7	45,418,359	45,420,364	2,005 +	1
GenelD:16866	Lhb	7	45,420,946	45,421,854	908 +	1
GenelD:20174	Ruvbl2	7	45,421,898	45,434,464	12,566 -	2
GenelD:14936	Gys1	7	45,434,839	45,456,617	21,778 +	1
GenelD:12348	Car11	7	45,699,967	45,704,671	4,704 +	2

GenelD:13170	Dbp	7	45,705,247	45,710,203	4,956 +	3
GenelD:56632	Sphk2	7	45,709,463	45,718,002	8,539 -	3
GenelD:19899	Rpl18	7	45,718,071	45,720,835	2,764 +	1
GenelD:73813	Fam83e	7	45,721,220	45,729,492	8,272 +	1
GenelD:69363	Spaca4	7	45,725,107	45,725,816	709 -	1
GenelD:545963	Gm5897	7	45,783,122	45,783,551	429 -	1
GenelD:381983	Lmtk3	7	45,783,947	45,804,130	20,183 +	3
GenelD:19158	Cyth2	7	45,806,637	45,814,316	7,679 -	2
GenelD:211480	Kcnj14	7	45,816,467	45,824,747	8,280 -	2
GenelD:101612	Grwd1	7	45,825,223	45,830,789	5,566 -	1
GenelD:14814	Grin2d	7	45,832,483	45,866,681	34,198 -	2
GenelD:68137	Kdelr1	7	45,872,840	45,883,726	10,886 +	1
GenelD:70209	Tmem143	7	45,897,069	45,917,413	20,344 +	1
GenelD:13732	Emp3	7	45,918,023	45,921,426	3,403 -	1
GenelD:27421	Abcc6	7	45,976,380	46,030,286	53,906 -	1
GenelD:211548	Nomo1	7	46,033,696	46,084,212	50,516 +	1
GenelD:17927	Myod1	7	46,376,474	46,379,092	2,618 +	1
GenelD:246694	Hps5	7	46,760,466	46,795,881	35,415 -	1
GenelD:14884	Gtf2h1	7	46,796,094	46,823,800	27,706 +	1
GenelD:384622	Gm5331	7	46,832,464	46,839,328	6,864 +	1
GenelD:16828	Ldha	7	46,845,804	46,855,627	9,823 +	1
GenelD:22088	Tsg101	7	46,889,027	46,919,930	30,903 -	1
GenelD:54122	Uevld	7	46,923,216	46,958,518	35,302 -	2
GenelD:97402	C86187	7	46,967,747	46,975,911	8,164 -	1
GenelD:101685	Spty2d1	7	46,990,396	47,008,414	18,018 -	1
GenelD:67893	Tmem86a	7	47,050,640	47,054,776	4,136 +	1
GenelD:108961	E2f8	7	48,866,429	48,881,041	14,612 -	1
GenelD:10004046	Gm2788	7	48,880,640	48,886,608	5,968 +	1
GenelD:78286	Nav2	7	48,959,073	49,610,088	651,015 +	1
GenelD:53415	Htati2	7	49,759,106	49,773,999	14,893 +	1
GenelD:71974	Prmt3	7	49,778,358	49,858,265	79,907 +	1
GenelD:20430	Cyfip1	7	55,842,071	55,932,633	90,562 +	1
GenelD:93790	Nipa2	7	55,931,266	55,962,493	31,227 -	1
GenelD:320845	A230056P14Rik	7	55,962,531	55,980,096	17,565 +	1
GenelD:110886	Gabra5	7	57,407,669	57,510,009	102,340 -	1
GenelD:11982	Atp10a	7	58,658,202	58,829,426	171,224 +	1
GenelD:22215	Ube3a	7	59,228,750	59,306,727	77,977 +	1
GenelD:22652	Mkrn3	7	62,417,593	62,420,139	2,546 -	1
GenelD:27412	Peg12	7	62,461,871	62,464,510	2,639 -	1
GenelD:50794	Klf13	7	63,886,351	63,938,915	52,564 -	1
GenelD:70638	Fam189a1	7	64,756,096	65,156,528	400,432 -	2
GenelD:66647	Ndn12	7	64,871,650	64,873,040	1,390 -	1
GenelD:665234	Gm7546	7	65,579,999	65,635,854	55,855 -	1
GenelD:272396	Tarsl2	7	65,644,898	65,692,093	47,195 +	2
GenelD:68634	Tm2d3	7	65,693,417	65,701,913	8,496 +	1
GenelD:18553	Pcsk6	7	65,862,136	66,050,386	188,250 +	1
GenelD:68981	Snrpa1	7	66,060,336	66,074,587	14,251 +	2

GenelD:109815	Vimp	7	66,079,649	66,089,405	9,756 +	1
GenelD:269941	Chsy1	7	66,109,515	66,173,798	64,283 +	1
GenelD:233328	Lrrk1	7	66,258,745	66,388,341	129,596 -	1
GenelD:56847	Aldh1a3	7	66,390,892	66,427,477	36,585 -	2
GenelD:233332	Adamts17	7	66,839,735	67,152,625	312,890 +	1
GenelD:17258	Mef2a	7	67,233,824	67,372,858	139,034 -	2
GenelD:233335	Sym	7	67,730,161	67,759,742	29,581 -	1
GenelD:16001	Igf1r	7	67,952,257	68,233,667	281,410 +	2
GenelD:66412	Arrdc4	7	68,736,994	68,749,238	12,244 -	1
GenelD:11819	Nr2f2	7	70,351,950	70,366,746	14,796 -	5
GenelD:434198	B130024G19Rik	7	70,365,383	70,411,146	45,763 +	3
GenelD:319783	A730056A06Rik	7	73,313,806	73,375,774	61,968 -	1
GenelD:244058	Rgma	7	73,375,520	73,419,899	44,379 +	2
GenelD:69170	1810026B05Rik	7	73,539,798	73,558,395	18,597 -	1
GenelD:665610	Gm7710	7	73,617,858	73,618,383	525 -	1
GenelD:10003834	Fam174b	7	73,740,307	73,776,919	36,612 +	1
GenelD:20450	St8sia2	7	73,939,119	74,013,682	74,563 -	1
GenelD:108116	Slco3a1	7	74,275,418	74,554,780	279,362 -	1
GenelD:75547	Akap13	7	75,455,534	75,754,609	299,075 +	1
GenelD:723884	Mir7-2	7	78,888,277	78,888,373	96 +	1
GenelD:68048	Aen	7	78,895,927	78,908,833	12,906 +	1
GenelD:54608	Abhd2	7	79,273,266	79,361,601	88,335 +	1
GenelD:18975	Polg	7	79,449,383	79,466,273	16,890 -	1
GenelD:10003847	Gm10616	7	79,466,409	79,468,536	2,127 +	1
GenelD:77011	Ticrr	7	79,660,196	79,698,148	37,952 +	1
GenelD:16576	Kif7	7	79,698,098	79,714,186	16,088 -	1
GenelD:103968	Plin1	7	79,721,164	79,732,776	11,612 -	1
GenelD:209225	Zfp710	7	80,024,814	80,092,751	67,937 +	3
GenelD:10085996	Gm21057	7	80,062,710	80,075,257	12,547 -	1
GenelD:269951	Idh2	7	80,094,846	80,115,350	20,504 -	1
GenelD:20352	Sema4b	7	80,186,841	80,226,524	39,683 +	3
GenelD:23991	Cib1	7	80,227,160	80,232,616	5,456 -	1
GenelD:269952	Gdpgp1	7	80,232,893	80,241,420	8,527 +	1
GenelD:269954	Ttll13	7	80,246,376	80,260,821	14,445 +	1
GenelD:83485	Ngrn	7	80,261,215	80,265,378	4,163 +	1
GenelD:233405	Vps33b	7	80,269,655	80,291,579	21,924 +	2
GenelD:233406	Prc1	7	80,294,465	80,316,259	21,794 +	1
GenelD:101869	Unc45a	7	80,325,292	80,340,219	14,927 -	1
GenelD:68695	Hddc3	7	80,343,137	80,346,097	2,960 +	1
GenelD:140481	Man2a2	7	80,349,097	80,371,375	22,278 -	3
GenelD:14159	Fes	7	80,377,758	80,387,946	10,188 -	1
GenelD:18550	Furin	7	80,389,194	80,405,431	16,237 -	2
GenelD:70461	Crtc3	7	80,586,632	80,688,877	102,245 -	1
GenelD:29875	Iqgap1	7	80,711,583	80,803,331	91,748 -	1
GenelD:22691	Zscan2	7	80,862,108	80,876,514	14,406 +	2
GenelD:233410	Zfp592	7	80,993,684	81,045,162	51,478 +	1
GenelD:18584	Pde8a	7	81,213,804	81,333,622	119,818 +	2

GenelD:20068	Rps17	7	81,342,733	81,345,234	2,501 -	1
GenelD:12877	Cpeb1	7	81,347,026	81,454,758	107,732 -	2
GenelD:11775	Ap3b2	7	81,460,399	81,493,925	33,526 -	1
GenelD:244091	Fsd2	7	81,534,354	81,566,981	32,627 -	1
GenelD:434204	Whamm	7	81,571,292	81,596,836	25,544 +	1
GenelD:67148	Fam103a1	7	81,762,953	81,769,490	6,537 +	1
GenelD:83962	Btbd1	7	81,792,074	81,829,431	37,357 -	1
GenelD:107769	Tm6sf1	7	81,859,022	81,884,068	25,046 +	1
GenelD:29877	Hdgfrp3	7	81,881,256	81,934,459	53,203 -	1
GenelD:12173	Bnc1	7	81,966,662	81,992,299	25,637 -	1
GenelD:330577	Fam154b	7	82,632,960	82,648,528	15,568 -	1
GenelD:101592	Eftud1	7	82,648,614	82,777,852	129,238 +	1
GenelD:619808	1700010L04Rik	7	82,851,599	82,859,849	8,250 +	1
GenelD:108797	Mex3b	7	82,867,333	82,871,576	4,243 +	1
GenelD:80889	Mesdc1	7	83,880,495	83,884,341	3,846 -	1
GenelD:67943	Mesdc2	7	83,892,000	83,901,532	9,532 +	1
GenelD:70178	Abhd17c	7	84,109,356	84,151,893	42,537 -	1
GenelD:10003923	Gm2115	7	84,528,954	84,578,339	49,385 +	1
GenelD:14366	Fzd4	7	89,404,366	89,410,110	5,744 +	1
GenelD:78329	2310010J17Rik	7	90,124,836	90,129,936	5,100 -	1
GenelD:233489	Picalm	7	90,130,232	90,209,447	79,215 +	1
GenelD:233490	Crebzf	7	90,442,781	90,447,721	4,940 +	1
GenelD:66271	Tmem126a	7	90,450,712	90,457,208	6,496 -	1
GenelD:73845	Ankrd42	7	92,584,183	92,637,142	52,959 -	1
GenelD:74737	Pcf11	7	92,643,712	92,669,912	26,200 -	2
GenelD:58238	Fam181b	7	93,079,879	93,081,722	1,843 +	1
GenelD:23966	Tenm4	7	96,210,637	96,908,554	697,917 +	1
GenelD:14389	Gab2	7	97,081,751	97,308,951	227,200 +	1
GenelD:244144	Usp35	7	97,309,380	97,325,964	16,584 -	1
GenelD:622320	Kctd21	7	97,332,323	97,350,216	17,893 +	1
GenelD:66273	Aamdc	7	97,550,331	97,579,497	29,166 -	1
GenelD:233532	Rsf1	7	97,579,896	97,692,782	112,886 +	2
GenelD:10105567	LOC101055679	7	97,693,423	97,696,621	3,198 -	1
GenelD:12729	Clns1a	7	97,696,657	97,720,793	24,136 +	1
GenelD:17921	Myo7a	7	98,051,054	98,119,493	68,439 -	1
GenelD:12337	Capn5	7	98,121,565	98,178,193	56,628 -	2
GenelD:330599	Gm16938	7	98,177,194	98,184,804	7,610 +	1
GenelD:66190	Acer3	7	98,213,660	98,309,527	95,867 -	1
GenelD:244152	Tsku	7	98,350,668	98,361,328	10,660 -	1
GenelD:434215	Lrrc32	7	98,494,222	98,501,831	7,609 +	1
GenelD:233545	2210018M11Rik	7	98,590,594	98,656,569	65,975 -	1
GenelD:22411	Wnt11	7	98,838,845	98,854,747	15,902 +	1
GenelD:78610	Uvrag	7	98,886,743	99,141,144	254,401 -	1
GenelD:67800	Dgat2	7	99,153,663	99,182,713	29,050 -	1
GenelD:17760	Map6	7	99,267,447	99,337,137	69,690 +	1
GenelD:12406	Serpinh1	7	99,345,375	99,353,239	7,864 -	2
GenelD:233552	Gdpd5	7	99,381,549	99,460,984	79,435 +	2

GenelD:72184	Klhl35	7	99,466,004	99,474,022	8,018 +	2
GenelD:27050	Rps3	7	99,477,896	99,483,709	5,813 -	2
GenelD:449631	Snord15b	7	99,479,563	99,479,707	144 -	1
GenelD:449630	Snord15a	7	99,482,785	99,482,932	147 -	1
GenelD:10050338	Gm4980	7	99,624,067	99,627,103	3,036 -	1
GenelD:108937	Rnf169	7	99,920,254	99,980,458	60,204 -	1
GenelD:67967	Pold3	7	100,082,113	100,121,500	39,387 -	1
GenelD:67164	Lipt2	7	100,159,277	100,160,931	1,654 +	1
GenelD:70974	Pgm2l1	7	100,227,607	100,278,872	51,265 +	1
GenelD:320452	P4ha3	7	100,285,520	100,319,699	34,179 +	1
GenelD:22228	Ucp2	7	100,493,345	100,502,173	8,828 +	1
GenelD:69387	Dnajb13	7	100,503,020	100,514,815	11,795 -	1
GenelD:52443	Mrpl48	7	100,549,117	100,607,996	58,879 -	1
GenelD:19346	Rab6a	7	100,607,586	100,641,268	33,682 +	1
GenelD:320100	Relt	7	100,845,848	100,863,413	17,565 -	1
GenelD:207212	Arhgef17	7	100,869,746	100,932,161	62,415 -	2
GenelD:233571	P2ry6	7	100,937,634	100,964,366	26,732 -	1
GenelD:207278	Fchsd2	7	101,108,775	101,284,405	175,630 +	1
GenelD:20480	Clpb	7	101,663,768	101,790,168	126,400 +	1
GenelD:16332	Inpp1	7	101,822,632	101,838,226	15,594 -	2
GenelD:14276	Folr2	7	101,839,988	101,845,331	5,343 -	2
GenelD:101706	Numa1	7	101,969,843	102,014,959	45,116 +	1
GenelD:269966	Nup98	7	102,134,203	102,210,120	75,917 -	1
GenelD:56212	Rhog	7	102,239,123	102,250,118	10,995 -	2
GenelD:20866	Stim1	7	102,267,824	102,436,860	169,036 +	1
GenelD:11785	Apbb1	7	105,558,465	105,581,653	23,188 -	1
GenelD:15458	Hpx	7	105,591,611	105,600,116	8,505 -	1
GenelD:14356	Timm10b	7	105,640,540	105,641,846	1,306 +	1
GenelD:101867	Rrp8	7	105,731,730	105,737,385	5,655 -	2
GenelD:16202	Ilk	7	105,736,590	105,742,925	6,335 +	2
GenelD:24075	Taf10	7	105,742,894	105,744,338	1,444 -	2
GenelD:12751	Tpp1	7	105,744,847	105,752,207	7,360 -	3
GenelD:233651	Dchs1	7	105,752,989	105,787,550	34,561 -	2
GenelD:27397	Mrpl17	7	105,803,782	105,811,087	7,305 -	1
GenelD:244202	Nlrp10	7	108,921,853	108,930,158	8,305 -	1
GenelD:66085	Eif3f	7	108,934,415	108,941,942	7,527 +	1
GenelD:117229	Stk33	7	109,279,216	109,439,053	159,837 -	1
GenelD:74293	1700095J03Rik	7	109,438,618	109,444,895	6,277 +	1
GenelD:330627	Trim66	7	109,449,001	109,508,134	59,133 -	1
GenelD:26451	Rpl27a	7	109,519,195	109,522,369	3,174 +	1
GenelD:10030249	Snora3	7	109,520,132	109,520,251	119 +	1
GenelD:76954	St5	7	109,523,911	109,617,147	93,236 -	1
GenelD:56786	Tmem9b	7	109,735,836	109,752,263	16,427 -	1
GenelD:73886	4930431P19Rik	7	109,752,320	109,755,278	2,958 +	1
GenelD:78593	Nrip3	7	109,758,056	109,781,545	23,489 -	1
GenelD:233726	Ipo7	7	110,018,425	110,055,114	36,689 +	1
GenelD:22390	Wee1	7	110,122,059	110,143,299	21,240 +	1

GenelD:20947	Swap70	7	110,221,703	110,283,506	61,803 +	1
GenelD:11717	Ampd3	7	110,772,604	110,812,395	39,791 +	1
GenelD:67150	Rnf141	7	110,816,535	110,844,381	27,846 -	1
GenelD:114332	Lyve1	7	110,850,607	110,862,953	12,346 -	1
GenelD:22083	Ctr9	7	111,028,951	111,056,377	27,426 +	1
GenelD:13690	Eif4g2	7	111,067,985	111,083,030	15,045 -	1
GenelD:10004267	Gm3960	7	112,021,903	112,023,408	1,505 -	1
GenelD:74996	Usp47	7	112,023,506	112,111,386	87,880 +	1
GenelD:320878	Mical2	7	112,225,836	112,355,194	129,358 +	1
GenelD:57342	Parva	7	112,427,706	112,591,688	163,982 +	1
GenelD:69625	2310014F06Rik	7	112,665,558	112,680,081	14,523 -	2
GenelD:21676	Tead1	7	112,679,320	112,906,805	227,485 +	2
GenelD:68815	Btbd10	7	113,315,644	113,369,339	53,695 -	1
GenelD:67420	Far1	7	113,513,862	113,570,458	56,596 +	1
GenelD:66922	Rras2	7	114,046,782	114,117,781	70,999 -	1
GenelD:70349	Copb1	7	114,215,559	114,254,680	39,121 -	1
GenelD:26440	Psma1	7	114,264,550	114,276,116	11,566 -	2
GenelD:71045	4933406I18Rik	7	114,315,479	114,415,161	99,682 -	1
GenelD:18576	Pde3b	7	114,415,254	114,537,937	122,683 +	1
GenelD:18704	Pik3c2a	7	116,337,276	116,443,458	106,182 -	1
GenelD:267019	Rps15a	7	118,104,374	118,116,147	11,773 -	1
GenelD:54208	Arl6ip1	7	118,118,890	118,129,625	10,735 -	2
GenelD:233789	Smg1	7	118,131,312	118,243,637	112,325 -	2
GenelD:67745	4930583K01Rik	7	118,243,907	118,245,551	1,644 +	1
GenelD:110058	Syt17	7	118,381,856	118,443,552	61,696 -	1
GenelD:319622	Itpripl2	7	118,485,111	118,491,975	6,864 -	1
GenelD:56209	Gde1	7	118,688,558	118,705,738	17,180 -	1
GenelD:101565	Ccp110	7	118,712,611	118,737,019	24,408 +	1
GenelD:66356	Knop1	7	118,842,217	118,855,998	13,781 -	1
GenelD:434232	Iqck	7	118,855,775	118,972,652	116,877 +	1
GenelD:64297	Gprc5b	7	118,972,040	118,995,211	23,171 -	1
GenelD:233805	Dcun1d3	7	119,853,163	119,895,745	42,582 -	1
GenelD:73919	Lym1	7	119,896,292	119,916,750	20,458 +	1
GenelD:67003	Uqcr2	7	120,635,189	120,659,523	24,334 +	1
GenelD:436008	Gm5737	7	120,812,365	120,831,193	18,828 +	1
GenelD:13631	Eef2k	7	120,842,831	120,907,219	64,388 +	2
GenelD:26939	Polr3e	7	120,917,744	120,947,432	29,688 +	1
GenelD:12585	Cdr2	7	120,957,036	120,982,312	25,276 -	1
GenelD:74466	4933427G17Rik	7	120,982,509	121,014,787	32,278 +	1
GenelD:59052	Mettl9	7	121,034,445	121,076,835	42,390 +	1
GenelD:76179	Usp31	7	121,642,021	121,707,253	65,232 -	1
GenelD:233824	Cog7	7	121,922,839	121,981,693	58,854 -	1
GenelD:74105	Gga2	7	121,986,722	122,021,198	34,476 -	1
GenelD:67417	Ears2	7	122,038,821	122,067,063	28,242 -	1
GenelD:28018	Ubfd1	7	122,067,198	122,082,199	15,001 +	1
GenelD:233826	Palb2	7	122,107,265	122,132,946	25,681 -	1
GenelD:59288	Dctn5	7	122,133,041	122,149,044	16,003 +	2

GenelD:18817	Plk1	7	122,159,437	122,169,875	10,438 +	1
GenelD:18751	Prkcb	7	122,289,125	122,634,402	345,277 +	1
GenelD:73951	4930413G21Rik	7	122,969,058	122,970,459	1,401 -	1
GenelD:19647	Rbbp6	7	122,970,564	123,002,572	32,008 +	1
GenelD:233833	Tnrc6a	7	123,123,885	123,195,296	71,411 +	1
GenelD:233863	Gtf3c1	7	125,640,954	125,707,688	66,734 -	1
GenelD:233865	D430042O09Rik	7	125,707,876	125,874,797	166,921 +	1
GenelD:269994	Gsg1l	7	125,878,419	126,082,411	203,992 -	1
GenelD:74204	Xpo6	7	126,101,718	126,200,408	98,690 -	1
GenelD:104175	Sbk1	7	126,272,619	126,294,999	22,380 +	1
GenelD:70314	Rabep2	7	126,428,767	126,445,907	17,140 +	1
GenelD:233870	Tufm	7	126,487,355	126,490,731	3,376 +	1
GenelD:233871	Atxn2l	7	126,491,708	126,503,302	11,594 -	2
GenelD:56347	Eif3c	7	126,546,911	126,566,366	19,455 -	1
GenelD:12752	Cln3	7	126,571,400	126,584,280	12,880 -	1
GenelD:75764	Slx1b	7	126,688,927	126,695,783	6,856 -	1
GenelD:66162	Bola2	7	126,696,000	126,696,693	693 +	1
GenelD:12721	Coro1a	7	126,699,774	126,704,754	4,980 -	1
GenelD:26417	Mapk3	7	126,759,626	126,765,816	6,190 +	1
GenelD:68616	Gdpd3	7	126,766,414	126,775,645	9,231 +	2
GenelD:66090	Ypel3	7	126,776,975	126,780,514	3,539 +	1
GenelD:21389	Tbx6	7	126,781,483	126,785,548	4,065 +	2
GenelD:56420	Ppp4c	7	126,785,868	126,792,471	6,603 -	3
GenelD:11674	Aldoa	7	126,795,234	126,800,447	5,213 -	2
GenelD:233877	Kctd13	7	126,928,879	126,945,609	16,730 +	3
GenelD:233879	Asphd1	7	126,946,008	126,949,581	3,573 -	2
GenelD:233878	Sez6l2	7	126,950,535	126,970,606	20,071 +	3
GenelD:381922	D830044I16Rik	7	126,972,627	126,975,833	3,206 -	1
GenelD:52858	Cdipt	7	126,975,914	126,980,501	4,587 +	1
GenelD:78388	Mvp	7	126,986,860	127,014,594	27,734 -	4
GenelD:67278	Pagr1a	7	127,015,051	127,017,352	2,301 -	3
GenelD:69017	Prrt2	7	127,017,542	127,021,211	3,669 -	3
GenelD:17188	Maz	7	127,022,134	127,026,479	4,345 -	3
GenelD:110033	Kif22	7	127,027,731	127,042,420	14,689 -	3
GenelD:69036	Zg16	7	127,050,156	127,051,977	1,821 -	1
GenelD:68449	Tbc1d10b	7	127,197,459	127,208,468	11,009 -	1
GenelD:17907	Mylpf	7	127,211,608	127,214,287	2,679 +	1
GenelD:54204	Sept1	7	127,214,442	127,218,445	4,003 -	1
GenelD:10004358	Gm4532	7	127,232,418	127,233,130	712 -	1
GenelD:233887	Zfp553	7	127,233,443	127,237,861	4,418 +	2
GenelD:244216	Zfp771	7	127,244,526	127,254,801	10,275 +	1
GenelD:20768	Sephs2	7	127,271,879	127,274,059	2,180 -	1
GenelD:16408	Itgal	7	127,296,260	127,335,137	38,877 +	1
GenelD:233890	Zfp768	7	127,342,795	127,345,314	2,519 -	1
GenelD:71131	Zfp689	7	127,442,136	127,449,158	7,022 -	1
GenelD:233895	Prr14	7	127,471,614	127,476,758	5,144 +	1
GenelD:629159	1700008J07Rik	7	127,510,438	127,512,869	2,431 -	1

GenelD:10004359	Srcap	7	127,511,983	127,565,271	53,288 +	1
GenelD:233900	Rnf40	7	127,588,698	127,603,605	14,907 +	1
GenelD:68232	1700120K04Rik	7	127,603,903	127,604,445	542 -	2
GenelD:320683	Zfp629	7	127,607,035	127,614,433	7,398 -	2
GenelD:12055	Bcl7c	7	127,704,978	127,708,766	3,788 -	1
GenelD:791073	Mir762	7	127,708,487	127,708,562	75 +	1
GenelD:13019	Ctf1	7	127,712,736	127,718,185	5,449 +	1
GenelD:244218	Ctf2	7	127,718,960	127,725,616	6,656 -	1
GenelD:233902	Fbxl19	7	127,746,775	127,768,928	22,153 +	2
GenelD:269999	Orai3	7	127,769,815	127,775,150	5,335 +	1
GenelD:233904	Setd1a	7	127,777,389	127,800,122	22,733 +	1
GenelD:20909	Stx4a	7	127,841,808	127,848,979	7,171 +	1
GenelD:244219	Zfp668	7	127,865,359	127,876,823	11,464 -	1
GenelD:233905	Zfp646	7	127,877,701	127,885,996	8,295 +	1
GenelD:330657	Prss53	7	127,885,444	127,890,970	5,526 -	1
GenelD:77613	Prss36	7	127,932,638	127,946,725	14,087 -	1
GenelD:233913	BC017158	7	128,271,379	128,298,131	26,752 -	1
GenelD:10052655	Mir3103	7	128,288,369	128,288,435	66 -	1
GenelD:67865	Rgs10	7	128,373,625	128,418,172	44,547 -	1
GenelD:29810	Bag3	7	128,523,583	128,546,981	23,398 +	1
GenelD:210711	Mcmbp	7	128,696,441	128,740,429	43,988 -	2
GenelD:207352	Sec23ip	7	128,744,870	128,784,836	39,966 +	2
GenelD:14183	Fgfr2	7	130,162,451	130,266,808	104,357 -	1
GenelD:11907	Ate1	7	130,391,493	130,519,961	128,468 -	1
GenelD:67872	Nsmce4a	7	130,532,526	130,547,381	14,855 -	1
GenelD:57752	Tacc2	7	130,577,484	130,764,784	187,300 +	2
GenelD:434249	Gm5602	7	130,861,285	130,866,324	5,039 -	1
GenelD:101476	Plekha1	7	130,865,910	130,913,302	47,392 +	1
GenelD:56213	Htra1	7	130,936,203	130,985,658	49,455 +	1
GenelD:68277	2310057M21Rik	7	131,342,718	131,362,698	19,980 -	2
GenelD:214580	Pstk	7	131,371,146	131,387,839	16,693 +	2
GenelD:67143	Ikzf5	7	131,388,649	131,410,478	21,829 -	1
GenelD:66885	Acadsb	7	131,410,601	131,446,211	35,610 +	1
GenelD:15372	Hmx2	7	131,554,062	131,556,582	2,520 +	1
GenelD:12237	Bub3	7	131,560,391	131,571,898	11,507 +	1
GenelD:233919	Gpr26	7	131,966,460	131,985,633	19,173 +	1
GenelD:77590	Chst15	7	132,236,255	132,317,155	80,900 -	1
GenelD:10050293	Gm19463	7	132,314,912	132,316,219	1,307 -	1
GenelD:10004368	Gm10584	7	132,315,664	132,318,291	2,627 +	1
GenelD:77938	Fam53b	7	132,712,084	132,813,196	101,112 -	1
GenelD:76683	1500002F19Rik	7	132,874,629	132,931,197	56,568 -	1
GenelD:13017	Ctbp2	7	132,987,011	133,123,483	136,472 -	2
GenelD:74970	4930483O08Rik	7	133,128,251	133,142,457	14,206 +	2
GenelD:214764	2700050L05Rik	7	133,637,675	133,673,017	35,342 +	1
GenelD:22276	Uros	7	133,686,330	133,709,295	22,965 -	1
GenelD:66165	Bccip	7	133,709,333	133,721,145	11,812 +	1
GenelD:101437	Dhx32	7	133,720,935	133,776,803	55,868 -	1

GenelD:66930	Fank1	7	133,776,891	133,881,532	104,641 +	1
GenelD:330662	Dock1	7	134,670,687	135,173,647	502,960 +	1
GenelD:212070	Clrn3	7	135,511,456	135,528,654	17,198 -	1
GenelD:19267	Ptpre	7	135,537,824	135,686,294	148,470 +	2
GenelD:17345	Mki67	7	135,689,788	135,716,379	26,591 -	1
GenelD:13593	Ebf3	7	137,193,671	137,314,445	120,774 -	1
GenelD:30926	Glr3	7	137,437,648	137,468,594	30,946 +	1
GenelD:69546	Mapk1ip1	7	138,835,818	138,846,267	10,449 -	1
GenelD:52432	Ppp2r2d	7	138,846,386	138,883,057	36,671 +	1
GenelD:74004	Jakmip3	7	139,062,607	139,083,976	21,369 +	1
GenelD:26757	Dpysl4	7	139,086,001	139,101,795	15,794 +	1
GenelD:76612	Lrrc27	7	139,212,988	139,242,973	29,985 +	1
GenelD:101631	Pwwp2b	7	139,248,482	139,267,253	18,771 +	1
GenelD:212111	Inpp5a	7	139,389,109	139,579,652	190,543 +	1
GenelD:14912	Nkx6-2	7	139,579,376	139,582,797	3,421 -	1
GenelD:76484	Kndc1	7	139,894,696	139,941,540	46,844 +	1
GenelD:22286	Utf1	7	139,943,856	139,945,112	1,256 +	1
GenelD:74237	Tubgcp2	7	139,995,955	140,036,350	40,395 -	1
GenelD:69752	Zfp511	7	140,036,391	140,040,605	4,214 +	1
GenelD:17703	Msx3	7	140,046,157	140,049,088	2,931 -	1
GenelD:212503	Paox	7	140,125,685	140,134,334	8,649 +	1
GenelD:212508	Mtg1	7	140,137,564	140,150,786	13,222 +	1
GenelD:78520	C330022C24Rik	7	140,837,221	140,845,689	8,468 -	1
GenelD:338417	Scgb1c1	7	140,845,565	140,846,769	1,204 +	1
GenelD:69287	Odf3	7	140,847,916	140,850,925	3,009 +	1
GenelD:54399	Bet1l	7	140,853,384	140,856,383	2,999 -	1
GenelD:101489	Ric8	7	140,857,397	140,863,731	6,334 +	1
GenelD:64384	Sirt3	7	140,863,663	140,882,309	18,646 -	2
GenelD:23997	Psmd13	7	140,882,394	140,898,642	16,248 +	1
GenelD:15461	Hras1	7	141,189,934	141,194,004	4,070 -	3
GenelD:70552	Lrrc56	7	141,194,130	141,210,055	15,925 +	4
GenelD:72000	1600016N20Rik	7	141,210,043	141,214,080	4,037 -	1
GenelD:66985	Rassf7	7	141,215,860	141,218,658	2,798 +	1
GenelD:387206	Mir210	7	141,221,384	141,221,493	109 -	1
GenelD:57754	Cend1	7	141,426,451	141,429,420	2,969 -	1
GenelD:68267	Slc25a22	7	141,429,749	141,437,874	8,125 -	2
GenelD:57913	Lrdd	7	141,438,515	141,443,355	4,840 -	2
GenelD:67186	Rplp2	7	141,447,650	141,451,342	3,692 +	3
GenelD:10021741	Snora52	7	141,448,803	141,448,936	133 +	2
GenelD:66853	Pnpla2	7	141,455,188	141,460,743	5,555 +	3
GenelD:213573	Efcab4a	7	141,461,094	141,466,602	5,508 +	3
GenelD:12476	Cd151	7	141,467,362	141,471,481	4,119 +	2
GenelD:66491	Polr2l	7	141,471,860	141,475,153	3,293 -	3
GenelD:64540	Tspan4	7	141,475,236	141,493,427	18,191 +	3
GenelD:11772	Ap2a2	7	141,562,180	141,633,011	70,831 +	1
GenelD:18218	Dusp8	7	142,079,487	142,095,284	15,797 -	1
GenelD:10004362	Gm4559	7	142,273,764	142,274,363	599 -	1

GenelD:10003841	E330027M22Rik	7	142,288,067	142,290,418	2,351 +	1
GenelD:13033	Ctsd	7	142,375,916	142,387,870	11,954 -	1
GenelD:19935	Mrpl23	7	142,533,117	142,540,742	7,625 +	1
GenelD:16002	Igf2	7	142,650,768	142,661,035	10,267 -	1
GenelD:723874	Mir483	7	142,654,924	142,654,996	72 -	1
GenelD:111975	Igf2as	7	142,659,693	142,670,356	10,663 +	1
GenelD:17173	Ascl2	7	142,966,822	142,969,264	2,442 -	1
GenelD:97423	R74862	7	143,032,621	143,053,368	20,747 -	1
GenelD:12520	Cd81	7	143,052,750	143,067,930	15,180 +	1
GenelD:12577	Cdkn1c	7	143,458,339	143,461,050	2,711 -	1
GenelD:17955	Nap1l4	7	143,513,579	143,549,090	35,511 -	1
GenelD:27267	Cars	7	143,557,230	143,600,090	42,860 -	1
GenelD:13043	Cttn	7	144,435,724	144,470,935	35,211 -	1
GenelD:233977	Ppfia1	7	144,476,755	144,553,729	76,974 -	1
GenelD:14174	Fgf3	7	144,838,612	144,843,348	4,736 +	1
GenelD:12443	Ccnd1	7	144,929,931	144,939,925	9,994 -	1
GenelD:10004004	1810010D01Rik	7	145,205,818	145,208,119	2,301 -	1
GenelD:319493	A430078G23Rik	8	3,353,415	3,390,299	36,884 +	1
GenelD:102098	Arhgef18	8	3,393,008	3,456,600	63,592 +	1
GenelD:76406	1700019B03Rik	8	3,470,862	3,487,178	16,316 +	1
GenelD:140482	Zfp358	8	3,493,138	3,497,208	4,070 +	1
GenelD:94178	Mcoln1	8	3,500,519	3,515,232	14,713 +	1
GenelD:546049	C330021F23Rik	8	3,567,998	3,584,776	16,778 +	1
GenelD:10050385	Gm10186	8	3,583,752	3,584,250	498 -	1
GenelD:69697	Camsap3	8	3,587,450	3,609,075	21,625 +	1
GenelD:69189	1810033B17Rik	8	3,665,762	3,668,905	3,143 +	1
GenelD:664858	BB094273	8	3,674,035	3,687,252	13,217 -	1
GenelD:66682	Trappc5	8	3,676,477	3,680,921	4,444 +	1
GenelD:14128	Fcer2a	8	3,681,737	3,694,174	12,437 -	1
GenelD:10004450	Gm14378	8	4,248,214	4,251,423	3,209 +	1
GenelD:102209	Snapc2	8	4,253,102	4,256,220	3,118 +	1
GenelD:330695	Ctxn1	8	4,257,646	4,259,274	1,628 -	1
GenelD:21856	Timm44	8	4,259,731	4,275,905	16,174 -	1
GenelD:15568	Elavl1	8	4,284,782	4,325,100	40,318 -	1
GenelD:20300	Ccl25	8	4,325,210	4,360,020	34,810 +	1
GenelD:665044	Gm7461	8	4,677,539	4,678,365	826 -	1
GenelD:20419	Shcbp1	8	4,735,980	4,779,534	43,554 -	1
GenelD:13642	Efnb2	8	8,617,439	8,660,773	43,334 -	1
GenelD:66719	4921522P10Rik	8	8,661,801	8,664,728	2,927 +	1
GenelD:234023	Arglu1	8	8,666,576	8,690,537	23,961 -	2
GenelD:384783	Irs2	8	10,986,961	11,008,430	21,469 -	3
GenelD:619321	9530052E02Rik	8	11,007,850	11,054,541	46,691 +	2
GenelD:12826	Col4a1	8	11,198,423	11,312,826	114,403 -	1
GenelD:12827	Col4a2	8	11,312,829	11,449,287	136,458 +	1
GenelD:19332	Rab20	8	11,453,977	11,478,499	24,522 -	1
GenelD:102132	E230013L22Rik	8	11,477,664	11,480,241	2,577 +	1
GenelD:69225	Carkd	8	11,497,506	11,513,287	15,781 +	1

GenelD:71941	Cars2	8	11,514,017	11,550,771	36,754 -	1
GenelD:26356	Ing1	8	11,556,066	11,563,250	7,184 +	1
GenelD:102334	Ankrd10	8	11,611,583	11,635,754	24,171 -	1
GenelD:54126	Arhgef7	8	11,728,105	11,835,219	107,114 +	1
GenelD:259279	Tubgcp3	8	12,614,277	12,672,100	57,823 -	1
GenelD:50770	Atp11a	8	12,757,016	12,868,728	111,712 +	1
GenelD:17207	Mcf2l	8	12,915,893	13,020,509	104,616 +	1
GenelD:234069	Pcid2	8	13,077,525	13,105,343	27,818 -	1
GenelD:99375	Cul4a	8	13,105,721	13,147,940	42,219 +	1
GenelD:16783	Lamp1	8	13,159,135	13,175,338	16,203 +	1
GenelD:21781	Tfdp1	8	13,339,674	13,377,702	38,028 +	1
GenelD:14456	Gas6	8	13,465,374	13,494,535	29,161 -	1
GenelD:19414	Rasa3	8	13,567,218	13,677,587	110,369 -	1
GenelD:69957	Cdc16	8	13,757,690	13,781,882	24,192 +	2
GenelD:67031	Upf3a	8	13,785,615	13,798,538	12,923 +	1
GenelD:101994	Zfp828	8	13,869,641	13,881,639	11,998 +	1
GenelD:66423	Coprs	8	13,884,788	13,890,271	5,483 -	1
GenelD:72148	2610019F03Rik	8	13,952,008	13,974,777	22,769 -	1
GenelD:234094	Arhgef10	8	14,911,717	15,001,085	89,368 +	1
GenelD:74901	Kbtbd11	8	15,011,025	15,033,333	22,308 +	2
GenelD:244329	Mcp1	8	18,595,173	18,803,189	208,016 +	1
GenelD:52123	Agpat5	8	18,846,279	18,884,413	38,134 +	1
GenelD:319581	Xkr5	8	18,932,729	18,950,973	18,244 -	1
GenelD:11979	Atp7b	8	21,994,348	22,060,074	65,726 -	1
GenelD:207958	Alg11	8	22,060,721	22,071,627	10,906 +	1
GenelD:80986	Ckap2	8	22,168,152	22,185,819	17,667 -	1
GenelD:70160	Vps36	8	22,192,860	22,218,597	25,737 +	1
GenelD:102032	Smim19	8	22,462,614	22,476,879	14,265 -	1
GenelD:20516	Slc20a2	8	22,476,700	22,569,616	92,916 +	1
GenelD:10050293	Gm17491	8	22,480,264	22,483,332	3,068 +	1
GenelD:22335	Vdac3	8	22,577,075	22,593,813	16,738 -	1
GenelD:64933	Ap3m2	8	22,787,354	22,805,654	18,300 -	1
GenelD:244349	Kat6a	8	22,859,539	22,943,262	83,723 +	1
GenelD:11733	Ank1	8	22,974,882	23,150,496	175,614 +	1
GenelD:723876	Mir486	8	23,142,555	23,142,682	127 +	1
GenelD:10052651	Mir3107	8	23,142,573	23,142,662	89 -	1
GenelD:74561	Nkx6-3	8	23,153,271	23,158,948	5,677 +	1
GenelD:102247	Agpat6	8	23,172,946	23,208,453	35,507 -	1
GenelD:20377	Sfrp1	8	23,411,502	23,449,632	38,130 +	1
GenelD:11502	Adam9	8	24,949,611	25,016,922	67,311 -	1
GenelD:69742	Tm2d2	8	25,017,211	25,023,260	6,049 +	1
GenelD:330723	Htra4	8	25,024,928	25,038,962	14,034 -	1
GenelD:320165	Tacc1	8	25,154,552	25,201,449	46,897 -	1
GenelD:14182	Fgfr1	8	25,518,772	25,575,714	56,942 +	1
GenelD:270035	Letm2	8	25,578,490	25,597,487	18,997 -	1
GenelD:234135	Whsc111	8	25,602,306	25,719,667	117,361 +	1
GenelD:72108	Ddhd2	8	25,725,324	25,754,280	28,956 -	1

GenelD:10050300	Gm17484	8	25,754,480	25,769,704	15,224 +	1
GenelD:67384	Bag4	8	25,764,538	25,785,209	20,671 -	2
GenelD:67207	Lsm1	8	25,785,591	25,803,975	18,384 +	1
GenelD:52120	Hgsnat	8	25,944,459	25,976,744	32,285 -	1
GenelD:74653	4930444A02Rik	8	25,980,604	25,994,121	13,517 -	1
GenelD:320191	Hook3	8	26,021,421	26,119,224	97,803 -	1
GenelD:77733	Rnf170	8	26,119,380	26,143,871	24,491 +	1
GenelD:353310	Zfp703	8	26,977,336	26,981,462	4,126 +	2
GenelD:244373	Erlin2	8	27,023,799	27,039,437	15,638 +	1
GenelD:78560	Gpr124	8	27,085,841	27,123,436	37,595 +	2
GenelD:66653	Brf2	8	27,123,832	27,128,632	4,800 -	1
GenelD:75767	Rab11fip1	8	27,138,773	27,174,646	35,873 -	1
GenelD:10105584	LOC101055849	8	27,159,828	27,170,695	10,867 +	1
GenelD:13685	Eif4ebp1	8	27,260,327	27,275,656	15,329 +	1
GenelD:10031666	Mir1186	8	31,102,921	31,103,042	121 -	1
GenelD:68867	Rnf122	8	31,111,846	31,131,482	19,636 +	1
GenelD:234138	Tti2	8	31,150,316	31,164,703	14,387 +	1
GenelD:67920	Mak16	8	31,159,468	31,168,724	9,256 -	1
GenelD:10105598	LOC101055986	8	32,851,982	32,884,254	32,272 -	1
GenelD:10004271	Gm3985	8	32,888,505	32,950,026	61,521 -	1
GenelD:22427	Wrn	8	33,234,373	33,385,527	151,154 -	1
GenelD:75029	Purg	8	33,386,325	33,417,469	31,144 +	1
GenelD:19053	Ppp2cb	8	33,599,621	33,619,804	20,183 +	1
GenelD:10050459	1700104B16Rik	8	33,730,538	33,731,814	1,276 -	1
GenelD:68153	Gtf2e2	8	33,731,914	33,777,173	45,259 +	1
GenelD:72632	Smim18	8	33,742,112	33,747,770	5,658 -	1
GenelD:19663	Rbpms	8	33,782,644	33,929,841	147,197 -	1
GenelD:68192	Leprotl1	8	34,135,572	34,146,739	11,167 -	1
GenelD:67887	Tmem66	8	34,154,563	34,170,847	16,284 +	1
GenelD:319520	Dusp4	8	34,807,610	34,819,894	12,284 +	1
GenelD:675578	Gm9648	8	34,809,534	34,810,409	875 -	1
GenelD:21951	Tnks	8	34,829,179	34,965,690	136,511 -	1
GenelD:67276	Eri1	8	35,465,265	35,495,533	30,268 -	1
GenelD:10050471	Gm16793	8	35,582,503	35,589,020	6,517 -	1
GenelD:52065	Mfhas1	8	35,587,798	35,679,449	91,651 +	1
GenelD:244421	Lonrf1	8	36,216,064	36,249,516	33,452 -	1
GenelD:80286	Tusc3	8	39,005,867	39,130,878	125,011 +	1
GenelD:78506	Micu3	8	40,308,051	40,386,304	78,253 +	1
GenelD:18983	Cnot7	8	40,493,036	40,511,304	18,268 -	1
GenelD:52348	Vps37a	8	40,511,783	40,551,134	39,351 +	1
GenelD:11988	Slc7a2	8	40,862,367	40,922,070	59,703 +	1
GenelD:102103	Mtus1	8	40,990,912	41,133,726	142,814 -	1
GenelD:18536	Pcm1	8	41,239,759	41,334,087	94,328 +	1
GenelD:11886	Asah1	8	41,340,643	41,374,697	34,054 -	1
GenelD:10004539	Gm9908	8	44,934,730	44,935,159	429 -	1
GenelD:11739	Slc25a4	8	46,207,339	46,211,009	3,670 -	1
GenelD:14081	Acsl1	8	46,471,042	46,536,050	65,008 +	1

GenelD:10050349	Gm16675	8	46,730,970	46,739,515	8,545 -	2
GenelD:16363	Irf2	8	46,739,745	46,847,458	107,713 +	2
GenelD:71069	Stox2	8	47,180,048	47,352,348	172,300 -	1
GenelD:384817	4930448N21Rik	8	47,294,272	47,446,362	152,090 -	2
GenelD:69260	Ing2	8	47,667,178	47,675,159	7,981 -	1
GenelD:546058	AA386476	8	47,675,377	47,685,457	10,080 +	1
GenelD:70925	Cdkn2aip	8	47,709,344	47,713,931	4,587 -	1
GenelD:52357	Wwc2	8	47,827,595	47,990,551	162,956 -	1
GenelD:320685	Dctd	8	48,099,092	48,141,667	42,575 +	1
GenelD:23965	Tenm3	8	48,225,665	48,674,690	449,025 -	1
GenelD:73020	2900073C17Rik	8	48,841,997	48,843,846	1,849 -	1
GenelD:76687	Spcs3	8	54,520,433	54,529,998	9,565 -	1
GenelD:20284	Scrg1	8	57,455,923	57,477,585	21,662 +	1
GenelD:60406	Sap30	8	57,482,702	57,487,860	5,158 -	1
GenelD:97165	Hmgb2	8	57,511,843	57,515,999	4,156 +	1
GenelD:108150	Galnt7	8	57,523,825	57,653,055	129,230 -	1
GenelD:10050261	AW046200	8	57,651,753	57,663,430	11,677 +	1
GenelD:71306	Mfap3l	8	60,632,860	60,676,731	43,871 +	1
GenelD:59009	Sh3rf1	8	61,224,171	61,396,072	171,901 +	1
GenelD:234309	Cbr4	8	61,487,734	61,503,500	15,766 +	1
GenelD:72333	Palld	8	61,515,021	61,902,690	387,669 -	1
GenelD:73067	Tmem192	8	64,947,185	64,969,036	21,851 +	1
GenelD:234344	Naf1	8	66,860,217	66,890,564	30,347 +	2
GenelD:234356	Csgalnact1	8	68,356,781	68,735,146	378,365 -	1
GenelD:16956	Lpl	8	68,880,555	68,906,932	26,377 +	1
GenelD:234358	Zfp930	8	69,209,046	69,230,539	21,493 +	1
GenelD:636741	Zfp964	8	69,654,556	69,664,453	9,897 +	1
GenelD:66869	Zfp869	8	69,705,137	69,716,902	11,765 -	1
GenelD:170759	Atp13a1	8	69,791,163	69,807,749	16,586 +	1
GenelD:234365	Yjefn3	8	69,887,788	69,893,975	6,187 -	1
GenelD:67184	Ndufa13	8	69,894,180	69,902,558	8,378 -	1
GenelD:83984	Tssk6	8	69,902,215	69,903,518	1,303 +	1
GenelD:234366	Gatad2a	8	69,907,069	69,996,379	89,310 -	3
GenelD:74549	Mau2	8	70,016,123	70,042,734	26,611 -	1
GenelD:70616	Sugp1	8	70,042,813	70,071,953	29,140 +	1
GenelD:76813	Armc6	8	70,220,192	70,234,422	14,230 -	1
GenelD:234373	Sugp2	8	70,234,226	70,263,105	28,879 +	1
GenelD:10050383	LOC100503831	8	70,273,592	70,279,916	6,324 +	1
GenelD:26558	Homer3	8	70,282,999	70,294,361	11,362 +	2
GenelD:234374	Ddx49	8	70,292,866	70,302,452	9,586 -	2
GenelD:59042	Cope	8	70,302,785	70,312,990	10,205 +	2
GenelD:93898	Cers1	8	70,315,775	70,331,588	15,813 +	2
GenelD:14559	Gdf1	8	70,315,775	70,331,592	15,817 +	2
GenelD:19704	Upf1	8	70,331,522	70,353,273	21,751 -	2
GenelD:12845	Comp	8	70,373,548	70,382,066	8,518 +	1
GenelD:382056	Crtc1	8	70,382,358	70,439,573	57,215 -	1
GenelD:12931	Crlf1	8	70,493,156	70,504,081	10,925 +	1

GenelD:66462	2810428I15Rik	8	70,504,296	70,506,739	2,443 -	1
GenelD:22186	Uba52	8	70,508,266	70,510,367	2,101 -	1
GenelD:75620	Kxd1	8	70,513,396	70,523,180	9,784 -	1
GenelD:14232	Fkbp8	8	70,527,743	70,535,328	7,585 +	1
GenelD:13716	Ell	8	70,539,675	70,592,858	53,183 +	2
GenelD:71780	Isyna1	8	70,594,481	70,597,290	2,809 +	1
GenelD:76900	Ssbp4	8	70,597,490	70,608,314	10,824 -	3
GenelD:211228	Lrrc25	8	70,616,844	70,620,850	4,006 +	3
GenelD:23886	Gdf15	8	70,629,394	70,631,635	2,241 -	1
GenelD:66522	Pgpep1	8	70,646,436	70,659,738	13,302 -	1
GenelD:16478	Jund	8	70,697,739	70,700,616	2,877 +	1
GenelD:637079	Gm16486	8	70,708,160	70,717,650	9,490 +	1
GenelD:110385	Pde4c	8	70,724,064	70,751,186	27,122 +	1
GenelD:19339	Rab3a	8	70,754,679	70,758,686	4,007 +	1
GenelD:234384	Mpv17l2	8	70,758,649	70,760,921	2,272 -	1
GenelD:65972	Ifi30	8	70,762,773	70,766,663	3,890 -	3
GenelD:18709	Pik3r2	8	70,768,181	70,776,712	8,531 -	2
GenelD:72093	2010320M18Rik	8	70,776,862	70,777,606	744 +	2
GenelD:546071	Mast3	8	70,778,117	70,792,433	14,316 -	3
GenelD:70807	Arrdc2	8	70,835,138	70,839,720	4,582 -	1
GenelD:84036	Kcnn1	8	70,842,049	70,857,008	14,959 -	2
GenelD:442796	A230052G05Rik	8	70,862,997	70,865,428	2,431 +	2
GenelD:234388	Ccdc124	8	70,868,227	70,873,490	5,263 -	2
GenelD:114479	Slc5a5	8	70,882,889	70,892,757	9,868 -	3
GenelD:76808	Rpl18a	8	70,894,722	70,897,443	2,721 -	3
GenelD:104370	Snora68	8	70,895,759	70,895,856	97 -	2
GenelD:270058	Map1s	8	70,905,974	70,917,529	11,555 +	2
GenelD:76478	Haus8	8	71,251,124	71,272,590	21,466 -	1
GenelD:17925	Myo9b	8	71,272,714	71,360,712	87,998 +	2
GenelD:67023	Use1	8	71,366,848	71,369,732	2,884 +	2
GenelD:77090	Ocel1	8	71,371,298	71,373,689	2,391 +	3
GenelD:13864	Nr2f6	8	71,374,119	71,381,952	7,833 -	3
GenelD:234395	Ushbp1	8	71,384,274	71,395,801	11,527 -	2
GenelD:68251	Babam1	8	71,396,855	71,404,772	7,917 +	1
GenelD:234396	Ankle1	8	71,406,012	71,409,904	3,892 +	1
GenelD:64296	Abhd8	8	71,456,700	71,463,657	6,957 -	2
GenelD:94065	Mrpl34	8	71,464,926	71,465,753	827 +	2
GenelD:66498	Dda1	8	71,469,194	71,476,435	7,241 +	3
GenelD:382014	Ano8	8	71,476,019	71,486,067	10,048 -	1
GenelD:70359	Gtpbp3	8	71,488,103	71,493,400	5,297 +	1
GenelD:26457	Slc27a1	8	71,568,927	71,586,708	17,781 +	1
GenelD:66171	Pgls	8	71,592,184	71,596,267	4,083 +	1
GenelD:10003727	Fam129c	8	71,597,646	71,608,149	10,503 +	2
GenelD:234407	Glt25d1	8	71,611,024	71,624,911	13,887 +	1
GenelD:382018	Unc13a	8	71,626,712	71,671,757	45,045 -	1
GenelD:16453	Jak3	8	71,676,383	71,690,577	14,194 +	1
GenelD:236193	Zfp709	8	71,882,068	71,892,565	10,497 +	1

GenelD:326618	Tpm4	8	72,135,292	72,153,129	17,837 +	2
GenelD:17274	Rab8a	8	72,161,200	72,181,366	20,166 +	1
GenelD:16598	Klf2	8	72,319,062	72,321,654	2,592 +	1
GenelD:13859	Eps15l1	8	72,340,995	72,421,474	80,479 -	1
GenelD:73316	Calr3	8	72,424,183	72,443,778	19,595 -	1
GenelD:27967	Cherp	8	72,460,483	72,475,233	14,750 -	1
GenelD:270066	Slc35e1	8	72,477,995	72,492,614	14,619 -	2
GenelD:70625	Med26	8	72,494,558	72,548,310	53,752 -	2
GenelD:319555	Nwd1	8	72,646,711	72,714,746	68,035 +	2
GenelD:20467	Sin3b	8	72,723,288	72,758,203	34,915 +	1
GenelD:16795	Large	8	72,814,599	73,352,556	537,957 -	1
GenelD:70823	Hmgxb4	8	74,993,703	75,031,972	38,269 +	2
GenelD:21968	Tom1	8	75,033,686	75,070,121	36,435 +	1
GenelD:15368	Hmox1	8	75,093,618	75,100,593	6,975 +	1
GenelD:17218	Mcm5	8	75,109,528	75,128,439	18,911 +	1
GenelD:78514	Arhgap10	8	77,250,366	77,517,907	267,541 -	1
GenelD:70345	0610038B21Rik	8	77,517,056	77,518,578	1,522 +	1
GenelD:102182	Prmt10	8	77,549,397	77,581,338	31,941 +	1
GenelD:19656	Rbmx1	8	78,505,269	78,508,928	3,659 -	1
GenelD:76775	Slc10a7	8	78,509,335	78,734,005	224,670 +	1
GenelD:622675	Zfp827	8	79,028,437	79,193,766	165,329 +	1
GenelD:17125	Smad1	8	79,338,395	79,399,468	61,073 -	1
GenelD:73945	Otud4	8	79,639,676	79,677,755	38,079 +	1
GenelD:24015	Abce1	8	79,683,442	79,711,740	28,298 -	1
GenelD:68999	Anapc10	8	79,711,820	79,777,321	65,501 +	1
GenelD:15245	Hhip	8	79,965,851	80,058,008	92,157 -	1
GenelD:93762	Smarca5	8	80,699,943	80,739,459	39,516 -	1
GenelD:14388	Gab1	8	80,764,434	80,880,479	116,045 -	1
GenelD:74841	Usp38	8	80,980,733	81,014,906	34,173 -	1
GenelD:10105565	LOC101055650	8	81,013,576	81,038,584	25,008 +	1
GenelD:30932	Zfp330	8	82,763,620	82,774,126	10,506 -	1
GenelD:244548	Elmod2	8	83,312,632	83,332,486	19,854 -	1
GenelD:81489	Dnajb1	8	83,608,175	83,611,903	3,728 +	1
GenelD:67903	Gipc1	8	83,652,678	83,664,789	12,111 +	2
GenelD:19216	Ptger1	8	83,666,640	83,670,103	3,463 +	1
GenelD:320795	Pkn1	8	83,669,762	83,699,179	29,417 -	1
GenelD:68278	Ddx39	8	83,715,177	83,723,351	8,174 +	1
GenelD:26364	Cd97	8	83,723,251	83,741,311	18,060 -	1
GenelD:330814	Lphn1	8	83,900,098	83,941,954	41,856 +	1
GenelD:66929	Asf1b	8	83,955,694	83,970,195	14,501 +	1
GenelD:18747	Prkaca	8	83,972,978	83,996,445	23,467 +	3
GenelD:666704	Samd1	8	83,997,672	84,000,386	2,714 +	2
GenelD:73453	1700067K01Rik	8	84,001,706	84,004,770	3,064 +	3
GenelD:70134	2210011C24Rik	8	84,010,228	84,012,156	1,928 -	2
GenelD:10031667	Mir1199	8	84,011,515	84,011,633	118 -	2
GenelD:74337	Palm3	8	84,021,474	84,030,295	8,821 +	1
GenelD:244551	Nanos3	8	84,173,733	84,176,552	2,819 -	1

GenelD:10004954	Mir181d	8	84,178,716	84,178,787	71 -	1
GenelD:723819	Mir181c	8	84,178,873	84,178,961	88 -	1
GenelD:387216	Mir23a	8	84,208,518	84,208,592	74 +	1
GenelD:387220	Mir27a	8	84,208,672	84,208,758	86 +	1
GenelD:723960	Mir24-2	8	84,208,815	84,208,921	106 +	1
GenelD:10052652	Mir3074-2	8	84,208,825	84,208,907	82 -	1
GenelD:212168	Zswim4	8	84,210,942	84,237,042	26,100 -	1
GenelD:101966	D8Ertd738e	8	84,246,235	84,249,761	3,526 -	2
GenelD:67873	Mri1	8	84,250,576	84,257,324	6,748 -	2
GenelD:67736	Ccdc130	8	84,257,795	84,270,360	12,565 -	2
GenelD:12286	Cacna1a	8	84,415,364	84,640,249	224,885 +	1
GenelD:15936	Ier2	8	84,661,331	84,662,852	1,521 -	1
GenelD:66830	Nacc1	8	84,670,479	84,687,862	17,383 -	2
GenelD:212528	Trmt1	8	84,689,247	84,699,808	10,561 +	1
GenelD:18032	Nfix	8	84,707,599	84,800,340	92,741 -	2
GenelD:619292	G430095P16Rik	8	84,723,007	84,726,846	3,839 +	1
GenelD:23863	Dand5	8	84,815,405	84,832,265	16,860 -	1
GenelD:102060	Gadd45gip1	8	84,832,282	84,835,482	3,200 +	2
GenelD:19358	Rad23a	8	84,834,652	84,840,641	5,989 -	3
GenelD:12317	Calr	8	84,842,088	84,846,931	4,843 -	4
GenelD:73619	1700122E12Rik	8	84,847,188	84,848,415	1,227 +	3
GenelD:66590	Farsa	8	84,856,986	84,869,257	12,271 +	2
GenelD:16596	Klf1	8	84,901,928	84,905,295	3,367 +	1
GenelD:13423	Dnase2a	8	84,908,624	84,911,461	2,837 +	1
GenelD:56527	Mast1	8	84,911,853	84,937,353	25,500 -	1
GenelD:234542	Rtbdn	8	84,946,991	84,956,603	9,612 +	1
GenelD:69724	Rnaseh2a	8	84,956,610	84,966,011	9,401 -	3
GenelD:10105573	LOC101055733	8	84,966,033	84,969,533	3,500 -	4
GenelD:21672	Prdx2	8	84,969,648	84,974,313	4,665 +	4
GenelD:16477	Junb	8	84,976,909	84,978,748	1,839 -	4
GenelD:170833	Hook2	8	84,990,595	85,003,364	12,769 +	1
GenelD:56495	Asna1	8	85,017,931	85,025,278	7,347 -	1
GenelD:68544	2310036O22Rik	8	85,026,833	85,030,286	3,453 +	3
GenelD:212999	Tnpo2	8	85,036,915	85,057,583	20,668 +	4
GenelD:320466	A230103J11Rik	8	85,053,150	85,060,443	7,293 -	1
GenelD:68628	Fbxw9	8	85,060,119	85,067,121	7,002 +	2
GenelD:10050371	Gm5741	8	85,067,568	85,067,982	414 -	2
GenelD:330817	Dhps	8	85,071,757	85,075,161	3,404 +	1
GenelD:67836	Wdr83	8	85,075,035	85,080,746	5,711 -	1
GenelD:414077	BC056474	8	85,080,963	85,082,339	1,376 +	1
GenelD:65114	Vps35	8	85,260,392	85,299,497	39,105 -	1
GenelD:56452	Orc6	8	85,299,632	85,308,279	8,647 +	1
GenelD:108682	Gpt2	8	85,492,617	85,527,558	34,941 +	1
GenelD:56445	Dnaja2	8	85,537,640	85,555,271	17,631 -	1
GenelD:71927	Irfg1	8	85,717,557	85,840,949	123,392 -	1
GenelD:102093	Phkb	8	85,841,002	86,060,642	219,640 +	1
GenelD:66887	Lonp2	8	86,624,043	86,716,636	92,593 +	1

GenelD:20437	Siah1a	8	86,723,933	86,746,006	22,073 -	1
GenelD:666945	Gm10638	8	86,745,699	86,747,060	1,361 +	1
GenelD:80750	N4bp1	8	86,841,139	86,885,258	44,119 -	1
GenelD:10050375	Gm19872	8	87,460,469	87,463,792	3,323 +	3
GenelD:12404	Cbln1	8	87,468,853	87,472,592	3,739 -	3
GenelD:10004029	Gm2694	8	87,472,812	87,525,554	52,742 +	3
GenelD:94187	Zfp423	8	87,661,810	87,959,595	297,785 -	1
GenelD:382030	Cnep1r1	8	88,118,759	88,135,197	16,438 +	1
GenelD:214627	Papd5	8	88,199,213	88,259,722	60,509 +	1
GenelD:11513	Adcy7	8	88,272,403	88,329,962	57,559 +	2
GenelD:26992	Brd7	8	88,332,311	88,362,191	29,880 -	1
GenelD:93960	Nkd1	8	88,521,344	88,594,887	73,543 +	1
GenelD:71607	Snx20	8	88,626,828	88,636,128	9,300 -	1
GenelD:257632	Nod2	8	88,647,347	88,688,474	41,127 +	1
GenelD:74256	Cyld	8	88,697,028	88,751,945	54,917 +	1
GenelD:109151	Chd9	8	90,828,835	91,054,508	225,673 +	1
GenelD:19651	Rbl2	8	91,070,094	91,123,844	53,750 +	1
GenelD:16373	Irx3	8	91,798,511	91,801,654	3,143 -	1
GenelD:10105581	LOC101055810	8	91,802,175	91,805,215	3,040 +	1
GenelD:17390	Mmp2	8	92,827,328	92,853,420	26,092 +	1
GenelD:23802	Amfr	8	93,971,588	94,012,640	41,052 -	1
GenelD:68219	Nudt21	8	94,019,403	94,037,039	17,636 -	1
GenelD:71805	Nup93	8	94,214,601	94,315,066	100,465 +	1
GenelD:10004155	Rpl10-ps5	8	94,222,952	94,223,709	757 +	1
GenelD:64209	Herpud1	8	94,386,500	94,395,358	8,858 +	1
GenelD:434341	Nlrc5	8	94,472,763	94,527,272	54,509 +	1
GenelD:234577	Cpne2	8	94,533,028	94,570,529	37,501 +	1
GenelD:109006	Ciapin1	8	94,819,818	94,838,340	18,522 -	1
GenelD:664947	Gm7418	8	94,835,698	94,836,559	861 +	1
GenelD:67914	Coq9	8	94,838,417	94,854,895	16,478 +	2
GenelD:20021	Polr2c	8	94,857,450	94,864,242	6,792 +	1
GenelD:114255	Dok4	8	94,863,828	94,876,312	12,484 -	1
GenelD:234582	Ccdc102a	8	94,902,869	94,918,098	15,229 -	1
GenelD:382045	Gpr114	8	94,923,694	94,943,290	19,596 +	1
GenelD:73407	Tepp	8	95,311,515	95,321,328	9,813 +	2
GenelD:79233	Zfp319	8	95,326,136	95,331,950	5,814 -	2
GenelD:101985	Usb1	8	95,332,284	95,347,513	15,229 +	3
GenelD:17388	Mmp15	8	95,352,337	95,374,293	21,956 +	1
GenelD:13000	Csnk2a2	8	95,446,096	95,488,820	42,724 -	1
GenelD:78833	Gins3	8	95,633,559	95,645,059	11,500 +	1
GenelD:234593	Ndrp4	8	95,703,037	95,715,119	12,082 +	1
GenelD:66083	Setd6	8	95,715,913	95,719,004	3,091 +	1
GenelD:234594	Cnot1	8	95,719,451	95,807,462	88,011 -	2
GenelD:319960	4930513N10Rik	8	95,806,830	95,821,728	14,898 +	1
GenelD:65115	Bean1	8	104,170,513	104,219,098	48,585 +	1
GenelD:57813	Tk2	8	104,226,691	104,248,558	21,867 -	1
GenelD:75458	Cklf	8	104,250,903	104,264,936	14,033 +	1

GenelD:320206	A730028G07Rik	8	104,258,235	104,261,286	3,051 +	1
GenelD:97487	Cmtm4	8	104,348,191	104,395,807	47,616 -	1
GenelD:234663	Dync1li2	8	104,417,674	104,443,047	25,373 -	1
GenelD:320022	Ccdc79	8	104,446,719	104,509,887	63,168 -	1
GenelD:234664	Nae1	8	104,511,028	104,534,637	23,609 -	1
GenelD:12354	Car7	8	104,540,807	104,550,343	9,536 +	1
GenelD:12556	Cdh16	8	104,601,915	104,624,396	22,481 -	1
GenelD:56437	Rrad	8	104,628,066	104,631,321	3,255 -	1
GenelD:68523	Fam96b	8	104,639,839	104,641,728	1,889 -	1
GenelD:234677	Ces4a	8	105,131,800	105,150,109	18,309 +	1
GenelD:12400	Cbfb	8	105,170,674	105,217,989	47,315 +	1
GenelD:234678	D230025D16Rik	8	105,225,188	105,253,053	27,865 +	2
GenelD:97440	B3gnt9	8	105,252,638	105,255,151	2,513 -	2
GenelD:71609	Tradd	8	105,258,575	105,264,594	6,019 -	2
GenelD:50788	Fbxl8	8	105,264,648	105,269,326	4,678 +	2
GenelD:26386	Hsf4	8	105,269,801	105,275,845	6,044 +	1
GenelD:78688	Nol3	8	105,276,447	105,281,939	5,492 +	1
GenelD:74356	4931428F04Rik	8	105,280,409	105,289,528	9,119 -	2
GenelD:277978	Exoc3l	8	105,289,924	105,296,098	6,174 -	2
GenelD:104394	E2f4	8	105,297,663	105,305,370	7,707 +	2
GenelD:234683	Elmo3	8	105,305,601	105,310,623	5,022 +	1
GenelD:723841	Mir328	8	105,308,364	105,308,460	96 -	1
GenelD:234686	Fhod1	8	105,329,160	105,347,970	18,810 -	2
GenelD:277973	Slc9a5	8	105,348,258	105,369,881	21,623 +	2
GenelD:70796	Zdhhc1	8	105,472,425	105,496,870	24,445 -	1
GenelD:11972	Atp6v0d1	8	105,524,470	105,566,040	41,570 -	1
GenelD:11604	Agrp	8	105,566,698	105,568,298	1,600 -	1
GenelD:75687	Fam65a	8	105,605,229	105,622,219	16,990 +	2
GenelD:10031671	Mir1966	8	105,615,466	105,615,573	107 +	2
GenelD:546100	Gm5914	8	105,624,336	105,637,878	13,542 -	2
GenelD:13018	Ctcf	8	105,636,538	105,682,922	46,384 +	1
GenelD:234695	Rltpr	8	105,690,906	105,698,165	7,259 +	1
GenelD:497652	Acd	8	105,698,159	105,701,095	2,936 -	1
GenelD:56513	Pard6a	8	105,701,154	105,703,494	2,340 +	1
GenelD:102124	Enkd1	8	105,703,652	105,708,168	4,516 -	1
GenelD:71046	4933405L10Rik	8	105,708,303	105,710,168	1,865 +	1
GenelD:70575	Gfod2	8	105,716,113	105,758,607	42,494 -	1
GenelD:74334	Ranbp10	8	105,768,308	105,827,350	59,042 -	1
GenelD:320394	Cenpt	8	105,844,678	105,852,008	7,330 -	1
GenelD:59016	Thap11	8	105,855,103	105,856,950	1,847 +	1
GenelD:68051	Nutf2	8	105,860,634	105,880,402	19,768 +	1
GenelD:20498	Slc12a4	8	105,943,590	105,966,115	22,525 -	1
GenelD:71854	Dpep3	8	105,973,520	105,979,419	5,899 -	1
GenelD:66369	Dus2l	8	106,011,507	106,053,819	42,312 +	1
GenelD:18021	Nfatc3	8	106,059,603	106,130,537	70,934 +	2
GenelD:77411	Esrp2	8	106,131,183	106,136,974	5,791 -	1
GenelD:69771	1810019D21Rik	8	106,135,400	106,138,723	3,323 +	1

GenelD:192654	Pla2g15	8	106,150,399	106,164,715	14,316 +	1
GenelD:330836	Slc7a6	8	106,168,875	106,198,704	29,829 +	1
GenelD:66432	Slc7a6os	8	106,200,438	106,210,933	10,495 -	1
GenelD:214572	Prmt7	8	106,211,054	106,251,694	40,640 +	1
GenelD:68163	A930006D01Rik	8	106,405,614	106,406,529	915 -	1
GenelD:22751	Zfp90	8	106,415,339	106,425,889	10,550 +	1
GenelD:68692	1110028F18Rik	8	106,587,143	106,594,820	7,677 +	1
GenelD:12550	Cdh1	8	106,603,368	106,670,246	66,878 +	1
GenelD:272538	Tango6	8	106,683,068	106,851,439	168,371 +	1
GenelD:15118	Has3	8	106,870,242	106,882,902	12,660 +	2
GenelD:214987	Chtf8	8	106,883,863	106,893,593	9,730 -	1
GenelD:21771	Cirh1a	8	106,893,640	106,923,094	29,454 +	1
GenelD:20650	Sntb2	8	106,935,750	107,014,192	78,442 +	1
GenelD:116733	Vps4a	8	107,031,326	107,045,756	14,430 +	2
GenelD:68023	Pdf	8	107,046,289	107,048,614	2,325 -	2
GenelD:97484	Cog8	8	107,048,709	107,056,737	8,028 -	2
GenelD:66164	Nip7	8	107,056,877	107,060,931	4,054 +	2
GenelD:66269	Tmed6	8	107,061,484	107,065,644	4,160 -	1
GenelD:21750	Terf2	8	107,069,402	107,096,545	27,143 -	1
GenelD:54446	Nfat5	8	107,293,470	107,379,517	86,047 +	1
GenelD:17463	Psmd7	8	107,580,380	107,588,482	8,102 -	1
GenelD:11906	Zfhx3	8	108,714,644	108,961,636	246,992 +	1
GenelD:71955	Ist1	8	109,671,321	109,693,294	21,973 -	1
GenelD:11765	Ap1g1	8	109,778,640	109,864,208	85,568 +	2
GenelD:244650	Phlpp2	8	109,868,603	109,944,671	76,068 +	1
GenelD:234725	Zfp612	8	110,079,734	110,092,752	13,018 +	1
GenelD:244653	Hydin	8	110,266,977	110,610,253	343,276 +	1
GenelD:234729	Vac14	8	110,618,638	110,720,398	101,760 +	1
GenelD:101943	Sf3b3	8	110,810,492	110,846,803	36,311 -	1
GenelD:10021746	Snord111	8	110,838,535	110,838,598	63 -	1
GenelD:102339	Cog4	8	110,847,024	110,882,234	35,210 +	1
GenelD:20444	St3gal2	8	110,919,865	110,972,497	52,632 +	1
GenelD:234734	Aars	8	111,033,967	111,056,870	22,903 +	1
GenelD:72544	Exosc6	8	111,056,339	111,057,599	1,260 +	1
GenelD:319518	Pdpr	8	111,094,745	111,135,144	40,399 +	1
GenelD:20340	Glg1	8	111,157,548	111,259,202	101,654 -	1
GenelD:234736	Rfwd3	8	111,270,944	111,300,222	29,278 -	1
GenelD:170737	Znrf1	8	111,536,640	111,626,030	89,390 +	1
GenelD:22640	Zfp1	8	111,643,443	111,671,011	27,568 +	1
GenelD:12927	Bcar1	8	111,710,474	111,743,849	33,375 -	3
GenelD:23837	Cfdp1	8	111,768,473	111,854,310	85,837 -	1
GenelD:56773	Chst5	8	111,889,135	111,910,199	21,064 -	1
GenelD:234740	Tmem231	8	111,912,018	111,933,791	21,773 -	2
GenelD:93739	Gabarapl2	8	111,940,703	111,952,915	12,212 +	2
GenelD:85305	Kars	8	111,993,440	112,011,305	17,865 -	1
GenelD:57321	Terf2ip	8	112,011,359	112,020,528	9,169 +	1
GenelD:17132	Maf	8	115,703,253	115,706,894	3,641 -	1

GenelD:75796	Cdyl2	8	116,568,724	116,732,991	164,267 -	1
GenelD:66531	Cmc2	8	116,888,685	116,921,436	32,751 -	1
GenelD:72155	Cenpn	8	116,921,740	116,941,503	19,763 +	2
GenelD:234776	Atmin	8	116,943,393	116,960,445	17,052 +	1
GenelD:68133	Gcsh	8	116,981,828	116,993,449	11,621 -	1
GenelD:76645	Pkd1l2	8	116,995,679	117,082,449	86,770 -	1
GenelD:209239	Gan	8	117,158,135	117,205,186	47,051 +	1
GenelD:74440	Cmip	8	117,257,019	117,461,506	204,487 +	1
GenelD:68533	Mphosph6	8	117,791,645	117,801,929	10,284 -	1
GenelD:10050440	Gm10617	8	117,802,102	117,803,180	1,078 +	1
GenelD:56690	Mlycd	8	119,394,892	119,411,088	16,196 +	1
GenelD:72552	Hsdl1	8	119,561,978	119,575,200	13,222 -	1
GenelD:68270	Dnaaf1	8	119,575,235	119,598,454	23,219 +	2
GenelD:21341	Taf1c	8	119,597,974	119,605,240	7,266 -	1
GenelD:628061	Rps13-ps4	8	119,602,132	119,602,625	493 -	1
GenelD:75773	Adad2	8	119,612,747	119,616,926	4,179 +	1
GenelD:234796	Klhl36	8	119,862,305	119,876,989	14,684 +	1
GenelD:22224	Usp10	8	119,910,852	119,957,557	46,705 +	1
GenelD:102193	Zdhhc7	8	120,081,095	120,101,472	20,377 -	1
GenelD:234797	6430548M08Rik	8	120,114,152	120,165,307	51,155 +	1
GenelD:382034	Gse1	8	120,488,866	120,581,383	92,517 +	4
GenelD:18117	Emc8	8	120,653,914	120,668,112	14,198 -	1
GenelD:12857	Cox4i1	8	120,668,290	120,674,209	5,919 +	1
GenelD:234814	Mthfsd	8	121,097,557	121,108,379	10,822 -	1
GenelD:14234	Foxc2	8	121,116,171	121,118,895	2,724 +	2
GenelD:14241	Foxl1	8	121,127,685	121,130,644	2,959 +	2
GenelD:142682	Zcchc14	8	121,598,703	121,651,933	53,230 -	2
GenelD:234825	Klhdc4	8	121,796,308	121,829,569	33,261 -	1
GenelD:20539	Slc7a5	8	121,881,146	121,907,686	26,540 -	1
GenelD:407789	BC048644	8	121,907,833	121,918,428	10,595 +	2
GenelD:12352	Car5a	8	121,916,135	121,944,912	28,777 -	3
GenelD:53325	Banp	8	121,950,533	122,029,258	78,725 +	1
GenelD:195209	Gm22	8	122,260,067	122,272,650	12,583 +	1
GenelD:22761	Zfpm1	8	122,282,141	122,337,247	55,106 +	3
GenelD:76014	Zc3h18	8	122,376,616	122,417,360	40,744 +	1
GenelD:68718	Rnf166	8	122,466,147	122,476,064	9,917 -	1
GenelD:66965	Ctu2	8	122,476,143	122,483,092	6,949 +	1
GenelD:234839	Piezo1	8	122,481,698	122,551,329	69,631 -	2
GenelD:67177	Cdt1	8	122,568,015	122,573,130	5,115 +	2
GenelD:11821	Aprt	8	122,574,637	122,576,907	2,270 -	2
GenelD:50917	Galns	8	122,578,237	122,611,487	33,250 -	2
GenelD:12398	Cbfa2t3	8	122,625,136	122,699,109	73,973 -	1
GenelD:77087	Ankrd11	8	122,883,822	123,042,284	158,462 -	1
GenelD:10050317	2810013P06Rik	8	123,042,575	123,044,602	2,027 +	1
GenelD:234847	Spg7	8	123,065,508	123,097,751	32,243 +	2
GenelD:270106	Rpl13	8	123,102,350	123,105,244	2,894 +	1
GenelD:10030256	Snord68	8	123,103,058	123,103,105	47 +	1

GenelD:234852	Chmp1a	8	123,204,261	123,212,788	8,527 -	1
GenelD:10050321	Rps12-ps9	8	123,206,531	123,207,036	505 +	1
GenelD:320869	4732415M23Rik	8	123,212,858	123,222,045	9,187 +	2
GenelD:234854	Cdk10	8	123,224,841	123,232,256	7,415 +	2
GenelD:78779	Spata2l	8	123,232,258	123,236,209	3,951 -	2
GenelD:71186	4933417D19Rik	8	123,235,091	123,242,359	7,268 +	2
GenelD:72325	Vps9d1	8	123,242,356	123,254,175	11,819 -	2
GenelD:57247	Zfp276	8	123,254,195	123,270,551	16,356 +	1
GenelD:234857	Spire2	8	123,332,713	123,369,518	36,805 +	2
GenelD:66855	Tcf25	8	123,373,753	123,404,173	30,420 +	1
GenelD:114896	Afg3l1	8	123,477,862	123,503,916	26,054 +	1
GenelD:69581	Rhou	8	123,653,929	123,663,880	9,951 +	1
GenelD:73420	Ccsap	8	123,840,844	123,860,209	19,365 -	1
GenelD:234865	Nup133	8	123,897,123	123,949,265	52,142 -	1
GenelD:56199	Abcb10	8	123,952,459	123,983,122	30,663 -	2
GenelD:108148	Galnt2	8	124,231,394	124,345,722	114,328 +	1
GenelD:209966	Pgbd5	8	124,369,049	124,433,936	64,887 -	1
GenelD:76332	Cog2	8	124,520,767	124,552,008	31,241 +	1
GenelD:69551	2310022B05Rik	8	124,635,756	124,663,369	27,613 -	1
GenelD:234875	Ttc13	8	124,671,327	124,721,975	50,648 -	1
GenelD:330863	Trim67	8	124,793,019	124,834,704	41,685 +	1
GenelD:66523	2810004N23Rik	8	124,839,355	124,863,029	23,674 -	1
GenelD:14712	Gnpat	8	124,863,033	124,890,057	27,024 +	2
GenelD:102058	Exoc8	8	124,890,299	124,897,705	7,406 -	1
GenelD:244666	Sprtn	8	124,897,886	124,903,813	5,927 +	1
GenelD:112405	Egln1	8	124,908,587	124,949,254	40,667 -	2
GenelD:53424	Tsnax	8	125,012,997	125,034,192	21,195 +	1
GenelD:10105607	LOC101056077	8	125,516,931	125,569,703	52,772 -	2
GenelD:74393	Map10	8	125,669,818	125,673,365	3,547 +	1
GenelD:234878	BC021891	8	125,910,450	125,947,439	36,989 +	1
GenelD:210027	Slc35f3	8	126,298,579	126,395,978	97,399 +	1
GenelD:67892	Coa6	8	126,422,501	126,425,435	2,934 +	1
GenelD:212728	Gm17296	8	126,426,652	126,475,065	48,413 -	2
GenelD:270110	Irf2bp2	8	126,588,296	126,593,436	5,140 -	4
GenelD:93742	Pard3	8	127,064,056	127,612,286	548,230 +	1
GenelD:18186	Nrp1	8	128,359,073	128,505,476	146,403 +	1
GenelD:10031668	Mir1903	8	128,359,241	128,359,320	79 +	1
GenelD:234889	Gucy1a2	9	3,532,349	3,905,791	373,442 +	1
GenelD:110350	Dync2h1	9	6,928,503	7,177,046	248,543 -	1
GenelD:76863	Dcun1d5	9	7,184,566	7,207,031	22,465 +	1
GenelD:71929	Tmem123	9	7,764,077	7,794,333	30,256 +	1
GenelD:22601	Yap1	9	7,931,999	8,004,596	72,597 -	1
GenelD:18667	Pgr	9	8,899,833	8,968,611	68,778 +	1
GenelD:71544	Arhgap42	9	8,994,953	9,239,013	244,060 -	1
GenelD:10057915	Gm16833	9	9,236,288	9,260,885	24,597 +	1
GenelD:74360	Cep57	9	13,807,788	13,827,107	19,319 -	1
GenelD:72826	Fam76b	9	13,827,727	13,846,522	18,795 +	1

GenelD:75747	Sesn3	9	14,276,301	14,326,134	49,833 +	1
GenelD:71946	Endod1	9	14,353,990	14,381,242	27,252 -	1
GenelD:244694	Kdm4d	9	14,462,581	14,500,482	37,901 -	1
GenelD:66070	Cwc15	9	14,500,619	14,510,620	10,001 +	1
GenelD:14608	Gpr83	9	14,860,254	14,869,499	9,245 +	1
GenelD:55991	Panx1	9	15,005,785	15,045,478	39,693 -	1
GenelD:244698	Heph11	9	15,051,841	15,112,108	60,267 -	1
GenelD:70984	4931406C07Rik	9	15,283,337	15,306,448	23,111 -	1
GenelD:75316	Taf1d	9	15,306,214	15,316,997	10,783 +	1
GenelD:319675	5830418K08Rik	9	15,316,914	15,357,788	40,874 -	1
GenelD:234967	Slc36a4	9	15,709,769	15,738,789	29,020 +	1
GenelD:235028	Zfp426	9	20,468,549	20,492,746	24,197 -	1
GenelD:77519	Zfp266	9	20,495,068	20,521,419	26,351 -	2
GenelD:30843	Fbxl12	9	20,637,786	20,644,767	6,981 -	2
GenelD:66177	Ubl5	9	20,643,318	20,646,789	3,471 +	2
GenelD:23988	Pin1	9	20,652,130	20,666,584	14,454 +	2
GenelD:319278	A230050P20Rik	9	20,868,642	20,874,307	5,665 +	1
GenelD:70726	Angptl6	9	20,873,809	20,879,710	5,901 -	2
GenelD:235036	Ppan	9	20,888,175	20,892,179	4,004 +	3
GenelD:53356	Eif3g	9	20,894,349	20,898,590	4,241 -	3
GenelD:13433	Dnmt1	9	20,907,206	20,959,888	52,682 -	1
GenelD:14739	S1pr2	9	20,965,952	20,976,793	10,841 -	1
GenelD:66163	Mrpl4	9	21,002,737	21,008,839	6,102 +	1
GenelD:15894	Icam1	9	21,015,960	21,028,797	12,837 +	2
GenelD:78369	Icam4	9	21,029,373	21,030,531	1,158 +	2
GenelD:15898	Icam5	9	21,032,038	21,039,036	6,998 +	2
GenelD:10031668	Mir1900	9	21,032,251	21,032,328	77 -	2
GenelD:10105575	LOC101055759	9	21,034,290	21,037,782	3,492 -	2
GenelD:10000960	Zglp1	9	21,062,393	21,067,093	4,700 -	1
GenelD:10056845	Raver1-fdx1l	9	21,067,514	21,092,008	24,494 -	2
GenelD:68165	Fdx1l	9	21,067,520	21,073,514	5,994 -	1
GenelD:71766	Raver1	9	21,074,158	21,091,988	17,830 -	2
GenelD:18577	Pde4a	9	21,165,714	21,213,248	47,534 +	1
GenelD:10050356	Gm16754	9	21,225,371	21,232,640	7,269 +	2
GenelD:50868	Keap1	9	21,229,730	21,239,332	9,602 -	3
GenelD:94226	S1pr5	9	21,242,917	21,248,443	5,526 -	3
GenelD:16201	Ilf3	9	21,368,003	21,405,361	37,358 +	1
GenelD:330902	Gm16853	9	21,405,242	21,411,720	6,478 -	1
GenelD:60507	Qtrt1	9	21,411,837	21,420,279	8,442 +	2
GenelD:13430	Dnm2	9	21,424,908	21,507,759	82,851 +	1
GenelD:10031671	Mir1946b	9	21,613,444	21,613,576	132 -	1
GenelD:20586	Smarca4	9	21,616,169	21,704,230	88,061 +	1
GenelD:16835	Ldlr	9	21,723,576	21,749,919	26,343 +	1
GenelD:235041	Kank2	9	21,766,773	21,798,546	31,773 -	2
GenelD:319899	Dock6	9	21,800,180	21,852,635	52,455 -	3
GenelD:66962	Swsap1	9	21,955,753	21,958,270	2,517 +	1
GenelD:13857	Epor	9	21,958,899	21,963,576	4,677 -	1

GenelD:319601	Zfp653	9	22,055,460	22,071,345	15,885 -	1
GenelD:10050365	Gm16845	9	22,071,002	22,086,131	15,129 +	1
GenelD:26940	Ecsit	9	22,072,246	22,085,427	13,181 -	1
GenelD:12797	Cnn1	9	22,099,253	22,109,221	9,968 +	1
GenelD:66126	Elof1	9	22,112,989	22,114,169	1,180 -	1
GenelD:11433	Acp5	9	22,126,727	22,135,746	9,019 -	1
GenelD:68743	Anln	9	22,331,214	22,389,206	57,992 -	1
GenelD:55934	Rp9	9	22,448,311	22,468,356	20,045 -	1
GenelD:319845	Bbs9	9	22,475,715	22,888,280	412,565 +	1
GenelD:80517	Herpud2	9	25,108,130	25,151,781	43,651 -	1
GenelD:235072	Sept7	9	25,252,439	25,308,571	56,132 +	1
GenelD:69091	Vps26b	9	27,004,502	27,030,094	25,592 -	1
GenelD:78658	Ncapd3	9	27,030,175	27,095,315	65,140 +	1
GenelD:102607	Snx19	9	30,427,329	30,466,726	39,397 +	1
GenelD:10105579	LOC101055798	9	30,954,087	31,031,205	77,118 -	1
GenelD:235132	Zbtb44	9	31,030,644	31,075,885	45,241 +	1
GenelD:19143	St14	9	31,088,590	31,131,799	43,209 -	1
GenelD:11804	Aplp2	9	31,149,557	31,211,815	62,258 -	1
GenelD:23871	Ets1	9	32,696,042	32,757,820	61,778 +	1
GenelD:20443	St3gal4	9	35,046,579	35,116,810	70,231 -	1
GenelD:78934	4930581F22Rik	9	35,116,728	35,130,922	14,194 +	1
GenelD:69305	Dcps	9	35,124,414	35,175,987	51,573 -	1
GenelD:235169	Foxred1	9	35,204,208	35,210,925	6,717 -	1
GenelD:67398	Srpr	9	35,211,203	35,217,003	5,800 +	1
GenelD:109229	Fam118b	9	35,216,965	35,267,780	50,815 -	1
GenelD:67049	Pus3	9	35,559,466	35,567,400	7,934 +	1
GenelD:76832	Hyls1	9	35,560,821	35,570,069	9,248 -	1
GenelD:627480	Gm6762	9	35,573,637	35,574,665	1,028 -	1
GenelD:12649	Chek1	9	36,708,482	36,726,658	18,176 -	1
GenelD:16430	Stt3a	9	36,732,413	36,767,578	35,165 -	1
GenelD:13663	Ei24	9	36,779,153	36,797,393	18,240 -	1
GenelD:208076	Pknox2	9	36,890,982	37,147,314	256,332 -	2
GenelD:72927	Hepacam	9	37,367,606	37,386,572	18,966 +	1
GenelD:235184	Msantd2	9	37,489,321	37,524,165	34,844 +	1
GenelD:258608	Olfr986	9	40,187,079	40,188,094	1,015 +	1
GenelD:80902	Zfp202	9	40,192,316	40,213,604	21,288 +	1
GenelD:235283	Gramd1b	9	40,297,907	40,455,764	157,857 -	1
GenelD:71566	Clmp	9	40,685,964	40,784,046	98,082 +	1
GenelD:15481	Hspa8	9	40,801,273	40,805,199	3,926 +	1
GenelD:108637	Snord14c	9	40,803,583	40,803,669	86 +	1
GenelD:10030259	Snord14d	9	40,803,995	40,804,081	86 +	1
GenelD:10030259	Snord14e	9	40,804,748	40,804,838	90 +	1
GenelD:72828	Ubash3b	9	41,013,641	41,157,494	143,853 -	1
GenelD:69632	Arhgef12	9	42,963,842	43,105,718	141,876 -	1
GenelD:10105588	LOC101055886	9	43,097,185	43,100,345	3,160 -	1
GenelD:235300	Tmem136	9	43,108,653	43,116,570	7,917 -	1
GenelD:102644	Oaf	9	43,221,278	43,239,816	18,538 -	1

GenelD:58235	Pvrl1	9	43,744,576	43,807,461	62,885 +	1
GenelD:21838	Thy1	9	44,043,384	44,048,579	5,195 +	1
GenelD:235312	C1qtnf5	9	44,101,770	44,109,187	7,417 +	1
GenelD:259172	Mfrp	9	44,101,770	44,109,187	7,417 +	1
GenelD:213211	Rnf26	9	44,110,781	44,113,051	2,270 -	1
GenelD:10003856	Gm10687	9	44,123,768	44,134,485	10,717 -	2
GenelD:84004	Mcam	9	44,134,658	44,142,726	8,068 +	2
GenelD:12402	Cbl	9	44,149,262	44,234,046	84,784 -	1
GenelD:270150	Ccdc153	9	44,240,677	44,247,306	6,629 +	1
GenelD:192663	Abcg4	9	44,273,190	44,288,244	15,054 -	1
GenelD:102423	Hinfp	9	44,295,673	44,305,671	9,998 -	1
GenelD:71764	C2cd2l	9	44,309,237	44,320,282	11,045 -	2
GenelD:13478	Dpagt1	9	44,326,845	44,333,600	6,755 +	3
GenelD:15270	H2afx	9	44,334,715	44,336,077	1,362 +	2
GenelD:15288	Hmbs	9	44,336,348	44,344,228	7,880 -	2
GenelD:12282	Hyou1	9	44,379,490	44,392,369	12,879 +	1
GenelD:14385	Slc37a4	9	44,398,176	44,402,966	4,790 +	1
GenelD:60409	Trappc4	9	44,403,759	44,407,548	3,789 -	1
GenelD:75617	Rps25	9	44,407,714	44,410,406	2,692 +	1
GenelD:382073	Ccdc84	9	44,410,163	44,418,007	7,844 -	1
GenelD:10050419	Gm10023	9	44,477,931	44,479,759	1,828 -	3
GenelD:13209	Ddx6	9	44,604,892	44,640,731	35,839 +	1
GenelD:102693	Phldb1	9	44,686,308	44,735,198	48,890 -	1
GenelD:213827	Arcn1	9	44,742,143	44,767,808	25,665 -	2
GenelD:76568	Ift46	9	44,773,009	44,792,714	19,705 +	2
GenelD:71687	Tmem25	9	44,793,779	44,799,216	5,437 -	1
GenelD:192653	Ttc36	9	44,799,400	44,802,951	3,551 -	1
GenelD:214162	Mll1	9	44,803,355	44,881,274	77,919 -	2
GenelD:74602	4833428L15Rik	9	45,416,626	45,431,232	14,606 -	1
GenelD:114873	Dscaml1	9	45,430,293	45,753,713	323,420 +	1
GenelD:235315	Rnf214	9	45,863,691	45,906,877	43,186 -	1
GenelD:18554	Pcsk7	9	45,906,569	45,929,723	23,154 +	1
GenelD:214597	Sidt2	9	45,937,875	45,955,249	17,374 -	1
GenelD:18475	Pafah1b2	9	45,965,311	45,984,871	19,560 -	2
GenelD:70661	Sik3	9	46,012,820	46,224,194	211,374 +	2
GenelD:66113	Apoa5	9	46,268,608	46,271,919	3,311 +	1
GenelD:22687	Zfp259	9	46,273,064	46,282,643	9,579 +	1
GenelD:215051	Bud13	9	46,283,012	46,298,783	15,771 +	1
GenelD:54725	Cadm1	9	47,530,352	47,853,385	323,033 +	1
GenelD:235323	Usp28	9	48,985,385	49,042,517	57,132 +	1
GenelD:235330	Ttc12	9	49,436,961	49,486,225	49,264 -	1
GenelD:17967	Ncam1	9	49,502,138	49,799,069	296,931 -	1
GenelD:19286	Pts	9	50,521,617	50,528,641	7,024 -	1
GenelD:170752	Bco2	9	50,533,087	50,555,138	22,051 -	1
GenelD:270156	AU019823	9	50,605,240	50,617,464	12,224 -	1
GenelD:72614	Pih1d2	9	50,617,321	50,625,000	7,679 +	1
GenelD:235339	Dlat	9	50,634,633	50,659,780	25,147 -	1

GenelD:330938	Dixdc1	9	50,662,752	50,727,984	65,232 -	1
GenelD:68721	1110032A03Rik	9	50,762,828	50,768,152	5,324 -	1
GenelD:382137	Fdxacb1	9	50,768,238	50,772,670	4,432 +	1
GenelD:102580	Alg9	9	50,775,225	50,843,639	68,414 +	1
GenelD:73699	Ppp2r1b	9	50,856,935	50,894,229	37,294 +	1
GenelD:235344	Sik2	9	50,892,801	51,009,073	116,272 -	1
GenelD:10050294	Gm684	9	51,270,258	51,278,554	8,296 -	1
GenelD:244867	Arhgap20	9	51,765,352	51,853,059	87,707 +	1
GenelD:14148	Fdx1	9	51,943,307	51,963,533	20,226 -	1
GenelD:19684	Rdx	9	52,047,150	52,088,738	41,588 +	1
GenelD:244871	Zc3h12c	9	52,111,985	52,168,111	56,126 -	1
GenelD:320051	Exph5	9	53,301,670	53,381,158	79,488 +	1
GenelD:68304	Kdelc2	9	53,384,023	53,401,867	17,844 +	1
GenelD:11920	Atm	9	53,437,122	53,536,671	99,549 -	1
GenelD:244879	Npat	9	53,537,047	53,575,627	38,580 +	1
GenelD:110446	Acat1	9	53,580,522	53,610,350	29,828 -	1
GenelD:75717	Cul5	9	53,614,582	53,667,507	52,925 -	2
GenelD:244882	Tnfaip8l3	9	54,025,606	54,068,411	42,805 -	1
GenelD:235380	Dmxi2	9	54,365,158	54,501,626	136,468 -	1
GenelD:58233	Dnaja4	9	54,699,559	54,716,317	16,758 +	1
GenelD:64602	Ireb2	9	54,863,755	54,912,534	48,779 +	1
GenelD:235386	Agphd1	9	54,917,290	54,949,924	32,634 +	1
GenelD:246735	AY074887	9	54,950,244	54,950,954	710 -	1
GenelD:26441	Psma4	9	54,950,859	54,958,030	7,171 +	1
GenelD:110834	Chrna3	9	55,011,343	55,026,559	15,216 -	1
GenelD:108015	Chrn4	9	55,028,156	55,048,544	20,388 -	1
GenelD:109161	Ube2q2	9	55,149,369	55,207,529	58,160 +	1
GenelD:71999	Fbxo22	9	55,208,935	55,224,433	15,498 +	1
GenelD:110842	Etfa	9	55,454,436	55,512,243	57,807 -	1
GenelD:104360	Isl2	9	55,541,149	55,546,178	5,029 +	1
GenelD:244891	Scaper	9	55,549,883	55,938,115	388,232 -	2
GenelD:26611	Rcn2	9	56,041,845	56,059,083	17,238 +	1
GenelD:56434	Tspan3	9	56,135,884	56,161,070	25,186 -	1
GenelD:235402	Lingo1	9	56,618,475	56,685,253	66,778 -	2
GenelD:121021	Cspg4	9	56,865,104	56,899,870	34,766 +	1
GenelD:235406	Snx33	9	56,917,200	56,928,371	11,171 -	2
GenelD:102462	Imp3	9	56,937,500	56,938,398	898 +	1
GenelD:56294	Ptpn9	9	56,994,968	57,062,808	67,840 +	2
GenelD:10003856	Gm10658	9	57,056,897	57,071,966	15,069 -	2
GenelD:20466	Sin3a	9	57,072,040	57,128,368	56,328 +	3
GenelD:72588	2700012I20Rik	9	57,075,203	57,077,307	2,104 -	2
GenelD:76794	2410133F24Rik	9	57,099,950	57,131,290	31,340 -	1
GenelD:73744	Man2c1	9	57,130,777	57,142,210	11,433 +	1
GenelD:541610	Trcg1	9	57,236,556	57,249,864	13,308 +	1
GenelD:74211	1700017B05Rik	9	57,252,322	57,262,599	10,277 -	2
GenelD:102614	Rpp25	9	57,504,102	57,505,447	1,345 +	1
GenelD:12858	Cox5a	9	57,521,232	57,532,427	11,195 +	2

GenelD:78323	Fam219b	9	57,537,528	57,543,187	5,659 +	1
GenelD:110119	Mpi	9	57,544,268	57,552,752	8,484 -	1
GenelD:24044	Scamp2	9	57,560,944	57,588,798	27,854 +	1
GenelD:71742	Ulk3	9	57,589,452	57,596,233	6,781 +	1
GenelD:235415	Cplx3	9	57,599,992	57,606,281	6,289 -	1
GenelD:12988	Csk	9	57,626,646	57,645,180	18,534 -	1
GenelD:102414	Clk3	9	57,750,711	57,765,860	15,149 -	1
GenelD:69459	Ubl7	9	57,910,986	57,929,968	18,982 +	1
GenelD:20361	Sema7a	9	57,940,135	57,962,865	22,730 +	1
GenelD:20897	Stra6	9	58,129,088	58,153,997	24,909 +	1
GenelD:26968	Islr	9	58,156,264	58,159,221	2,957 -	1
GenelD:320563	Islr2	9	58,196,297	58,204,319	8,022 -	1
GenelD:16949	Loxl1	9	58,287,723	58,313,212	25,489 -	1
GenelD:319477	6030419C18Rik	9	58,488,603	58,499,742	11,139 +	1
GenelD:102657	Cd276	9	58,524,300	58,555,033	30,733 -	1
GenelD:330953	Hcn4	9	58,823,512	58,860,955	37,443 +	1
GenelD:18007	Neo1	9	58,874,679	59,036,441	161,762 -	2
GenelD:23806	Arih1	9	59,388,554	59,486,374	97,820 -	1
GenelD:10050437	Gm20199	9	59,477,745	59,481,741	3,996 -	1
GenelD:15211	Hexa	9	59,539,667	59,565,105	25,438 +	1
GenelD:67287	Parp6	9	59,617,284	59,650,290	33,006 +	1
GenelD:18746	Pkm	9	59,656,368	59,679,375	23,007 +	1
GenelD:10003849	Gm10655	9	61,370,797	61,372,193	1,396 -	3
GenelD:21887	Tle3	9	61,372,366	61,418,497	46,131 +	3
GenelD:56040	Rplp1	9	61,913,283	61,914,510	1,227 -	1
GenelD:71819	Kif23	9	61,917,277	61,946,799	29,522 -	2
GenelD:74090	Paqr5	9	61,953,738	62,026,790	73,052 -	1
GenelD:10062860	Mir5133	9	62,122,518	62,122,594	76 -	1
GenelD:11737	Anp32a	9	62,341,343	62,378,802	37,459 +	2
GenelD:14155	Fem1b	9	62,791,824	62,811,648	19,824 -	1
GenelD:56469	Pias1	9	62,880,077	62,980,879	100,802 -	1
GenelD:207667	Skor1	9	63,138,164	63,148,961	10,797 -	1
GenelD:78250	lqch	9	63,421,620	63,602,448	180,828 -	1
GenelD:66939	Aagab	9	63,602,655	63,641,889	39,234 +	1
GenelD:17127	Smad3	9	63,646,767	63,757,994	111,227 -	1
GenelD:17130	Smad6	9	63,953,076	64,022,059	68,983 -	2
GenelD:68014	Zwilch	9	64,137,144	64,172,931	35,787 -	1
GenelD:67891	Rpl4	9	64,173,387	64,178,562	5,175 +	1
GenelD:10021745	Snord16a	9	64,175,432	64,175,522	90 +	1
GenelD:330959	Snpc5	9	64,179,297	64,182,688	3,391 +	1
GenelD:26395	Map2k1	9	64,185,793	64,253,605	67,812 -	1
GenelD:66131	Tipin	9	64,281,607	64,304,792	23,185 +	1
GenelD:213550	Dis3l	9	64,306,756	64,341,257	34,501 -	1
GenelD:53869	Rab11a	9	64,715,300	64,737,756	22,456 -	1
GenelD:102442	Dennd4a	9	64,811,011	64,919,667	108,656 +	1
GenelD:57874	Ptplad1	9	64,986,983	65,021,717	34,734 -	1
GenelD:56741	Igdcc4	9	65,101,495	65,137,943	36,448 +	2

GenelD:19289	Igdcc3	9	65,141,189	65,185,872	44,683 +	1
GenelD:214424	Parp16	9	65,214,690	65,239,219	24,529 +	1
GenelD:270166	Clpx	9	65,294,295	65,330,658	36,363 +	1
GenelD:50996	Pdcd7	9	65,346,068	65,359,643	13,575 +	1
GenelD:74492	Kbtbd13	9	65,388,684	65,391,652	2,968 -	1
GenelD:70784	Rasl12	9	65,398,488	65,414,853	16,365 +	1
GenelD:69606	Mtfmt	9	65,435,782	65,453,054	17,272 +	1
GenelD:102595	Plekho2	9	65,554,384	65,580,034	25,650 -	2
GenelD:208084	Pif1	9	65,587,205	65,595,962	8,757 +	2
GenelD:71973	Rbpms2	9	65,630,582	65,660,518	29,936 +	2
GenelD:56404	Trip4	9	65,828,926	65,908,794	79,868 -	1
GenelD:68026	2810417H13Rik	9	65,890,323	65,903,551	13,228 +	1
GenelD:214897	Csnk1g1	9	65,909,010	66,045,014	136,004 +	1
GenelD:19035	Ppib	9	66,060,169	66,066,629	6,460 +	1
GenelD:382083	Snx22	9	66,065,176	66,069,731	4,555 -	1
GenelD:235439	Herc1	9	66,350,450	66,508,775	158,325 +	1
GenelD:235441	Usp3	9	66,517,881	66,592,980	75,099 -	2
GenelD:67941	Rps27l	9	66,946,118	66,949,509	3,391 +	1
GenelD:80907	Lactb	9	66,955,393	66,975,484	20,091 -	2
GenelD:22003	Tpm1	9	67,022,593	67,049,213	26,620 -	3
GenelD:244911	C2cd4a	9	67,830,532	67,832,330	1,798 -	1
GenelD:320528	Vps13c	9	67,840,396	67,995,634	155,238 +	1
GenelD:19883	Rora	9	68,653,802	69,379,031	725,229 +	2
GenelD:10050266	LOC100502669	9	68,655,303	68,664,964	9,661 +	1
GenelD:244913	Gm4978	9	69,450,190	69,451,054	864 -	1
GenelD:12306	Anxa2	9	69,453,683	69,491,785	38,102 +	1
GenelD:10052656	Mir3109	9	69,456,944	69,457,031	87 +	1
GenelD:64290	Foxb1	9	69,757,710	69,760,940	3,230 -	1
GenelD:319970	B230323A14Rik	9	69,761,146	69,830,199	69,053 +	1
GenelD:12175	Bnip2	9	69,989,501	70,008,317	18,816 +	2
GenelD:235459	Gtf2a2	9	70,012,550	70,022,847	10,297 +	1
GenelD:12442	Ccnb2	9	70,407,689	70,421,554	13,865 -	1
GenelD:93836	Rnf111	9	70,425,429	70,503,725	78,296 -	1
GenelD:66660	Sltm	9	70,542,778	70,592,232	49,454 +	1
GenelD:235461	Fam63b	9	70,599,014	70,657,174	58,160 -	1
GenelD:11487	Adam10	9	70,679,001	70,780,229	101,228 +	1
GenelD:19378	Aldh1a2	9	71,215,789	71,296,243	80,454 +	1
GenelD:28015	Polr2m	9	71,478,437	71,485,983	7,546 -	1
GenelD:68178	Cgnl1	9	71,626,509	71,771,602	145,093 -	1
GenelD:21406	Tcf12	9	71,844,252	72,111,819	267,567 -	1
GenelD:75115	4930509E16Rik	9	72,518,250	72,531,858	13,608 -	1
GenelD:319758	Rfx7	9	72,532,240	72,622,949	90,709 +	1
GenelD:17999	Nedd4	9	72,662,347	72,749,848	87,501 +	1
GenelD:235472	Prtg	9	72,807,274	72,917,307	110,033 +	2
GenelD:72135	Pygo1	9	72,925,650	72,946,015	20,365 +	1
GenelD:66991	Khdc3	9	73,102,398	73,104,443	2,045 +	1
GenelD:225215	Rsl24d1	9	73,113,469	73,123,333	9,864 +	1

GenelD:10050301	Gm16551	9	74,848,437	74,852,872	4,435 +	1
GenelD:15379	Onecut1	9	74,861,921	74,889,648	27,727 +	1
GenelD:10004081	Gm2981	9	75,061,354	75,062,049	695 -	1
GenelD:17918	Myo5a	9	75,071,206	75,223,688	152,482 +	1
GenelD:208943	Myo5c	9	75,232,014	75,305,451	73,437 +	1
GenelD:14697	Gnb5	9	75,311,395	75,345,671	34,276 +	1
GenelD:50772	Mapk6	9	75,386,901	75,410,014	23,113 -	2
GenelD:71274	4933433G15Rik	9	75,410,184	75,415,537	5,353 +	2
GenelD:50875	Tmod3	9	75,497,784	75,559,657	61,873 -	1
GenelD:50876	Tmod2	9	75,565,621	75,611,325	45,704 -	2
GenelD:70082	Lysmd2	9	75,625,732	75,637,773	12,041 +	1
GenelD:214345	Lrrc1	9	77,430,823	77,544,852	114,029 -	1
GenelD:10050313	Gm19569	9	77,545,224	77,546,466	1,242 +	1
GenelD:14629	Gclc	9	77,754,535	77,794,489	39,954 +	1
GenelD:68801	Elovl5	9	77,917,365	77,984,519	67,154 +	1
GenelD:71538	Fbxo9	9	78,081,499	78,109,053	27,554 -	2
GenelD:56542	Ick	9	78,109,192	78,172,110	62,918 +	2
GenelD:214763	Mb21d1	9	78,430,518	78,443,147	12,629 -	1
GenelD:68291	Mto1	9	78,448,210	78,474,152	25,942 +	2
GenelD:13627	Eef1a1	9	78,478,453	78,481,724	3,271 -	1
GenelD:235504	Slc17a5	9	78,536,509	78,588,027	51,518 -	1
GenelD:215351	Senp6	9	80,066,903	80,144,780	77,877 +	1
GenelD:15551	Htr1b	9	81,631,392	81,632,552	1,160 -	1
GenelD:319405	D430036J16Rik	9	81,631,930	81,645,156	13,226 +	1
GenelD:65099	Irak1bp1	9	82,829,806	82,847,688	17,882 +	1
GenelD:83946	Phip	9	82,866,159	82,975,489	109,330 -	1
GenelD:94353	Hmgn3	9	83,109,942	83,146,607	36,665 -	1
GenelD:212531	Sh3bgrl2	9	83,548,338	83,600,292	51,954 +	1
GenelD:83603	Elovl4	9	83,778,692	83,806,305	27,613 -	1
GenelD:22137	Ttk	9	83,834,689	83,872,390	37,701 +	1
GenelD:108837	Ibtk	9	85,687,360	85,749,334	61,974 -	1
GenelD:442799	9330154J02Rik	9	85,821,526	85,843,659	22,133 -	1
GenelD:21983	Tpbg	9	85,842,380	85,847,055	4,675 +	1
GenelD:70348	Ube2cbp	9	86,307,234	86,464,916	157,682 -	2
GenelD:320615	Dopey1	9	86,467,154	86,555,806	88,652 +	2
GenelD:109785	Pgm3	9	86,552,476	86,571,842	19,366 -	1
GenelD:69519	Rwdd2a	9	86,571,988	86,574,899	2,911 +	1
GenelD:17436	Me1	9	86,581,363	86,695,914	114,551 -	2
GenelD:319556	A330041J22Rik	9	86,695,442	86,701,253	5,811 +	1
GenelD:20616	Snap91	9	86,765,936	86,880,372	114,436 -	1
GenelD:382090	4922501C03Rik	9	87,191,963	87,255,532	63,569 -	1
GenelD:23959	Nt5e	9	88,327,609	88,372,089	44,480 +	1
GenelD:244962	Snx14	9	88,376,747	88,438,951	62,204 -	1
GenelD:56403	Syncrip	9	88,449,738	88,482,397	32,659 -	1
GenelD:108153	Adamts7	9	90,162,978	90,200,102	37,124 +	1
GenelD:235527	Plscr4	9	92,457,378	92,492,516	35,138 +	1
GenelD:78575	B430319G15Rik	9	92,538,801	92,542,869	4,068 -	1

GenelD:26432	Plod2	9	92,542,223	92,608,428	66,205 +	1
GenelD:68861	1190002N15Rik	9	94,517,864	94,538,081	20,217 -	2
GenelD:54371	Chst2	9	95,400,926	95,407,270	6,344 -	2
GenelD:67958	U2surp	9	95,456,894	95,511,996	55,102 -	1
GenelD:73410	1700065D16Rik	9	95,855,550	95,858,320	2,770 -	1
GenelD:245000	Atr	9	95,857,597	95,951,644	94,047 +	1
GenelD:19823	Rnf7	9	96,470,957	96,478,595	7,638 -	1
GenelD:114713	Rasa2	9	96,539,300	96,631,503	92,203 -	1
GenelD:235534	Acpl2	9	96,823,343	96,889,422	66,079 -	1
GenelD:211949	Spsb4	9	96,943,482	97,018,355	74,873 -	1
GenelD:10050267	Gm16010	9	97,015,966	97,022,043	6,077 +	1
GenelD:192287	Slc25a36	9	97,077,011	97,111,041	34,030 -	1
GenelD:74080	Nmnat3	9	98,296,583	98,411,428	114,845 +	1
GenelD:64655	Mrps22	9	98,588,730	98,601,679	12,949 -	1
GenelD:768252	Foxl2os	9	98,949,155	98,955,310	6,155 -	1
GenelD:26927	Foxl2	9	98,955,607	98,958,126	2,519 +	1
GenelD:623459	Gm6432	9	99,229,376	99,237,239	7,863 -	1
GenelD:68121	Cep70	9	99,243,468	99,300,404	56,936 +	1
GenelD:272636	Esyt3	9	99,309,967	99,358,530	48,563 -	1
GenelD:17532	Mras	9	99,385,420	99,436,712	51,292 -	1
GenelD:74125	Armc8	9	99,478,391	99,568,899	90,508 -	1
GenelD:83703	Dbr1	9	99,575,799	99,584,343	8,544 +	1
GenelD:333424	A4gnt	9	99,612,502	99,622,367	9,865 +	1
GenelD:72507	Dzip1l	9	99,629,595	99,669,256	39,661 +	1
GenelD:20669	Sox14	9	99,874,106	99,876,170	2,064 -	1
GenelD:245020	Slc35g2	9	100,552,188	100,571,085	18,897 -	1
GenelD:20842	Stag1	9	100,643,623	100,958,544	314,921 +	1
GenelD:66904	Pccb	9	100,982,038	101,034,875	52,837 -	1
GenelD:77853	Msl2	9	101,074,727	101,075,419	692 +	2
GenelD:235542	Ppp2r3a	9	101,104,989	101,251,832	146,843 -	1
GenelD:56332	Amotl2	9	102,717,804	102,733,417	15,613 +	2
GenelD:20187	Ryk	9	102,834,920	102,908,307	73,387 +	1
GenelD:235559	Topbp1	9	103,305,327	103,350,428	45,101 +	1
GenelD:321022	Cdv3	9	103,353,102	103,365,780	12,678 -	1
GenelD:66663	Uba5	9	104,046,588	104,063,121	16,533 -	1
GenelD:102632	Acad11	9	104,063,703	104,127,646	63,943 +	1
GenelD:235567	Dnajc13	9	104,151,597	104,262,930	111,333 -	1
GenelD:75686	Nudt16	9	105,129,338	105,131,805	2,467 -	1
GenelD:235574	Atp2c1	9	105,411,362	105,521,257	109,895 -	1
GenelD:77305	Wdr82	9	106,170,929	106,191,706	20,777 +	1
GenelD:387249	Mirlet7g	9	106,178,840	106,178,927	87 +	1
GenelD:70235	Poc1a	9	106,281,061	106,349,891	68,830 +	1
GenelD:235584	Dusp7	9	106,368,632	106,375,724	7,092 +	1
GenelD:19944	Rpl29	9	106,429,539	106,431,567	2,028 +	1
GenelD:109652	Acy1	9	106,432,996	106,438,236	5,240 -	1
GenelD:68644	Abhd14a	9	106,440,051	106,447,678	7,627 -	1
GenelD:59092	Pcbp4	9	106,453,838	106,464,012	10,174 +	2

GenelD:436090	Gpr62	9	106,463,960	106,465,940	1,980 -	2
GenelD:235587	Parp3	9	106,470,353	106,476,651	6,298 -	3
GenelD:27966	Rrp9	9	106,477,309	106,485,415	8,106 +	1
GenelD:21767	Tex264	9	106,658,746	106,685,948	27,202 -	1
GenelD:81000	Rad54l2	9	106,688,080	106,789,213	101,133 -	2
GenelD:321006	Vprbp	9	106,821,976	106,880,992	59,016 +	1
GenelD:109095	Rbm15b	9	106,883,985	106,887,000	3,015 -	2
GenelD:74840	Manf	9	106,887,415	106,891,938	4,523 -	2
GenelD:208869	Dock3	9	106,892,825	107,231,909	339,084 -	2
GenelD:56808	Cacna2d2	9	107,399,880	107,529,343	129,463 +	1
GenelD:56395	Tmem115	9	107,533,945	107,538,656	4,711 +	1
GenelD:56368	Cyb561d2	9	107,539,011	107,541,865	2,854 -	2
GenelD:56032	Nprl2	9	107,542,209	107,545,706	3,497 +	2
GenelD:114602	Zmynd10	9	107,547,310	107,551,319	4,009 +	1
GenelD:56289	Rassf1	9	107,551,555	107,562,267	10,712 +	2
GenelD:10003875	Gm9917	9	107,562,198	107,568,415	6,217 -	2
GenelD:80385	Tusc2	9	107,563,255	107,566,108	2,853 +	1
GenelD:15587	Hyal2	9	107,569,163	107,572,778	3,615 +	1
GenelD:15586	Hyal1	9	107,576,952	107,580,137	3,185 +	1
GenelD:14678	Gnai2	9	107,614,138	107,635,342	21,204 -	2
GenelD:10050348	Gm19721	9	107,630,776	107,632,539	1,763 -	2
GenelD:20350	Sema3f	9	107,681,502	107,710,475	28,973 -	1
GenelD:83486	Rbm5	9	107,740,495	107,771,002	30,507 -	1
GenelD:19654	Rbm6	9	107,773,559	107,872,819	99,260 -	2
GenelD:72825	Mon1a	9	107,888,129	107,903,139	15,010 +	1
GenelD:19882	Mst1r	9	107,906,889	107,920,383	13,494 +	1
GenelD:74153	Uba7	9	107,975,567	107,984,056	8,489 +	1
GenelD:68176	Fam212a	9	107,984,223	107,985,916	1,693 -	1
GenelD:69398	Cdhr4	9	107,992,503	107,999,585	7,082 +	2
GenelD:27399	Ip6k1	9	108,002,648	108,048,782	46,134 +	1
GenelD:84585	Rnf123	9	108,051,672	108,079,375	27,703 -	1
GenelD:15235	Mst1	9	108,080,436	108,085,027	4,591 +	2
GenelD:235606	Apeh	9	108,085,414	108,094,480	9,066 -	2
GenelD:12217	Bsn	9	108,096,022	108,190,383	94,361 -	2
GenelD:13138	Dag1	9	108,205,958	108,263,736	57,778 -	1
GenelD:11848	Rhoa	9	108,306,205	108,337,939	31,734 +	2
GenelD:14775	Gpx1	9	108,339,080	108,340,342	1,262 +	2
GenelD:22258	Usp4	9	108,347,831	108,392,529	44,698 +	2
GenelD:434439	BC048562	9	108,436,482	108,446,083	9,601 +	1
GenelD:78267	Klhdcc8b	9	108,447,639	108,461,581	13,942 -	2
GenelD:72454	Ccdc71	9	108,460,518	108,465,945	5,427 +	2
GenelD:16779	Lamb2	9	108,479,862	108,490,530	10,668 +	2
GenelD:71472	Usp19	9	108,490,676	108,502,337	11,661 +	2
GenelD:97541	Qars	9	108,508,005	108,515,941	7,936 +	1
GenelD:69232	Qrich1	9	108,517,087	108,560,167	43,080 +	3
GenelD:23918	Impdh2	9	108,560,501	108,565,573	5,072 +	2
GenelD:66706	Ndufaf3	9	108,565,865	108,567,342	1,477 -	2

GenelD:387186	Mir191	9	108,568,319	108,568,392	73 +	3
GenelD:723864	Mir425	9	108,568,777	108,568,861	84 +	3
GenelD:67789	Dalrd3	9	108,569,892	108,572,771	2,879 +	3
GenelD:83669	Wdr6	9	108,572,313	108,578,670	6,357 -	3
GenelD:74443	P4htm	9	108,578,826	108,597,600	18,774 -	3
GenelD:23807	Arih2	9	108,602,942	108,649,380	46,438 -	2
GenelD:57279	Slc25a20	9	108,662,098	108,684,641	22,543 +	1
GenelD:19087	Prkar2a	9	108,692,143	108,749,512	57,369 +	1
GenelD:80987	Nckipsd	9	108,808,380	108,818,366	9,986 +	1
GenelD:107934	Celsr3	9	108,826,320	108,852,969	26,649 +	2
GenelD:171429	Slc26a6	9	108,854,043	108,862,143	8,100 +	1
GenelD:22273	Uqcrc1	9	108,936,648	108,949,641	12,993 +	1
GenelD:66658	Ccdc51	9	109,082,496	109,093,363	10,867 +	1
GenelD:665413	Gm7628	9	109,093,844	109,098,474	4,630 -	1
GenelD:235611	Plxbn1	9	109,095,436	109,119,915	24,479 +	1
GenelD:12530	Cdc25a	9	109,875,579	109,893,890	18,311 +	1
GenelD:72831	Dhx30	9	110,084,319	110,117,616	33,297 -	1
GenelD:10003873	Gm10615	9	110,117,703	110,120,335	2,632 +	1
GenelD:20588	Smarcc1	9	110,132,024	110,240,178	108,154 +	2
GenelD:29873	Cspg5	9	110,243,783	110,262,576	18,793 +	1
GenelD:235623	Scap	9	110,333,293	110,384,946	51,653 +	1
GenelD:104831	Ptpn23	9	110,385,089	110,408,210	23,121 -	2
GenelD:16578	Kif9	9	110,476,958	110,525,174	48,216 +	2
GenelD:235626	Setd2	9	110,532,597	110,618,633	86,036 +	3
GenelD:67169	Nradd	9	110,621,135	110,624,393	3,258 -	1
GenelD:235627	Nbeal2	9	110,624,789	110,654,161	29,372 -	1
GenelD:19228	Pth1r	9	110,722,085	110,747,145	25,060 -	1
GenelD:74306	Prss46	9	110,844,506	110,856,522	12,016 +	1
GenelD:235631	Prss50	9	110,857,967	110,864,628	6,661 +	2
GenelD:20776	Tmie	9	110,866,046	110,880,083	14,037 -	2
GenelD:235633	Als2cl	9	110,880,174	110,900,530	20,356 +	1
GenelD:71268	Lrrfip2	9	111,118,111	111,225,668	107,557 +	1
GenelD:320429	Trank1	9	111,311,739	111,395,775	84,036 +	1
GenelD:18571	Pdcd6ip	9	113,651,744	113,708,259	56,515 -	1
GenelD:76499	Clasp2	9	113,741,473	113,919,697	178,224 +	1
GenelD:22221	Ubp1	9	113,930,934	113,977,202	46,268 +	1
GenelD:56693	Crtap	9	114,375,131	114,390,712	15,581 -	1
GenelD:235661	Dync1li1	9	114,688,831	114,723,788	34,957 +	1
GenelD:102545	Cmtm7	9	114,756,836	114,781,993	25,157 -	1
GenelD:70031	Cmtm8	9	114,789,345	114,844,152	54,807 -	1
GenelD:333433	Gpd1l	9	114,899,339	114,933,987	34,648 -	1
GenelD:10004381	Gm9846	9	114,982,366	114,982,739	373 -	1
GenelD:68292	Stt3b	9	115,242,581	115,310,421	67,840 -	1
GenelD:21813	Tgfbr2	9	116,087,695	116,175,363	87,668 -	1
GenelD:27215	Azi2	9	118,040,499	118,063,907	23,408 +	1
GenelD:104099	Itga9	9	118,606,709	118,901,003	294,294 +	1
GenelD:69274	Ctdspl	9	118,926,536	119,044,119	117,583 +	1

GenelD:108737	Oxsr1	9	119,238,432	119,322,427	83,995 -	1
GenelD:17874	Myd88	9	119,335,988	119,340,040	4,052 -	1
GenelD:113868	Acaa1a	9	119,341,294	119,350,295	9,001 +	1
GenelD:102448	Xylb	9	119,357,381	119,393,797	36,416 +	1
GenelD:11481	Acvr2b	9	119,402,501	119,433,515	31,014 +	1
GenelD:208194	Exog	9	119,444,923	119,465,518	20,595 +	1
GenelD:67561	Wdr48	9	119,894,895	119,926,579	31,684 +	1
GenelD:215418	Csrnp1	9	119,971,166	119,984,658	13,492 -	1
GenelD:208638	Slc25a38	9	120,110,399	120,124,321	13,922 +	2
GenelD:16785	Rpsa	9	120,127,766	120,132,369	4,603 +	1
GenelD:104433	Snora62	9	120,130,434	120,130,563	129 +	1
GenelD:546166	Gm5922	9	120,133,463	120,136,329	2,866 -	1
GenelD:68969	Eif1b	9	120,492,606	120,495,327	2,721 +	1
GenelD:78060	4930593C16Rik	9	120,924,455	120,930,802	6,347 -	2
GenelD:12387	Ctnnb1	9	120,933,400	120,960,507	27,107 +	2
GenelD:215474	Sec22c	9	121,680,045	121,705,029	24,984 -	2
GenelD:26901	Deb1	9	121,710,389	121,712,921	2,532 +	2
GenelD:18087	Nktr	9	121,719,181	121,756,841	37,660 +	2
GenelD:320301	E530011L22Rik	9	121,756,640	121,759,943	3,303 -	1
GenelD:270210	Zfp651	9	121,760,033	121,771,742	11,709 +	2
GenelD:72330	Klhl40	9	121,777,607	121,783,819	6,212 +	1
GenelD:74770	Hhatl	9	121,784,016	121,792,507	8,491 -	1
GenelD:56295	Higd1a	9	121,848,560	121,858,000	9,440 -	1
GenelD:67469	Abhd5	9	122,351,616	122,381,523	29,907 +	1
GenelD:22646	Zfp105	9	122,923,078	122,931,028	7,950 +	1
GenelD:66202	1110059G10Rik	9	122,945,089	122,951,000	5,911 -	1
GenelD:209737	Kif15	9	122,951,081	123,018,733	67,652 +	2
GenelD:66079	Tmem42	9	123,021,326	123,023,491	2,165 +	1
GenelD:69035	Zdhhc3	9	123,072,310	123,113,205	40,895 -	1
GenelD:66446	Exosc7	9	123,113,231	123,136,129	22,898 +	1
GenelD:72309	Tmem158	9	123,259,057	123,260,789	1,732 -	1
GenelD:29806	Limd1	9	123,478,701	123,521,552	42,851 +	2
GenelD:83493	Sacm1l	9	123,529,882	123,592,598	62,716 +	1
GenelD:93730	Lztfl1	9	123,697,593	123,717,557	19,964 -	1
GenelD:75135	4930526I15Rik	9	124,423,256	124,424,856	1,600 +	1
GenelD:671650	Gm20783	9	124,428,076	124,440,868	12,792 -	1
GenelD:12728	Clcn5	X	7,158,412	7,319,358	160,946 -	1
GenelD:54646	Ppp1r3f	X	7,558,562	7,574,120	15,558 -	1
GenelD:78185	4930524L23Rik	X	7,573,600	7,581,016	7,416 +	1
GenelD:20371	Foxp3	X	7,579,676	7,595,243	15,567 +	1
GenelD:71458	Bcor	X	12,036,737	12,160,355	123,618 -	2
GenelD:22284	Usp9x	X	13,071,498	13,173,328	101,830 +	1
GenelD:13205	Ddx3x	X	13,281,022	13,293,983	12,961 +	1
GenelD:11740	Slc25a5	X	36,795,652	36,798,806	3,154 +	1
GenelD:77644	C330007P06Rik	X	36,848,543	36,864,246	15,703 -	1
GenelD:22209	Ube2a	X	36,874,366	36,884,222	9,856 +	1
GenelD:50786	Hs6st2	X	51,387,212	51,681,602	294,390 -	1

GenelD:236790	Ddx26b	X	56,454,839	56,507,843	53,004 +	1
GenelD:15354	Hmgb3	X	71,555,993	71,560,654	4,661 +	1
GenelD:27083	Xlr4b	X	73,214,365	73,222,453	8,088 +	1
GenelD:14070	F8a	X	73,228,306	73,230,795	2,489 +	1
GenelD:72891	Xlr4c	X	73,234,076	73,243,130	9,054 -	1
GenelD:27081	Zfp275	X	73,342,620	73,359,080	16,460 +	1
GenelD:17257	Mecp2	X	74,026,821	74,085,636	58,815 -	1
GenelD:54411	Atp6ap1	X	74,297,097	74,304,721	7,624 +	1
GenelD:14567	Gdi1	X	74,305,012	74,311,867	6,855 +	1
GenelD:108160	Fam50a	X	74,313,033	74,320,149	7,116 +	1
GenelD:21372	Tbl1x	X	77,511,227	77,660,265	149,038 +	1
GenelD:11878	Arx	X	93,286,646	93,298,357	11,711 +	1
GenelD:14853	Gspt2	X	94,636,069	94,638,562	2,493 +	1
GenelD:13641	Efnb1	X	99,136,130	99,148,991	12,861 +	1
GenelD:10004248	Nhsl2	X	101,849,385	102,092,055	242,670 +	1
GenelD:20102	Rps4x	X	102,184,943	102,189,306	4,363 -	1
GenelD:245555	C77370	X	104,077,435	104,201,117	123,682 -	1
GenelD:10105581	LOC101055819	X	151,796,751	151,802,263	5,512 +	1
GenelD:59026	Huwe1	X	151,803,282	151,935,417	132,135 +	1
GenelD:58194	Sh3kbp1	X	159,627,408	159,975,917	348,509 +	1
GenelD:195727	Nhs	X	161,836,268	162,159,790	323,522 -	1
GenelD:245688	Rbbp7	X	162,760,372	162,779,090	18,718 +	1
GenelD:14758	Gpm6b	X	166,238,943	166,389,033	150,090 +	1
GenelD:17692	Msl3	X	168,654,117	168,673,902	19,785 -	1

anti-ARID4B antibody using the *Arid4b* SCKO testes at P1.5.

Intervals	Interval Dists to Start	Interval Pos	1_Test	1_Teste	ActReg	Peak	Sample
1_Testes_ARID4B:	-342	upstream	1	18.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8315	upstream	1	18.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	62	in gene	1	28.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59	in gene	1	27.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	438	in gene	1	22.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	90	in gene	1	26.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	224	in gene	1	56.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2414	upstream	1	56.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	145	in gene	1	23.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222	in gene	1	26.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	512	in gene	1	26.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35330	downstream	1	32.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150	in gene	1	32.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1425	upstream	1	32.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4391	upstream	1	21.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	285	in gene	1	21.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41930	downstream	1	21.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2198	upstream	1	24.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1878	in gene	1	24.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-258	upstream	1	23.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	327	in gene	1	25.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1315, 435		in gene, in gene	1	23.000	2	1	1_Testes_ARID4B:
1_Testes_ARID4B:	375	in gene	1	21.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82	in gene	1	22.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1167	upstream	1	41.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-282	upstream	1	41.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	266	in gene	1	27.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	385	in gene	1	25.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	69	in gene	1	28.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	185	in gene	1	21.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1178	in gene	1	26.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	389	in gene	1	24.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	77	in gene	1	18.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-229	upstream	1	31.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-610	upstream	1	21.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	544	in gene	1	21.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118	in gene	1	29.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B: 56795, 59		downstream, in gene	1	29.500	2	1	1_Testes_ARID4B:
1_Testes_ARID4B:	102	in gene	1	24.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B: -240, 560		upstream, in gene	1	33.500	2	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75	in gene	1	30.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29	in gene	1	19.000	1	1	1_Testes_ARID4B:
1_Testes_ARID4B: 40403, 41267		downstream, downstre	1	33.500	2	1	1_Testes_ARID4B:

1_Testes_ARID4B: 124, 988	in gene, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8767, -10847	upstream, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2413, 333	in gene, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 127215, 125135, -8529	downstream, downstre	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	225 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18213 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	299 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-105 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	106051 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-968 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	510 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37947 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173728 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 110747, 491	downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	623 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	377 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-12 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16373 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28080 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	304 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	758 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	79 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	223 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	371 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	262 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	147 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252 in gene	1	51.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-468 upstream	1	51.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	403 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11046 downstream	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	91 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1514 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1379 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-440 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	364 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 28690, 18	downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	108 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-77 upstream	1	30.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	36 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10777 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3874 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-272 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	472 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21870 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	151 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-380 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1710 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-406 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	317 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	239 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	349 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-30 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6806 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1533 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	626 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	397 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	360 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -245, 3531	upstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-298 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	289 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1903 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37089 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-149 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-627 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-388 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-240 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-797 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 111, 45983	in gene, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	422 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 7759, -417	in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7965, 211	upstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	284 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	83 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-247 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	340 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	945 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 25791, -545	in gene, upstream	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-549 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	346 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18902 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	400 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8344 downstream	1	27.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 9501, 17277	in gene, downstream	1 22.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -6905, 871	upstream, in gene	1 22.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -9606, -1830	upstream, upstream	1 22.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 37822	in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 404	in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 12759	downstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 277	in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -335	upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 79	in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 707	in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -7710	upstream	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 768	in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -1186	upstream	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 11418	downstream	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 219	in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 11859	downstream	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -262	upstream	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 211	in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 8213	downstream	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 21053, -4707	downstream, upstream	1 25.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 377	in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 27408	downstream	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 392	in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 14279, -6777	downstream, upstream	1 21.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 6495	in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 25586, 27122, 28578	downstream, downstre	1 28.000	3 1_Testes_ARID4B:
1_Testes_ARID4B: 3375, 1839, 383	in gene, in gene, in gen	1 28.000	3 1_Testes_ARID4B:
1_Testes_ARID4B: -3436, -1900, -444	upstream, upstream, u	1 28.000	3 1_Testes_ARID4B:
1_Testes_ARID4B: 30356, 28820, 27364, 2	downstream, downstre	1 30.333	6 1_Testes_ARID4B:
1_Testes_ARID4B: -3269, -1573, 603	upstream, upstream, in	1 32.667	3 1_Testes_ARID4B:
1_Testes_ARID4B: 25127	downstream	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 390	in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 1373	in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 191	in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 191	in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 4	in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 233	in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -1181	upstream	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 190	in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 425	in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 137	in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 335	in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -5856	upstream	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 325	in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -792	upstream	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 255	in gene	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 25	in gene	1 19.000	1 1_Testes_ARID4B:

1_Testes_ARID4B: 548, 18873	in gene, downstream	1 25.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	639 in gene	1 48.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-7531 upstream	1 48.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-2489 upstream	1 48.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-758 upstream	1 48.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	336 in gene	1 39.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	77 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	457 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	10 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1 15.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	831 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 869, 126565	in gene, in gene	1 30.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	40 in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-97 upstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-71 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	17 in gene	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	23237 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -5761, 15327	upstream, downstream	1 21.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-30 upstream	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 32383, 255	downstream, in gene	1 25.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 7501, -6707	downstream, upstream	1 27.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	486 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 46592, 160	downstream, in gene	1 35.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	507 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	7003 downstream	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	7065 downstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	506 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -4294, -8454	upstream, upstream	1 26.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 211, 4371	in gene, downstream	1 26.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -3625, 535	upstream, in gene	1 26.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 7899, 67467	in gene, downstream	1 30.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	295 in gene	1 42.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-380 upstream	1 40.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-477 upstream	1 40.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 33592, -440	in gene, upstream	1 26.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	591 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	162 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	342 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-537 upstream	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 206, -1810	in gene, upstream	1 29.500	2 1_Testes_ARID4B:

1_Testes_ARID4B: -2237, -221	upstream, upstream	1 29.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	100 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	354 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-596 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	411 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1148 upstream	1 44.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1018 in gene	1 44.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -412, -1148	upstream, upstream	1 31.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 67, 803	in gene, in gene	1 31.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	277 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	246 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-68 upstream	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 215955, 83	in gene, in gene	1 24.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 4648, 1640, 712	in gene, in gene, in gen	1 32.333	3 1_Testes_ARID4B:
1_Testes_ARID4B:	302 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	214 in gene	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	307 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	188378 downstream	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	383 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	40 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	481 in gene	1 16.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	918899 downstream	1 16.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1112 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 214, 141142	in gene, downstream	1 27.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	267 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	57896 downstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	12101 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-175 upstream	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	343 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	26 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	474 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	34859 downstream	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 865, -735	in gene, upstream	1 31.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -1493, 107	upstream, in gene	1 31.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	262 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1 40.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 371, 17683	in gene, downstream	1 23.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	184 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	30625 in gene	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	211 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	285 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	498 in gene	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	19665 downstream	1 18.000	1 1_Testes_ARID4B:

1_Testes_ARID4B:	2276 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13070 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	172 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	820 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	168 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	51268 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	243 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9850 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	373 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -67, 39186	upstream, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	81 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9618 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -3538, 78	upstream, in gene	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6684 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	47 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117660 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14635 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	526 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	50227 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55451 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1883, 139	in gene, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1301, 443	upstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	400 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-529 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	311 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	89 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1558 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7360 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9179, 5979	in gene, in gene	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	15254 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 353, 32625	in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	235 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	347 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	123 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	78 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	147 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	218 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	23.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	16169 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 214, -394	in gene, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	546 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	396 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8418 downstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3805 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	308 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1920 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	452 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1109 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	259 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	199 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	667 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 157, 637	in gene, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	350 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	147 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	96 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	284 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 580330, 394	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	213 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1229 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	322 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1865 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2604 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35144 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-108 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	268 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	257 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	515 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 77, -7955	in gene, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 65598, 222	downstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 922, -566	in gene, upstream	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-156 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	679 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-222 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-206 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	409 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17764, 356	downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6430 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	345 in gene	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	7366 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16583 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-83 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22784 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	63 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7289 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	650 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	260 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-67 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	287 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 169, 13705	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 16687, 3151	downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	35686 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	365 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18043 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7230 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	401 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	262 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3975 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6265 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10289 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	349 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3325 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-369 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 19000, 632	downstream, in gene	1	38.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	359 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -229, 1403	upstream, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-421 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	121 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	495 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 372, 2132	in gene, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	304 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -470, 106, 55338	upstream, in gene, dow	1	22.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-605 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5448 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11329 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174 in gene	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	7393 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-86 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 778, -118	in gene, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10933 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	95 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	97 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	267 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	416 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-468 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 24285, 349	in gene, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	409 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -3167, 31041	upstream, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	105 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	627 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	384 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	384 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	371 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-58 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	340 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 120, -2280	in gene, upstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	704 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-366 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -8229, -9434	upstream, upstream	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 382, 1587	in gene, in gene	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	753 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6984 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-390 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1080 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	276 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	359 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	387 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 811, -661	in gene, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 78, 1550	in gene, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	339 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	621 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7113 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 21160, 701	downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	3016 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233223 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	525 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	199 in gene	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	700 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-416 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	62.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18631, 407	downstream, in gene	1	41.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	98864 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	301 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	672 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-459 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -4592, 13592	upstream, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	62 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-113 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-89 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	98 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-277 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	105 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1486 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	320 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-402 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7721 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	188 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	572 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -139, 16661	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -721, 16079	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-249 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12854 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	260 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-372 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-73 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	229 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 110920, 112024	in gene, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-345 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3707 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	672 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1557 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1187 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9978 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	219 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1006 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	714 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1393 in gene	1	18.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	540 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2820 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	92 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	333 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6218 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17950 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-273 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-31 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	479 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	226 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1550 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2028 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	105 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-377 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	224 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1164 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	548 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-50 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-889 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	498 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13862 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-263, 29113 upstream, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	52 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	77010 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1622 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	410 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	124 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	296 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	152882, 1138 in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1312 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-388, 860, 31228 upstream, in gene, in g	1	17.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	127 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-56 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-15 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	461 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9720 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	373 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33191 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	287 in gene	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-210 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	212 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-338 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113233 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8539 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	188 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-201 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	126 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	96 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 89, 15833	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	104043 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	591 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	348 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9482 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	589 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1361, 401	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	318 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	419 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	285 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 147, 31603	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -97, 15839	upstream, downstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	646 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	600 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8527 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	868 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	498 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	121 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 23962, -54	downstream, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	350 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75251 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -137, 26503	upstream, downstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 107, 33451	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 257, 43489	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	137 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-800 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	293 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6772 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8168 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-178 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 300, -228	in gene, upstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-218 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	353 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1203, 10419	in gene, downstream	1	28.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: 9883, 667	downstream, in gene	1 28.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	342 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	199 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	4504 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1 39.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	829 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	415 in gene	1 44.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	530 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	22936 downstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	188 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	238 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	92 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-3036 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	24415 downstream	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	608 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	16529 in gene	1 16.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	186 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-906 upstream	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	10 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	28206 downstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 159, -3857	in gene, upstream	1 30.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -3269, 747	upstream, in gene	1 30.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 8362, 4346	downstream, downstre	1 30.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	459 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	98080 downstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	155 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	834 in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-107 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	24985 downstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 518, 16422	in gene, downstream	1 29.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	335 in gene	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-8944 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 30980, 100	downstream, in gene	1 25.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	27345 downstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	264 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	125 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 59618, 450	downstream, in gene	1 24.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	154 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	451 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-98 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	7722 downstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 5106, 10946	downstream, downstre	1 30.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 270, 6110	in gene, in gene	1 30.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-6675 upstream	1 28.000	1 1_Testes_ARID4B:

1_Testes_ARID4B:	23142	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6805	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11569	downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	264	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10586	upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4839	upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5733	upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 6099, 19774		in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13930, 255		in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5288	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8952	downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4411	downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13674, -8182		in gene, upstream	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -190, -10494		upstream, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 149, 10453		in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9952, 352, 5888		upstream, in gene, in g	1	22.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 16952, 19165		downstream, downstre	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 6380, 8593		in gene, downstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7226, 5013, -4534		downstream, in gene, u	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -9283, 264		upstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8751	upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 474, 4314		in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 48718, 44878, 110		downstream, in gene, i	1	27.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -632, 15176, 22712		upstream, downstream	1	34.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 7655, 119, -3545, -4505		in gene, in gene, upstre	1	28.667	6	1_Testes_ARID4B:
1_Testes_ARID4B: -10603, -3067, 597, 155		upstream, upstream, in	1	28.000	7	1_Testes_ARID4B:
1_Testes_ARID4B: -9042, -5378, -4418, -30		upstream, upstream, u	1	28.429	7	1_Testes_ARID4B:
1_Testes_ARID4B: -1, 4015		upstream, downstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5104, -1088		upstream, upstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7626	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	298	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11316	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	200	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -4223, 27633		upstream, downstream	1	44.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9618	upstream	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193	in gene	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -9196, 13316, 19887, 2		upstream, in gene, dow	1	29.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: 5412, -1159, -2732, -97		downstream, upstream	1	21.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: 14337, 7766, 6193, -79		downstream, in gene, i	1	21.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: -8438, -6865, 127, 1166		upstream, upstream, in	1	21.750	4	1_Testes_ARID4B:
1_Testes_ARID4B: 18174, 6638, -530		downstream, in gene, u	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-7483	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 6200, 643, -301		in gene, in gene, upstre	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 12471, 11527		downstream, downstre	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	213	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7953	upstream	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 14483, 168	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15904, 384, -9264	downstream, in gene, u	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 13429, 3781, 357	downstream, in gene, i	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 160, 3872	in gene, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 158, 3870	in gene, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	15548 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18743 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 218, 36714	in gene, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 6706, -8638	downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6815, 8529	upstream, downstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	2016 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6234 downstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9312 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7171 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8071 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-183 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18072 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3081 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20357 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1355, 341, 1845	upstream, in gene, in g	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-3272 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22970 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7304 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 229, 23397	in gene, downstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6927, 113, 1873, 8017	upstream, in gene, in g	1	23.000	4	1_Testes_ARID4B:
1_Testes_ARID4B:	23432 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15849 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9473 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2211 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9557 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1853 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 148, 29641	in gene, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1510, 11366	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6118, 3738	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	10797 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7303 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8060 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20610 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6100 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2536 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 36645, 6693	downstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	18325 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	246 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5912 in gene	1	17.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-9815 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15140 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5389 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	179 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8806 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	449 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	323 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9860 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-665 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	448 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-481 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	349 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1106 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	305 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	245 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 29057, 289	downstream, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 54356, -10220	downstream, upstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	151 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	198224 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	260 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	73549 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	355 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-67 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	94 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-361 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	382 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	308 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1601 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2205 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-412 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 159, 112239	in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	309 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	439 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-347 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 530, -558	in gene, upstream	1	37.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	401 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	921 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1439 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	311 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4535 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	631 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1104 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-807 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1439, 513, 2785 upstream, in gene, in g	1	24.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	623 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-695 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	128 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	183 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	62 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24, 33816 in gene, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	6220 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	722 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	393 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	162 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	229 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-185 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	130 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1005 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	481 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	68 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17726 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	323 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1145 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-377 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	404 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	326 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	84986, 10 downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	630 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	375 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7290, 18342 upstream, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	108 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	983 in gene	1	23.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	770 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	286 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	282 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	270 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 90985, 217	downstream, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	123 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2284 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1012 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	293 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -157, 771	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	30043 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	62 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10642, -622	downstream, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	84 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6230 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4072 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	653 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6005 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6225 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	232 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	524 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 14965, -8683	downstream, upstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 726, -5162	in gene, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 6381, 493	downstream, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5921, -33	upstream, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 22294, 16406	downstream, downstre	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	218 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	523 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10716 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11941 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4436 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7679 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 518, 19734, 22118, 235	in gene, downstream, c	1	26.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: 3983, 1599, 175	in gene, in gene, in gen	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -4403, -2019, -595, 999	upstream, upstream, u|	1	28.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: -10537, 55	upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	3486 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8774 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20401 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 270, 23790	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 154, 24410	in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 85, 9813, 13973	in gene, downstream, c	1	23.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -1894, 7834	upstream, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9391, 337, 4497	upstream, in gene, in g|	1	23.333	3	1_Testes_ARID4B:

1_Testes_ARID4B:	277 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6434 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 56, 30664	in gene, downstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1541, -7323	in gene, upstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8628, 236	upstream, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-644 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4008 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14242 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-782 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-524 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1097, 14441	in gene, downstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9281, -4063	downstream, upstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13508, 164	downstream, in gene	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-10453 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1685 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-918 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1365 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	131 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	43221 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-696 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-123 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	62 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31567 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	511 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 7151, 3855, 495	in gene, in gene, in gen	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 48, 3344, 6704	in gene, downstream, c	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 37605, 34245, 453	downstream, downstre	1	25.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-814 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	53598 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -326, -1686	upstream, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	767 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	89 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 21161, 393	downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	307 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 54984, 21512, 136	downstream, in gene, i	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 90, 26362	in gene, downstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	29 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16160 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6353 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	29.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	291 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7253 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	467 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 332, 26988	in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	482 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	588 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7682 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	425 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5549 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12681 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	451 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 40183, 439	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37983 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-286 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88896 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11276 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	373 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-459 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	115 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4249, 2777	in gene, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5592, 7064	downstream, downstre	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	694 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	407 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	158 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	400 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	409 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 123, 88971	in gene, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	556 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	84 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	207 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	235 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	912 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9996, -8484	in gene, upstream	1	42.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	283 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	65.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190801 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	250 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	326 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6746 upstream	1	15.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	3744 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 65, 41905	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	896 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-251 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21351 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	232 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-142 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	126 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2487 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36637 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	52 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	481 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	525 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4937 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-199 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17077, 597, -4395	downstream, in gene, u	1	23.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -4809, 183	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 40926, -2	downstream, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8984 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	244 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5855 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-248 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 15558, 134	downstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3204, 436	downstream, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	310594 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	473 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	256 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 145817, -7	downstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	916947 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2659 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 40893, -611	downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	406 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7672 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	212 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	172 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	186 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	44069 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	188 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	407 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10966 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1003 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120 in gene	1	19.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	88 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1585 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2691 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16943 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11654 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15701 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9392 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17681 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	374 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 53, 53077	in gene, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	481 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-32 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35837 downstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	102 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -311, 5769	upstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13447, 7367	downstream, downstre	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	368 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 33705, 137	downstream, in gene	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	377 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	550 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-537 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	317 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21259 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	865 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 15960, 24	downstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15201, 721	downstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-602 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	450 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7279 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1129 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 306, -3950	in gene, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4061, 195	upstream, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	328 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	357 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1372 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-309 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6825 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-203 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	62 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-362 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	267 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8119 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1603 in gene	1	22.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	8783 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-271 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	205 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	71 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	162 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-37 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48026 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	535 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5937 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	90 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7036 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6862 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	244 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-265 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-130 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12514 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	651 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	472 in gene	1	46.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3318 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	755 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22515 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14715 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-446 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	380 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6317, -8339 in gene, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	15056, 400, -10288 downstream, in gene, u	1	24.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	10879, 191, -6081, -668 downstream, in gene, u	1	29.250	4	1_Testes_ARID4B:
1_Testes_ARID4B:	-277, 5995, 6603 upstream, downstream	1	29.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-6121, 151, 759 upstream, in gene, in g	1	29.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	26027, 19755, 19147, 2 downstream, downstre	1	31.500	4	1_Testes_ARID4B:
1_Testes_ARID4B:	272 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	683 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-319 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	183, -8489 in gene, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8489, 183 upstream, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	16810 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-82 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	71815 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	779, 35403, 71723, 104 in gene, in gene, in gen	1	24.500	4	1_Testes_ARID4B:
1_Testes_ARID4B:	9420 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10844 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-693 upstream	1	28.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	647 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	69213 downstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	869 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	246 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	53 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1230 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1495 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	526 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18267 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	243 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	183 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35355 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8367 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8652 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10963, -157	downstream, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	44 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	487 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-60 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-236 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-892 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-752 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28426 downstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-174 upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-548 upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1618 upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 45611, -309	downstream, upstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	168 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	32541 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1210 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	492 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	674 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	668 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	73 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-239 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	263 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-338 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	981 in gene	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	13175	downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	162	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29785	downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:53, 14565		in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	433	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10601	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:144, 9792		in gene, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-10284, -636		upstream, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-73	upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2203	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3721	upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1406	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2783	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2670	downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:398, 14734		in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	223	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:28399, 815		downstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4622	upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4177	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:-1734, -11910		upstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:13707, 3531		in gene, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	138964	downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-115	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18972	downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	648	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12593	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11219	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	357	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2191	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9262	upstream	1	54.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8861	downstream	1	54.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5842	upstream	1	54.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:519, -9609		in gene, upstream	1	41.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:10180, 52		downstream, in gene	1	41.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-10234, -106		upstream, upstream	1	41.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:13650, 3522		downstream, downstre	1	41.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:24194, 14066		downstream, downstre	1	41.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	14066	downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8321	upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4700	upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	632	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:321, -4479, -5503, -668		in gene, upstream, upsi	1	20.400	5	1_Testes_ARID4B:
1_Testes_ARID4B:6009, 1209, 185, -999,		downstream, in gene, ii	1	20.400	5	1_Testes_ARID4B:
1_Testes_ARID4B:10008, 5208, 4184, 300		downstream, downstre	1	20.400	5	1_Testes_ARID4B:
1_Testes_ARID4B:-8053, -3253, -2229, -10		upstream, upstream, up	1	20.400	5	1_Testes_ARID4B:
1_Testes_ARID4B:	-7384	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3659	upstream	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	9025	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3230	upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-263	upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 14291, -5261		downstream, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	186	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1078, 12330, 19274		upstream, downstream	1	29.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 16, 6960		in gene, downstream	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7750, 806		downstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-61	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 128, 14736, 19600		in gene, downstream, c	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -10074, 4534, 9398		upstream, downstream	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 133, 4997		in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4722, 142		upstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	14639	downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5034	downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2050	in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10854, -9754		downstream, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	4835	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4510	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1638	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	300	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15789	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-145	upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	83	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14982	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5640	upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1047	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5101	upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22908	downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7726	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 191, -7169		in gene, upstream	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -741, 6619		upstream, downstream	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7802, 442		downstream, in gene	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-3005	upstream	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15208	downstream	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 12283, -581		downstream, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	188	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	101	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	213	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -440, 12760		upstream, downstream	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13266, 66		downstream, in gene	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 21472, 192		downstream, in gene	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	15023	downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4021	upstream	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-162 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8200 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7746 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	225 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5882 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:48496, 448	downstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	60790 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	323 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-641 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	254 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20279 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:416, 29024	in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	47517 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16270 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	242 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-283 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22219 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:18891, 29899	in gene, downstream	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	9 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	224 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:1076, 6820, 12212	in gene, in gene, in gen	1	24.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:53944, 360, -1128	downstream, in gene, u	1	30.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:-1360, 128	upstream, in gene	1	38.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-8726, -7238	upstream, upstream	1	38.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:29078, 27590, -410	downstream, downstre	1	34.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:336, 240880, 247648	in gene, downstream, c	1	32.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:3503, -3265	in gene, upstream	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-6636, 132	upstream, downstream	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-6930, -162	upstream, upstream	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:12056, 5288	downstream, downstre	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:23731, 16963, -3501	downstream, downstre	1	35.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-9 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-44 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:397, -6963	in gene, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-7219, 141	upstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-9396, -2036	upstream, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6399 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23687 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	370 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:-3077, 18379	upstream, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	226 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	35.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	27947	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	265	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1049	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	198	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 184, 15192		in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15332, 324		downstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-365	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26451	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	549	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8575	upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 82431, 6639, -33		in gene, in gene, upstre	1	19.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	640	in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-72	upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -297, 245991		upstream, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1497	upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 27262, -4242		downstream, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 508, 13319, 19660		in gene, in gene, downs	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 6542, 201		downstream, in gene	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8386, -2045		upstream, upstream	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 12467, 6126		downstream, downstre	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	37	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	53153	downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1280, 49584		in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	265	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	87	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5541	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	70607	downstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	270	in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11386, -2198		downstream, upstream	1	37.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 98, 9906		in gene, downstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 4720, -5088		downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2482, -7326		downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2892, -6916		downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 4249, -5559		downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9563, 245		upstream, in gene	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4720	upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	71	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -114, 16430		upstream, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	422	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26953	downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4346	downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 122, 15215		in gene, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	115	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	155	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31898	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13296	downstream	1	29.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	8903 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-248 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23844 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-14 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	615 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-500 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 69540, 113044	in gene, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	14334 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -7713, -353	upstream, upstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 219, -8645	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8664, 200	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	25312 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5473 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 377, 48633	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 302777, 233	downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-494 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	401 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16143 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2965, 20491	upstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	11053 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9322 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8448 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3775 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9365 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	123 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-298 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 41858, 818, -270, -934	downstream, in gene, u	1	34.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: 10365, 9277, 205	downstream, downstre	1	34.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -10300, -9212, -140, 36	upstream, upstream, u|	1	34.000	4	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	400 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-446 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 476980, 481604	downstream, downstre	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2244, -2380, -5756, -83	in gene, upstream, upsi	1	28.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: -2471, 2153, 5529, 808	upstream, in gene, in g|	1	28.250	4	1_Testes_ARID4B:
1_Testes_ARID4B:	137 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 56512, 64	downstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 100021, -555	downstream, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	103 in gene	1	28.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-287 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	84 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	290 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 22170, -982	downstream, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 435, 18099	in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-3308 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	283 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	210 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11018 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-727 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	617 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	587 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1494 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 406, 105302	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	30 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-325 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-51 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	234 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25745 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	277 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	316 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	479 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-196 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49297 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	374 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -827, 69669	upstream, downstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12633 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	421 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3755 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 215, -6505	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6305, 415	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	662 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11774 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3382 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24910 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	151 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	52730 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	128 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	437 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 596, 18596	in gene, downstream	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-71 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2329 upstream	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	901 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9458, 258	in gene, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-846 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9986 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -212, 6732	upstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 18188, 11244	downstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	84 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10414 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5151 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	410 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 22730, 30202	in gene, downstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5776, 1696	upstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 6208, 208	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	172 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-345 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	289 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6301 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	520 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8687 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7696 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-960 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 37220, -12	downstream, upstream	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	288 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 489, 42169	in gene, downstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1915 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30385 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	820 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22284 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -256, 13152	upstream, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 14801, 1393, -2319	downstream, in gene, u	1	23.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -4330, -618	upstream, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	368 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22277 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -5138, -6226	upstream, upstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1383, 295	in gene, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 710, -378	downstream, upstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	344 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2098 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7629 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 131, -4509	in gene, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4214, 426	upstream, in gene	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 26326, 822	downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-240 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 43437, -10227	downstream, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	215 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1149 in gene	1	17.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	156 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18529 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	326 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 303, 26671, 28879, 333	in gene, downstream, c	1	23.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: 6698, 4490, 26	in gene, in gene, in gen	1	20.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 327, 14143	in gene, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13993, 177	downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 176, 14000, 22880, 259	in gene, in gene, in gen	1	22.000	7	1_Testes_ARID4B:
1_Testes_ARID4B:	9203 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	713 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13763 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	515 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1390 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 26785, 129	downstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-964 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	430 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 55648, 352	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	576 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3363 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31101 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -8038, -9809	upstream, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 158, -1613	in gene, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1541, 230	upstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 25821, 24050	downstream, downstre	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9991 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1225 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11460, 409	in gene, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	60916 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 274, 9858, 12882	in gene, downstream, c	1	26.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -8043, 1541, 4565	upstream, in gene, dow	1	26.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -2673, 351, 12991	upstream, in gene, dow	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -7338, -4314, 8326	upstream, upstream, d	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 12459, -181	downstream, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 24227, 195	downstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-483 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14548 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	870 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5011 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5685 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	114 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 34, 7506	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7375, 97	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6727 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37 in gene	1	39.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-8775	upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 185, -7751		in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8085, 149		downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7837, 99, 17443		upstream, in gene, dow	1	41.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	283	in gene	1	65.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -5884, 17636		upstream, downstream	1	48.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	151	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2290	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7378	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	439	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2704	upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 168, -4312		in gene, upstream	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4611, -131		upstream, upstream	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	40604	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11087, 12607		downstream, downstre	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 581, -939		in gene, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 23048, 21528, 8952, 16		downstream, downstre	1	27.333	6	1_Testes_ARID4B:
1_Testes_ARID4B:	14405	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-291	upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7278	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10063, 367		in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	22587	downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1681	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-19	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 641, 13057		in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-268	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4193	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16224	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	283	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11464	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	90	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -120, 13640, 15400		upstream, downstream	1	24.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -997, 763		upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-795	upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190	in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-114	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	100	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	225	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	73	in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1172	in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-333	upstream	1	35.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	34485	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 441, -839		in gene, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -538, 742, 111270		upstream, in gene, dow	1	25.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	154	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	127	in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	286	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	403	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28885	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 216, 29304		in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	69	in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	122	in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-625	upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16231	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	556	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4256	upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	130	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 145, -8863		in gene, upstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9102, 94		downstream, in gene	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3367, -5641		downstream, upstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9860, -852		upstream, upstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	235	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	293	in gene	1	52.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	485	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	544	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9352	upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14746	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-504	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 992, 208		in gene, in gene	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	496	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227	in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1475	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16365	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	422	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	438	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1148, 124		in gene, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -926, 98		upstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	125	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -866, 670, 2846		upstream, in gene, in g	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 16128, 13952		downstream, downstre	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	167	in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-569	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	308	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	135	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 991, -993		in gene, upstream	1	19.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	417	in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -6508, 35508		upstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	404	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	62353	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17403	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	519	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 436, 22020		in gene, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 170, 16842		in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-689	upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	482	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13287	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 83, 16035		in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	102	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 22658, 290		downstream, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 22150, 742		downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 140, -8884		in gene, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -375, 8649		upstream, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9193, 169		downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 24519, 15495		downstream, downstre	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	37927	downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10232, 488, -1288, -102		in gene, in gene, upstre	1	24.750	4	1_Testes_ARID4B:
1_Testes_ARID4B: -1635, 141, 9069		upstream, in gene, dow	1	23.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -9178, -250, 35478		upstream, upstream, di	1	24.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	353	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30803	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7191	downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	248	in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6066	upstream	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2395, 219		in gene, in gene	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	472	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 8212, -6572		downstream, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	22738	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	43	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 36169, 169		downstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6891	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	591	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 78269, -216		downstream, upstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 626, 3442		in gene, in gene	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 19627, 16811		downstream, downstre	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	106	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1529	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 48007, 391		downstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-2933	upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	489	in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3284	upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	302	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 15705, 345, -9367		downstream, in gene, u	1	46.667	3	1_Testes_ARID4B:

1_Testes_ARID4B: -411, 9301	upstream, downstream	1	57.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9990, 278	downstream, in gene	1	57.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1199 upstream	1	56.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66718 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 79, 1399	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	603 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2217 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12180 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16174 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23361 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	43 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12496 downstream	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	278 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1998 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1158 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	286 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9625 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 395, 16158	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1726, -6191	in gene, upstream	1	17.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	5133 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17699, 83	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-156 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-149 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	40573 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -197, 34491	upstream, downstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-424 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -3052, 98271	upstream, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	24 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	316 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1126 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-19 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-18 upstream	1	59.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 332, 66252	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	37801 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5518 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5423 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 641, 2721, 4353	in gene, downstream, c	1	28.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 3872, 1792, 160	downstream, in gene, i	1	28.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -1811, 1933, 3789, 216	upstream, in gene, in g	1	28.750	4	1_Testes_ARID4B:
1_Testes_ARID4B: 4982, 1238, -618	downstream, downstre	1	31.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 196, -924	in gene, upstream	1	40.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -390, 730	upstream, in gene	1	40.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: 226, 16818	in gene, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 16986, 394	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 59348, 420	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5351 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 16203, -4661	downstream, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-81 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9456 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -9491, 11517, 16109, 1	upstream, in gene, in g	1	26.000	5	1_Testes_ARID4B:
1_Testes_ARID4B: -5517, -925, 56, 7315	upstream, upstream, in	1	25.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: 9601, 5009, 4028, -323	downstream, downstre	1	25.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: -8093, -7112, 147	upstream, upstream, in	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	18617 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	383 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1788 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 168, -8152, -8632	in gene, upstream, upsi	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 8852, 532, 52	downstream, in gene, in	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 909, -243	in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -965, 187	upstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9869 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6718 upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 394, -4534, -7766, -866	in gene, upstream, upsi	1	27.500	4	1_Testes_ARID4B:
1_Testes_ARID4B: 8939, 4011, 779, -117	downstream, in gene, in	1	27.500	4	1_Testes_ARID4B:
1_Testes_ARID4B: 14134, 10902, 10006	downstream, downstre	1	22.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 147, 40355	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 439, -7897	in gene, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -625, 7711	upstream, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8140, 196	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	5617 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10357 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 236, -556	in gene, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -304, 488, 11792	upstream, in gene, dow	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 12427, 11635, 331	downstream, downstre	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 28483, 515	downstream, in gene	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	108840 downstream	1	51.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1020 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1	93.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-95 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	79 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	143 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33947 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17111 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	115 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	421 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-645 upstream	1	37.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	535 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:-183, 281	upstream, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1148 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-53 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:670, 158	in gene, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	187 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1895 upstream	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:192, -9904	in gene, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-10025, 71	upstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	610 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	282 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1532 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	901 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8871 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5014 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21005 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-421 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	322 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:4364, 1836, 284	in gene, in gene, in gen	1	29.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1105 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	226 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:374, -10298	in gene, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-10453, 219	upstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-450 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	125 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	439 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	226 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30215 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	57079 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	133 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	98 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	408 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	353 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1102 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	57.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	46 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	108 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	530 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	269 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	817 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1175 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:111919, 351	downstream, in gene	1	20.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: 315, 795	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-627 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	471 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 313, 772	in gene, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	491 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7421 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-468 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1166 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1362 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	323 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-514 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	251 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	94 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	307 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	583 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	522 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	426 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 448, -320	in gene, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 903, 1671	in gene, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1184, 576	in gene, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1499 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 220751, 479	downstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4020 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3468 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1332 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1033 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	148 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	135 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	257 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1633 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5675 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1214 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	539 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 50, 37538	in gene, downstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 66, -1806	in gene, upstream	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1734, 138	upstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	68 in gene	1	23.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-9758 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9649 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 130, 15570	in gene, downstream	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-317 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 226, 13250	in gene, downstream	1	47.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 14045, 1021	downstream, in gene	1	47.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	57.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30782 downstream	1	57.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	237 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	375 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 99004, 380	downstream, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	43402 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	555 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-497 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	213 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	291 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-449 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1150 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-369 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	225 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	291 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-464 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	324 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11452 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	154 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 14497, 321, -863	downstream, in gene, u	1	32.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -847, 337	upstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -347, 549	upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-105 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-32 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	347 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2435 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	335 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	229 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2459 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15700 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	392 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1000 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	294 in gene	1	31.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-1266 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1072 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-164 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-184 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	371 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	168 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	904 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-383 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	514 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-67 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 341, 60373	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	134 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-86 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19275 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2837, 1189, -2699	in gene, in gene, upstre	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 22668, 21020, 17132	downstream, downstre	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	691 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1113 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	281 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11482, 12042	downstream, downstre	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -302, 258	upstream, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -471, 48553	upstream, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1184 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 3115, 2187	in gene, in gene	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	124 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-649 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	544 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22031 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	264 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	482 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	440 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	91 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55926 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-403 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 33460, -3212	in gene, upstream	1	39.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-37 upstream	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	784 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	466 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 25665, 385	in gene, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5410 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-387 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	240 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 405, -8299	in gene, upstream	1	20.000	2	1_Testes_ARID4B:

1_Testes_ARID4B: -444, 8260	upstream, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8576, 128	upstream, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	87 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	623 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	70 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	303 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4577 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	258 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35613 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	168 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-343 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	575 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	325 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	276 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	158 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	702 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-372 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5088 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 88070, 486	downstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5827 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	433 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-312 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28715 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	57 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7332 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3486 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	121 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9441 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3060 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9720 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	57754 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	102 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1262 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 189, 81373	in gene, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1389 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -192, 11600	upstream, downstream	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	27 in gene	1	51.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	100 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-361 upstream	1	33.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-7551 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 54358, 534	downstream, in gene	1	37.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	717 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-109 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	613 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 44963, 259	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	293 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-366 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-366 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	870 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	395 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8717 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	676 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1928 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	432 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	96 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-264 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	78370 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-350 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22774 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8376 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	580 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1034 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	569 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12641 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	290 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	608 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -735, 241	upstream, in gene	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1261 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	139760 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34185 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	857 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-331 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8308 upstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10226 downstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	205 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	267 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9397 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	57 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8618 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	89584 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: -1222, 138	upstream, in gene	1 22.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 484, 108124	in gene, downstream	1 19.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	3561 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-10087 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	550 in gene	1 47.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	875 in gene	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1970 upstream	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-734 upstream	1 41.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	626 in gene	1 41.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 210, -5838	in gene, upstream	1 48.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: -5977, 71	upstream, in gene	1 48.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	45771 downstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 191, 55551	in gene, downstream	1 29.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-559 upstream	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-361 upstream	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	128 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	560 in gene	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	24881 downstream	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 100, 11956	in gene, downstream	1 26.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 29348, 17492, 612, -50	downstream, in gene, in	1 26.750	4 1_Testes_ARID4B:
1_Testes_ARID4B: -5176, 488	upstream, in gene	1 27.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 386, 23442	in gene, in gene	1 19.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-6610 upstream	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	301 in gene	1 36.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	439 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 13062, -8202	downstream, upstream	1 22.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 50301, 23853, 397	downstream, in gene, in	1 25.000	3 1_Testes_ARID4B:
1_Testes_ARID4B:	286 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -364, 404	upstream, in gene	1 24.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	42362 downstream	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	404 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	2001 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	116 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	75 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-544 upstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	3239 in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	372 in gene	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	76 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	495 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 1442, 130	in gene, in gene	1 28.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	1 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	2727 downstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	375 in gene	1 25.000	1 1_Testes_ARID4B:

1_Testes_ARID4B:	730 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-323 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	357 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2507, 3029	upstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1289 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3658 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	313 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	613 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	266 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7179 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	218 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3061 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6882 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7152 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-170 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-281 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-383 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	213 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1618, -5918	in gene, upstream	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	831 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	228 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 81, 1542	in gene, in gene	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 24262, 22801	downstream, downstre	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	520 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1722 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2794 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67146 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-384 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	40343 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35288 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	377 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-619 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	298 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 81130, 82282	in gene, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-339 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	285 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1210, 105690	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-247 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	98 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -468, 492	upstream, in gene	1	22.000	2	1_Testes_ARID4B:

1_Testes_ARID4B:	236 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	276 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	512 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2383 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15470 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	63226 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	403 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2357, 395	upstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	588 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	32929 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 82509, 589	downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	272 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	210 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	735 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1003 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	334 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 57993, 265	downstream, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-394 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-463 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 35107, 1139	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	397 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12060 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 244, -652	in gene, upstream	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -528, 368	upstream, in gene	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	26 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41651 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	289 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	91 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-710 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	139 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-249 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	78 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 240, 6672	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6242, 190	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1549 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	237 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 484, -337	in gene, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	317 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	232 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4007 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	291 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9642 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11 in gene	1	36.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	15050	downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 6504, 232		in gene, in gene	1	37.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7735	upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-600	upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 970, 2698, 112362		in gene, in gene, downst	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -164, -7524, -8004		upstream, upstream, up	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 89, 7449, 7929		in gene, downstream, c	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 7586, 226, -254		downstream, in gene, u	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	19338	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 405, 8181		in gene, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 23404, 15628, 556		downstream, downstre	1	30.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 25919, 95		downstream, in gene	1	44.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	15194	downstream	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3825	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3151	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12227	downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	205	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	508	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 70, 12582		in gene, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-136	upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 5889, 5281		in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 574, -2		in gene, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	428	in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	69	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-356	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	169	in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17460, 393		downstream, in gene	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7830, -9237		downstream, upstream	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-125	upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-537	upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	427	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	56	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1343	in gene	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1136, -7120		in gene, upstream	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 191, -9073		in gene, upstream	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8858, 406		upstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	28	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26260	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	374	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	370	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	262	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-112	upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	354	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	554	in gene	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	136 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10289 downstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	409 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	134 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-73 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10556 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	98 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2625 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-87 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-50 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-174 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	64 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-141 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13824 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	244 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	336 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-208 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	454830 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2338 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-219 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-185 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	409 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-152 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	93 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 55, 967	in gene, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	54 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	895 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	110 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	205 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-703 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1088 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	353 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-117 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11, 11275	in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5332, 5932	upstream, downstream	1	19.000	2	1_Testes_ARID4B:

1_Testes_ARID4B: -5363, 5901	upstream, downstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 273682, 306	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	360 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-145 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	271 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-266 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	366 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	214 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	144 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-258 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1386, 218	in gene, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	155 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4104 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1723 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	275 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 251, -10437	in gene, upstream	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 10838, 150	downstream, in gene	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	115 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	377 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-274 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	98 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	115 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10329 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 386, -766	in gene, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -842, 310	upstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 752, -1168	in gene, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	172 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-234 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 114385, 129	downstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-242 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1249247 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-385 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	889 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 670, 1278	in gene, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 695, -297	in gene, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -848, 144	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-492 upstream	1	22.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	79 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	820 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1434 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12268 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	462 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	764 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	276 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5178 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10550 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	130 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-203 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	367 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	559 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	400 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	94 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-480 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-247 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 206, 40574, 45294	in gene, downstream, c	1	24.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 174, -4546	in gene, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 4819, 99	downstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 63489, 58769	downstream, downstre	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	429 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-149 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	72210 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	111 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 15420, -4900	downstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 6866, -6302	in gene, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 287, 21199, 28527	in gene, downstream, c	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 552, 7880, 12616	in gene, downstream, c	1	35.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 7579, 251, -4485	downstream, in gene, u	1	35.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -7507, -179, 4557	upstream, upstream, d	1	35.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -4704, 32, 26944	upstream, in gene, dow	1	39.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 59592, 136	downstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	71 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23650 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2322 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	413 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16439 downstream	1	29.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	910 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	422 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4097, 1873	in gene, in gene	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-467 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	704 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18871 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1327, 147599	in gene, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	3237 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7074 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	328 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	85 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-692 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	694 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 135, 75975	in gene, downstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 447, 4735	in gene, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	10137 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	896 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 383, 1679, 110943	in gene, in gene, down	1	23.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	198 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	130 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 143, 17583	in gene, downstream	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4625 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2704 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -162, 112222	upstream, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-2430 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3493 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37281 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-305 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	72712 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	188 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	689 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	353 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-455 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	207 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18105 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-189 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	109 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	332 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	102985 in gene	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	246 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-327 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8383 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10893 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	450 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20705 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39689 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-376 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-160 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-782 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	459 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	208 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	735 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	645 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11090 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	101 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 98, -10206	in gene, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9883, -421	downstream, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10100, 204	upstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 139, 1851	in gene, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	218 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	242 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1217 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-96 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-191 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	509 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-83 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5873 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 95, 991	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3901, 3005	downstream, downstre	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	87 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	40420 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25814 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23710 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5411 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	716 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 3245, 893	in gene, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 31492, 29140	downstream, downstre	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	563 in gene	1	35.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	197 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12459 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	642 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -6529, 11487	upstream, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	769 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	780 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 14436, 740	downstream, in gene	1	37.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6647 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10422 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18192 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	765 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9936 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1873, -8383	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 12215, 1959	downstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	12538 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13378 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6618 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-771 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17514 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2, -7618	upstream, upstream	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8126, 510	downstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6888 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9502 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9173 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	409 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8636 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-172 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12568 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	102 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3875 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	444 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1731, -595	upstream, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-229 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-95 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 64118, 182	downstream, in gene	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	244 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	199 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	863 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	306 in gene	1	34.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	151 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34791 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	219 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1326 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82821, 33829, 677, -58 downstream, in gene, i	1	25.750	4	1_Testes_ARID4B:
1_Testes_ARID4B:	-7905 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	179 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	135 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	440 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	171, 77419 in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4284, -180 in gene, upstream	1	40.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-290, 478 upstream, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	56 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	268 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113, -3519 in gene, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-3446, 186 upstream, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-279 upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	383 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	536 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	64130, 151 downstream, in gene	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-2796 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	260 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2813 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2854 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	172 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25162, 282 downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1243 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	319, -5441 in gene, upstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	6030, 270 downstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	18440 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	393 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	239 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-278 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14651 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	221 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8584 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	539 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36752 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	564 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8317 upstream	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	627 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	562 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	447 in gene	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	151 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9340 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	453 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	42097 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	32701 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-572 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	280 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2387 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-267 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-749, 88723, 89843, 90 upstream, in gene, in g	1	22.750	4	1_Testes_ARID4B:
1_Testes_ARID4B:	16311, 15191, 14231 downstream, downstre	1	23.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-308 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	453 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6815, -7967 upstream, upstream	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	787 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	172 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7276 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29396, -12 downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	864 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-359 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	248 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-489 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	218 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	301 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	727 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	461 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	456 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	51627 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	248 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29045 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	47 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1459 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	701 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8868 upstream	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-4531 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	171 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-281 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	483 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -182, 490	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 659, -514	in gene, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	450 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-226 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9318 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	223 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-408 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	573 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	248 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1735 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	341 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 16520, 168	downstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-455 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8267 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	187 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1621 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	155 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	96 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-275 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 479, -401	in gene, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-317 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	198 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	487 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-692 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35279 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1968 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	458 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1303 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	231 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	325 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	296 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	295 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	116 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-544 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 426, 158986	in gene, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 352087, 428	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1016 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	591 in gene	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	541 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	300 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-612 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-506 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3236 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	355 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 167, 136727	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-132 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9904 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-146 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3439 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	155 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	361 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2336, 16, 4288	upstream, in gene, in g	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 28135, 1863	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 6, 566534	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31158 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	571 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-563 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10456 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	524 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	453 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	226 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-378 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -62, 562	upstream, in gene	1	16.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-307 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	382 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	341798 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	83 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	528 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	391 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	206 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 23310, 958	downstream, in gene	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-128 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	32 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	357 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-480 upstream	1	18.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	278 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	404 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6556 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	611 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24505 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	403 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 44098, -142	downstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	62 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 148154, 458	downstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	268 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-54 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	530 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1848, 400	in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 267, 1715	in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 403, 2659	in gene, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 70535, 183	in gene, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	351 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	105 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	250996 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	116 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 467, -333	in gene, upstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-604 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-41 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5719 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-445 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	666 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	94652 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	328 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-62 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11154, 114, -10382	downstream, in gene, u	1	37.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 9181, -1315	downstream, upstream	1	41.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 28867, 11795	downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 50450, 31794, 25202, 1	in gene, in gene, in gen	1	23.200	5	1_Testes_ARID4B:
1_Testes_ARID4B:	9497 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13776, 11035, -3520	downstream, downstre	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2235 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1662, 12770	upstream, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	541 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7046 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7230 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 222, 11678	in gene, downstream	1	25.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: 5818, -5638	downstream, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 63, 73679, 77439	in gene, downstream, c	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 23077, 19317, -203	in gene, in gene, upstre	1	25.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -3246, 514	upstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	27 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7414 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2897, -1231	in gene, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 12006, -3146	downstream, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	234 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-431 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3756 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -4289, 11263	upstream, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-2031 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	224 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9226 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-209 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 28, 11916	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 11405, -483	downstream, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1189 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 95514, 458	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	20660 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -5, 4283	upstream, downstream	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4135, 153	upstream, in gene	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 21224, -248	downstream, upstream	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	461 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8003 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 78883, 195	in gene, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	18 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 14120, 264	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-656 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9832 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 115, -4605	in gene, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -968, 3752	upstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 220, 8300	in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	31706 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 44417, -468	in gene, upstream	1	16.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	233 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12649 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 266, 22730	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-208 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 134, 14358	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 225, 13569	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	763 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7445 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35572 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2542, -4958	upstream, upstream	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 284, 2700	in gene, downstream	1	33.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: -2378, 38	upstream, in gene	1 33.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	89 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	329 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	970 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-2546 upstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 18, 9954	in gene, in gene	1 25.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 45671, -201	downstream, upstream	1 22.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-7 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-84 upstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-187 upstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 320, -3392	in gene, upstream	1 32.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 4833, 1121	downstream, in gene	1 32.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -3344, 368	upstream, in gene	1 32.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	472 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-634 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 30205, 5533, 605	in gene, in gene, in gen	1 20.000	3 1_Testes_ARID4B:
1_Testes_ARID4B:	581 in gene	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 5533, 605	in gene, in gene	1 21.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-9435 upstream	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1912 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-295 upstream	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	559 in gene	1 35.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	29369 downstream	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	123 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	517 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-613 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-402 upstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-92 upstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	8177 downstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	58 in gene	1 41.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	30144 downstream	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	3207 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 35839, 223	downstream, in gene	1 29.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 912, 31888	in gene, in gene	1 21.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-8891 upstream	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	8831 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	214 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	13780 downstream	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	23753 downstream	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	355 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	31023 downstream	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	206 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	57691 downstream	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -114, 19822	upstream, downstream	1 28.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	475 in gene	1 23.000	1 1_Testes_ARID4B:

1_Testes_ARID4B: 9035, 107	in gene, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7757 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13062 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-611 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22275 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	321 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26856 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	295 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17345 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	110 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8140 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	278 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	85 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 129949, 349	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1505 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	332 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	387 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	61 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	618 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	628 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19749 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	961 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1345 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81365 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4923, 859	in gene, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	385 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-650 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	322 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	366 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 15858, 16690	downstream, downstre	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 270, -562	in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -480, 352, 13195	upstream, in gene, dow	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	152 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33891 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6149 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 25033, 7508, 244	in gene, in gene, in gen	1	24.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 23194, 15930, 234	downstream, downstre	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	281 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	703 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	147 in gene	1	19.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	316 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	109 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	50 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-110 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 76755, 339	in gene, in gene	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	290 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	634 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9669 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2578, 318	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	635 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-110 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	158 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25741 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	91 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2806 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	578 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7749 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 33428, 228	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	84 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3596 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2143 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2302 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	73 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14645 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15174 downstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2293 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1392 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 25876, -23	downstream, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 39674, 13557, 8261, -7	downstream, in gene, in	1	21.750	4	1_Testes_ARID4B:
1_Testes_ARID4B:	9462 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4396, 460	in gene, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 23954, 20018, 178	downstream, downstream	1	31.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	310 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	61 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	701 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18819 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6064 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5692 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16848 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10137 downstream	1	16.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-9964 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	361 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	296 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	179 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103120 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2918 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	295 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	440 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	239 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-377 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-218 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 26423, 167	downstream, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	56875 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-682 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	130 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21073 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 176149, 182645, 18344	downstream, downstre	1	19.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 7567, 1071, 271	downstream, in gene, ii	1	19.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	13162 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	380 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	802 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3137 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 130, 17538	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 83, 9107	in gene, downstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8828, 196	upstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 627, 26931	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-3024 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2284 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 407, -8457	in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8378, 486	upstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5903 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11371 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9015, 10871	downstream, downstre	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 128, 1984	in gene, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 59, 2315	in gene, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7801 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7711 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11774 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	312 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	597 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15124 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8570 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4888 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8619 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	57384 downstream	1	19.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	316 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-107 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	210 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 135804, 284	downstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	15996 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-461 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	536 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	887 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 38184, 30909	in gene, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1591, 8866	in gene, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7405 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-193 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8988 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	139 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6388 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	205 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-257 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-244 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	268 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18555 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22228 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	341 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-347 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	121 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8738 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	198 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	428 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	992 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4111 downstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6370 downstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7553 downstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	278 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67956 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	188 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-279 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	501 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	621 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-995 upstream	1	14.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5312 upstream	1	14.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4054 upstream	1	32.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	366 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 69, 38693	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	115 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	223 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	259409 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 55862, 310	downstream, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7023 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1753 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	426 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7086 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8050 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7696 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5096 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12231 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 244, -7436	in gene, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6887, 793	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	234 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	237 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21781 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	300 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 539, 38587, 43707	in gene, downstream, c	1	26.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 926, 6046, 7198	in gene, in gene, in gen	1	24.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	1105 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3962 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 57504, 176	downstream, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-2651 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7085 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19796 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	491 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-432 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13126, 182	downstream, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-371 upstream	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 40656, 320	downstream, in gene	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4531 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	44558 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 5289, 4313, -1031	downstream, in gene, u	1	20.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -10312, -9336, -3992	upstream, upstream, u	1	20.667	3	1_Testes_ARID4B:

1_Testes_ARID4B:	513 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34612 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-899 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	786 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1014 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	186 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23228 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	474 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18623 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	326 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	376 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10275 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9423 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	254 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21884 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 787, 23539	in gene, downstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1231 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 20348, 636, -1252	downstream, in gene, u	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -1826, 62	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 18511, 16623, 911	downstream, downstre	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	473 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	425 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	112 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48102 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1635, 451	in gene, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	649 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	93 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	841 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-633 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2450 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19410 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	68 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-81 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	306930 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 370, -318	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	485 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -973, 1555	upstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	82 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	246 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	365 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7239 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14437 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233 in gene	1	37.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-258 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10986 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-233 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	336 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9202 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -216, 36680	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	364 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8523 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -422, -6470	upstream, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 155, 6203	in gene, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5913, 135	upstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 177, 66705	in gene, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	320 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-640 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	601 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	377 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	251 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	547275 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136810 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	139 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-452 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	318 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 718, 118478	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 492, -1188	in gene, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1522, 158	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-229 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	84 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	208 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-404 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	663 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-79 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6165 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8618 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	171 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	275 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-502 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48393 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1045 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 255, 33919	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	331 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	23.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	182 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-559 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	179 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-287 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	131 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	317 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	84233 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	311 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-192 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	116 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -214, 250	upstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3627 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	387 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16593 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 5213, 12861	downstream, downstre	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 253, 7901	in gene, downstream	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8089, 441	downstream, in gene	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7276, 372	upstream, in gene	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 373, -7926	in gene, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8430, 131	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-233 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	64298 downstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	457 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	144 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	448 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	123 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15505 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -508, -1052	upstream, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 75, 619	in gene, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-151 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-401 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	473 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	211 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-375 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	69 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	369 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	144 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-26 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 181, 61333	in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	118 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	332 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	523 in gene	1	35.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 1285, 165	in gene, in gene	1 25.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	215 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	253 in gene	1 40.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-457 upstream	1 40.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1571 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	74 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 63609, 425	downstream, in gene	1 33.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-221 upstream	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 76620, -212	downstream, upstream	1 30.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	271 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	32859 downstream	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1266 in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 177, 33713	in gene, downstream	1 27.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	400 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-196 upstream	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -656, 40944	upstream, downstream	1 25.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-40 upstream	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-130 upstream	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	40034 downstream	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	46 in gene	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	32 in gene	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	258 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	127314 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 311, 52007	in gene, downstream	1 23.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-300 upstream	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	7 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	269 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -254, 658	upstream, in gene	1 20.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-263 upstream	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-468 upstream	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	13941 downstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 32897, 161	in gene, in gene	1 29.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-8374 upstream	1 36.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	360 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	59 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 71465, 489	downstream, in gene	1 23.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 365, -883	in gene, upstream	1 22.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -508, 740	upstream, in gene	1 22.000	2 1_Testes_ARID4B:

1_Testes_ARID4B:	766 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	218 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	408 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-452 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	224 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-133 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	44 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	124 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	347 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-82 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	97 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	970 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-799 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	982 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4442 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28193 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6736 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-645 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	271 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6121 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23660 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-435 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	32011, 603, -101 downstream, in gene, u	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	97 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1186, 178 in gene, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-333, 675 upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	110 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-140 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17996 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5559 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	810 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1772 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	160, 27328 in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	85 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	121 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	122, -4246 in gene, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-407 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7987 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	258 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22751, -3809 downstream, upstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	256, 13493 in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	13738, 501 downstream, in gene	1	27.000	2	1_Testes_ARID4B:

1_Testes_ARID4B:	6000 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9407 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	487 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14973 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25613 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5509 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	309 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6967 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15356 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	429 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 68538, 218	downstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5819 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-123 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 36010, -3270	downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	555 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11937 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	273 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4844 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 50, 62802	in gene, downstream	1	46.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-335 upstream	1	69.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	69.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	503 in gene	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 8102, -9850	downstream, upstream	1	43.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-2908 upstream	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-139 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17537, 241	downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	8361 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	232 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6467 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-260 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11237 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2103 upstream	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-195 upstream	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-328 upstream	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	97 in gene	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-629 upstream	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4228 downstream	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7669 upstream	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8062 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -482, -9010	upstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 158, 8686	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8255, -273	downstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8288, 240	upstream, in gene	1	28.000	2	1_Testes_ARID4B:

1_Testes_ARID4B: -9668, -1140	upstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	41617 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	95 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 54702, 1358, -66	downstream, in gene, u	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -2214, -790	upstream, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	12792 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	158 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4239 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 400, 51504	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	212 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-266 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16460 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	598 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-412 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-521 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	494 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-619 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8982 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 451, 19971, 24163	in gene, downstream, c	1	25.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 5429, 9621, 13317	downstream, downstre	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 13, 4205, 7901, 13325	in gene, downstream, c	1	24.750	4	1_Testes_ARID4B:
1_Testes_ARID4B: 4305, 113, -3583, -9007	downstream, in gene, u	1	24.750	4	1_Testes_ARID4B:
1_Testes_ARID4B: 8071, 3879, 183, -5241	downstream, downstre	1	27.400	5	1_Testes_ARID4B:
1_Testes_ARID4B: 15795, 11603, 7907, 24	downstream, downstre	1	27.400	5	1_Testes_ARID4B:
1_Testes_ARID4B: 24571, 19147, 17227, 1	downstream, downstre	1	30.600	5	1_Testes_ARID4B:
1_Testes_ARID4B: 7378, 354, -6878	downstream, in gene, u	1	33.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -7116, 116	upstream, in gene	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 12474, 5242	downstream, downstre	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 44098, 226	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	22474 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-151 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 83513, 89	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5100 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	206 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3993 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 274, -8910	in gene, upstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8942, 242	upstream, in gene	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 107, 23867	in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	328 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	152 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	116 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	382 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3139 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15773 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-263 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6614 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -8588, 31892	upstream, downstream	1	26.000	2	1_Testes_ARID4B:

1_Testes_ARID4B:	165 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8904 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1326, 205, 9282	upstream, in gene, dow	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 10479, 8948, -129	downstream, downstre	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-164 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11626, 90	downstream, in gene	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	366 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16553 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 133, 53189	in gene, downstream	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1972 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	356 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34946 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-367 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	54 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 15190, 19638	downstream, downstre	1	39.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 249, 4697	in gene, downstream	1	39.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 22085, 17637, 693, -33	downstream, in gene, ii	1	33.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: 15031, 14007	downstream, downstre	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	576 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5612 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-145 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7725 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2077 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	722 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -230, 5434	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-10426 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-528 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	321 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-244 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3606 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-546 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5245 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	428 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	43 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-327 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 118, 65174	in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2487 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	199 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	74 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-607 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	837 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	214 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7907 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	752 in gene	1	34.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	117 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21730 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	704 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1940 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	286 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	836 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8745 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:85915, -261	in gene, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29585 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30605 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	329 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	226 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	162 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:33381, 245	downstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	359 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6949 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7026 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7142 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3681 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:362, -8038	in gene, upstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-629, 7771, 10907	upstream, downstream	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:-7360, 1040, 4176, 134	upstream, in gene, dow	1	25.250	4	1_Testes_ARID4B:
1_Testes_ARID4B:11669, 3269, 133, -914	downstream, downstre	1	25.250	4	1_Testes_ARID4B:
1_Testes_ARID4B:-10662, -2262, 874, 101	upstream, upstream, in	1	23.400	5	1_Testes_ARID4B:
1_Testes_ARID4B:-9542, -262, 1743, 1095	upstream, upstream, in	1	24.500	4	1_Testes_ARID4B:
1_Testes_ARID4B:10711, 8706, -505	downstream, downstre	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:-9086, 125, 14733	upstream, in gene, dow	1	31.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:10640, -3968	downstream, upstream	1	39.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	53.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-426 upstream	1	53.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	333 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:-56, -3000, -6344	upstream, upstream, u	1	30.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:356, -2588, -5932	downstream, upstream	1	30.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:3319, 375, -2969	downstream, in gene, u	1	30.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:6954, 4010, 666	downstream, downstre	1	30.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:-7076, -4132, -788	upstream, upstream, u	1	30.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-8413 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18823 downstream	1	66.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3855 in gene	1	66.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23129 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2382 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5047 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10438 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-450 upstream	1	20.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-2139 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1593 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	391 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-507 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13692, -388	downstream, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11922 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 3697, 4937	downstream, downstre	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -243, 997	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	215 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1248 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6982 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9892 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9345 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-260 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13492 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6392 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -345, -4857	upstream, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 296, 4808	in gene, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4610, -98, 9214	upstream, upstream, d	1	28.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 9960, 5448, -3864	downstream, downstre	1	28.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -8874, 438, 21190	upstream, in gene, dow	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 8509, 3805, 77	in gene, in gene, in gen	1	20.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 14929, 11201	downstream, downstre	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7304 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1237 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6252 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9607 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 711, -6041	in gene, upstream	1	42.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1492, 5260	upstream, downstream	1	42.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6642, 110, 21454	upstream, in gene, dow	1	34.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	867 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-280 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5810 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3275 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 12099, 13667	downstream, downstre	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2845, 1277	in gene, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6042, -4474, 25190	upstream, upstream, d	1	29.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	198 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5370 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1093, 14405	in gene, downstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 222, 17118	in gene, downstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	482 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13172 downstream	1	29.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 150, -9482	in gene, upstream	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8786 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10225, 593	downstream, in gene	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10355, -723	upstream, upstream	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	356 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	210 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-120 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	315 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	71 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-481 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 78797, 37773	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-147 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	555 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21446 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4797 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -10836, 8508, 17148	upstream, downstream	1	31.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 72, 8712	in gene, downstream	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9037, 397	downstream, in gene	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	4147 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6646 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	394 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-178 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-548 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1209 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-575 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 345, 45465	in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -275, -6259	upstream, upstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 240, 6224	in gene, downstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5845, 139	upstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 34706, 28722	downstream, downstre	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	771 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29831 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -6956, -8940	upstream, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2818, 834	in gene, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 74176, 320	downstream, in gene	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15960, -1192, -5480	downstream, upstream	1	31.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 88, 4376	in gene, downstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4002, 286	upstream, in gene	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6902 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	441 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9312 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	389 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9632 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 383, -641	in gene, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -605, 419	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	516 in gene	1	23.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	722 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88613 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17828, -28	downstream, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-76 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 41726, 58206	in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-510 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1286 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6762 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6311 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10278, 11862	downstream, downstre	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 83, 1667	in gene, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1603 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 45720, 376	in gene, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	668 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-928 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23576 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	289 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -731, 341	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	277 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	158 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1157 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3744 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	111 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 27325, 253, -4014	downstream, in gene, u	1	27.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -4032, 235	upstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4691 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7284 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2886 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15511 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	775 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3650 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	599 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 50944, 48021, 14496, 2	in gene, in gene, in gen	1	21.500	4	1_Testes_ARID4B:
1_Testes_ARID4B:	1815 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-761 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 362, 28538	in gene, downstream	1	47.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-3749 upstream	1	56.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	125 in gene	1	56.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13383, 231	downstream, in gene	1	47.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1471 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	44300 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-237 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 6010, 378	in gene, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7599 upstream	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-276 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1173, -667	in gene, upstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	692 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2989 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	427 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-17 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 899, -61	in gene, upstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 192, -9984	in gene, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -619, 549	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1307 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	243 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-245 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	652 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 24200, 243, -10189	downstream, in gene, u	1	26.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -10298, 134	upstream, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	982 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	342 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	207 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	310 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1281 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2876, 476	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9944, 7544	downstream, downstre	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 12197, 325	downstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-433 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	46601 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	734803 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	752 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	879 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-513 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 28568, 7608	downstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	373 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	633 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	327 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1096 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	208 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-589 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36735 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	428 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1137 in gene	1	34.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 731, 155	in gene, in gene	1 23.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	606 in gene	1 44.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-8810 upstream	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	65745 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	390 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 645, 101	in gene, in gene	1 23.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	349 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	93 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	749 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	919 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 1291, -565	in gene, upstream	1 50.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 279552, 277696	downstream, downstre	1 50.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	386 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-542 upstream	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	116 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -3204, -5348	upstream, upstream	1 20.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 766, 2910	in gene, in gene	1 20.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	446 in gene	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	791 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-553 upstream	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1176 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	257 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	347 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 17214, -226	downstream, upstream	1 30.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	154 in gene	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	418 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 51562, 394	in gene, in gene	1 19.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-277 upstream	1 39.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1 39.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 645, -651	in gene, upstream	1 24.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	984 in gene	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	4802 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1056 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-89 upstream	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	139 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	22133 downstream	1 16.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1 16.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	367 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 949, -267	in gene, upstream	1 21.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -372, 844	upstream, in gene	1 21.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	482 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	628 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 25591, -281	in gene, upstream	1 27.500	2 1_Testes_ARID4B:

1_Testes_ARID4B:	150 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	171 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 38, 1201	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	856 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-164 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	357 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	400 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7844 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	184 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-348 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3495 upstream	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2466 in gene	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24292 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-751 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	854 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	310 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	435 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	79409 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	339 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 88758, 374	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2073, 889	in gene, in gene	1	16.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9431, -8247	upstream, upstream	1	16.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	803 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	331 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-433 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	352 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-69 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	96 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3879 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-345 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	56117 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	110 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15129 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	231 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	234 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	79 in gene	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	908 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-73 upstream	1	34.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	135 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-275 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-12 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 212326, 6	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	364 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 424, 110376	in gene, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	215 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	311 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	215 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	474 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-288 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27400 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8051 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6141 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 678, 18310	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	208 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 201, 1481	in gene, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22543 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9342 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8185 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5722 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 594, 36562	in gene, downstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	53 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 102, 2102, 29169	in gene, in gene, in gen	1	22.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 128840, 8	in gene, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -74, 6390	upstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	145031 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	137871 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132641 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	126518 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	121576 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117117 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	112475 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99747 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	92142 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86422 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81270 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75822 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	70040 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	64882 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59788 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55197 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	51203 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	45175 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41396 in gene	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	566 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8103 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	339 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 19916, -548	downstream, upstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-23 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14195 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	97 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	244 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-510 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	471 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2387, -3091, -4296	upstream, upstream, u|	1	18.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	307 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6934 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-666 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	651 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-257 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-773 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	435 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1663 in gene	1	13.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	91 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	348 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	861 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-87 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-241 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	507 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	460 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	778 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-284 upstream	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	324 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34739 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4684 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 27905, 20369, 241	in gene, in gene, in gen	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 63742, 56206, 36078	downstream, downstre	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	260 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	263 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9214 upstream	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	106 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1583, 271	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -948, -2260	upstream, upstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-126 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-140 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	623 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	296 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	532 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6456 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	337 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1214 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	459 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	446 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 45392, 117088	in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	198 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	144 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	111 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-104 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-159 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	237 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24871 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	71 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-145 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1023 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-17 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-192 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-27 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8532 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	85 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	46.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-364 upstream	1	46.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -5196, 12916	upstream, downstream	1	43.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	44 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -869, 251, 1531, 4091,	upstream, in gene, in g	1	28.000	6	1_Testes_ARID4B:
1_Testes_ARID4B:	704 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 270, 239374, 325902	in gene, in gene, in gen	1	23.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	85 in gene	1	29.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-39 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 538, -326	in gene, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -712, 152	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6268 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	280 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2071 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	122 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-817 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	305 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9234 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1091 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4655, 271	in gene, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	626 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	781 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-386 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 642, -1854	in gene, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -2238, 258	upstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	431 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 171, 2107, 65755	in gene, in gene, downst	1	27.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	187 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 111012, 612	downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	675 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	259 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9127 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8937 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	73 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5910 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14509 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1241, -4249	upstream, upstream	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 114, 3122	in gene, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9315, 6307	downstream, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	776 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-779 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 184, 103096, 105000,	1 in gene, in gene, in gen	1	34.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: 2099, 195, -9869	in gene, in gene, upstre	1	31.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 12049, 10145, 81	downstream, downstre	1	31.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 83196, 73132	downstream, downstre	1	38.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	45353 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	51 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-948 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27795 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	420 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15002 downstream	1	37.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	182 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2396 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:562, 2162	in gene, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:16837, 15237	downstream, downstre	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8398 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:11592, 936	downstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	479 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22815 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8965 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-555 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	387 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:21503, 159	downstream, in gene	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	208 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13916 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:17478, 18486	downstream, downstre	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:564, -444	in gene, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-792, 216	upstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:9518, 12942	downstream, downstre	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:347, -3077	in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-3391, 33, 14273	upstream, in gene, dow	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:11282, 7858, -6382	downstream, downstre	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:190, 13278, 16350	in gene, downstream, c	1	32.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:13456, 368, -2704	downstream, in gene, u	1	32.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:-2487, 585	upstream, in gene	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:22521, 19449	downstream, downstre	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:511, -7873	in gene, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-8010, 374	upstream, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:239, 8015	in gene, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:7982, 206	downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-210 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2917 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:22284, 3196, 364, -187	in gene, in gene, in gen	1	25.000	4	1_Testes_ARID4B:
1_Testes_ARID4B:-3419, -587, 1653	upstream, upstream, in	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:-2963, -5139	upstream, upstream	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:386, -1790	in gene, upstream	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:2441, 265, -10391	downstream, in gene, u	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:11482, 9306, -1350, -48	downstream, downstre	1	26.750	4	1_Testes_ARID4B:
1_Testes_ARID4B:-9448, 1208, 4664	upstream, in gene, in g	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	1225 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:1551, -689	in gene, upstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	528 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2964 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2079 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:400, 15163	in gene, downstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:10775, -3988	downstream, upstream	1	35.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: -10912, 3851	upstream, downstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 532, 9748	in gene, downstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 6111, -3105	downstream, upstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15448, 6232, -7837	downstream, in gene, u	1	29.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -9083, 4986	upstream, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13936, -133	downstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -73	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 497	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9226	downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 213, -5984	in gene, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6041, 156	upstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 352	in gene	1	51.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 28935	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 413	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -5858	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 758	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9678	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 281	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -10376	upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17891	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -8444	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 691, -7517	in gene, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8626, 418, -8862	downstream, in gene, u	1	28.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -8031, 177, 9457	upstream, in gene, in g	1	28.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 18440, -4808, -5800	downstream, upstream	1	22.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -488, 504, 12248	upstream, in gene, dow	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 5901, 4909, -6835	downstream, downstre	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 13091, 12099, 355	downstream, downstre	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 4976	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 8741	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -8835	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 320, 100011, 149408	in gene, in gene, downs	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 108	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11440	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -90	upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -965	upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 73044, 628	downstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 338	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -315	upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -153, 823, 4519	upstream, in gene, in g	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 65817, 64841, 61145	downstream, downstre	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 9897	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -10015, 12465	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 10086	downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 113, 6529	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4766, 1650	upstream, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5472, 944, 15776	upstream, in gene, dow	1	29.000	3	1_Testes_ARID4B:

1_Testes_ARID4B: 97, 17297	in gene, downstream	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	3404 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12017 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -8414, -9534	upstream, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8410, -9530	upstream, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8281, 9401	downstream, downstre	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 4197, 5317	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -927, 193	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	9575 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-612 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 274, 12322	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	96 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13446 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	205 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18817 downstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23372 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	52 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	232 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	317 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67838 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	519 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-391 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 356, 30564	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	430 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-215 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-411 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1486 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-33 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3128 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8978 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	844 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22693 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	348 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3766 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 671, -913	in gene, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-221 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-232 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	881 in gene	1	36.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	1021 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	133 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	223 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	395 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-400 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 500, 42436	in gene, downstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-20 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	683 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-937 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	419 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	470 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7735 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	297 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	376 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -316, 134388	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 78675, -205	in gene, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	322 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-18 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 374, 104982	in gene, downstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	151 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1704 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-290 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	237 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1616 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-61 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-234 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	281 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7246 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	367 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 38, -826	in gene, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -800, 64	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-393 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	959 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-516 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	552 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 559, -6849	in gene, upstream	1	37.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7039, 369	upstream, in gene	1	37.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 33053, -627	in gene, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	397 in gene	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	375 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	398 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-576 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	79 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	765 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66198 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	353 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	495 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-156 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120910 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	366 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	356 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	641 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	258 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-416 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 48080, -592	downstream, upstream	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-35 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	579 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8454 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	347 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2459 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-31 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 60390, -154	in gene, upstream	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 37877, 405	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	28804 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -242, 78126	upstream, in gene	1	17.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	418 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16864 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 234, -9355	in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -350, 9239	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8968, 621	upstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1371, 725, 2581, 3749	upstream, in gene, in g	1	26.500	4	1_Testes_ARID4B:
1_Testes_ARID4B:	1412 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	321 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 628, -6460	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7307, 219	downstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 41035, 33947, -53	downstream, downstre	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	32459 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	312 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5302 upstream	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	91 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 197, 19685	in gene, downstream	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	361 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4565 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11861, -363	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-3870 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 685, -3491	in gene, upstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 207, 4383	in gene, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 22212, 18036, -2124	downstream, downstre	1	30.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	1096 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9380, -10300	downstream, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	6198 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7920 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -592, 1104	upstream, in gene	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	61 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-341 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	213 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	278 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	476 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7622 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -68, 74412	upstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	211179 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	105585 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-93 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10649 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	78 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2558 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2966, 19318	in gene, in gene	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	301 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	532 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-106 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11641 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10042 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	375 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	384 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-703 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1006, 2094	in gene, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-514 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	475 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8205 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4321 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	319 in gene	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-637 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	527 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	756 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 187, -757	in gene, upstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -242, 702	upstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-137 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	137 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	512 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	109 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 34597, 261	downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	348 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	352 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3570 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-393 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	424 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 32094, 238	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-340 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 51977, 73	in gene, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-65 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	183 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-409 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	537 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-144 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	483 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-82 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-96 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	126 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-88 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-402 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-194 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11021, 9677, -2771, -10	in gene, in gene, upstre	1	20.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: -529, 815, 13263	upstream, in gene, dow	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 7937, 353	downstream, in gene	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7141, 10299	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-721 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	318 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-270 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -4826, 13174, 17318	upstream, downstream	1	23.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 539, -3605	in gene, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8830, -4686	upstream, upstream	1	24.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	191 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-431 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-334 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -631, -1495	upstream, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -522, 342	upstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	576 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	390 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16081 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12714 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-38 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -897, 78527	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	458 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -202, -7498	upstream, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 177, 7473	in gene, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6982, 314, 9882	upstream, in gene, dow	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 9506, -62	downstream, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9554, 14	upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9108 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 186, -6886	in gene, upstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6881, 191	upstream, in gene	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 190, 7486	in gene, downstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7019, 277	upstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6985 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-390 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	286 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13380, -8044	downstream, upstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4489 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	739 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 29086, 158	downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	9390 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1058 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1754 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	300 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10294 downstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 163, 36275	in gene, downstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	302 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7739 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 28845, -8691	downstream, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-28 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19844 downstream	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	96 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-576 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	114 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 727, 11767	in gene, downstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 11060, 20	downstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8801, -2239	downstream, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 10137, -903	downstream, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-148 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6370 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8035 upstream	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-206 upstream	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41 in gene	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5682 downstream	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5573 upstream	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 22663, 615	downstream, in gene	1	42.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1173 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36675 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	937 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	473 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-75 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -561, 623	upstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 199, 1959	in gene, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1868 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	126 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16741 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	465 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-40 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1160 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 186, -5425	in gene, upstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5383, 228	upstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4472 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	481 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	473 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -182, 20490	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 264, 45768	in gene, downstream	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 79, 30415	in gene, downstream	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	264 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	207 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4788, 5332, 15764	in gene, in gene, downs	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-1006 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-129 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9 upstream	1	27.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	19919	downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-94	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	100	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-402	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1175, 183		in gene, in gene	1	40.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	11534	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4691	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8858	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1156	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 39, 14679		in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 14878, 238		downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	14261	downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 200, -10552		in gene, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 10483, -269		downstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10508, 244		upstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-195	upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 143505, 156017		in gene, downstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	162	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-277	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18015	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	217	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	308	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 184, -9917		in gene, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9890, 211, 18798		upstream, in gene, dow	1	27.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	107	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5931	downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	289	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19998	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7779	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36333	downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11247, 207		in gene, in gene	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3088, 288		in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3192, 392		downstream, downstre	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3276, 476		downstream, downstre	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8559, 36353		upstream, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	174	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17975	downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	869	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	250	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-633	upstream	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176	in gene	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1413	upstream	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 20168, 136		downstream, in gene	1	39.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	105284	downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	412	in gene	1	23.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	196 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 938, 234	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 420, -636	in gene, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	155 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3620 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	704 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 103430, 162065	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	488 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-321 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8007 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 20209, -9082	downstream, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	8918 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	296 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	207 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4078 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 381, -5507	in gene, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5900, -12	upstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 6747, 9883	downstream, downstre	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 75, -3061	in gene, upstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3083, 53	upstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 57214, -34	downstream, upstream	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 125290, 122	downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 35730, 98	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	99 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1074 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	419 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	101 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-234 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1399 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	442 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-546 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 252150, 198	downstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-379 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	404 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1229 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	332 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9091, 307	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	58058 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	738 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	124 in gene	1	28.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	622 in gene	1	46.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	270 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	332 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-988 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	416 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 82084, 516	in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	12463 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14806 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	93970 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1211 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-478 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	909 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	395 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	105 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10274 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-208 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13399 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	390 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23652 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11969 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	402 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	267 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	456 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-490 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	352 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-161 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	54 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	213 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	459 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1278, 254	in gene, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -264, 760	upstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	399 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1610 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39056 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-174 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18108 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 379, -9285	in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9270, 394	upstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6309 upstream	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	13146	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 813, 6285		in gene, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5059, 413		upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7313	upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7326	upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11463, 34871		in gene, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1478	in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2614	upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3636	downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	60	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	108	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	549	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	289	in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-383	upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9600	upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	64	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	223	in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	310	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	133	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21794	downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9370	upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10218	upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	347	in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-260	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11844	downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8820	downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1846	upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	631	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13587	downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1200	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-220	upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1926	upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4174	upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 559, 11263		in gene, downstream	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1996	upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4017	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 14918, 305		downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -370, 13262		upstream, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13634, 2		downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	211	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-307	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	135	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12204	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261	in gene	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-3092 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -550, 19450	upstream, downstream	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 262, 191622	in gene, downstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -429, 8979	upstream, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 10522, 1114	downstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	32395 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	186762 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	92 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3732 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24996 downstream	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	902 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1024 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	527 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-52 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	97 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-115 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 31555, 67	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	260 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	880 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	570 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 36568, 808, 200	downstream, in gene, i	1	32.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 13790, 13182	downstream, downstre	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-34 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	409 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	268 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	440 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5492 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -466, -4242, -6914	upstream, upstream, u	1	29.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 447, 4223, 6895	in gene, in gene, in gen	1	29.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	183 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19348 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4953 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	625 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6709 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4031 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-314 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2981 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	85 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1032, 88	in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	4066 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6452 downstream	1	18.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-554 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	85 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 151, 90935	in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	144 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	221 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13991, 32935, 39719	in gene, in gene, downs	1	23.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 7451, 667	downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	25142 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	462 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 16437, 357	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1041 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5567 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 170, 12586	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 257, 65745	in gene, downstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	47 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	148 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	40859 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6573 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7607 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	112 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3509 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3096 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-67 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	46693 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9112 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 196, 67684, 69668	in gene, downstream, c	1	23.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 415, 2399	in gene, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 17679, 15695	downstream, downstre	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 422, 17542	in gene, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	5299 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	340 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3959 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	93 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 119160, 408	downstream, in gene	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-480 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120539 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	586 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2029 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	109 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-166 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-272 upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	162 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7015 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	388 in gene	1	32.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	7148 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7472 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	294 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-377 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	162 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67965 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33032 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20214 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7007 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9923 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	327 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	496 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 214, -506	in gene, upstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	234 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-434 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5973 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	83 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	160 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-33 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	69 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39660 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-248 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 89, 22425	in gene, downstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	38 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	171 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38746 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2779 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	211 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	273132 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1722 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	257 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	356 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9062 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-249 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	213 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-21 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-362 upstream	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	12964	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	771	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	171	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	340	in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	79366	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	148	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-955	upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3466	upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9891	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1027, 69421		upstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	113562	downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-91	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	83	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 246, -5898		in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 235, -5909		in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13011, 6867		downstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	431	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-516	upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	416	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17388	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15220	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4582	upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	620	in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7556	upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	156	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	108	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	554	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	152	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	484	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	468	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10228	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	151	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	552	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-399	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1278	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-815	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1096, -808		in gene, upstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	590	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	629	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-163	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	895	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166	in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4534	upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-299	upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	43867	downstream	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	6031	downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	143	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103	in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-20	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-64	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3453, 179, 1107	upstream, in gene, in g	1	17.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	60	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2873	in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11631	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1180	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8761	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	256	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	76	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	417	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59824, 176	downstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	570	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	148	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	294	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	205	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10337	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12007, 24311	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	316	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	232	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16	in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	463	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11884	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1166	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1220	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1763	upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4147	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192, 7552	in gene, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	203, 36651, 38208	in gene, in gene, in gen	1	28.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	238	in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2130, 514	in gene, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	324	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21640	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	216, -10024	in gene, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	18590, 8350	downstream, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	52683	downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	215	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	468	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	168	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-174	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-155	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86003, 84979, 1875	in gene, in gene, in gen	1	23.000	3	1_Testes_ARID4B:

1_Testes_ARID4B:	843 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	338 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	116 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	412 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10731 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	268 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10119 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	424 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	458 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	128 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	58799 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	96 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37187 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	51280 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7421 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	301 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8230 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	243 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 46509, 253	downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	253 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-198 upstream	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	231 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 35856, 272	downstream, in gene	1	42.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-362 upstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 153, 115689	in gene, downstream	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	368 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-137 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10066 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10324 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	452 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-562 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 279, 107671	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-467 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-257 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 99, 23155	in gene, downstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-287 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5163 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	110 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23846 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 72289, 321	downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8111 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118 in gene	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-202 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 74813, 317	downstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	134 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 5849, 185	in gene, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 402, 6066	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	515 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1267, 101555	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	620 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 247, 86023	in gene, downstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	610 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -7870, 31458	upstream, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	172 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30007 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 16, 37280	in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	238 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-65 upstream	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	215 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	78 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	403 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	478 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3554 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2825 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14454 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-12 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	405 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12342 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 100, 11460	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	75 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2669 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-79 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6474 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	187 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18673 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10210, 11170	downstream, downstre	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4362, -5322	upstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 700, -260	in gene, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 23, 983	in gene, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 24812, 23852, 748	downstream, downstre	1	24.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	37.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	342 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	727 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	315 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	254 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 38895, 143	downstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	77 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	419 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-408 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12025 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 211, 100659	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	144 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	550 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	95 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-57 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2221 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	306 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-86 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 315, 11238	in gene, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -19, 861	upstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-59 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	248 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	845 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1448 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	436 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	598 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 23915, 11	downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-254 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	675 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15060 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	439 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	133 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20414 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 139, 21851	in gene, downstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	56477 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-523 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 44256, 46368	in gene, in gene	1	37.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	112 in gene	1	36.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-6006 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	808 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-870 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:1286, -426	in gene, upstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-1493, 219	upstream, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-59, 17269	upstream, downstream	1	38.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-227 upstream	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:154, 52250	in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	28 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:54243, 131	downstream, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1608 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6495 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:8367, -220	in gene, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-10914, -2327	upstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	612 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	360 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8447 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	401 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15045 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	45684 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	477 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:226, -382	in gene, upstream	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1194 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:-2853, 23419	upstream, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3376 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10605 downstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:344, -8904	in gene, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-9014, 234, 13514	upstream, in gene, dow	1	23.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:13380, 100	downstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	4618 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-232 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	275 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	857 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4376 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20021 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1417 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	44900 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	39.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	442 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2867 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-812 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	310 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-458 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-313 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	257 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	212 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	402 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	213 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	395 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 458, 19034	in gene, downstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	102 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	382 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-67 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	90611 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	987 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	583 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	53051 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19250 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41533 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-778 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	306 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	272 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -716, 676	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	54899 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	561 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-935 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9706 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	417 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49331 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-105 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7322 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	679 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	387 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1134, 110	in gene, in gene	1	29.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	879 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	101 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 111, -566	in gene, upstream	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -670, 7	upstream, in gene	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	579 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	68 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-243 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-311 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	124 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 403157, 85	in gene, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1966 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	397 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1047 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	412 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-349 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	238 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	324 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-525 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-962 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28466 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	935 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1350 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-383 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -7177, -84	upstream, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	305 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	355 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	602980 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	430398 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	398 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-614 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 212, 39396	in gene, downstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4588 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4718 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	374 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	116 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4257 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-310 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	313 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	223 in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-736 upstream	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	512 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-305 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	919 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	3871 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-537 upstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	140 in gene	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-3670 upstream	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1841 upstream	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-306 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1044 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	246 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1503 upstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	463 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	399 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	10600 downstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	51 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-170 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	731 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	484 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	3959 in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -7233, 12447	upstream, downstream	1 22.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 124, 15324	in gene, downstream	1 27.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	63 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-3776 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	29 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-3418 upstream	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	421 in gene	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	11756 downstream	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	417 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	15240 downstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 20772, 308	in gene, in gene	1 23.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: -683, 437, 4234	upstream, in gene, in g	1 24.000	3 1_Testes_ARID4B:
1_Testes_ARID4B: 4670, 3550, -247	downstream, downstre	1 24.000	3 1_Testes_ARID4B:
1_Testes_ARID4B: 16567, 15447, 11650, -	downstream, downstre	1 25.000	4 1_Testes_ARID4B:
1_Testes_ARID4B:	-1281 upstream	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	492 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	5009 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	238 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-566 upstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	124908 downstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	2643 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	11247 downstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 12955, 18779	downstream, downstre	1 22.000	2 1_Testes_ARID4B:

1_Testes_ARID4B: 275, 6099	in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5465, 359	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	11152 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1107 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	344 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3674 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 14055, -41	downstream, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1151 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6289 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	188 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12170 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	835 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	504 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10282 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11913 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-373 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6240 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	572 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 232, -8616, -9320	in gene, upstream, upst	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -9209, -361, 343	upstream, upstream, in	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	438 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	282 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22020 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9820 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7189 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11463 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-790 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	423 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	44132 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14743 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	69 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18499, 387	downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	5274 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5379 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1236 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9146 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	366 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49153 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	238 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	341 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 394, -4150	in gene, upstream	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4578, -34	upstream, upstream	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3030, 5690, 8554	upstream, in gene, in g	1	23.333	3	1_Testes_ARID4B:

1_Testes_ARID4B:	45014 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	69 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-172 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12501 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8168 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-227 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	92 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41858 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7211 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	639 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	631 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10650 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-321 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	62295 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	372 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	556 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-833 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7105 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1739 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34675 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5880 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	451 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9776 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26413 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12016 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-433 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	46 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120995 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	254 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	143, 45146, 45775 in gene, in gene, in gen	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	94 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-214 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	716 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-921 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	390 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	451 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	581 in gene	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	36 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28706 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1091 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	395 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18507, 203	downstream, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	6055 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-333 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	54652 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 824, 54360	in gene, downstream	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-164 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	370 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	694 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	336 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	212 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8096 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 29411, 483	downstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 46425, -679	downstream, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	678 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	280 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	475 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	323 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	337 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-403 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	446 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2896 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	214 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1102 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	58018 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	341 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-29 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6412 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16784 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8098 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19778 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 199, 62770	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	135 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	376 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1160 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	423 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	357 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	342 in gene	1	47.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-306 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	263 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1292 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	304 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19579 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	0 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	341 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 49944, 472	downstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	371 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	258 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 104, 29144	in gene, downstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 322, 18983	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	306 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	115 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1034 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-289 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	343 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	51 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	275 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8084 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7949 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7816 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7688 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7579 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-177 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	436 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14002 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1502 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8567 upstream	1	57.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	324 in gene	1	57.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5667 upstream	1	57.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1081 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	468 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-377 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	112 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-465 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	125 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -87, -551	upstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7, 457	upstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	21 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	624 in gene	1	17.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-18 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-690 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	601 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2475 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1713 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1483 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	525 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	607 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	542 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-636 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	308 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-799 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 3255, 231	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	520 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-731 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	529 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-856 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	284 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 166, 13766	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	112 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	866 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-487 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	404 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21183 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-325 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 87, -6265	in gene, upstream	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6158, 194, 49234	upstream, in gene, dow	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-298 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	74 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	313 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	127 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	374 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-223 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	128 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-507 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	378 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	64 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	100 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	234 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	396 in gene	1	18.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	382 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	547 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	87 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-218 upstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 63123, 243	downstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	64815 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	114 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-238 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	559 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	58 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-299 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-814 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	232 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2677 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-12 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	321 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7435 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	291 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	387 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	92 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 615, 2215	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-491 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4117 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41967 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	321 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 842, 48138	in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	187 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-289 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	641 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	371 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-200 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	126 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-142 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	366 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-12 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	85 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9704 downstream	1	30.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-307 upstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-197 upstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	349 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	318 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3542 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22498 downstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	108 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	405 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	144 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-444 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5363 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19621 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1159 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1426 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-147 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9499 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17478 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	467 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4723 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	667 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10461 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	264 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	115049 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 226, 43554, 44754	in gene, in gene, in gen	1	18.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 3598, 2398	downstream, downstre	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 12366, 16744	downstream, downstre	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3996, -382	in gene, upstream	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 38813, 311	downstream, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-362 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 16592, -80	downstream, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5550 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8560 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 385, 24369	in gene, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-2752 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12555 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7612 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	381 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11793 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	539 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6152 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1488 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3618 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	28.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	109 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 30892, 348, -6372	downstream, in gene, u	1	25.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -758, 5962	upstream, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6561, 159	upstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23280 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	155 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	395 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	796 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-309 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	273 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -525, 371	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	18031 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28784 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-329 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	228 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-409 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	271 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-565 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2049, -319	in gene, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8208, -5840	upstream, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	238 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	455 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	302 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-316 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	87 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191075 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17, 83068	in gene, downstream	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	357 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	243 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1485 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-601 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	518 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2203 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	123 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-121 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 63003, 219	downstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	517 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1720, 973	in gene, in gene	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8087 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	231 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	276 in gene	1	28.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	45125	downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	467	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	494	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	95	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5046	downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5401	upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140521	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-20, 101756	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1007	in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	818	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-128	upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1079	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1404	upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9647	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	144123	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	738	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	956	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	144	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-106	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	302, -594	in gene, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	409	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103	in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36246, 134	downstream, in gene	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	405, 108693	in gene, downstream	1	49.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	119	in gene	1	56.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	220	in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1247	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	220	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-485	upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28304	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-105	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	156	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	46607, 95	downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	9502	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	92	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2414	upstream	1	59.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1438	in gene	1	59.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196617	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	78	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	242	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-194	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-188	upstream	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	225 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	537 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	386 in gene	1	14.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9133 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2377 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	151192 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	57 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -517, -5445	upstream, upstream	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 351, 5279	in gene, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	388 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	509 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -558, 818	upstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-546 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	282 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	53669 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	248 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	246 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1325 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19438 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	386 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 83554, 130	downstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	40306 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-196 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	60767 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13354 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	160 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	557 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 237, -8483	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7756, -964	downstream, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10291, -19	upstream, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	215 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	930 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1321, 16455	upstream, downstream	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	269 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	284 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	74 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2727 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-217 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	462 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1202 upstream	1	30.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	807 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5640 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-262 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1913 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	687 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24410 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	294 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118086 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1113 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 80, 76731	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-217 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3267 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2179 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4960 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6970 downstream	1	75.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	260 in gene	1	75.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1298 upstream	1	75.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-24 upstream	1	75.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 26752, 166	downstream, in gene	1	46.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	12275 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-62 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	518 in gene	1	46.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3788 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4739 downstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27735 downstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	130 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	45259 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	901 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-241 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9091 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20311 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5573 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22633 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-396 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 205, 12077	in gene, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-10449 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 897, 17	in gene, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 26907, 26027, 235	downstream, downstre	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 95233, 65, -6623	downstream, in gene, u	1	31.333	3	1_Testes_ARID4B:

1_Testes_ARID4B: 6964, 276	downstream, in gene	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7228, -540	upstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -655, -1423	upstream, upstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -264, 504	upstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	21634 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	125 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	349 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6135 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26709 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	143 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	445 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	139 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 272723, 19048, -2520	in gene, in gene, upstre	1	27.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8598 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 203, 12523	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	103 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1010 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7470 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 325, 14149	in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-13 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	60426 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -245, 47755	upstream, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	426 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-455 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11867 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	389 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-520 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1111 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22477 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	208 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39483 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1395, 7539	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5909, 235, 34859, 449	upstream, in gene, in g	1	27.000	4	1_Testes_ARID4B:
1_Testes_ARID4B: -9187, 941	upstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	14397 downstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	134 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6117 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34678 downstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	231 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3727 downstream	1	41.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-2127 upstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	134 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:39013, -219	downstream, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-126 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	717 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:17877, -203	downstream, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	77 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	923 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:-727, 345, 67033, 7476	upstream, in gene, in g	1	21.000	4	1_Testes_ARID4B:
1_Testes_ARID4B:-7480, 248	upstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	73490 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	276 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-801 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	513 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-470 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-858 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28838 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-232 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13377 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	287 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24358 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	383 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	321 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39691 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	266 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5354 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:-4772, -6660	upstream, upstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-1483, 405	upstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:155025, 153137, 26801	downstream, downstre	1	25.000	4	1_Testes_ARID4B:
1_Testes_ARID4B:	1965 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	256 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8589 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49549 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:16342, 438	downstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	8374 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7214 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7667 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:77134, 222	downstream, in gene	1	25.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	177 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	216 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 219, -2037	in gene, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -2119, 137	upstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	93290 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	210 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24835 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	344 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38065 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 654, 27150, 50766, 543	in gene, in gene, in gen	1	26.000	4	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 446, 10158	in gene, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	12111 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	94 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	171 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7534 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 327, 9831	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9301, 203	upstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-185 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 80779, 763, -768	downstream, in gene, u	1	33.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	55 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	32928 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7041 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 151, -5833	in gene, upstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1677, 7661	in gene, downstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8666, 2682	downstream, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	70 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	224 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	635 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17414 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-415 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 196, -9212	in gene, upstream	1	40.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8905, 503, 7543	upstream, in gene, dow	1	35.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -6852, 188	upstream, in gene	1	41.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	152 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	270 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	612 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25460 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 138, 25834	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 107, 17371, 25931	in gene, downstream, c	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -1341, 7219	upstream, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8770, 210	downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	14860 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	369 in gene	1	19.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	187 in gene	1	51.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4619 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	352 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 287, 863	in gene, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	14755 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	799 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	333 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7075 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 189, 1757	in gene, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	70675 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 138, 64522	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	281 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 195, 51411	in gene, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 80, 223952	in gene, downstream	1	40.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	781 in gene	1	46.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	730 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	148 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6072 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-214 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 37929, 297	downstream, in gene	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-244 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	44620 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17745, 257	in gene, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 18057, 233	downstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-10233 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 532, -8460	in gene, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8658, 334	upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 187, 7323	in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8615 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	47 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2213, 805, -7835	in gene, in gene, upstre	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 203, 1611, 10251	in gene, downstream, c	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -9778, -8370, 270	upstream, upstream, in	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	6340 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7959 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2758 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 37523, 563	in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	171 in gene	1	19.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-140 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2828 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	152 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-74 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 50757, 469	in gene, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	618 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	869 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4352 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7133 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4552 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	433 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	160 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	42794 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 110106, 115450	downstream, downstre	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 261, 5605, 33349	in gene, in gene, downst	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	263 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	436 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	68 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4409 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	96 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	211 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 141202, 338	downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	407 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-106 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-85 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	347 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	382 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	479 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	337 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	288020 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-155 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11553 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13473, 225	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 804040, 753448, 25703	downstream, in gene, in	1	24.000	5	1_Testes_ARID4B:
1_Testes_ARID4B:	303 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -8, 55016	upstream, downstream	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 250, -5862, -6950	in gene, upstream, upst	1	34.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 7443, 1331, 243	downstream, in gene, in	1	34.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 373, 18533	in gene, downstream	1	38.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 18407, 247	downstream, in gene	1	38.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 11066, -870	downstream, upstream	1	39.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	33 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29489 downstream	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	9865 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 25999, 20847, 13071, 4	in gene, in gene, in gen	1	19.250	4	1_Testes_ARID4B:
1_Testes_ARID4B:	5404 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6707 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-324 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9030 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 8270, -6034	downstream, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	482 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 20929, -7359	downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	782 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7156 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	395 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17449, 233	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -713, 36663	upstream, downstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	421 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13820 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18044, 18652	downstream, downstre	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 268, -340	in gene, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9689, 407	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1241 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	735 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1282 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 389, 3749	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -2821, 539	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-423 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 143, 64303	in gene, downstream	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 71655, 583	downstream, in gene	1	40.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9730 upstream	1	58.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	111247 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	959 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 28155, 29979	downstream, downstre	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 360, -1464	in gene, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 16230, 14406, 454	downstream, in gene, in	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 527, 10858	in gene, downstream	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9946, 385	upstream, in gene	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	186 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-280 upstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13649, -9855	downstream, upstream	1	35.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1458 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6756 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 94, 9054	in gene, downstream	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8777, 183, 19159	upstream, in gene, dow	1	32.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -8032, 8224	upstream, downstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 492, 12076, 22156	in gene, downstream, c	1	27.000	3	1_Testes_ARID4B:

1_Testes_ARID4B: 3865, -6215	in gene, upstream	1 24.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 9952, -128	downstream, upstream	1 24.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: -10079, 1, 22497	upstream, in gene, dow	1 28.333	3 1_Testes_ARID4B:
1_Testes_ARID4B:	-302 upstream	1 36.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1 36.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	9 in gene	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	294 in gene	1 49.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-530 upstream	1 49.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 40264, 288	downstream, in gene	1 20.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	3618 downstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-6084 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-6370 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-55 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1098 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -2760, -1656, -472	upstream, upstream, u|	1 21.667	3 1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-221 upstream	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	198 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	473 in gene	1 35.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1096 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	69 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	284 in gene	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-418 upstream	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	307 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-6 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	287 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	656 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-134 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	338 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	378 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	253 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-809 upstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 442, 1475034	in gene, in gene	1 18.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	302 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	531 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	533 in gene	1 39.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 125, -1747	in gene, upstream	1 28.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: -243, 1629	upstream, in gene	1 28.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-271 upstream	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	187 in gene	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-9775 upstream	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1404 upstream	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-4256 upstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	155 in gene	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 293, 64498	in gene, downstream	1 24.000	2 1_Testes_ARID4B:

1_Testes_ARID4B:	125 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3268 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23421 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3903 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5916 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7277 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4666 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 335, 22543	in gene, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 123, -9365	in gene, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 4561, -4927	downstream, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9406, 82, 15874	upstream, in gene, dow	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -5282, 10510	upstream, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15170, -622	downstream, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	520 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	121 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-302 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-31 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 703, -609	in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1717, -405	upstream, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	46 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2744 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-437 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-20 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1088 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-197 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-305 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	390 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-192 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-508 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	246 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 173, 19133	in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -84, 55036	upstream, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-948 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 19084, 25548	downstream, downstre	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -148, -6612	upstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5850, 614	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7495 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21884 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	399 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15746 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7293 upstream	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	7128	downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1871	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 20113, 385		downstream, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6, 618		upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-10170	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4598	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	165	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1869	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 83546, -118		downstream, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-322	upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -77, -3373		upstream, upstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3224, 72		upstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	221	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 68630, 118		downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9609	upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -384, 576		upstream, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	364	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18	in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5544	downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5859	upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1423	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	208	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	210	in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	254	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1392	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	172072	downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1012	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -10197, 38971		upstream, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	90	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	187	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	47896	downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -34, 63086		upstream, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	314	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23348	downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	147156	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7019	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	248	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3556	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2915	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	62	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13755	downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8052	upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 5126, 454		in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	23020	in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	135688	downstream	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	249 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18687 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	413 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-716 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 102354, 55794	downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	375 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	578 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 34473, 57	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	304 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1710 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	345 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3676 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	459 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-87 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	570 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	283 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-69 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1626 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	265 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-187 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 114, 26978	in gene, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	123 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 119149, 77	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-308 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	91 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	532 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-409 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26161 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33981 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1361 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1259 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	257 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1406, 649	in gene, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -600, 157	upstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-10238 upstream	1	27.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	197 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-46 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	71 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	42853 downstream	1	58.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	58.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-233 upstream	1	58.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	307 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	607 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	289 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	276 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-109 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	757 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 238791, 231	downstream, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	653 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	243 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	216 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	426 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11148 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-261 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-250 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	162 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 336261, 101, -3963	downstream, in gene, u	1	42.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -3834, 230	upstream, in gene	1	43.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	418 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 42991, 46095	downstream, downstre	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1021, 4125	in gene, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	124 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	111 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-72 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-498 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26727 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-159 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2914 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	316 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23469 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	179 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6901 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	413 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1753 upstream	1	23.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	182 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 77, 10701	in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	75 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	89 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	982 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	468 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1280 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	428 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	366 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2665 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	223 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 70632, -56	downstream, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	574 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	143 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	479 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-502 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	43 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 550, -410	in gene, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	669 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-626 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	471 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-289 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-302 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-200 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	56 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	287 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 260, -572	in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1146, 90	in gene, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1143, -87	upstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-138 upstream	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-634 upstream	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13471, 255	downstream, in gene	1	37.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-263 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22439 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	671 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-130 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	237 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	479 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	145 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -273, 735, 32191	upstream, in gene, in g	1	20.667	3	1_Testes_ARID4B:

1_Testes_ARID4B:	286 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-321 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	478 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	699 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6107 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	160 in gene	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	86389 downstream	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3234 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-178 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25870 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	747 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 7103, 8063	downstream, downstre	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1125, 165	in gene, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3020, -2060	upstream, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	54499 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16472 downstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9520 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 84887, 61783, 535	in gene, in gene, in gen	1	25.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-250 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	221 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-453 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10119 downstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	40047 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 261, 99461	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	245 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -774, 298	upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	20819 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -67, 31139	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	95 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6109 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36214 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 20241, 97, -1207	in gene, in gene, upstre	1	23.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 4452, 5756	downstream, downstre	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1260, 44	upstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	530 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 27315, 30195	downstream, downstre	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 528, -2352	in gene, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -2787, 93	upstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 313, -455	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -415, 353	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	59 in gene	1	28.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-338 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-667 upstream	1	51.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 84, -1788	in gene, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1575, -297	downstream, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1732, 140, 38684	upstream, in gene, dow	1	30.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -7186, -5314	upstream, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 152, -9352	in gene, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9644, 140	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -580, 124	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 15775, 159	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 23360, -459	downstream, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	27486 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -123, 2213	upstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 37167, 34831, 511	downstream, downstre	1	30.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -7318, 21066	upstream, downstream	1	38.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 231, 13815	in gene, downstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13753, 169, -7399	downstream, in gene, u	1	30.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -255, 7313	upstream, downstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7963, 395	downstream, in gene	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1067 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5886 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 146, 47506, 52930	in gene, in gene, downs	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -5259, 165	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5631, 66321	upstream, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	232 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-403 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5038 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 345, -4279	in gene, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4481, 143, 121007	upstream, in gene, in g	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	70 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -98, 38430	upstream, downstream	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 391, 31623	in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	95 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1168 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	129 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7816 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-591 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 16725, 1429	in gene, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	229 in gene	1	21.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	267 in gene	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	421 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	250 in gene	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-485 upstream	1 43.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	559 in gene	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	432 in gene	1 35.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	25546 downstream	1 35.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-450 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	374 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1255 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 8097, 241, -855	in gene, in gene, upstre	1 24.333	3 1_Testes_ARID4B:
1_Testes_ARID4B:	3900 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 194897, -2511	downstream, upstream	1 20.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	665 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 354, 29298	in gene, in gene	1 21.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-557 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 339, 18067	in gene, downstream	1 27.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: 17211, -517	downstream, upstream	1 27.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -28, 19524	upstream, downstream	1 25.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	84 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	705 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	562 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 42491, 299	downstream, in gene	1 36.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	52 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 88948, 1364	in gene, in gene	1 19.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-1626 upstream	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-2584 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	382 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	269 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -6331, -9163, -9611	upstream, upstream, u	1 27.000	3 1_Testes_ARID4B:
1_Testes_ARID4B: 708, 3540, 3988, 5140	in gene, downstream, c	1 25.500	4 1_Testes_ARID4B:
1_Testes_ARID4B: -3233, -401, 47, 1199	upstream, upstream, in	1 25.500	4 1_Testes_ARID4B:
1_Testes_ARID4B:	226 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1024 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	100 in gene	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	48951 downstream	1 37.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	67 in gene	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	228 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-542 upstream	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	53 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	68 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 3934, 8910	downstream, downstre	1 25.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 164, 5140	in gene, downstream	1 25.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 100146, 95170	downstream, in gene	1 25.500	2 1_Testes_ARID4B:

1_Testes_ARID4B:	78339	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1956, 868		in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	602	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 623, -9921		in gene, upstream	1	39.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10023, 521, 12153		upstream, in gene, dow	1	34.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	80	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30499	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	45	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-529	upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 123043, 121070, 98254		in gene, in gene, in gen	1	24.000	5	1_Testes_ARID4B:
1_Testes_ARID4B:	198	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	497	in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-370	upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	208	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-412	upstream	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	490	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7089	upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	72	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9475	upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-299	upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7009	upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7989	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	398	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8651	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	50805	downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2880	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-195	upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1003895, 583, -729		in gene, in gene, upstre	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-36	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	143	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7414	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	495	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	338	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8075	downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	224	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	334	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11766	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18380	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	218	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	242	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13818	downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	277	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 209, 18993		in gene, downstream	1	24.000	2	1_Testes_ARID4B:

1_Testes_ARID4B: 332, 19372	in gene, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 421, 63461	in gene, downstream	1	39.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	263 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	594 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55778 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	54930 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 34241, -303	downstream, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	39 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 12935, 887	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 323415, 487	downstream, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	211 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	554 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	309 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4105 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2217 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13548 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5835 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-557 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13562, -6310, -7254	downstream, upstream	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 257, -687	in gene, upstream	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 19598, 18654, -242	downstream, in gene, u	1	20.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	35 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8515 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -7936, 6128, 10613, 12	upstream, in gene, dow	1	23.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: 8221, 3736, 1389	downstream, in gene, in	1	23.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-4266 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	221 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	221 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1410, -7362	upstream, upstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4561, 1391	upstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 666, 6330	in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7117, 1453	downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8218, -2554	upstream, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	148 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10050 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	710 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5748 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5542 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5334 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-869 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16034 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8230 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	340 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-333 upstream	1	22.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	9042	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16225	downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	60	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-521	upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1753, 169, -951	in gene, in gene, upstre	1	26.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	81	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227	in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4087	in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103830, 88438, 79702	downstream, in gene, in	1	25.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-2351	upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5601, 3135	upstream, downstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8571, 165	upstream, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	331	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23529	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3382	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	112, 21456	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1291	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	347	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	137	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10426	downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10450	upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	147, 14819	in gene, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-8207, 6465	upstream, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	26871, 279	in gene, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	250	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2895	upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	383	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	359, 62663	in gene, downstream	1	39.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	229	in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	229	in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2251, 75, -3045, -4394	in gene, in gene, upstre	1	30.500	4	1_Testes_ARID4B:
1_Testes_ARID4B:	-26, -11194	upstream, upstream	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	11460, 292	downstream, in gene	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	445	in gene	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18264	downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16550	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4468	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	352	in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14230, 166	downstream, in gene	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-236	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	84	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	345	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	97	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	133	in gene	1	20.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	35889 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-20 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11147 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	102528 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-124 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	273 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7094 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-120 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	88550 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -61, 31011	upstream, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	624 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-525 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 27232, -176	downstream, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	56 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27441 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	285 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2639 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9615 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-603 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14991 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-388 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-581 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11684 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-276 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	500 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	384 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-489 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-115 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7874 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	219 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5506 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9751 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	431 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 460, -8788	in gene, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8675, 573	upstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	449 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-498 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	392 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	405 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5767 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	404 in gene	1	19.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	181 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	359 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	872 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	251 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-268 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	115 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	105 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-637 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	285 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1396 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-239 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 352084, 353364	in gene, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -685, -1965	upstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5852 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9008 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34690 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	463 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	383 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 679, 33095	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	700 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99643 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4638 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3155 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12494 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	654 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-187 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	289 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	126 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	71036 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	464 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	272 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	324 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	101 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	107 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	251 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	52556 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	155 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	567 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 478, -386	in gene, upstream	1	28.000	2	1_Testes_ARID4B:

1_Testes_ARID4B:	557 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-681 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	341 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3796 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	401 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	394 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	439 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	348 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23092 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6679 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-148 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	662 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5335 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	179 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27389 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10190 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 22802, 498	in gene, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7017, 225	in gene, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9421, -2629	upstream, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 4443, 8187	downstream, downstre	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5, 3749, 8565	in gene, in gene, downst	1	23.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1194, -438, -3078	in gene, upstream, upst	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	436 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	458 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29997 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-50 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-746 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	690 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-147 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-60 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6367 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7210 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9259, -8597	in gene, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2684, 20540	in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	779 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4816 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11480, -6376	downstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3091, -7251	upstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5706, 1546, -7318	downstream, in gene, u	1	20.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 8501, 4341, -4523	downstream, downstre	1	20.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 19190, 15030, 6166	downstream, downstre	1	20.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	11079 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	76 in gene	1	30.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	207 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	665 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-28 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	365 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2344 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	361 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	68 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	244 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	103 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1956 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	421 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	133 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24990 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	115 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	127 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	681 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	669 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	605 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	586 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	402 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	511 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	537 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2197, 14779	upstream, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10363, 6613	upstream, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	285 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18372, 68	downstream, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	10267 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24963 downstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	262 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	613 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-164 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1115, -341	in gene, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	524 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	566 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 16464, 20496	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3883, -149	downstream, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3965, 67	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7156, -3124, 13532	upstream, upstream, d	1	22.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-1151 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7014 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 297, 14356	in gene, downstream	1	25.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: -7295, 6764	upstream, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 366, 6494	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5589, -539	downstream, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9157, 3029	downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1760, 26413	in gene, downstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5842, -9365	upstream, upstream	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5817, 9340	in gene, downstream	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3703, -180	upstream, upstream	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 164, -8476	in gene, upstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8599, 41	upstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	16916 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 75278, 78	in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -155, 15077	upstream, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 10004, 6292	in gene, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	217 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	46 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 41258, 170	downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	2997 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8274 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	184 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18726, -8986	in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1670 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11801 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	397 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 221, 5869	in gene, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5636, 12	upstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 126, -7394	in gene, upstream	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7195, 325	upstream, in gene	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-709 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-450 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	418 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	60624 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9292 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	507 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	355 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27335 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26300 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	264 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	50 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-251 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-123 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	340 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3684 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	213 in gene	1	38.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	789 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	36631 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	426 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	286 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 93899, 73163	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-134 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 378, 2746	in gene, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	59 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	277 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-77 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 30164, 244	downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	26762 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 129881, 473	in gene, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	131 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	73 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-674 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	46 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30890 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	127 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 45, 46013	in gene, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	431 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	400 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 29961, 30793	downstream, downstre	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 956, 124	in gene, in gene	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1351, -519	upstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	24701 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-189 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16864 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7029 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	267 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11297 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -817, 11151	upstream, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	7098 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -194, 73342	upstream, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4309 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 252, 19420	in gene, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	171 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59069 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37 in gene	1	32.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	123 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34019 downstream	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-473 upstream	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29836 downstream	1	61.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	509 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	206 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2690 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	74069 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	148 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7068 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-231 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35858 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21017 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	139 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 65211, 64235	in gene, in gene	1	40.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -532, 444	upstream, in gene	1	40.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-234 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	767 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3577 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-65 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-95 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	365 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	131 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	83 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	228 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21070 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 112, 49376	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-302 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5505 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5910 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 26229, -7147, -9291	downstream, upstream	1	24.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -4777, -6921	upstream, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4570, -6714	upstream, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 10631, 8487	in gene, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 190, 4659	in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5165, 696	downstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 20316, 15847	downstream, downstre	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5511 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	730 in gene	1	27.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 353, 14689	in gene, downstream	1 30.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	265 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	528 in gene	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 61, 35485	in gene, downstream	1 33.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-235 upstream	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 13863, 20151	in gene, downstream	1 22.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 6479, 191	downstream, in gene	1 22.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 32482, 26194	downstream, downstre	1 22.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	259 in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	16020 downstream	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	206 in gene	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-7676 upstream	1 26.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	515 in gene	1 17.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	67 in gene	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-478 upstream	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	7482 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	29168 downstream	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	424 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1235 in gene	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	108730 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 331, -7381	in gene, upstream	1 29.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: -484, 7228	upstream, downstream	1 29.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: 7377, -335	downstream, upstream	1 29.500	2 1_Testes_ARID4B:
1_Testes_ARID4B: -7474, 238	upstream, in gene	1 29.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	263 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-389 upstream	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-315 upstream	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-415 upstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -145, 6927	upstream, downstream	1 26.000	2 1_Testes_ARID4B:
1_Testes_ARID4B: -8836, -1764	upstream, upstream	1 26.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	1839 in gene	1 24.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	9696 downstream	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-4017 upstream	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	19768 downstream	1 34.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	912 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	299 in gene	1 16.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	333 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1497 in gene	1 38.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	875 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	79 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 41311, 127	downstream, in gene	1 30.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-283 upstream	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	327 in gene	1 23.000	1 1_Testes_ARID4B:

1_Testes_ARID4B:	434 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	249 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	523 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	290 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	27501 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	775 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1096 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2033, -1284	in gene, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-104 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8032 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	45 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	510 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	98 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10471 downstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	238 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4808 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	765 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	220 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	598 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-512 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 89568, -64	in gene, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	832 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	733 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	720 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	58 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15679 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	395 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10298 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	958 in gene	1	14.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	237 in gene	1	14.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17156 downstream	1	14.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12429 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	387 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15217 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10084 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3464 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	308 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -113, 5135	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7147, -1899	upstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5492 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1413 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 6088, -3203	in gene, upstream	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6868, 2423	upstream, in gene	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -2445, 11037	upstream, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	7033 downstream	1	20.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 228, 1524, 5460, 10772	in gene, in gene, down	1	22.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: -4966, -3670, 266, 557	upstream, upstream, in	1	22.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: -10383, -9087, -5151, 1	upstream, upstream, u	1	24.000	5	1_Testes_ARID4B:
1_Testes_ARID4B:	245 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 23299, 499	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-4967 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	91 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-413 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	344 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9936 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1672, 24	in gene, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10489, -9330	downstream, upstream	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13987, -5832	downstream, upstream	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	10657 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26714 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28628 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	572 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13675 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 529, 2705, 4241	in gene, in gene, in gen	1	27.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	73 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	405 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23596 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	926 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 5372, 220	in gene, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4529, 623	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1216 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	502 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	804 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 32522, 298	downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 34811, 6128	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	4732 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1011, 13251	in gene, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	431 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 19043, -1261	downstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	423 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25729 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4216 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -3433, 11511	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6412, 8532	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	816 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8564 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7922 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8367 in gene	1	17.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 94, -7634	in gene, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8289, 561	downstream, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-3179 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8324 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 477, -9987	in gene, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	22193 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15089 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-677 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1056 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	382 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -5219, 6269, 11197, 26	upstream, in gene, in g	1	17.750	4	1_Testes_ARID4B:
1_Testes_ARID4B: 1099, -533	in gene, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1497, 135, 15383	upstream, in gene, dow	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -9867, 5381	upstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 38286, 494	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	11439 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9854, 270	in gene, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 35862, 198	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	12032 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	357 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21316 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19292 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -231, 25337	upstream, downstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	273 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3656 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11701 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1817 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1719 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14711 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	54 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	504 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 33671, -4569	downstream, upstream	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 61905, 26097, -9402	in gene, in gene, upstre	1	20.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	4566 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	50689 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	851 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2443 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18843, -7093	downstream, upstream	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9715 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 5814, 1558, 678	in gene, in gene, in gen	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -9955, -8899, -2947, 71	upstream, upstream, up	1	22.800	5	1_Testes_ARID4B:
1_Testes_ARID4B: 227, -8285	in gene, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3631, 4881	upstream, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8380, 132, 9508	upstream, in gene, in g	1	24.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-1548 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8987 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	856 in gene	1	23.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	30281	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6442	downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	598	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 34205, 6989		downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	12686	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	402	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12483	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9693	downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	223	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	267	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9488	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	309	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4725	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4204	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22600	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	74589	in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	38577	downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	312	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	742	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-805	upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	40342	downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 60, 9804		in gene, downstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -9675, 69		upstream, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	9975	downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13278, -3458		downstream, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7193, -10055		in gene, upstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	206	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26879	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 310, -6346, -9194		in gene, upstream, upst	1	21.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 6876, 220, -2628		downstream, in gene, u	1	21.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 13682, 10834		downstream, downstre	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	559	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20055	downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1866, 182		upstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	200	in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19734	downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21099	downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 12615, -2617		downstream, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1054	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9409	downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	42769	downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5971	upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 361, -7559		in gene, upstream	1	21.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: -7704, 216	upstream, in gene	1 21.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	5371 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-6207 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	164 in gene	1 23.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 21591, 151	downstream, in gene	1 26.000	2 1_Testes_ARID4B:
1_Testes_ARID4B:	17838 downstream	1 29.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	10901 downstream	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-24 upstream	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	130 in gene	1 28.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	13423 downstream	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	7360 downstream	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	199 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	2874 in gene	1 18.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	310 in gene	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	4526 downstream	1 19.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	17176 downstream	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	126 in gene	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-171 upstream	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	9948 downstream	1 33.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	707 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1313 upstream	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: 17373, 381	downstream, in gene	1 25.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	-716 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-10542 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-1410 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	2792 in gene	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-7071 upstream	1 20.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	130 in gene	1 25.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	-7248 upstream	1 22.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	231 in gene	1 39.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	33889 downstream	1 39.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	271 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -588, -2519	upstream, upstream	1 20.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	136839 in gene	1 15.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	534 in gene	1 30.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	1091 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	728 in gene	1 27.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	398 in gene	1 31.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -1063, 60985	upstream, downstream	1 31.500	2 1_Testes_ARID4B:
1_Testes_ARID4B:	250 in gene	1 32.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	134 in gene	1 21.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	93 in gene	1 35.000	1 1_Testes_ARID4B:
1_Testes_ARID4B:	304 in gene	1 35.000	1 1_Testes_ARID4B:
1_Testes_ARID4B: -2326, 250, 26394	upstream, in gene, in g	1 24.667	3 1_Testes_ARID4B:

1_Testes_ARID4B:	288 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	122 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	173 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10694 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	94 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3039 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3334 upstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10388 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2175 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5480, 42120 upstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	22646 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1601, -2705, -4977 upstream, upstream, u|	1	22.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	3507, 2403, 131 in gene, in gene, in gen	1	22.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	114 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	124 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4857 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4712, 14264, 19352 in gene, downstream, c	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	4237 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3245, 6307, 11395 upstream, downstream	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	15852, 6300, 1212 downstream, in gene, ii	1	27.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	23790 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	242 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10368 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10299 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8302 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10060 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6897, 4337, 321 in gene, in gene, in gen	1	19.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	15668, 13108, 9092 downstream, downstre	1	19.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-9869, 14211 upstream, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	15573 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-30 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9553 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18366 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5353 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-597 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1453 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2948 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28031 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9848 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2113 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2551 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5138 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18656, 336 downstream, in gene	1	18.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-711 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4961, 6769 downstream, downstre	1	22.000	2	1_Testes_ARID4B:

1_Testes_ARID4B: -319, 1489, 12961	upstream, in gene, dow	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 13074, 11266, -206	downstream, downstre	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	137 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3012 upstream	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7608 downstream	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2209 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1813, 14517, 30165	in gene, in gene, downs	1	22.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 15852, 204	downstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 10635, -5941	downstream, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	101 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 35993, -6663	downstream, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	504 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19123 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5234 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3586 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	176 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	646 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-140 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-73 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13712 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	372 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 38694, 118	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	17511 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	208 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-207 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	608 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	287199 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19566 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	314 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	254 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	285 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-323 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	505 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	102 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	466 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	235 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	158 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	419 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 283728, 336	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	240 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9306 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 262, 48638	in gene, downstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	198504 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 304, 19408	in gene, downstream	1	40.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	95 in gene	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-395 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	53 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 39189, 117	downstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	372 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 634, -422	in gene, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	622 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1121, 159	upstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	214 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 20538, 16442, 8682, 67	downstream, downstre	1	22.200	5	1_Testes_ARID4B:
1_Testes_ARID4B: -7319, -5351, -3239	upstream, upstream, u	1	24.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-2 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 256, 15904	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	571 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-273 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	445 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	658 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	332 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7883 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	206 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1057 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1193 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	460 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1430 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17160 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 562, 2546, 57202	in gene, in gene, in gen	1	22.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-6759 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	150 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 103, 11815, 45735	in gene, in gene, downs	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	40 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-317 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23608 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8769 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 329, 25097	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	287 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-37 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2881 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 31119, 8351, 655	downstream, in gene, i	1	20.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	17226 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 3447, 2327	in gene, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	717 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -956, 13892	upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-452 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -524, 212	upstream, in gene	1	24.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	146 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 109670, 1030	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	40197 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4795 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	484 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	535 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	343 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	354 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	475 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	267 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-166 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16401 downstream	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	667 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1429 in gene	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9088 upstream	1	49.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	565 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	402 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-720 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	424 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1059 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13368 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 32931, 296	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	809 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-285 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	457 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6563 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-967 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 568, 116861	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-136 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	100 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8197 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 66897, 177	downstream, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	822 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1200 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4258 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	601 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3565 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	216 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	313 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	78825 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 6967, 183	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 51, 86723	in gene, downstream	1	27.000	2	1_Testes_ARID4B:

1_Testes_ARID4B: 2268, 17532	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15437, 173	downstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-3829 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-604 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	799 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	138 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	348 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	243 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	58105 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3679 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17791 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	92 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	318 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 68913, 3361	downstream, in gene	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	35566 downstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1586, 274	in gene, in gene	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8691, 7379	downstream, downstre	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	429 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 214, -442	in gene, upstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-344 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	229 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18692 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10628 downstream	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1033, -6551	in gene, upstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -238, 7346	upstream, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7986, 402	downstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15855, 8271, -10513	downstream, downstre	1	23.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 43614, 24830	downstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4418 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	141 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	294 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	69222 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	229 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-708 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	97723 downstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-73 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29209 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	165 in gene	1	48.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	121 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3964 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	93 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18665 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-23 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	534 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-368 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	270 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	660 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	454 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1041, 305	in gene, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -280, 456	upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-453 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	58 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	101 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	184 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 21620, 116	downstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1031 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	938 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	194 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	371 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13849, 313	downstream, in gene	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 114325, 213	downstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-483 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4352 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	807 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	130 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7003 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	235 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-575 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	235 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23443 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -7023, 321	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	464 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	168 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-365 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	371 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-139 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	61 in gene	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39566 downstream	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-425 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	290 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-222 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 127, 26543	in gene, downstream	1	23.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	147 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	235 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-340 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	403 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-196 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	72 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5861 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 10086, 459	in gene, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	158 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18072 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-235 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8989 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -6622, 10610	upstream, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	49 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -4459, 10645	upstream, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15447, 343, -6537	downstream, in gene, u	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 8319, 1439	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 337, 19729, 21105	in gene, downstream, c	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 973, -403	in gene, upstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1927, -551, 26105	upstream, upstream, d	1	20.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-807 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	726 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 37954, -2142, -8590, -1	downstream, upstream	1	27.500	4	1_Testes_ARID4B:
1_Testes_ARID4B: 616, -5832, -8072	in gene, upstream, upst	1	30.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 4475, -1973, -4213	downstream, upstream	1	30.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 9743, 3295, 1055	downstream, in gene, i	1	30.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 19236, 16996, 164	downstream, downstre	1	35.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	9721 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	372 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3512 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10349 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-118 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -195, 11229	upstream, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	203 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49724 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-670 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	178 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	229 in gene	1	32.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	657 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22310 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -6563, -10211	upstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3425, -223	in gene, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	286 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4256 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17136 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1497, 30377	in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	7337 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-237 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	288 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	951 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1829 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15098 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1925 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	179 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9517 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-164 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	545 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 333, -4691	in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4774, 250	upstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1208 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	517 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 68692, 115236	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-44 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	458 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	37 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 138, -8598	in gene, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8586, 150	upstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	254 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-377 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6514 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	644 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	291 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-645 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1200 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-500 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 755, -805	in gene, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5523, -3963	upstream, upstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-299 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	271 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-309 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	29.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-315 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9170 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:0, 141152	in gene, in gene	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	267 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1293 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	416 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-309 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23585 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	191 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34884 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-610 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192299 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1389 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49496 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	336 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	94 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-135 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12832 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11947 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	68 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-11015 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11139 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8788 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-321 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-693 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:25605, 5	downstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-90 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:1924, 324, -385	in gene, in gene, upstre	1	21.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:-2050, -450, 259, 2188	upstream, upstream, in	1	23.750	4	1_Testes_ARID4B:
1_Testes_ARID4B:	-1936 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5477 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8052 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:402, -9822	in gene, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:5883, -4341	downstream, upstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-10178, 46, 7726	upstream, in gene, dow	1	31.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:-1107, 6573	upstream, downstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:-7492, 188, 12284	upstream, in gene, dow	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:-5718, 6378, 14490	upstream, downstream	1	32.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:110, 8222	in gene, downstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:7681, -431, -7087	downstream, upstream	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:-7764, 348, 7004	upstream, in gene, in g	1	30.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	476 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	948 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9701 upstream	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-4003 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	126 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	163 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	224 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5815 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1118 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1040 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	216 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	402 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	474 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	98 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	51098 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	407 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	83201 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	236 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	277 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1879 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39833 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	240 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25314 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3038 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4343 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19650 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3398 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	198 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10942 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10548 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17470 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10378 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5490 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	682 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17313 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-52 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-58 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-139 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-699 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-329 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29065, 425 downstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	29934, 2766, -370 downstream, in gene, u	1	23.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-2186, 950 upstream, in gene	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	335 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-338 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	768 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	40.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-6317 upstream	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1022 in gene	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	234 in gene	1	43.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30151 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	392 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	32043 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-961 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	583 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	497 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-346 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	199 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	563 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 6, 27782	in gene, downstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-143 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20455 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	249 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	99547 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 239, 16847	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	139 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	377 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	205 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-662 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7173 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	399 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-220 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3784 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2794 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	685 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174734 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7061 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6954 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3655 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	485 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	434 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	346 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-635 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22386 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	489 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	108 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4177 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-642 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-184 upstream	1	24.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-16 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 30745, -231	downstream, upstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-151 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	72 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17449 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-356 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 120, 1928	in gene, in gene	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 111, 35615	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	7176 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	214 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14604 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9086 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	282 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18388 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	659 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66431 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-649 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-149 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	539 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-442 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	342 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15514 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	83 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7907 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	454 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2345 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	298 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	397 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1194 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	972 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	245 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-211 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-728 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	249 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-322 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	273 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	233 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3241 upstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	334 in gene	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B: 59, -1621	in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -289, 1391	upstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	63132 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 157146, 33018	downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	887 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1105 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	363 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	183 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11020 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	118866 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	806 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	110 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31613 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	324 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	189 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	895 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	407 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	196 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	277 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	351 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	311618 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	287 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 135, 903	in gene, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	837 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	90 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	292 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	230 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	293 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8601 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-18 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	361 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 93803, 22507, 443	downstream, in gene, in	1	32.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	206 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-285 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	299 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-103 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9800 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 393, 19929	in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 19060, -476	downstream, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 143, 13167	in gene, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 177, 17601	in gene, downstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 177, 17601	in gene, downstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 19897, 313	in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1060 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	64965 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17052 downstream	1	33.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-3469 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12972 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12033 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 101, 55109	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	303 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13530, -982, -3238	downstream, upstream	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -7548, -5292, 14580	upstream, upstream, d	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	211 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	282 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2165 in gene	1	63.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8256 upstream	1	63.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31040 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	425 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5817 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11559, -8238, -9737	downstream, upstream	1	28.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 1811, 312	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1961, -462	upstream, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 17532, 16033, -4399	downstream, downstre	1	24.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	648 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17936, -8608	downstream, upstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 2619, 10427	downstream, downstre	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7874, 66	downstream, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 19333, -2187, -4587	downstream, upstream	1	28.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 2499, 99, -9085	in gene, in gene, upstre	1	28.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 912, -1488	downstream, upstream	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8630, 554	upstream, in gene	1	34.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-226 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 102, 94646	in gene, downstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 512, 4608	in gene, downstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3938, 158, 9758	upstream, in gene, dow	1	35.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 14592, 10496, 896	downstream, downstre	1	35.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 14745, -10343	downstream, upstream	1	45.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	9289 downstream	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2073, 41	in gene, in gene	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3342, -1310	upstream, upstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7610, -5578, 12182	upstream, upstream, d	1	22.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	4691 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6727 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23425 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	168 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -5294, 13714	upstream, downstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	336 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	120 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4746 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-340 upstream	1	16.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:100, 26276	in gene, downstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	368 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	170 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	98 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22402 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	257 in gene	1	48.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:17638, 486	downstream, in gene	1	39.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:56182, 454	downstream, in gene	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:15753, 76670	in gene, downstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	93 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-788 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:-7, 40185	upstream, downstream	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16046 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	624 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-288 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-119 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1851 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	44 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-60 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	316 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-396 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	835 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	767 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	602 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	728 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	46 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	294 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	337 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:186, 15642	in gene, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	1680 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	30859 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	215 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25919 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	990 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17586 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:302, 25646, 28558	in gene, downstream, c	1	23.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:952, 3864	in gene, downstream	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:-3082, -170, 9878	upstream, upstream, d	1	20.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:10620, 572	downstream, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:10097, 49	downstream, in gene	1	18.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-9890 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7576 upstream	1	20.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-5341 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5167 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7142 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7296 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7439 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7531 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	35666 downstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 225, -7423	in gene, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7788, 140	downstream, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 20824, 13176	downstream, downstre	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	185148 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	996 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 26006, 310	downstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1695 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 74815, 1076	in gene, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	2518 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-215 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 198, 12534	in gene, downstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8161, -4175, -6079	downstream, upstream	1	35.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 14451, 2115, 211, -101	downstream, in gene, in	1	34.750	4	1_Testes_ARID4B:
1_Testes_ARID4B: -2372, -468, 9884	upstream, upstream, d	1	36.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -10266, 86	upstream, in gene	1	43.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	11096 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4400 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24329 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18849 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 171, -3813, -10373	in gene, upstream, upst	1	24.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 3693, -291, -6851, -848	downstream, upstream	1	26.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: -3808, 176, 6736, 8368	upstream, in gene, dow	1	26.250	4	1_Testes_ARID4B:
1_Testes_ARID4B: 8924, 2364, 732, -7268	downstream, downstre	1	25.750	4	1_Testes_ARID4B:
1_Testes_ARID4B:	-4579 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1730 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 175, 10127, 11263	in gene, downstream, c	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -9907, 45, 1181, 23501	upstream, in gene, in g	1	23.000	4	1_Testes_ARID4B:
1_Testes_ARID4B:	27 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 297, 11657	in gene, downstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 7566, -3794	downstream, upstream	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	19 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8970 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9187 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-288 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	471 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	245 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-298 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	35.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	566 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-259 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	607 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 8731, 10091, 12011	downstream, downstre	1	22.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 3392, 2032, 112	in gene, in gene, in gen	1	22.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: -3612, -2252, -332	upstream, upstream, u	1	22.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	1035 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	153 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	995 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 93, 24237	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	303 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	576 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8384 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49837 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	79485 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	242 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1350 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1871 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1216 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	288 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	24687 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	151 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8200 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	92 in gene	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	60037 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-228 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-124 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2766 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 47, 19439	in gene, downstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	406 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18456 downstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4802 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10398 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 16869, 20080	downstream, downstre	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3566, 355	in gene, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -3900, -689, 20308	upstream, upstream, d	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	255 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-92 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13155 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 91270, 422	downstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	210 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	559 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2535 upstream	1	20.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-9867 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	463 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	439 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	67279 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	125 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6295 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6468 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	457 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10864 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21352 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	558 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 29436, 34540	downstream, downstre	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 527, -4577	in gene, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 9970, 4866	downstream, in gene	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10024, -4920	upstream, upstream	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-10073 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13729 downstream	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -648, -8456	upstream, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5922, -1886	in gene, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7487, 321	upstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-7617 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10476 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1202, 173	in gene, in gene	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1490, -461	upstream, upstream	1	19.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-58 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	328 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2586 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 115, 15211	in gene, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10122, 4974	upstream, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 17438, 566	downstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	774 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9590 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	599 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-658 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7672 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7807 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	68918 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8696 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5601 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	70 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	227 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13531 downstream	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	48397 downstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 301, 77261	in gene, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	110 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1464 in gene	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	18593 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-142 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9007 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16185 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-40 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	132 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 542, 23550	in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-199 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	152 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	570 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 66, 17090	in gene, downstream	1	35.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 198, -7738	in gene, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8321, 385	downstream, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8461, -525	upstream, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	9292 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	321 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	226 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	354 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	636 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-50 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 208, 90459	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	496 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	351647 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-14 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	243 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7962 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-464 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	444 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22385 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	13 in gene	1	47.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-281 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	386 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	222 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	112 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	285 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 29817, 26985, 12729	in gene, in gene, in gen	1	20.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	358 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19863 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 159, -7281	in gene, upstream	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7071, 369	upstream, in gene	1	29.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-247 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1006 in gene	1	34.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-1 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-388 upstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 84, 21972	in gene, downstream	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	319 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	105 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	89105 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	137 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	261 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	137 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-310 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	468 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	384 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -419, 29789	upstream, downstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	216 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2399 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7723 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	63 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	12 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-24 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1026, 31646, 48446, 8	upstream, in gene, in g	1	22.750	4	1_Testes_ARID4B:
1_Testes_ARID4B:	240 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-418 upstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8933 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1141, 12021	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10373, 507	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -67, -1411	upstream, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	161 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	262 in gene	1	55.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -409, 15879	upstream, downstream	1	36.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 37488, 21200, -6224	downstream, in gene, u	1	33.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	603 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23069 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 995, 2243, 54979	in gene, in gene, in gen	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	72 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-288 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 74977, 417	downstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 145, 8753	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8747, 139	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 43327, 34719	downstream, downstre	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	20549 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	652 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-943 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 220, 37116	in gene, downstream	1	44.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	68.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-434 upstream	1	68.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	132 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6125 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -202, 12054	upstream, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 71, 10871	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 11297, 497	downstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10179, 621	upstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 18463, -513	downstream, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	493 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 247, 40983	in gene, downstream	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-57 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	186 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	407 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	369 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-271 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 33586, 477	downstream, in gene	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	510 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	80 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	377 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	58983 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1765 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-123 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 119, 35111	in gene, downstream	1	39.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-439 upstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	258 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 51110, 806	downstream, in gene	1	40.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	123 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 231, -537	in gene, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	102 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	638 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-35 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	187 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 52377, 281	downstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 8988, 3276, 284, -1380	downstream, in gene, i	1	33.250	4	1_Testes_ARID4B:
1_Testes_ARID4B:	360 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	447 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	279 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	51 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7882 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	362 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	147 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	468 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1895 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	101 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2624 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-221 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-399 upstream	1	32.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	275 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	458 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-318 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	34 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	70 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66700 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	144 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	90 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	167 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-86 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 28587, 187	downstream, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1407, -7457	in gene, upstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 42, 8906	in gene, downstream	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8770, 94	upstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-34 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 11102, -8738	downstream, upstream	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 273, 3281, 10161	in gene, in gene, downst	1	29.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 10142, 7134, 254	downstream, downstre	1	29.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	61552 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	281 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	143 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 17096, 21704	downstream, downstre	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 3683, 8291	downstream, downstre	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1018, 5626	in gene, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -728, -5336	upstream, upstream	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 4726, 118	downstream, in gene	1	27.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-6347 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18568, 168	in gene, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	74 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 18548, 148	downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-626 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 8485, 13221	downstream, downstre	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5476, 740, -5308	in gene, in gene, upstre	1	19.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 14587, 9851, 3803	downstream, downstre	1	19.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	43837 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-120 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 3, 13299	in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	228 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3000 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	407 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	168 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 3442, -270	in gene, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 57531, 53819, 134	downstream, downstre	1	26.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	5015 downstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2808 in gene	1	17.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	177 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	166 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14259 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17707 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2791 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	18786 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	278 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	420 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7779 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	581 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	41 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-271 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-257 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	421 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	231 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-266 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	202 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-120 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59379 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-435 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	56420 downstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10934 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-331 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4265 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-94 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	40826 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	337 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1938, 802	in gene, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	17130 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-169 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5241 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	52 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	404 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	183 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2127 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2539 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3292 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	182 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	54 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-5319 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10906 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	536 in gene	1	22.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	-528 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	168 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6854 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6854 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4427 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4469, -571	in gene, upstream	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -4642, 398	upstream, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	670 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7301 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	52 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17479 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 538, -6710	in gene, upstream	1	26.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7101, 147, 7939	upstream, in gene, dow	1	32.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -7723, 69	upstream, in gene	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 17236, 9444	downstream, downstre	1	33.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-66 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9696 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-324 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	158 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	10135 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1295, 463, -3473	in gene, in gene, upstre	1	29.667	3	1_Testes_ARID4B:
1_Testes_ARID4B:	-348 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1118 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 33728, 288	downstream, in gene	1	32.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5489, 26351	upstream, downstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-144 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3591 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 81914, -518	downstream, upstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	864 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	75 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	221 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	87 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	337 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 29959, 135	downstream, in gene	1	40.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -212, 332	upstream, in gene	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	4640 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	184 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-9764 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1248 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	151 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	209 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	701 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	65 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	26562 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	184 in gene	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-41 upstream	1	37.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	404 in gene	1	26.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	68608 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7320 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	7234 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	241 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-534 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-248 upstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	301 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1234 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	31 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82682 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	329 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-161 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-215 upstream	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	110 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 57267, 179	downstream, in gene	1	36.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	283 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	154 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-391 upstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	149 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33750 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-86 upstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	63 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	22048 downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	59655 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	89 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	355 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1219 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 395747, 163	downstream, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	171 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	78 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 50149, 49253	in gene, in gene	1	20.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	33040 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2611, -9357	in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	228 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 200, 77608	in gene, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -610, -4898	upstream, upstream	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 536, 4824, 58920	in gene, in gene, downs	1	30.667	3	1_Testes_ARID4B:
1_Testes_ARID4B: 4731, 443	downstream, in gene	1	28.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	330 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	183 in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	21535 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4508, 167	in gene, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	314 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 48, 16464	in gene, downstream	1	33.500	2	1_Testes_ARID4B:

1_Testes_ARID4B:	168 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	15056 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28848 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	340 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	16489 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-452 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	820 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	29409 downstream	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	260 in gene	1	40.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	28624 downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1509 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5071 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	252 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	197 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	302 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-88 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 441, -407	in gene, upstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	454 in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-4179 upstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	61 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	39404 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	320 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 673, -543, -2015	in gene, upstream, upst	1	24.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -846, 370, 1842	upstream, in gene, in g	1	24.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	302 in gene	1	45.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 32591, 359	downstream, in gene	1	37.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	80350 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	66 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -431, 1441	upstream, in gene	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	64 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	111 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	4409 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-240 upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	33 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-150 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 68187, 1611	in gene, in gene	1	30.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-651 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2696 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6561 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	245 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	185 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	521 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	156 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	621 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	245 in gene	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 393, 40169	in gene, downstream	1	27.000	2	1_Testes_ARID4B:

1_Testes_ARID4B:	475 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	830 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	201 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	844 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6972 upstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	136 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	186 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1070, -7950	upstream, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6101, 779	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -550, 538	upstream, in gene	1	23.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-758 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	19229 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	542 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	55 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9507 downstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	142 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 660, 84	in gene, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	143 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 29223, 412	downstream, in gene	1	32.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 19421, 5501, 1053	in gene, in gene, in gen	1	24.333	3	1_Testes_ARID4B:
1_Testes_ARID4B:	810 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8876 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 118, 636886	in gene, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-1383 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-3090 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	461 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2800 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1132 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1338 upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 227, 23155	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	106 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	50 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82221 downstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	198 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	502 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	787 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	367 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	258 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	635 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-670 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	288 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	117 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -106, 118022	upstream, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-354 upstream	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	11266 downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1	28.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	13899	downstream	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	415	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-8943	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-214	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	82354	downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2973	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 654, 126		in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -824, -296		upstream, upstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	265	in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 51933, 381		downstream, in gene	1	31.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	273	in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	340	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-712	upstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	313	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	152	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 509, -4259		in gene, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -648, 4120		upstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	-5189	upstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 126, 32878		in gene, downstream	1	38.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	636	in gene	1	50.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	219	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	425	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-760	upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1382	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	210	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	81	in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	431	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	174	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	193	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	127	in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	54	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-421	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1700	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 52, -2380		in gene, upstream	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -2290, 142		upstream, in gene	1	30.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	194	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-340	upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 124266, 442		downstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	30	in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	676	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	140	in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23	in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	247	in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	957	in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	318	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	462	in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	373	in gene	1	25.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	273 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 353, -735	in gene, upstream	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1374, 518	in gene, in gene	1	19.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	412 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	528 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	195 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	3 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-17 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-402 upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-365 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2754 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	257 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	159 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1522 upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1225 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6409 upstream	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	180 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	258 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	328 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7069 upstream	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	169 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17386 downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	293 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	746 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	713 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	187 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1255, 249	upstream, in gene	1	34.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	664 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 84, 2740	in gene, in gene	1	41.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	568 in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	113 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1028 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	177 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-759 upstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	146 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	125 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	25801 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	175 in gene	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7736 upstream	1	31.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	347 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	456 in gene	1	42.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	157 in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8540 downstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17982 downstream	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9490, 11058	in gene, downstream	1	21.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: 2612, 1044	downstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 13323, 11755, -6309	downstream, downstre	1	21.000	3	1_Testes_ARID4B:
1_Testes_ARID4B:	5651 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	604 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 103869, 205	downstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	64040 downstream	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 984, -4840	in gene, upstream	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 5922, 98	downstream, in gene	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 345893, 340069	downstream, downstre	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	134680 downstream	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	615 in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 7305, -9895	downstream, upstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -7649, 9551	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	4450 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 205, 17565	in gene, downstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 16655, -705	downstream, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	5865 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-43 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-7832 upstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1518, 206	in gene, in gene	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -1285, -2597	upstream, upstream	1	24.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	635 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	314 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 102131, 243	downstream, in gene	1	26.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	18879 downstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	119 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	9425 downstream	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	924 in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -7511, 10345	upstream, downstream	1	31.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	200 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	143 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -1204, 13932	upstream, downstream	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 15248, 112	downstream, in gene	1	29.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 96015, 84751	downstream, in gene	1	22.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	152 in gene	1	36.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 33123, 41731	downstream, downstre	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 248, 8856	in gene, downstream	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8503, 105	upstream, in gene	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	15870 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 9229, 1005	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8166, 58	upstream, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 426, 11306	in gene, downstream	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -10388, 492	upstream, in gene	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	8795 downstream	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -287, 49889, 53121	upstream, downstream	1	26.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 6475, 9707	downstream, downstre	1	27.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 366, -2866	in gene, upstream	1	27.500	2	1_Testes_ARID4B:

1_Testes_ARID4B: -1343, 1889, 10241	upstream, downstream	1	25.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -1801, 1431, 9783	upstream, downstream	1	25.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: -2916, 316, 8668	upstream, in gene, dow	1	25.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 11694, 8462, 110	downstream, downstre	1	25.000	3	1_Testes_ARID4B:
1_Testes_ARID4B: 27392, 19040, 192	downstream, downstre	1	25.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: 51972, 100	downstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 30398	downstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 353	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 19332	downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 1392, 28048	in gene, downstream	1	23.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 325	in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 152	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13216	downstream	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 2762	in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 276	in gene	1	41.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 549	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 48	in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -135	upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 168, 113688	in gene, downstream	1	25.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 1929	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 48003	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 26914, 130	downstream, in gene	1	28.000	2	1_Testes_ARID4B:
1_Testes_ARID4B: 55138, 55810	downstream, downstre	1	25.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -501, 171, 92699	upstream, in gene, dow	1	24.333	3	1_Testes_ARID4B:
1_Testes_ARID4B: -903	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 28865	in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4233	in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 13702	downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 241, 15953	in gene, downstream	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 21875, 6163	downstream, in gene	1	20.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -6254	upstream	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 161	in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -123	upstream	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 227	in gene	1	44.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 255	in gene	1	35.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 666	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 248	in gene	1	33.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 97	in gene	1	30.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 308	in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 62467	downstream	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 435	in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 4307	downstream	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 469	in gene	1	34.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 451	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 461	in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 395	in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -344	upstream	1	28.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	411 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-1528 upstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	274 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	45339 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	219 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	20741 downstream	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	529 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	1042 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 193, 17521	in gene, downstream	1	37.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	154 in gene	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-2514 upstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8409 downstream	1	38.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	290 in gene	1	24.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -2670, -3582	upstream, upstream	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: 72, 984	in gene, in gene	1	21.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -155, -5499	upstream, upstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -5205, 139	upstream, in gene	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B: -8653, 40755	upstream, downstream	1	22.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	7 in gene	1	22.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: -97, 18463	upstream, downstream	1	21.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	889 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14011 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	784 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	512 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	58 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-104 upstream	1	39.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 23, 70327	in gene, downstream	1	33.000	2	1_Testes_ARID4B:
1_Testes_ARID4B:	82 in gene	1	27.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-75 upstream	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	49 in gene	1	32.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	133 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 851, 51283	in gene, downstream	1	24.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	102 in gene	1	26.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	181 in gene	1	28.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	104 in gene	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	17508 downstream	1	29.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	190 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	520 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	0 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-6076 upstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B: 81715, 80035	in gene, in gene	1	17.500	2	1_Testes_ARID4B:
1_Testes_ARID4B:	566 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2 in gene	1	23.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	604 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	-10330 upstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	210 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	466 in gene	1	17.000	1	1_Testes_ARID4B:

1_Testes_ARID4B:	745 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	71 in gene	1	19.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14275 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	334 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	14490 downstream	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	100 in gene	1	18.000	1	1_Testes_ARID4B:
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1_Testes_ARID4B:	15959 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	8044 downstream	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	23 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	5 in gene	1	25.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	2586 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	379 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	670 in gene	1	21.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	151 in gene	1	18.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	74 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	461 in gene	1	17.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	6833 downstream	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	302 in gene	1	16.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	192 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	942 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	204 in gene	1	15.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	353 in gene	1	20.000	1	1_Testes_ARID4B:
1_Testes_ARID4B:	270 in gene	1	29.000	1	1_Testes_ARID4B:

Peak Va	UCSC Link	Altsymbols	Full Description	RNA
18	Gene Xkr4	Gm210, Xkr4,	ix Kell blood group precursor related family member	NM_001011874.1
18	Gene Gm1056	ENSMUSG000	(predicted gene 10568	XR_140426.1, XR_
28	Gene Mrpl15	Rpml7, Mrpl15	mitochondrial ribosomal protein L15	NM_001177658.1
27	Gene Atp6v1h	Atp6v1h,	0710 ATPase, H+ transporting, lysosomal V1 subunit H	NM_133826.4
22	Gene Npbwr1	Npbwr1, Gpr7,	neuropeptides B/W receptor 1	NM_010342.1
26	Gene Rb1cc1	LaXp180,	5930 RB1-inducible coiled-coil 1	NM_009826.4
56	Gene Rrs1	Rrs1, D1Ert	7C RRS1 ribosome biogenesis regulator homolog (S. cer	NM_021511.2
56	Gene Adhfe1	Adh8, Adhfe1,	alcohol dehydrogenase, iron containing, 1	NM_175236.4, NR
23	Gene Mybl1	A-myb, G1-41	5 myeloblastosis oncogene-like 1	NM_008651.2
26	Gene Vcpip1	5730421J18Ri	valosin containing protein (p97)/p47 complex intera	NM_173443.2
26	Gene 1700034	1700034P13Ri	RIKEN cDNA 1700034P13 gene	NR_040462.1
32	Gene Mcmdc2	Mcmdc2,	603C minichromosome maintenance domain containing 2	NM_177722.3
32	Gene Snhg6	1110008H02Ri	small nucleolar RNA host gene (non-protein coding)	NR_024067.2
32	Gene Snord87	MBII-276,	Sno small nucleolar RNA, C/D box 87	NR_004410.1
21	Gene Gm1056	ENSMUSG000	(predicted gene 10567	XR_140429.1, XR_
21	Gene Tcf24	Tcf24, Gm233	(transcription factor 24	XM_003688767.1,
21	Gene Ppp1r42	TLRR, Ppp1r42	protein phosphatase 1, regulatory subunit 42	NM_145692.1, NM
24	Gene Cops5	Cops5, Jab1, S	4 COP9 (constitutive photomorphogenic) homolog, su	NM_013715.1
24	Gene Csp1	2310020J12Ri	centrosome and spindle pole associated protein 1	NM_026493.3
23	Gene Arfgef1	Arfgef1, D730	C ADP-ribosylation factor guanine nucleotide-exchang	NM_001102430.1
25	Gene Prex2	D430013K02,	phosphatidylinositol-3,4,5-trisphosphate-dependent	NM_029525.1, NM
24	Gene Ncoa2	SRC-2,	953009 nuclear receptor coactivator 2	NM_008678.2, NM
21	Gene Eya1	Eya1, bor	eyes absent 1 homolog (Drosophila)	NM_010164.2, NM
22	Gene Sbspon	Sbspon, Rresp	somatomedin B and thrombospondin, type 1 domai	NM_001033288.3
41	Gene Rpl7	Rpl7, MGC102	ribosomal protein L7	NM_011291.5
41	Gene Rdh10	AI875664, AW	retinol dehydrogenase 10 (all-trans)	NM_133832.3
27	Gene Ube2w	6130401J04Ri	ubiquitin-conjugating enzyme E2W (putative)	NM_001271016.1
25	Gene Jph1	JP-1, Jp1, Jph1	junctionophilin 1	NM_020604.2
28	Gene Mcm3	Mcmd, C8035	(minichromosome maintenance deficient 3 (S. cerevi	NM_008563.2
21	Gene Tram2	MGC25725, C	3 translocating chain-associating membrane protein 2	NM_177409.3
26	Gene B3gat2	B3gat2, KIAA1	beta-1,3-glucuronyltransferase 2 (glucuronosyltrans	NM_172124.2
24	Gene Fam135	Fam135a,	492: family with sequence similarity 135, member A	NM_026604.4
18	Gene Col19a1	Col19a1		NM_007733.2
31	Gene Ptp4a1	MGC102117,	protein tyrosine phosphatase 4a1	NM_011200.2
21	Gene Prim2	AI323589, Prin	DNA primase, p58 subunit	NM_008922.1
21	Gene 1700001	1700001G17Ri	RIKEN cDNA 1700001G17 gene	NR_033199.1
29	Gene Bag2	BC016230, MC	BCL2-associated athanogene 2	NM_145392.2
30	Gene Zfp451	Kiaa0576-hp,	zinc finger protein 451	NM_133817.2
24	Gene Arhgef4	Asef, Arhgef4,	Rho guanine nucleotide exchange factor (GEF) 4	NM_183019.2
47	Gene Hs6st1	6Ost1, Hs6st1	heparan sulfate 6-O-sulfotransferase 1	NM_015818.2
30	Gene Arid5a	Mrf1, D43002	AT rich interactive domain 5A (MRF1-like)	NM_001172205.1,
19	Gene Kansl3	AI431067, 493	KAT8 regulatory NSL complex subunit 3	NM_172652.3
36	Gene Cnnm4	Cnnm4,	54304 cyclin M4	NM_033570.2

36	Gene Cnnm3	Cnnm3, Acdp3 cyclin M3	NM_053186.2, NM
43	Gene Ankrd39	Ankrd39, 9130 ankyrin repeat domain 39	NM_026241.3
43	Gene Sema4c	mKIAA1739, Sema domain, immunoglobulin domain (Ig), transmembrane	NM_001126047.1
43	Gene Fam178B	MGC60970, M family with sequence similarity 178, member B	NM_201365.2, NM
23	Gene Cox5b	MGC117683, Cytochrome c oxidase subunit Vb	NM_009942.2
23	Gene Actr1b	MGC36526, Actin-related protein 1B, centractin beta	NM_146107.2
26	Gene Tmem131	YR-23, CC28, T transmembrane protein 131	NM_018872.2
29	Gene Inpp4a	D130048C09Ri inositol polyphosphate-4-phosphatase, type I	NM_172971.2, NM
29	Gene Coa5	1700001A24Ri cytochrome C oxidase assembly factor 5	NM_198006.4
29	Gene Unc50	UNCL, URP, Ur unc-50 homolog (C. elegans)	NM_026123.3
29	Gene Mgat4a	9530018I07Ri mannoside acetylglucosaminyltransferase 4, isoenzyme	NM_173870.2
25	Gene Txndc9	Txndc9, AI098I thioredoxin domain containing 9	NM_172054.4
25	Gene Eif5b	BC018347, AOEukaryotic translation initiation factor 5B	NM_198303.2
21	Gene Rev1	1110027I23Ri REV1 homolog (S. cerevisiae)	NM_019570.3
24	Gene Aff3	A730046J16, AAF4/FMR2 family, member 3	NM_010678.2
19	Gene Pdcl3	1110061A19Ri phosphoducin-like 3	NM_026850.4
35	Gene Npas2	MGC129355, Neuronal PAS domain protein 2	NM_008719.2
35	Gene Rpl31	MGC107628, Ribosomal protein L31	NM_053257.3, NM
35	Gene Tbc1d8	Tbc1d8, HBLP1TBC1 domain family, member 8	NM_018775.4
21	Gene Map4k4	AU045934, Mitogen-activated protein kinase kinase kinase kinase	NM_008696.2, NM
27	Gene Mrps9	mg637, Mrps9 mitochondrial ribosomal protein S9	NM_023514.4
21	Gene Fhl2	Fhl2, C76204, Four and a half LIM domains 2	NM_010212.3
29	Gene Nck2	4833426I10Ri non-catalytic region of tyrosine kinase adaptor protein	NM_010879.3
25	Gene Tex30	MGC118304, Testis expressed 30	NM_029368.1
25	Gene Kdelc1	EP58, Kdelc1, KDEL (Lys-Asp-Glu-Leu) containing 1	NM_023645.3
23	Gene Bivm	AI854267, Bivm basic, immunoglobulin-like variable motif containing	NM_144558.4
23	Gene Ercc5	Xpg, Ercc5, Mammalian excision repair cross-complementing rodent repair c	NM_011729.2
27	Gene Myo1b	myosin-1b, AA myosin IB	NM_010863.3, NM
24	Gene Glis	Gls, 6330442B glutaminase	NM_001081081.2
31	Gene Tmem194	9830163O08, Transmembrane protein 194B	NM_001142647.1,
30	Gene Stk17b	AI120141, Dual serine/threonine kinase 17b (apoptosis-inducing)	NM_133810.3
23	Gene Ankrd44	E130014H08Ri ankyrin repeat domain 44	NM_001081433.3
32	Gene Sf3b1	SAP155, Targ4 splicing factor 3b, subunit 1	NM_031179.2
24	Gene Coq10b	AV002237, Coenzyme Q10 homolog B (S. cerevisiae)	NM_026424.3, NM
51	Gene Hspd1	Hspd1, Hsp60, heat shock protein 1 (chaperonin)	NM_010477.4
51	Gene Hspe1	mt-cpn10, 10k heat shock protein 1 (chaperonin 10)	NM_008303.4
32	Gene Mob4	Mobk13, Prei3, MOB family member 4, phocein	NM_025283.3
45	Gene Gm1056	EG628004, ENTPD1 predicted gene 10561	XR_168381.1, XR_
45	Gene Mars2	MetRS, Mars2, methionine-tRNA synthetase 2 (mitochondrial)	NM_175439.3
25	Gene Plcl1	Plcl1, PLCE, Phospholipase C-like 1	NM_001114663.1
28	Gene Satb2	Satb2, mKIAA1 special AT-rich sequence binding protein 2	NM_139146.2
28	Gene 9130024	9130024F11Ri RIKEN cDNA 9130024F11 gene	NR_024325.1, NR_
31	Gene 4930558	4930558J18Ri RIKEN cDNA 4930558J18 gene	NR_037999.1
31	Gene 1700066	1700066M21Ri RIKEN cDNA 1700066M21 gene	NM_028546.1
31	Gene Tyw5	MGC117744, Tyrosine-tRNA synthetizing protein 5	NM_001037742.2
24	Gene 9430016	9430016H08Ri RIKEN cDNA 9430016H08 gene	NM_001081181.2
30	Gene Spats2	AW413586, Apatogenesis associated, serine-rich 2-like	NM_144882.4, NM

19	Gene Kctd18	Kctd18, 65304 potassium channel tetramerisation domain containi	NM_001159864.1
36	Gene Sgol2	AV008062, 57: shugoshin-like 2 (S. pombe)	NM_199007.2, NM
25	Gene Gm6860	EG628262, Gr ribosomal protein S27 pseudogene	
25	Gene Bzw1	mKIAA0005, B: basic leucine zipper and W2 domains 1	NM_025824.3
36	Gene Clk1	Clk1, STY CDC-like kinase 1	NR_027853.1, NM
36	Gene Ppil3	2310076N22Ri peptidylprolyl isomerase (cyclophilin)-like 3	NM_027374.3, NM
27	Gene Orc2	Orc2, AU0415: origin recognition complex, subunit 2	NM_008765.2, NM
27	Gene Gm1583	C130065N10Ri predicted gene 15834	XR_107316.1, XR_
22	Gene Cflar	Gm9845, MRITCASP8 and FADD-like apoptosis regulator	NM_207653.3, NM
26	Gene Trak2	AI480836, mKI trafficking protein, kinesin binding 2	NM_172406.3
26	Gene Stradb	ILPIPA, Syradb. STE20-related kinase adaptor beta	NM_172656.5
25	Gene Als2	Alsin, 3222402 amyotrophic lateral sclerosis 2 (juvenile)	NM_001159948.2
31	Gene Fzd7	Fzd7, Fz7 frizzled homolog 7 (Drosophila)	NM_008057.3
22	Gene Sumo1	GMP1, SENTRI SMT3 suppressor of mif two 3 homolog 1 (yeast)	NM_009460.2
26	Gene Nop58	nop5, Nop58, INOP58 ribonucleoprotein	NM_018868.2
26	Gene Snord70	MBII-234, Snoi small nucleolar RNA, C/D box 70	NR_028554.1
32	Gene Bmpr2	AW546137, Gr bone morphogenetic protein receptor, type II (serin	NM_007561.3
31	Gene Fam117I	Fam117b, 633i family with sequence similarity 117, member B	NM_001037725.2
23	Gene Raph1	9430025M21R Ras association (RalGDS/AF-6) and pleckstrin homol	NM_001045513.3
24	Gene Pard3b	2810455B10Ri par-3 partitioning defective 3 homolog B (C. elegans	NM_001081050.2
22	Gene Nrp2	Np-2, Nrp2, N: neuropilin 2	NM_001077403.1
20	Gene Ndufs1	MGC7850, 583 NADH dehydrogenase (ubiquinone) Fe-S protein 1	NM_145518.2, NM
20	Gene Eef1b2	Eef1b, Eef1b2, eukaryotic translation elongation factor 1 beta 2	NM_018796.3
20	Gene Snora41	MBI-83, Snora small nucleolar RNA, H/ACA box 41	NR_028558.1
20	Gene Gpr1	MGC41704, G: G protein-coupled receptor 1	NM_146250.1
20	Gene Zdbf2	Zdbf2, 933010 zinc finger, DBF-type containing 2	NM_028673.1, NM
34	Gene Klf7	Klf7, 9830124F Kruppel-like factor 7 (ubiquitous)	NM_033563.2
20	Gene Creb1	Creb, Creb1, 2: cAMP responsive element binding protein 1	NM_133828.2, NM
27	Gene Mettl21i	Fam119a, Met methyltransferase like 21A	NM_025964.3
25	Gene 2810408	2810408I11Ri RIKEN cDNA 2810408I11 gene	NR_038009.1
30	Gene Ccnyl1	Ccnyl1, 96300: cyclin Y-like 1	NM_001097644.1
30	Gene Fzd5	5330434N09Ri frizzled homolog 5 (Drosophila)	NM_001042659.1
22	Gene Idh1	Idh1, E030024. isocitrate dehydrogenase 1 (NADP+), soluble	NM_010497.3, NM
22	Gene Pipfyve	Pip5k3, p235, I phosphoinositide kinase, FYVE finger containing	NM_011086.2
44	Gene Bard1	ENSMUSG000: BRCA1 associated RING domain 1	NM_007525.3
25	Gene Atic	Atic, AW2123: 5-aminoimidazole-4-carboxamide ribonucleotide fo	NM_026195.3
22	Gene Fn1	Fn1, E330027Ii fibronectin 1	NM_010233.1
22	Gene Apol7d	OTTMUSG000: apolipoprotein L 7d	NR_040308.1
17	Gene Rpl37a	Rpl37a ribosomal protein L37a	NM_009084.4
20	Gene Igfbp2	Igfbp2, Igfbp-2 insulin-like growth factor binding protein 2	NM_008342.3
19	Gene Igfbp5	Igfbp5, AW20: insulin-like growth factor binding protein 5	NM_010518.2
20	Gene Tns1	E030037J05Ri tensin 1	NM_027884.3
17	Gene Rufy4	Rufy4, F93004. RUN and FYVE domain containing 4	NM_001034060.3,
23	Gene Arpc2	34kDa, 22100: actin related protein 2/3 complex, subunit 2	NM_029711.1
27	Gene Pnkd	Brp17, AI8542. paroxysmal nonkinesinogenic dyskinesia	NM_001039509.1
27	Gene Tmbim1	AU024746, RE: transmembrane BAX inhibitor motif containing 1	NM_027154.5
27	Gene LOC101055811	uncharacterized LOC101055811	XM_003945311.1,

29	Gene Slc11a1	Ity, ity, Bcg, Nr solute carrier family 11 (proton-coupled divalent me	NM_013612.2
29	Gene Ctdsp1	GIP, Nif3, Ctds CTD (carboxy-terminal domain, RNA polymerase II, r	NM_153088.2
29	Gene Mir26b	Mirn26b, Mir2 microRNA 26b	NR_029743.1
30	Gene Usp37	C330008N13Ri ubiquitin specific peptidase 37	NM_176972.4
30	Gene Rqcd1	Rqcd1, 26100C rcd1 (required for cell differentiation) homolog 1 (S.	NM_021383.5
20	Gene Bcs1l	Bcs1l, 913002:BCS1-like (yeast)	NM_025784.4
20	Gene Rnf25	0610009H16Ri ring finger protein 25	NM_021313.2
20	Gene Stk36	Fused, FU, KIAA1278, B930045J24, Stk36, 1700112N14Rik, mKIAA1	NM_175031.3
22	Gene Cyp27a1	Cyp27a1, Cyp2 cytochrome P450, family 27, subfamily a, polypeptic	NM_024264.4
18	Gene Ihh	Ihh	NM_010544.2
27	Gene Slc23a3	MGC143682, Solute carrier family 23 (nucleobase transporters), n	NM_194333.3
27	Gene Cnppd1	Cnppd1, AU04 cyclin Pas1/PHO80 domain containing 1	NM_026977.2
27	Gene Fam134	Fam134a, MG family with sequence similarity 134, member A	NM_170755.2
30	Gene Zfand2b	C81256, Zfand zinc finger, AN1 type domain 2B	NM_026846.3, NM
30	Gene Abcb6	1200005B17Ri ATP-binding cassette, sub-family B (MDR/TAP), men	NM_023732.2
30	Gene Atg9a	AU019532, Atg autophagy related 9A	NM_001003917.3
32	Gene Glb1l	Glb1l, 483340:galactosidase, beta 1-like	NM_029010.1
32	Gene Stk16	EDPK, Krct, Stk serine/threonine kinase 16	NM_011494.5
32	Gene Tuba4a	M[a]4, Tuba4, tubulin, alpha 4A	NM_009447.3
32	Gene A630095	A630095N17R RIKEN cDNA A630095N17 gene	NM_001243090.1,
18	Gene Dnajb2	2700059H22Ri DnaJ (Hsp40) homolog, subfamily B, member 2	NM_020266.2, NM
18	Gene Ptpn	mIA-A, mKIAA: protein tyrosine phosphatase, receptor type, N	NM_008985.2
21	Gene Des	Des desmin	NM_010043.1
21	Gene Gm1517	OTTMUSG000i predicted gene 15179	NR_037976.1
21	Gene Spcg	Apeg1, SPEGal SPEG complex locus	NM_001085371.1
31	Gene Asic4	Asic4, BNAC4, acid-sensing (proton-gated) ion channel family mem	NM_183022.3
31	Gene Chpf	D1Bwg1363e, chondroitin polymerizing factor	NM_001001565.2,
31	Gene Tmem19	A230078I05Ri transmembrane protein 198	NM_177056.4
43	Gene Obsl1	Obsl1, AW822: obscurin-like 1	NM_178884.5
43	Gene Inha	AW555078, Inl inhibin alpha	NM_010564.4
18	Gene Stk11ip	LKB1IP, Stk11i: serine/threonine kinase 11 interacting protein	NM_027886.3
18	Gene Slc4a3	Ae3, Slc4a3, A: solute carrier family 4 (anion exchanger), member 3	NM_009208.3
19	Gene Gm2102	Gm2102 predicted gene 2102	XM_001472451.2
32	Gene Utp14b	jsd, 4932411L: UTP14, U3 small nucleolar ribonucleoprotein, homo	NM_001001981.3,
32	Gene Acsl3	Acsl3, C85929, acyl-CoA synthetase long-chain family member 3	NM_028817.3, NM
18	Gene Ap1s3	Ap1s3, Jr2, [s]: adaptor-related protein complex AP-1, sigma 3	NM_183027.2
31	Gene Wdfy1	KIAA1435, 170 WD repeat and FYVE domain containing 1	NM_001111279.1
31	Gene Gm1055	ENSMUSG000i predicted gene 10555	XR_140443.1, XR_
22	Gene Mrpl44	5730593H20Ri mitochondrial ribosomal protein L44	NM_001081210.1
20	Gene Serpine2	B230326M24R serine (or cysteine) peptidase inhibitor, clade E, mer	NM_009255.4
20	Gene Dock10	Dock10, Jr4, Zi dedicator of cytokinesis 10	NM_175291.3
25	Gene Irs1	G972R, IRS-1, I insulin receptor substrate 1	NM_010570.4
25	Gene Gm1953	Gm19537 predicted gene, 19537	XR_140445.1, XR_
32	Gene Agfg1	D730048C23Ri ArfGAP with FG repeats 1	NM_010472.2
37	Gene Trip12	AA410158, 67: thyroid hormone receptor interactor 12	NM_133975.4
37	Gene Fbxo36	1110020F21Ri F-box protein 36	NM_025386.3
19	Gene Cab39	AA960512, AA calcium binding protein 39	NM_133781.4

29	Gene 2810459	2810459M11R RIKEN cDNA 2810459M11 gene	NM_001144992.1,
29	Gene Psmd1	2410026J11Ril proteasome (prosome, macropain) 26S subunit, non	NM_027357.2
48	Gene Ncl	D0Nds28, Ncl, nucleolin	NM_010880.3
48	Gene Snora75	MBI-55, Snora small nucleolar RNA, H/ACA box 75	NR_028478.1
48	Gene Snord82	Snord82, U82, small nucleolar RNA, C/D box 82	NR_002851.1
48	Gene C130036	C130036L24Ril RIKEN cDNA C130036L24 gene	NR_015507.2
39	Gene Ptma	MGC103390, F prothymosin alpha	NM_008972.2
23	Gene Nppc	Nppc, CNP, M(natriuretic peptide type C	NM_010933.5
19	Gene Efhd1	4931430I01Rik EF hand domain containing 1	NM_028889.2
24	Gene Gigyf2	BC006835, AW GRB10 interacting GYF protein 2	NM_146112.4, NM
28	Gene Atg16l1	Apg16l, AI035(atophagy related 16-like 1 (S. cerevisiae)	NM_029846.4, NM
15	Gene Usp40	B230215L03Ril ubiquitin specific peptidase 40	NM_001033291.2
22	Gene Arl4c	Arl7, A630084ADP-ribosylation factor-like 4C	NM_177305.4
28	Gene Sh3bp4	AI594717, BO(SH3-domain binding protein 4	NM_133816.2
35	Gene Agap1	Ggap1, Centg2 ArfGAP with GTPase domain, ankyrin repeat and PH	NM_178119.3, NM
18	Gene Gbx2	Stra7, Gbx-2, N(gastrulation brain homeobox 2	NM_010262.3
26	Gene Cops8	Csn8, Sgn8, Co COP9 (constitutive photomorphogenic) homolog, su	NM_133805.3
22	Gene Lrrfip1	Fliiap1, Lrrfip1, leucine rich repeat (in FLII) interacting protein 1	NM_001111311.1
33	Gene Ube2f	Ube2f, 251001 ubiquitin-conjugating enzyme E2F (putative)	NM_026454.3
21	Gene Espnl	Gm556, Espnl espin-like	NM_001033292.3
21	Gene Klhl30	4631423F02Rik, MGC143856, Klhl30	NM_027551.2
21	Gene Fam132l	4832406C22, F family with sequence similarity 132, member B	NM_173395.2
29	Gene Ilkap	0710007A14Ri integrin-linked kinase-associated serine/threonine p	NM_023343.2
29	Gene 1700020	1700020N18Ril RIKEN cDNA 1700020N18 gene	NR_026924.1
26	Gene Hes6	Hes6, AI32689 hairy and enhancer of split 6 (Drosophila)	NM_019479.3
44	Gene Per2	mPer2, Per2, n period circadian clock 2	NM_011066.3
27	Gene Traf3ip1	Traf3ip1, MGC TRAF3 interacting protein 1	NM_028718.2
27	Gene Twist2	Twist2, Dermo twist basic helix-loop-helix transcription factor 2	NM_007855.2
29	Gene Ndufa10	Ndufa10, 2900 NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_024197.1
29	Gene Olfr141f	Olfr1416, MOF olfactory receptor 1416	NM_147038.1
24	Gene Myeov2	Myeov2, 1110i myeloma overexpressed 2	NM_001163425.1
24	Gene Otos	Otos, OTOSP otospiralin	NM_153114.2
24	Gene Gpc1	AI462976, Gpc glypican 1	NM_016696.4
29	Gene Ankmy1	Ankmy1, 4930 ankyrin repeat and MYND domain containing 1	NM_172850.3
29	Gene Dusp28	AV005521, 07: dual specificity phosphatase 28	NM_175118.3
29	Gene Rnpepl1	1110014H17Ri arginyl aminopeptidase (aminopeptidase B)-like 1	NM_181405.4
42	Gene E030010	E030010N08Ril RIKEN cDNA E030010N08 gene	XM_977156.2, XM
42	Gene Sned1	AI642697, D43 sushi, nidogen and EGF-like domains 1	NM_172463.4
40	Gene Pask	Pask, mKIAA01PAS domain containing serine/threonine kinase	NM_080850.2
40	Gene Ppp1r7	SDS22, Ppp1r7 protein phosphatase 1, regulatory (inhibitor) subuni	NM_023200.2
28	Gene Hdlbp	Hdlbp, AA960 high density lipoprotein (HDL) binding protein	NM_133808.4
28	Gene Sept2	Sept2, AW208 septin 2	NM_010891.2, NM
24	Gene Stk25	Ste20-like, AU(serine/threonine kinase 25 (yeast)	NM_021537.3
32	Gene Bok	Bok, AI847676 BCL2-related ovarian killer protein	NM_016778.2
32	Gene Thap4	Thap4, 201032 THAP domain containing 4	NM_025920.3
32	Gene Atg4b	AW048066, At autophagy related 4B, cysteine peptidase	NM_174874.3
35	Gene Dtymk	mtmk, AU044 deoxythymidylate kinase	NM_001105667.1,

35	Gene Ing5	Ing5, 1810018 inhibitor of growth family, member 5	NM_025454.2
29	Gene Fam174	Fam174, 2310 family with sequence similarity 174, member A	NM_026321.4
29	Gene D1Ertd6	AI987691, D1E DNA segment, Chr 1, ERATO Doi 622, expressed	NM_133825.3
24	Gene Pign	Pign, Gm2030 phosphatidylinositol glycan anchor biosynthesis, cla	NM_013784.3
24	Gene 2310035	2310035C23Ri RIKEN cDNA 2310035C23 gene	NM_173187.3, NM
44	Gene Gm7160	Gm7160, EG63 predicted gene 7160	XM_921685.3, XM
44	Gene Zcchc2	AW212015, 99 zinc finger, CCHC domain containing 2	NM_001122675.1
32	Gene Gm2075	Gm20753 predicted gene, 20753	NR_040630.1
32	Gene Phlpp1	mKIAA0606, PIPH domain and leucine rich repeat protein phosphat	NM_133821.3
28	Gene Vps4b	Vps4b, 803048 vacuolar protein sorting 4b (yeast)	NM_009190.2
22	Gene Dsel	Dsel, 9330132 dermatan sulfate epimerase-like	NM_001081316.1
21	Gene Tsn	Tsn, AU040286 translin	NM_011650.3
25	Gene Gli2	AW546128, GI GLI-Kruppel family member GLI2	NM_001081125.1
42	Gene Inhbb	Inhbb	NM_008381.3
24	Gene Ralb	Ralb, 5730472 v-ral simian leukemia viral oncogene homolog B (ras	NM_022327.5
38	Gene Tmem18	MGC25511, 25 transmembrane protein 185B	NM_146103.2
23	Gene Epb4.115	AL022914, E23 erythrocyte protein band 4.1-like 5	NM_145506.4, NM
23	Gene Ptpn4	TEP, PTPMEG, protein tyrosine phosphatase, non-receptor type 4	NM_019933.2
31	Gene Ddx18	MGC117904, [DEAD (Asp-Glu-Ala-Asp) box polypeptide 18	NM_025860.3
20	Gene Actr3	MGC118188, ARP3 actin-related protein 3	NM_023735.2, NM
25	Gene Slc35f5	Slc35f5, 13000 solute carrier family 35, member F5	NM_028787.4
16	Gene Lypd1	C530008016Ri Ly6/Plaur domain containing 1	NM_145100.3
16	Gene Nckap5	MGC90557, NCK-associated protein 5	NM_001081756.1,
27	Gene Mgat5	AI480971, 493 mannoside acetylglucosaminyltransferase 5	NM_145128.3
24	Gene Zranb3	4933425L19Ri zinc finger, RAN-binding domain containing 3	NM_027678.2
31	Gene R3hdm1	R3hdm1, R3hd R3H domain containing 1	NM_181750.2
31	Gene Ubxn4	mKIAA0242, 1: UBX domain protein 4	NM_026390.2
26	Gene Mcm6	ASP-I1, Mcm6, minichromosome maintenance deficient 6 (MIS5 ho	NM_008567.1
26	Gene Dars	Dars, 5730439 aspartyl-tRNA synthetase	NM_145507.2, NM
27	Gene Pfkfb2	4930568D07Ri 6-phosphofructo-2-kinase/fructose-2,6-biphosphata	NM_008825.4, NM
27	Gene Yod1	Hshin7, Yod1, YOD1 OTU deubiquitinating enzyme 1 homologue (S	NM_178691.4
29	Gene Mapkap1	Rps6kc1, MK-2 MAP kinase-activated protein kinase 2	NM_008551.1
32	Gene Dyrk3	Dyrk3, BC0067 dual-specificity tyrosine-(Y)-phosphorylation regulat	NM_145508.2
31	Gene Rassf5	Nore1A, Maxp Ras association (RalGDS/AF-6) domain family memb	NM_018750.3
31	Gene Ikbke	IKK-i, Ikki, Ikbk inhibitor of kappaB kinase epsilon	NM_019777.3
33	Gene Srgap2	FBP2, srGAP3, SLIT-ROBO Rho GTPase activating protein 2	NM_001081011.2
33	Gene Fam72a	MGC117955, 2 family with sequence similarity 72, member A	NM_175382.3
28	Gene Nucks1	AI647518, 843 nuclear casein kinase and cyclin-dependent kinase s	NM_175294.3, NM
40	Gene Elk4	Sap1, A130026 ELK4, member of ETS oncogene family	NM_007923.2
27	Gene Klhdc8a	A630065K24Ri kelch domain containing 8A	NM_144810.5
27	Gene Nuak2	mKIAA0537, SNUAK family, SNF1-like kinase, 2	NM_028778.4, NM
17	Gene Tmcc2	1110063G11Ri transmembrane and coiled-coil domains 2	NM_178874.2
23	Gene Dstyk	A930019K20Ri dual serine/threonine and tyrosine protein kinase	NM_172516.4
24	Gene Lrrn2	5730406J09Ri leucine rich repeat protein 2, neuronal	NM_010732.4
20	Gene Pik3c2b	PI3KC2beta, C: phosphoinositide-3-kinase, class 2, beta polypeptide	NM_001099276.2
37	Gene Ppp1r15	1810033K10Ri protein phosphatase 1, regulatory (inhibitor) subuni	NM_133819.3
18	Gene Golt1a	0610012C01Ri golgi transport 1 homolog A (S. cerevisiae)	NM_026680.4

18	Gene Kiss1	metastatin, Kis KiSS-1 metastasis-suppressor	NM_178260.3
25	Gene Ren1	Ren-A, Ren, Re renin 1 structural	NM_031192.3
25	Gene Etnk2	Etnk2, 493341 ethanolamine kinase 2	NM_175443.5
30	Gene Sox13	Sox-13, Sox13, SRY-box containing gene 13	NM_011439.2
32	Gene Snrpe	SME, AL02264 small nuclear ribonucleoprotein E	NM_009227.3
32	Gene Zc3h11a	5730454B08Ri zinc finger CCCH type containing 11A	NM_144530.5
23	Gene Btg2	Pc3, APRO1, A. B cell translocation gene 2, anti-proliferative	NM_007570.2
26	Gene Cyb5r1	C80155, Nqo3:cytochrome b5 reductase 1	NM_028057.2
26	Gene Adipor1	ACDCR1, CGI-4 adiponectin receptor 1	NM_028320.3
30	Gene Klhl12	Klhl12, C3ip1, MGC7076	NM_153128.2
30	Gene Rabif	AW549708, AI RAB interacting factor	NM_145510.1
20	Gene 493144C	4931440L10Ri RIKEN cDNA 4931440L10 gene	NM_001145300.1
45	Gene Kdm5b	mKIAA4034, P1lysine (K)-specific demethylase 5B	NM_152895.2
24	Gene Ppp1r12	AI132431, B23 protein phosphatase 1, regulatory (inhibitor) subunit	NM_001081307.1
24	Gene Ube2t	Ube2t, 270008 ubiquitin-conjugating enzyme E2T (putative)	NM_026024.2
22	Gene Lgr6	Lgr6, A530037 leucine-rich repeat-containing G protein-coupled receptor	NM_001033409.3
34	Gene Ptpn7	C920001D21Ri protein tyrosine phosphatase, non-receptor type 7	NM_177081.3
34	Gene Arl8a	gie2, Arl10b, A ADP-ribosylation factor-like 8A	NM_026823.2
35	Gene Rnpep	MGC29229, Rr arginyl aminopeptidase (aminopeptidase B)	NM_145417.3, NM
22	Gene Lmod1	9530015K06Ri leiomodulin 1 (smooth muscle)	NM_053106.2
22	Gene Shisa4	9330132O05Ri shisa homolog 4 (Xenopus laevis)	NM_175259.4
22	Gene Ipo9	C78347, Ipo9, importin 9	NM_153774.1
39	Gene Nav1	Nav1, C23008C neuron navigator 1	NM_173437.2
39	Gene Gm4793	Gm4793, EG21 predicted gene 4793	XR_168789.1, XR_
32	Gene LOC101056010	uncharacterized LOC101056010	XM_003945620.1,
31	Gene Phlda3	Phlda3, Tih1 pleckstrin homology-like domain, family A, member	NM_013750.2
30	Gene Gm1585	Gm15850, OT1 predicted gene 15850	NR_046167.1, NR_
30	Gene Kif21b	2610511N21Ri kinesin family member 21B	NM_001039472.1
30	Gene Camsap3	4930541M15R calmodulin regulated spectrin-associated protein family	NM_001081360.1
24	Gene 9230116	9230116N13Ri RIKEN cDNA 9230116N13 gene	NR_024328.1
24	Gene Ddx59	Ddx59, 483341 DEAD (Asp-Glu-Ala-Asp) box polypeptide 59	NM_026500.3
29	Gene Kif14	Kif14, MGC185 kinesin family member 14	NM_001081258.1
20	Gene Nr5a2	Nr5a2, D1Ertd: nuclear receptor subfamily 5, group A, member 2	NM_030676.3, NM
29	Gene Nek7	AU020186, 28: NIMA (never in mitosis gene a)-related expressed kinase	NM_021605.3
19	Gene Lhx9	3110009O07Ri LIM homeobox protein 9	NM_010714.3, NM
16	Gene 2310009	2310009B15Ri RIKEN cDNA 2310009B15 gene	NM_001081226.1
29	Gene Zbtb41	Zbtb41, 94300 zinc finger and BTB domain containing 41 homolog	NM_172643.5
29	Gene Aspm	D330028K02Ri asp (abnormal spindle)-like, microcephaly associated	NM_009791.4
22	Gene Cdc73	MGC29274, C1 cell division cycle 73, Paf1/RNA polymerase II complex	NM_145991.1
19	Gene Glrx2	Glrx2, AI64571 glutaredoxin 2 (thioltransferase)	NM_023505.2, NM
21	Gene Hmcn1	EG545370, Grr hemicentin 1	NM_001024720.3
36	Gene Ivns1abp	NS1-BP, 17001 influenza virus NS1A binding protein	NM_054102.2, NM
27	Gene Fam129	Niban, AI2563I family with sequence similarity 129, member A	NM_022018.3
33	Gene Edem3	2310050N11Ri ER degradation enhancer, mannosidase alpha-like 3	NM_001039644.2
19	Gene 1700025	AV212693, 17(RIKEN cDNA 1700025G04 gene	NM_197990.3
25	Gene Tsen15	AL023077, 573 tRNA splicing endonuclease 15 homolog (S. cerevisiae)	NM_025677.3
23	Gene Colgalt2	Colgalt2, AI427 collagen beta(1-O)galactosyltransferase 2	NM_177756.4

31	Gene Apobec4	Apobec4, 4933	apolipoprotein B mRNA editing enzyme, catalytic po	NM_001081197.1
31	Gene Arpc5	Arpc5, p16-Arc	actin related protein 2/3 complex, subunit 5	NM_026369.2
22	Gene Smg7	9430023P16Ri	Smg-7 homolog, nonsense mediated mRNA decay fa	NM_001005507.2,
26	Gene Lamc1	Lamb2, Lamc1	laminin, gamma 1	NM_010683.2
20	Gene Shcbp1l	MGC130601, 1Shc	SH2-domain binding protein 1-like	NM_001033162.2
35	Gene Dhx9	RHA, NDHII, HI	DEAH (Asp-Glu-Ala-His) box polypeptide 9	NM_007842.2
40	Gene Teddm1	Epdd1, e9-1, T	transmembrane epididymal protein 1	NM_178244.3
40	Gene Glul	Glul, Glns, GS	glutamate-ammonia ligase (glutamine synthetase)	NM_008131.3
20	Gene Zfp648	Zfp648, Gm10:	zinc finger protein 648	NM_001204908.1
33	Gene Ier5	Ier5	immediate early response 5	NM_010500.2
26	Gene BC034095	mKIAA1614, 6:	cDNA sequence BC034090	XM_148974.8, XV
29	Gene Xpr1	Rmc-1, Syg1, X	xenotropic and polytropic retrovirus receptor 1	NM_011273.2
20	Gene Lhx4	Gsh4, Gsh-4, L	LIM homeobox protein 4	NM_010712.2
23	Gene Qsox1	Qsox1, SOx, 13	quiescin Q6 sulfhydryl oxidase 1	NM_023268.2, NM
23	Gene Cep350	4933409L06Ril	centrosomal protein 350	NM_001039184.1
23	Gene Tor1aip1	Tor1aip1, MGC	torsin A interacting protein 1	NM_144791.2, NM
23	Gene Tor1aip2	AA103493, Lul	torsin A interacting protein 2	NM_022329.4, NM
20	Gene Abl2	Abl1, Arg, Abl2, v-abl	Abelson murine leukemia viral oncogene 2 (arg	NM_009595.3, NM
28	Gene Fam20b	C530043G21Ri	family with sequence similarity 20, member B	NM_145413.4
23	Gene Rasal2	A330066M24R	RAS protein activator like 2	NM_177644.5
23	Gene 2810025	2810025M15R	RIKEN cDNA 2810025M15 gene	NR_027984.1
25	Gene Cacybp	Cacybp, SIP		NM_009786.2
25	Gene Rabgap1	9630005B12Ri	RAB GTPase activating protein 1-like	NM_001038621.2
31	Gene Rc3h1	Rc3h1, 573055	RING CCCH (C3H) domains 1	NM_001024952.2
30	Gene Zbtb37	Zbtb37, D4300	zinc finger and BTB domain containing 37	NM_173424.3
30	Gene Gas5	Gas-5, MGC62	growth arrest specific 5	NR_002840.2
30	Gene Mir5117	mmu-mir-5117	microRNA 5117	NR_039577.1
30	Gene Snord47	Snord47, MBII	small nucleolar RNA, C/D box 47	NR_028543.1
30	Gene Dars2	Dars2, 583046	aspartyl-tRNA synthetase 2 (mitochondrial)	NM_172644.3
19	Gene Vamp4	Vamp4, D1Ert	vesicle-associated membrane protein 4	NM_016796.3
26	Gene Prrc2c	Bat2d, E13011	proline-rich coiled-coil 2C	NM_001081290.1
26	Gene Scyl3	6030457O16, 1	SCY1-like 3 (S. cerevisiae)	NM_028776.4
39	Gene Slc19a2	AV276020, TRI	solute carrier family 19 (thiamine transporter), mem	NM_054087.2
25	Gene Atp1b1	Atpb, Atpb-1, 1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	NM_009721.5
33	Gene Tipr1	1810011K17Ri	TIP41, TOR signalling pathway regulator-like (S. cere	NM_145513.4
27	Gene Mpzl1	Mpzl1, PZR, 11	myelin protein zero-like 1	NM_001083897.1
25	Gene Rcsd1	A430105K13Ri	RCS domain containing 1	NM_001038846.1
44	Gene Pou2f1	Pou2f1, Otf-1, POU	domain, class 2, transcription factor 1	NM_011137.3, NM
23	Gene Pogk	mKIAA1513, 9:	pogo transposable element with KRAB domain	NM_175170.4, NM
26	Gene Uck2	AI481316, TSA	uridine-cytidine kinase 2	NM_030724.3
36	Gene Tmco1	Tmco1, ESTM3	transmembrane and coiled-coil domains 1	NM_001039483.1
22	Gene Uap1	AA420407, AA	UDP-N-acetylglucosamine pyrophosphorylase 1	NM_133806.4, XM
24	Gene Nos1ap	Capon, 63304	nitric oxide synthase 1 (neuronal) adaptor protein	NM_027528.2, NM
25	Gene Atf6	AA789574, 96:	activating transcription factor 6	NM_001081304.1
30	Gene Dusp12	VH1, Dusp12, 1	dual specificity phosphatase 12	NM_023173.2
24	Gene Ppox	Ppox, Ppo	protoporphyrinogen oxidase	NM_008911.2
24	Gene Usp21	W53272, Usp1	ubiquitin specific peptidase 21	NM_013919.4

24	Gene Ufc1	AA062310, EST ubiquitin-fold modifier conjugating enzyme 1	NM_025388.2
23	Gene Dedd	FLDED1, CASP death effector domain-containing	NM_011615.3, NM
23	Gene Nit1	AI255805, Nit1 nitrilase 1	NM_012049.2, NM
23	Gene Pfdn2	W48336, EST Nprefoldin 2	NM_011070.3
34	Gene Arhgap3	mFLJ00267, M Rho GTPase activating protein 30	NM_001005508.2
34	Gene Usf1	bHLHb11, Usf1 upstream transcription factor 1	NM_009480.2
34	Gene Tstd1	EG226654, Tst thiosulfate sulfurtransferase (rhodanese)-like domain	NM_001164525.1
20	Gene Alyref2	C130042O11Ri Aly/REF export factor 2	NM_019484.4
24	Gene Vangl2	ska17, Lpp1, Lt vang-like 2 (van gogh, Drosophila)	NM_033509.3
27	Gene Ncstn	D1Dau13e, Kia nicastrin	NM_021607.3
27	Gene Copa	xenin, AU0403 coatomer protein complex subunit alpha	NM_009938.4
39	Gene Dcaf8	Dcaf8, Wdr42a DDB1 and CUL4 associated factor 8	NM_153555.2
28	Gene Igsf8	AU041109, EM immunoglobulin superfamily, member 8	NM_080419.1
28	Gene Kcnj9	Girk3, 170008 potassium inwardly-rectifying channel, subfamily J, i	NM_008429.2
30	Gene Kcnj10	Kcnj10, BIR10, potassium inwardly-rectifying channel, subfamily J, i	NM_001039484.1
30	Gene Pigm	AV302080, 49 phosphatidylinositol glycan anchor biosynthesis, cla	NM_026234.4
20	Gene Igsf9	NRT1, Ncaml, i immunoglobulin superfamily, member 9	NM_033608.3, NM
20	Gene Tagln2	Sm22a, Sm22E transgelin 2	NM_178598.2
22	Gene Vsig8	EG240916, Vsi V-set and immunoglobulin domain containing 8	NM_177723.4, NR
25	Gene Dusp23	Dusp23, LDP-3 dual specificity phosphatase 23	NM_026725.2
23	Gene Rgs7	Rgs7	NM_011880.3, NM
27	Gene Opn3	MGC124138, E opsin 3	NM_010098.2
27	Gene Chml	Rep2, E03000 choroideremia-like	NM_021350.2
27	Gene Wdr64	4930415O10Ri WD repeat domain 64	NM_029453.2
23	Gene Exo1	Exo1, Msa, 57 exonuclease 1	NM_012012.4
20	Gene Akt3	Nmf350, Akt3, thymoma viral proto-oncogene 3	NM_011785.3
29	Gene Adss	Adss, AS, Adss adenylsuccinate synthetase, non muscle	NM_007422.3
28	Gene B230369	B230369F24Ri RIKEN cDNA B230369F24 gene	XR_107314.1, XR_
28	Gene Cox20	Fam36a, 2310 COX20 Cox2 chaperone	NM_025511.2
48	Gene Hnrnpu	hnRNP U, AL0 heterogeneus nuclear ribonucleoprotein U	NM_016805.2
32	Gene Efcab2	D830011E08Ri EF-hand calcium binding domain 2	NM_026626.2
18	Gene Kif26b	MGC169313, E kinesin family member 26B	NM_001161665.1
32	Gene Tfb2m	Hkp1, Tfb2m transcription factor B2, mitochondrial	NM_008249.4
32	Gene Cnst	Cnst, 9630058. consortin, connexin sorting protein	NM_146105.3
28	Gene Sccpdh	Sccpdh, C3300 saccharopine dehydrogenase (putative)	NM_178653.3
30	Gene Ahctf1	AV011447, Ah AT hook containing transcription factor 1	NM_026375.2
28	Gene Psen2	PS-2, Alg3, ALC presenilin 2	NM_001128605.1
26	Gene Itpkb	Itpkb, E130307 inositol 1,4,5-trisphosphate 3-kinase B	NM_001081175.1
20	Gene 6330403	Gm10001, ENS RIKEN cDNA 6330403A02 gene	NM_001081227.2
28	Gene Parp1	PARP, parp-1, poly (ADP-ribose) polymerase family, member 1	NM_007415.2
25	Gene Lin9	TGS, Lin9, AA5 lin-9 homolog (C. elegans)	NM_175186.4, NM
20	Gene Mixl1	Mixl1, Mm1, M Mix1 homeobox-like 1 (Xenopus laevis)	NM_013729.3
27	Gene Acbd3	GOLPH1, GCP acyl-Coenzyme A binding domain containing 3	NM_133225.3
32	Gene H3f3a	H3f3b, H3.3A, H3 histone, family 3A	NM_008210.4
32	Gene LOC101055935	uncharacterized LOC101055935	XR_168385.1, XR_
21	Gene Lefty2	6030463A22Ri left-right determination factor 2	NM_177099.3
21	Gene Pycr2	P5cr2, Pycr2, 1 pyrroline-5-carboxylate reductase family, member 2	NM_133705.2

22	Gene Lefty1	lefty, Tgfb4, Al left right determination factor 1	NM_010094.3
22	Gene Tmem63	MGC11687, Tr transmembrane protein 63a	NM_144794.2
27	Gene Wdr26	AI447817, Gid WD repeat domain 26	NM_145514.5
24	Gene Lbr	Lbr, ic, AI5058 lamin B receptor	NM_133815.2
24	Gene Gm5533	Gm5533, EG4 predicted gene 5533	XR_035218.2, XR_
28	Gene Srp9	Srp9, 9kDa signal recognition particle 9	NM_012058.3
25	Gene Trp53bp	53BP2, ASPP2, transformation related protein 53 binding protein 2	NM_173378.2
20	Gene Capn2	Capn2, m-calp. calpain 2	NM_009794.3
31	Gene Brox	Brox, 0610010 BRO1 domain and CAAX motif containing	NM_027861.2
31	Gene Aida	MGC101949, Maxin interactor, dorsalization associated	NM_181732.4
27	Gene Mia3	KIAA0268, Tan melanoma inhibitory activity 3	NM_177389.3
30	Gene lars2	2010002H18Ri isoleucine-tRNA synthetase 2, mitochondrial	NM_198653.2
32	Gene Bpnt1	Bpnt1, BPntas bisphosphate 3'-nucleotidase 1	NM_011794.3
32	Gene Eprs	2410081F06Ri glutamyl-prolyl-tRNA synthetase	NM_029735.1
23	Gene Tgfb2	Tgfb-2, Tgfb2, transforming growth factor, beta 2	NM_009367.3
30	Gene Kctd3	E330032J19Ri potassium channel tetramerisation domain containi	NM_172650.2
20	Gene Kcnk2	A430027H14Ri potassium channel, subfamily K, member 2	NM_010607.2, NM
20	Gene A430027	A430027H14R RIKEN cDNA A430027H14 gene	XR_168386.1, XR_
22	Gene Cenpf	6530404A22Ri centromere protein F	NM_001081363.2
20	Gene Ptpn14	PTP36, Ptpn14 protein tyrosine phosphatase, non-receptor type 14	NM_008976.2
31	Gene Smyd2	1110020E07Ri SET and MYND domain containing 2	NM_026796.1
20	Gene Prox1	A230003G05Ri prospero-related homeobox 1	NM_008937.2
21	Gene Rps6kc1	Rps6kc1, AA68 ribosomal protein S6 kinase polypeptide 1	NM_178775.4
23	Gene Vash2	MGC38004, B1vasohibin 2	NM_144879.2, NR
19	Gene Batf3	9130211I03Ri basic leucine zipper transcription factor, ATF-like 3	NM_030060.2
21	Gene D730003	D730003I15Ri RIKEN cDNA D730003I15 gene	XR_140481.2, XR_
20	Gene Nenf	SCIRP10, Nenf, neuron derived neurotrophic factor	NM_025424.2
20	Gene Tmem206	2310028N02Ri transmembrane protein 206	NM_025864.3
28	Gene Ppp2r5a	Ppp2r5a, MGC protein phosphatase 2, regulatory subunit B (B56), a	NM_144880.4
28	Gene Gm2020	Gm20201 predicted gene, 20201	XR_107310.1, XR_
36	Gene Dtl	5730564G15Ri denticleless homolog (Drosophila)	NM_029766.2
36	Gene Ints7	5930412E23Ri integrator complex subunit 7	NM_178632.5
22	Gene Lpgat1	MGC18768, Al lysophosphatidylglycerol acyltransferase 1	NM_172266.3, NM
42	Gene Nek2	C77054, Nek2, NIMA (never in mitosis gene a)-related expressed ki	NM_010892.3
48	Gene 1700034	4930557M11R RIKEN cDNA 1700034H15 gene	NR_030669.1
48	Gene Slc30a1	AI839647, Znt solute carrier family 30 (zinc transporter), member 1	NM_009579.3
28	Gene Rcor3	E130101E15Ri REST corepressor 3	NM_144814.2
28	Gene Gm1051	ENSMUSG000 predicted gene 10516	NR_033536.1
23	Gene Hhat	AP-2CRE, Hhat hedgehog acyltransferase	NM_144881.4
24	Gene A730013	A730013G03R RIKEN cDNA A730013G03 gene	XR_035313.2, XR_
24	Gene 1700065	1700065J18Ri RIKEN cDNA 1700065J18 gene	NR_040468.1
27	Gene Sertad4	C130018M11R SERTA domain containing 4	NM_001177794.1,
27	Gene Gm1586	Gm15867, OT predicted gene 15867	XM_003946057.1,
20	Gene Plxna2	2810428A13Ri plexin A2	NM_008882.2
26	Gene Plekhg1	Gm521, Plekh pleckstrin homology domain containing, family G (w	NM_001033253.3
26	Gene Mthfd1l	2410004L15Ri methylenetetrahydrofolate dehydrogenase (NADP+	NM_172308.4, NM
24	Gene Akap12	Tsga12, AI317 A kinase (PRKA) anchor protein (gravin) 12	NM_031185.3

24	Gene Zbtb2	Gm1103, Zbtb: zinc finger and BTB domain containing 2	NM_001033466.3
21	Gene Rmnd1	AW536662, A/ required for meiotic nuclear division 1 homolog (S. c	NM_025343.5
21	Gene 1700052	AW536799, 17 RIKEN cDNA 1700052N19 gene	NM_024261.2
62	Gene Fbxo5	Fbxo5, 251004 F-box protein 5	NM_025995.2
62	Gene Mtrf1l	Mtrf1l, 91300 mitochondrial translational release factor 1-like	NM_175374.3
20	Gene Rgs17	6430507P11Ri regulator of G-protein signaling 17	NM_019958.4, NM
26	Gene Cnksr3	6820402C05, C/ Cnksr family member 3	NM_172546.2
32	Gene Lrp11	9830160H19Ri low density lipoprotein receptor-related protein 11	NM_172784.3
32	Gene Pcmt1	C79501, PIMT, protein-L-isoaspartate (D-aspartate) O-methyltransf	NM_008786.2
32	Gene A630066	A630066F11Ri RIKEN cDNA A630066F11 gene	NR_030698.1
32	Gene Nup43	2610529I12Ri nucleoporin 43	NM_145706.2
23	Gene BC02040	BC020402 cDNA sequence BC020402	NR_033219.1
23	Gene Lats1	AW208599, La large tumor suppressor	NM_010690.1
20	Gene 6530403	6530403G13Ri RIKEN cDNA 6530403G13 gene	XM_003945462.1,
20	Gene Ppil4	PPIase, 37324: peptidylprolyl isomerase (cyclophilin)-like 4	NM_026141.3
30	Gene Tab2	A530078N03R TGF-beta activated kinase 1/MAP3K7 binding protei	NM_138667.3
25	Gene Ust	UA20ST, Ust, Uronyl-2-sulfotransferase	NM_177387.3
28	Gene Sash1	2500002E12Ri SAM and SH3 domain containing 1	NM_175155.4
28	Gene LOC101056021	uncharacterized LOC101056021	XM_003945459.1,
19	Gene Stxbp5	Stxbp5, mKIAA syntaxin binding protein 5 (tomosyn)	NM_001081344.2
28	Gene Fbxo30	Fbxo30, 17000 F-box protein 30	NM_027968.3, NM
26	Gene Utrn	Utrn, DRP, AA/ utrophin	NM_011682.4
22	Gene Plagl1	Zac1, Plagl1, L/ pleiomorphic adenoma gene-like 1	NM_009538.2
34	Gene Ltv1	Ltv1, 2610020I LTV1 homolog (S. cerevisiae)	NM_181470.4
17	Gene Phactr2	AV158170, Ph/ phosphatase and actin regulator 2	NM_001195065.1,
26	Gene Hivep2	Shn-2, MIBP1, human immunodeficiency virus type I enhancer binc	NM_010437.2
26	Gene Gm2011	Gm20114 predicted gene, 20114	XR_106495.1, XR_
24	Gene Vta1	1110059P08Ri Vps20-associated 1 homolog (S. cerevisiae)	NM_025418.3
24	Gene 1700016	1700016L04Ri RIKEN cDNA 1700016L04 gene	NR_045824.1
24	Gene Gje1	Gjf1, D230044 gap junction protein, epsilon 1	NM_029722.1
33	Gene Cited2	Cited2, p35srj, Cbp/p300-interacting transactivator, with Glu/Asp-r	NM_010828.3
25	Gene Abracl	3110003A17Ri ABRA C-terminal like	NM_028440.1
22	Gene Reps1	Reps1, BB1612 RalBP1 associated Eps domain containing protein	NM_009048.2, NM
25	Gene Map3k5	ASK, MGC141/ mitogen-activated protein kinase kinase kinase 5	NM_008580.4
20	Gene Hbs1l	Hbs1l, 281003. Hbs1-like (S. cerevisiae)	NM_019702.2, NM
25	Gene Sgk1	Sgk, Sgk1 serum/glucocorticoid regulated kinase 1	NM_001161845.2
28	Gene Tbp1l	Tlp, TLF, TRP, / TATA box binding protein-like 1	NM_011603.5
20	Gene Gm1082	ENSMUSG000 (predicted gene 10824	XR_140973.1, XR_
20	Gene Tcf21	Pod-1, Pod1, T transcription factor 21	NM_011545.1
38	Gene Rps12	MGC117504, R/ ribosomal protein S12	NM_011295.6
38	Gene Snora33	Snora33, ACA3 small nucleolar RNA, H/ACA box 33	NR_037680.1
38	Gene Snord10	Snord100, Z51 small nucleolar RNA, C/D box 100	NR_037681.1
38	Gene Slc18b1	Slc18b1, 1110 (solute carrier family 18, subfamily B, member 1	NM_183116.2
22	Gene Stx7	Stx7, AI31506/ syntaxin 7	NM_016797.4
29	Gene Ctgf	fisp-12, Fisp12 connective tissue growth factor	NM_010217.2
24	Gene Epb4.112	NBL2, AW5551 erythrocyte protein band 4.1-like 2	NM_013511.3, NM
18	Gene L3mbtl3	AI481284, MB/ l(3)mbt-like 3 (Drosophila)	NM_172787.2

21	Gene Ptprk	AI853699, Ptpi protein tyrosine phosphatase, receptor type, K	NM_008983.2
18	Gene Soga3	Soga3, 633040 SOGA family member 3	NM_026138.2
33	Gene Cenpw	Cug2, 2610036L11Rik, Cenpw	NM_001109747.1
20	Gene Trmt11	3110045I18Rik, Trmt11, AW213713, 2410075D05Rik	NM_028604.2
20	Gene Gm2030	Gm20300 predicted gene, 20300	NR_045008.1
20	Gene Hint3	AV009015, Hir histidine triad nucleotide binding protein 3	NM_025798.3
22	Gene Hey2	hesr2, Hey2, H hairy/enhancer-of-split related with YRPW motif 2	NM_013904.1
18	Gene Tpd52l1	Tpd52l1, D53 tumor protein D52-like 1	NM_009413.1
25	Gene Rwdd1	2610002D06Ri RWD domain containing 1	NM_025614.3
27	Gene Dse	6030499O08, † dermatan sulfate epimerase	NM_172508.2
32	Gene Tspyl1	Tspyl1, Tspyl testis-specific protein, Y-encoded-like 1	NM_009433.3
21	Gene Marcks	Marcks, PKCSL myristoylated alanine rich protein kinase C substrate	NM_008538.2
21	Gene 5930403	5930403N24Ri RIKEN cDNA 5930403N24 gene	XR_106509.1, XR_
26	Gene Fyn	MGC115870, † Fyn proto-oncogene	NM_008054.2, NM
35	Gene E130307	E130307A14Ri RIKEN cDNA E130307A14 gene	NR_038037.1
35	Gene Rev3l	Rev, Sez4, Rev. REV3-like, catalytic subunit of DNA polymerase zeta	NM_011264.3
30	Gene Amd1	Amd1, 1, AdoMS-adenosylmethionine decarboxylase 1	NM_009665.5
33	Gene Cdk19	Cdc2l6, 27000: cyclin-dependent kinase 19	NM_001168304.1
26	Gene Mettl24	Mettl24, 9030: methyltransferase like 24	NM_177793.3
23	Gene Cdc40	EHB3, 120000: cell division cycle 40	NM_027879.2
23	Gene Wasf1	Wasf1, AI1953 WAS protein family, member 1	NM_031877.3
25	Gene Fig4	A530089I17Ri FIG4 homolog (S. cerevisiae)	NM_133999.1
26	Gene Mical1	MGC38321, Ni microtubule associated monooxygenase, calponin a	NM_138315.2, NM
26	Gene Smpd2	AW108287, Sn sphingomyelin phosphodiesterase 2, neutral	NM_009213.2
31	Gene Ppil6	Ppil6, 2900084 peptidylprolyl isomerase (cyclophilin)-like 6	NM_028430.1
31	Gene Cd164	AA589639, A1: CD164 antigen	NM_016898.2
22	Gene Sesn1	Sesn1, 111000 sestrin 1	NM_001162908.1
43	Gene Foxo3	2010203A17Ri forkhead box O3	NM_019740.2
24	Gene Lace1	Lace1, CG8520 lactation elevated 1	NM_145743.2
22	Gene Snx3	MGC151262, S sorting nexin 3	NM_017472.4
24	Gene Ostm1	1200002H13Ri osteopetrosis associated transmembrane protein 1	NM_172416.3
35	Gene Sec63	AW319215, 57 SEC63-like (S. cerevisiae)	NM_153055.3
19	Gene Sobp	MGC67344, 53 sine oculis-binding protein homolog (Drosophila)	NM_175407.3
19	Gene 9030612	9030612E09Ri RIKEN cDNA 9030612E09 gene	NM_172419.2
20	Gene Bend3	Bend3, mKIAA BEN domain containing 3	NM_199028.2
19	Gene Cd24a	Cd24a, nectad CD24a antigen	NM_009846.2
23	Gene Qrsl1	2700038P16Ri glutaminyl-tRNA synthase (glutamine-hydrolyzing)-li	NM_001081054.2
23	Gene Rtn4ip1	Rtn4ip1, NIMP reticulon 4 interacting protein 1	NM_130892.4
18	Gene Prep	AI047692, Prej prolyl endopeptidase	NM_011156.2
21	Gene Hace1	KIAA1320, A73 HECT domain and ankyrin repeat containing, E3 ubiq	NM_172473.3
19	Gene Dcbld1	Dcbld1, 46314 discoidin, CUB and LCCL domain containing 1	NM_025705.3
22	Gene Gopc	PIST, 2210402I golgi associated PDZ and coiled-coil motif containing	NM_053187.3, NM
22	Gene Nepn	Npn, 5730521I nephrocan	NM_025684.2
29	Gene Nus1	Nus1, 1600027 nuclear undecaprenyl pyrophosphate synthase 1 ho	NM_030250.2
16	Gene Cep85l	Cep85l, Gm97I centrosomal protein 85-like	NM_001204983.1
26	Gene Mcm9	MGC70158, 9C minichromosome maintenance complex component	NM_027830.2
26	Gene Asf1a	2310079C17Ri ASF1 anti-silencing function 1 homolog A (S. cerevisi	NM_025541.3

26	Gene Gm3902	Gm3902	predicted gene 3902	XR_140984.1, XR_
29	Gene Man1a	Man1a1, PCR1	mannosidase 1, alpha	NM_008548.4
29	Gene Gm1699	Gm16998	predicted gene, 16998	NR_038016.1
38	Gene D63003	D630037F22Ri	RIKEN cDNA D630037F22 gene	NM_001033385.3
38	Gene Msl3l2	Msl3l2, 17000i	male-specific lethal 3-like 2 (Drosophila)	NM_001163833.1
30	Gene Serinc1	Tde2, Tde1l, A	serine incorporator 1	NM_019760.3
41	Gene Ranbp2	Ranbp2, NUP3	RAN binding protein 2	NM_011240.3
28	Gene Sept10	AI874685, AA4	septin 10	NM_001024911.2,
28	Gene Sowahc	Ankrd57, 9430	sosondowah ankyrin repeat domain family member	NM_172939.3
29	Gene P4ha1	AL022634, P4f	procollagen-proline, 2-oxoglutarate 4-dioxygenase (	NM_011030.2
22	Gene Mcu	Gm64, 20100120	16Rik, D130073L02Rik, Ccdc109a, AV064928, C10	NM_001033259.4
30	Gene Dnajb12	Dnajb12, Dj10, DnaJ	(Hsp40) homolog, subfamily B, member 12	NM_019965.2
34	Gene Ascc1	AI550520, CGI-	activating signal cointegrator 1 complex subunit 1	NM_026937.3, NM
34	Gene Spock2	AA407235, Gc:	sparc/osteonectin, cwcw and kazal-like domains prot	NM_052994.2
22	Gene Chst3	Chst3, C6ST, G	carbohydrate (chondroitin 6/keratan) sulfotransfera	NM_016803.3
21	Gene Psap	AI037048, SGP	prosaposin	NM_011179.3, NM
27	Gene Cdh23	4930542A03Ri	cadherin 23 (otocadherin)	NM_001252635.1
21	Gene Unc5b	Unc5b, A6300:	unc-5 homolog B (C. elegans)	NM_029770.2
22	Gene Sgpl1	Sgpl1, D10Xrf4	sphingosine phosphate lyase 1	NM_009163.3
29	Gene Adamts1	TS14, Adamts-	a disintegrin-like and metallopeptidase (reprolysin t	NM_001081127.1
22	Gene Pald1	X99384, Pald, l	phosphatase domain containing, paladin 1	NM_013753.2
37	Gene Eif4ebp2	MGC141219, 2	eukaryotic translation initiation factor 4E binding pr	NM_010124.2
31	Gene Ppa1	Pyp, 2010317E	pyrophosphatase (inorganic) 1	NM_026438.4
37	Gene Sar1a	Sar1a, Sara, Sa	SAR1 gene homolog A (S. cerevisiae)	NM_009120.2
37	Gene Tysnd1	Tysnd1, 13000	trypsin domain containing 1	NM_027912.1
28	Gene H2afy2	macroH2A2, M	H2A histone family, member Y2	NM_207000.2
28	Gene Mir5108	mmu-mir-510	microRNA 5108	NR_039568.1
20	Gene Col13a1	Col13a1		NM_007731.2
18	Gene Tspan15	2700063A19Ri	tetraspanin 15	NM_197996.2
21	Gene 2510003	KBP, 0710007C	RIKEN cDNA 2510003E04 gene	NM_028197.2
26	Gene Ddx21	AL022742, Dd	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	NM_019553.2
29	Gene Ddx50	GU2, 8430408	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	NM_053183.2
29	Gene Stox1	Gm63, 473247	storkhead box 1	NM_001033260.1
23	Gene Slc25a1	3110021G18Ri	solute carrier family 25 (mitochondrial carrier, Grav	NM_175194.2
26	Gene Dna2	Dna2, KIAA00	DNA replication helicase 2 homolog (yeast)	NM_177372.3
26	Gene Rufy2	Denn, ZFYVE1	RUN and FYVE domain-containing 2	NM_027425.3
26	Gene Hnrnp3	AA693301, Hn	heterogeneous nuclear ribonucleoprotein H3	NM_001079824.1
26	Gene Pbld2	Pbld2, 311004	phenazine biosynthesis-like protein domain containi	NM_026085.2
31	Gene 170012C	1700120B22Ri	RIKEN cDNA 1700120B22 gene	XM_001472938.2,
31	Gene Herc4	1700056O17Ri	hect domain and RLD 4	NM_030114.2, NM
31	Gene Gm1933	Gm19337	predicted gene, 19337	XR_141007.1, XR_
26	Gene Gm7075	EG631906, Gr	ring finger protein 7 pseudogene	
26	Gene Ctnna3	Catna3, Vr22, l	catenin (cadherin associated protein), alpha 3	NM_177612.3, NM
34	Gene Reep3	Reep3, AW742	receptor accessory protein 3	NM_178606.5, NM
21	Gene Jmjd1c	Jmjd1c, Jmjdic	jumonji domain containing 1C	NM_207221.2, NM
21	Gene Nrpf2	NRBF-2, Nrpf2	nuclear receptor binding factor 2	NM_001036293.2
38	Gene Egr2	Zfp-25, Krox-2l	early growth response 2	NM_010118.3

38	Gene Ado	MGC67243, Gr 2-aminoethanethiol (cysteamine) dioxygenase	NM_001005419.2
21	Gene Zfp365	talainin, Zfp365 zinc finger protein 365	NM_178679.2
24	Gene Rtkn2	Plekhk1, MGC: rhotekin 2	NM_001081346.1
26	Gene Rhobtb1	AV350930, Rho Rho-related BTB domain containing 1	NM_001081347.1
26	Gene A930033	A930033H14R RIKEN cDNA A930033H14 gene	XR_105403.3, XR_
39	Gene Cdk1	Cdk1, Cdc2, Cd cyclin-dependent kinase 1	NM_007659.3
20	Gene 4833431	4833431D13Ri RIKEN cDNA 4833431D13 gene	XR_168681.1, XR_
44	Gene Ccdc6	AA536681, AA coiled-coil domain containing 6	NM_001111121.1
19	Gene Bicc1	Bicc1, jcpk, Bic bicaudal C homolog 1 (Drosophila)	NM_031397.2
19	Gene C730027	C730027H18Ri RIKEN cDNA C730027H18 gene	NR_038040.1
31	Gene Tfam	tsHMG, A1661: transcription factor A, mitochondrial	NM_009360.4
24	Gene Ube2d1	Ube2d1, MGC28550, UBCH5	NM_145420.2
24	Gene Cisd1	AW743335, Zc CDGSH iron sulfur domain 1	NM_134007.4
24	Gene Ipmk	AA408208, Ipn inositol polyphosphate multikinase	NM_027184.1
30	Gene Rab36	6330593L16Ri RAB36, member RAS oncogene family	NM_029781.3
30	Gene Bcr	mKIAA3017, A breakpoint cluster region	NM_001081412.2
16	Gene Adora2a	A2AAR, A2aR, adenosine A2a receptor	NM_009630.2
27	Gene Gucd1	1110038D17Ri guanylyl cyclase domain containing 1	NM_175133.1
27	Gene Snrpd3	AW046420, 23 small nuclear ribonucleoprotein D3	NM_026095.4
26	Gene Der13	IZP6, MGC118: Der1-like domain family, member 3	NM_024440.2
26	Gene Smarcb1	MGC132387, SSWI/SNF related, matrix associated, actin dependent	NM_011418.2, NM
33	Gene Mmp11	Stmy3, ST3, M matrix metalloproteinase 11	NM_008606.2
33	Gene Chchd10	1620401E04Ri coiled-coil-helix-coiled-coil-helix domain containing	NM_175329.3
33	Gene Gm867	Gm867, Gm73 predicted gene 867	XR_106529.1, XR_
22	Gene Dip2a	Dip2, A142632: DIP2 disco-interacting protein 2 homolog A (Drosophila)	NM_001081419.2
22	Gene Pcmt	AW476095, KE pericentrin (kendrin)	NM_008787.3
25	Gene Pcbp3	Pcbp3, AlphaC poly(rC) binding protein 3	NM_021568.2
18	Gene Col18a1	Col18a1, endo collagen, type XVIII, alpha 1	NM_009929.3, NM
22	Gene Fam207	1810008A18Ri family with sequence similarity 207, member A	NM_133998.3
26	Gene Pttg1ip	AU018448, 18: pituitary tumor-transforming 1 interacting protein	NM_145925.2
33	Gene Sumo3	AW121497, 28 SMT3 suppressor of mif two 3 homolog 3 (yeast)	NM_019929.3
33	Gene Ube2g2	UBC7, D10Xrf3 ubiquitin-conjugating enzyme E2G 2	NM_019803.3
22	Gene Trpm2	Trpp7, Trp7, C7 transient receptor potential cation channel, subfamily	NM_138301.2
22	Gene 1810043	AV026620, D1: RIKEN cDNA 1810043G02 gene	NM_026431.2
28	Gene Pfkfb3	Pfkfb3, AA40786: phosphofructokinase, liver, B-type	NM_008826.4
22	Gene Dnmt3l	MGC102308, DNMT3L DNA (cytosine-5-)-methyltransferase 3-like	NM_001081695.1
22	Gene Icosl	Ly115l, B7-H2, icos ligand	NM_015790.3
20	Gene Pwp2	wdp103, MGC PWP2 periodic tryptophan protein homolog (yeast)	NM_029546.2, XM
29	Gene Trappc1	Tmem1, Trapp trafficking protein particle complex 10	NM_001081055.1
20	Gene Cstb	AA960480, Cst cystatin B	NM_007793.3
21	Gene Pdxk	AA119688, 23: pyridoxal (pyridoxine, vitamin B6) kinase	NM_172134.2
25	Gene Mier2	2700087H15Ri mesoderm induction early response 1, family member	NM_027422.2
20	Gene Shc2	6720466E06, SSHC (Src homology 2 domain containing) transforming	NM_001024539.1
20	Gene Odf3l2	Odf3l2, Gm11: outer dense fiber of sperm tails 3-like 2	NM_001033473.2
33	Gene Madcam1	MGC144711, MadCAM1 mucosal vascular addressin cell adhesion molecule 1	NM_013591.2
33	Gene Tpgs1	PGs1, AV005629, Gm16517, Gtrgeo22, Tpgs1	NM_148934.2
28	Gene Cdc34	Cdc34, A13272 cell division cycle 34	NM_177613.2

24	Gene Hcn2	trls, Hcn2, BCN hyperpolarization-activated, cyclic nucleotide-gated	NM_008226.2
24	Gene Polrmt	1110018N15Ri polymerase (RNA) mitochondrial (DNA directed)	NM_172551.3
20	Gene Fgf22	2210414E06Ri fibroblast growth factor 22	NM_023304.1
20	Gene Rnf126	2610010O19Ri ring finger protein 126	NM_144528.3, NR
20	Gene Fstl3	Fstl3, Flrg, E03 follistatin-like 3	NM_031380.2
18	Gene Prss57	UNQ782, GLGI protease, serine 57	NM_001042710.1
18	Gene Palm	Palm paralemmin	NM_023128.4, NM
28	Gene E130317	E130317F20Ri RIKEN cDNA E130317F20 gene	NR_029447.1
28	Gene Ptbp1	Ptbp1, PTB4, p polypyrimidine tract binding protein 1	NM_001077363.1
28	Gene BC00576	Lppr3, Prg2, KI cDNA sequence BC005764	NM_181681.2, NR
21	Gene Prtn3	mPR3, Prtn3, F proteinase 3	NM_011178.2
17	Gene Elane	F430011M15R elastase, neutrophil expressed	NM_015779.2
17	Gene Cfd	DF, Cfd, Adn complement factor D (adipsin)	NM_013459.2
19	Gene Med16	95kDa, A63008 mediator complex subunit 16	NM_198107.2, NM
29	Gene R3hdm4	R3hdm4, AI50: R3H domain containing 4	NM_177994.4
29	Gene Kiss1r	Kiss1r, KiSS-1, KISS1 receptor	NM_053244.5
29	Gene Arid3a	Dri1, Bright, ArAT rich interactive domain 3A (BRIGHT-like)	NM_007880.3
23	Gene Wdr18	AW122032, W WD repeat domain 18	NM_175450.4
23	Gene Grin3b	Grin3b, NR3B, glutamate receptor, ionotropic, NMDA3B	NM_130455.2
24	Gene Tmem25	Tmem259, R32 transmembrane protein 259	NM_001003949.3
24	Gene Cnn2	Cnn2, AI32467 calponin 2	NM_007725.2
24	Gene Abca7	Abca7, Abc51, ATP-binding cassette, sub-family A (ABC1), member	NM_013850.1
25	Gene Gpx4	mtPHGPx, PHG glutathione peroxidase 4	NM_001037741.2,
32	Gene Sbno2	Sno, Sbno2, St strawberry notch homolog 2 (Drosophila)	NM_183426.1
41	Gene Stk11	Lkb1, Stk11, P2 serine/threonine kinase 11	NM_011492.3
48	Gene Dos	R29144/1, Dos downstream of Stk11	NM_001195268.1
48	Gene Atp5d	AI876556, C85 ATP synthase, H+ transporting, mitochondrial F1 cor	NM_025313.2
48	Gene Midn	Midn, 300000: midnolin	NM_021565.1
40	Gene Cirbp	Cirbp, R74941, cold inducible RNA binding protein	NM_007705.2
40	Gene 1600002	1600002K03Rik	NM_027207.2
31	Gene Efna2	Efna2, CEK7L, Iephrin A2	NM_007909.3
18	Gene Mum1	UBE-1C2, 943C melanoma associated antigen (mutated) 1	NM_023431.5
33	Gene Ndufs7	1010001M04R NADH dehydrogenase (ubiquinone) Fe-S protein 7	NM_029272.3
33	Gene Gamt	AA571402, Spi guanidinoacetate methyltransferase	NM_010255.3
55	Gene Dazap1	2410042M16R DAZ associated protein 1	NM_133188.2, NM
55	Gene Gm1512	Gm15122, AI41 predicted gene 15122	XR_141027.1, XR_
55	Gene Rps15	rig, Rps15 ribosomal protein S15	NM_009091.2
55	Gene Apc2	Apc2, APCL, AI adenomatosis polyposis coli 2	NM_011789.2
24	Gene 2310011	AI452186, 231 RIKEN cDNA 2310011J03 gene	NM_025521.3
24	Gene Pcsk4	Pcsk4, 071000: proprotein convertase subtilisin/kexin type 4	NM_008793.2
24	Gene Reep6	0610011M24R receptor accessory protein 6	NM_001204931.1
23	Gene Adamts1	2010109H09Ri ADAMTS-like 5	NM_025629.2, NM
19	Gene Plk5	Plk5, MGC106082, 6330514A18Rik	NM_183152.3
47	Gene Mex3d	Rkhd1, BC0598 mex3 homolog D (C. elegans)	NM_198615.2
47	Gene Mbd3	Mbd3, AU0192 methyl-CpG binding domain protein 3	NM_013595.2
25	Gene Tcf3	E12/E47, E2A, transcription factor 3	NM_001164147.1
24	Gene Atp8b3	SAPLT, 170004 ATPase, class I, type 8B, member 3	NM_026094.3

25	Gene Rexo1	EloA-BP1, 261(R	EX1, RNA exonuclease 1 homolog (<i>S. cerevisiae</i>)	NM_025852.3
36	Gene Klf16	DRRF, Klf16, B'	Kruppel-like factor 16	NM_078477.2
36	Gene Abhd17a	Abhd17a, MG	(abhydrolase domain containing 17A	NM_145421.2
33	Gene Adat3	MGC65589, A'	adenosine deaminase, tRNA-specific 3	NM_001100606.1
33	Gene Scamp4	Scamp4, AW7'	secretory carrier membrane protein 4	NM_019575.4
18	Gene Csnk1g2	Csnk1g2, 2810	casein kinase 1, gamma 2	NM_001159591.1
18	Gene Btd2	4930512K17Ri	BTB (POZ) domain containing 2	NM_145361.2
27	Gene Ap3d1	AA407035, mE	adaptor-related protein complex 3, delta 1 subunit	NM_007460.1
28	Gene Dot1l	KMT4, mDot1,	DOT1-like, histone H3 methyltransferase (<i>S. cerevisi</i>	NM_199322.1
39	Gene Plekhj1	9530063M10R	pleckstrin homology domain containing, family J me	NM_023900.2
39	Gene Sf3a2	SFA66, AW047	splicing factor 3a, subunit 2	NM_013651.4
39	Gene Amh	MIS, Amh	anti-Mullerian hormone	NM_007445.2
39	Gene Jsrp1	JP-45, 231003	junctional sarcoplasmic reticulum protein 1	NM_028001.3
22	Gene Oaz1	AZ1, ODC-Az,	ornithine decarboxylase antizyme 1	NM_008753.4
22	Gene Mir1982	mmu-mir-198	microRNA 1982	NR_035503.1
22	Gene Lingo3	LERN2, Lingo3,	leucine rich repeat and Ig domain containing 3	NM_001013758.2
31	Gene Lsm7	0910001B06Ri	LSM7 homolog, U6 small nuclear RNA associated (<i>S.</i>	NM_025349.2
31	Gene Sppl2b	AW550292, Sp	signal peptide peptidase like 2B	NM_175195.3
23	Gene Tmprss9	Serase-1B, Tm	transmembrane protease, serine 9	NM_001081688.2
23	Gene Timm13	Tim9, Timm9,	translocase of inner mitochondrial membrane 13	NM_013895.4
23	Gene Lmnb2	Lmnb2	lamin B2	NM_010722.5
33	Gene Gadd45b	Gadd45b, A132	growth arrest and DNA-damage-inducible 45 beta	NM_008655.1
24	Gene Slc39a3	MGC109671, I	solute carrier family 39 (zinc transporter), member 3	NM_134135.1
24	Gene Sgta	Sgta, Stg, Sgt,	I small glutamine-rich tetratricopeptide repeat (TPR)-	NM_024499.1
38	Gene Creb3l3	Creb3l3, CREB-	cAMP responsive element binding protein 3-like 3	NM_145365.3
38	Gene Map2k2	Prkmk2, Map2	mitogen-activated protein kinase kinase 2	NM_023138.4
27	Gene Zbtb7a	FBI-1, Pokemo	zinc finger and BTB domain containing 7a	NM_010731.3
27	Gene Pias4	Pias-gamma, P	protein inhibitor of activated STAT 4	NM_021501.4
26	Gene Eef2	MGC98463, Ee	eukaryotic translation elongation factor 2	NM_007907.2
26	Gene Dapk3	Dapk3, ZIPK		NM_001190473.1
26	Gene 2310050	2310050B05Ri	RIKEN cDNA 2310050B05 gene	NR_015477.1
26	Gene Nmrk2	Nmrk2, 2310015	C21Rik, Itgb1bp3, Mibp	NM_027120.2
33	Gene Tjp3	Tjp3, ZO-3	tight junction protein 3	NM_013769.2
33	Gene Pip5k1c	Pip5kIgamma,	phosphatidylinositol-4-phosphate 5-kinase, type 1 g	NM_008844.2, NM
24	Gene Cactin	2510012J08Ri	cactin, spliceosome C complex subunit	NM_027381.2
24	Gene Tbx2r	MGC107665, T	thromboxane A2 receptor	NM_009325.3
24	Gene Gipc3	Gipc3, Rgs19ip	GIPC PDZ domain containing family, member 3	NM_148951.1
27	Gene Hmg20b	Hmgx2, AW61	high mobility group 20B	NM_010440.3, NM
27	Gene Mfsd12	MGC148235, F	major facilitator superfamily domain containing 12	NM_028657.3
27	Gene 4930404	2210409H10Ri	RIKEN cDNA 4930404N11 gene	NM_001014836.3
27	Gene Fzr1	FZR2, HCDH, F.	fizzy/cell division cycle 20 related 1 (<i>Drosophila</i>)	NM_019757.1
20	Gene Dohh	1110033C18Ri	deoxyhypusine hydroxylase/monooxygenase	NM_133964.2
20	Gene 2210404	2210404O07Rik		NM_001099917.1
22	Gene Nfic	NF1-C, 111001	nuclear factor I/C	NM_008688.3, NM
20	Gene Celf5	Celf5, 493056	CUGBP, Elav-like family member 5	NM_176954.3
32	Gene Gna11	Gna11, Dsk7,	Eguanine nucleotide binding protein, alpha 11	NM_010301.3
17	Gene Aes	Aes, AL024115	amino-terminal enhancer of split	NM_010347.3

17	Gene Tle2	Grg2, KIAA418 transducin-like enhancer of split 2, homolog of Dros	NM_001252401.1
28	Gene Ankrd24	5730519E19Ri ankyrin repeat domain 24	NM_027480.3
28	Gene Gm1077	ENSMUSG000(predicted gene 10778	NM_001142963.1
21	Gene AU0411	AU041133 expressed sequence AU041133	NM_001163064.1
36	Gene Glt8d2	Glt8d2, 11100:glycosyltransferase 8 domain containing 2	NM_029102.3
36	Gene Hcfc2	1700129L13Ril host cell factor C2	NM_001081218.1
27	Gene Chst11	C4ST1, Chst11, carbohydrate sulfotransferase 11	NM_021439.2
28	Gene D10Wsu	D10Wsu102e, DNA segment, Chr 10, Wayne State University 102, e	NM_026579.3
33	Gene Aldh1l2	MGC19039, D:aldehyde dehydrogenase 1 family, member L2	NM_153543.2
33	Gene A23004	A230046K03Ri RIKEN cDNA A230046K03 gene	NM_001033375.2
30	Gene Nuak1	Omphk1, AU0:NUAK family, SNF1-like kinase, 1	NM_001004363.1
28	Gene Ckap4	5630400A09Ri cytoskeleton-associated protein 4	NM_175451.1
39	Gene Tcpl1l2	E430026E19Ri t-complex 11 (mouse) like 2	NM_146008.2
33	Gene Fhl4	Fhl4 four and a half LIM domains 4	NM_010214.4
33	Gene AI59746	AI597468 expressed sequence AI597468	NM_001013028.2
39	Gene Cry1	AU021000, AU cryptochrome 1 (photolyase-like)	NM_007771.3
25	Gene Btbd11	6330404E16Ri BTB (POZ) domain containing 11	NM_001017525.1
33	Gene Pwp1	AW550690, 26 PWP1 homolog (S. cerevisiae)	NM_133993.3
26	Gene Prdm4	1700031E19Ri PR domain containing 4	NM_181650.2
25	Gene Ascl4	Ascl4, bHLHa4.achaete-scute complex homolog 4 (Drosophila)	NM_001163614.1
28	Gene D10Wsu	HSPC117, AI25 DNA segment, Chr 10, Wayne State University 52, e	NM_145422.4
40	Gene Bpifc	Bpifc, 4732454BPI fold containing family C	NM_177772.4
40	Gene Fbxo7	Fbxo7, A23005 F-box protein 7	NM_153195.2
27	Gene Syn3	Syn3, MGC130 synapsin III	NM_001164495.1
27	Gene Timp3	Timp3, Timp-3 tissue inhibitor of metalloproteinase 3	NM_011595.2
26	Gene BC0303	AI449705, Gnr cDNA sequence BC030307	NM_153595.3, NM
26	Gene Nt5dc3	AW540062, C6 5'-nucleotidase domain containing 3	NM_175331.3
29	Gene Parpbp	Parpbp, AI503 PARP1 binding protein	NM_029249.2
29	Gene Nup37	2410003L22Ril nucleoporin 37	NM_027191.2, NM
22	Gene Gnptab	KIAA1208, mKIN-acetylglucosamine-1-phosphate transferase, alph	NM_001004164.2
43	Gene Utp20	AA617408, mC UTP20, small subunit (SSU) processome component	NM_175158.3
26	Gene Uhrf1bp	KIAA0701, 201 UHRF1 (ICBP90) binding protein 1-like	NM_029166.2
22	Gene Apaf1	Apaf1, Apaf1l, apoptotic peptidase activating factor 1	NM_001042558.1,
22	Gene Ikbip	1700023M03R IKBKB interacting protein	NM_027078.2, NM
37	Gene Slc25a3	5730556H19Ri solute carrier family 25 (mitochondrial carrier, phos)	NM_133668.3
40	Gene Tmpo	AW214352, AI thymopoietin	NM_011605.2, NM
22	Gene Cdk17	Cdk17, 643059 cyclin-dependent kinase 17	NM_146239.2
22	Gene Mir1931	Mir1931, mmu microRNA 1931	NR_035452.1
17	Gene Ntn4	Ntn4	NM_021320.3
16	Gene Usp44	Usp44, E43000 ubiquitin specific peptidase 44	NM_183199.3, NM
24	Gene Vezt	vezatin, AI854. vezatin, adherens junctions transmembrane protein	NM_172538.4
24	Gene Fgd6	AA123052, Fgc FYVE, RhoGEF and PH domain containing 6	NM_053072.3
24	Gene Nr2c1	4831444H07Ri nuclear receptor subfamily 2, group C, member 1	NM_011629.3
33	Gene Tmcc3	C88213, MGC3 transmembrane and coiled coil domains 3	NM_172051.3, NM
30	Gene 4932415	4932415G12Ri RIKEN cDNA 4932415G12 gene	NR_015524.1
30	Gene Ccdc41	Ccdc41, 26000 coiled-coil domain containing 41	NM_029852.2
53	Gene Plxnc1	CD232, 25100. plexin C1	NM_018797.2

20	Gene Cradd	RAIDD, Cradd	CASP2 and RIPK1 domain containing adaptor with d	NM_009950.2
35	Gene Socs2	8030460M17,	suppressor of cytokine signaling 2	NM_007706.4, NM
35	Gene 573042C	5730420D15Ri	RIKEN cDNA 5730420D15 gene	NR_045338.1, NR_
29	Gene Ube2n	1500026J17Ri	ubiquitin-conjugating enzyme E2N	NM_080560.3
24	Gene Nudt4	HDCMB47P,	N nudix (nucleoside diphosphate linked moiety X)-type	NM_027722.4
24	Gene Mir3058	mmu-mir-3058	microRNA 3058	NR_037212.1
21	Gene Eea1	B230358H09Ri	early endosome antigen 1	NM_001001932.3
29	Gene Btg1	AI426953,	AW B cell translocation gene 1, anti-proliferative	NM_007569.2
31	Gene Atp2b1	E130111D10Ri	ATPase, Ca ⁺⁺ transporting, plasma membrane 1	NM_026482.2
25	Gene Poc1b	Poc1b,	Wdr51 POC1 centriolar protein homolog B (Chlamydomona	NM_027740.6
25	Gene Galnt4	AV011803,	Gal UDP-N-acetyl-alpha-D-galactosamine:polypeptide N	NM_015737.4
32	Gene Dusp6	Dusp6,	MKP3, dual specificity phosphatase 6	NM_026268.3
24	Gene Tmtc2	MGC116613,	T transmembrane and tetratricopeptide repeat containi	NM_177368.4
24	Gene Gm1566	OTTMUSG000i	predicted gene 15663	NR_038032.1
31	Gene Ppp1r12	AA792106,	AV protein phosphatase 1, regulatory (inhibitor) subuni	NM_027892.2
26	Gene Pawr	Pawr,	Par-4, 2: PRKC, apoptosis, WT1, regulator	NM_054056.2
29	Gene E2f7	E2f7,	A630014 E2F transcription factor 7	NM_178609.4
26	Gene Zdhhc17	Zdhhc17,	A23C zinc finger, DHHC domain containing 17	NM_172554.2
32	Gene Osbpl8	AA536976,	OR oxysterol binding protein-like 8	NM_175489.3, NM
28	Gene Nap1l1	AI256722,	Nap nucleosome assembly protein 1-like 1	NM_015781.4, NM
28	Gene Gm5176	Gm5176,	MGC high mobility group box 2 pseudogene	NR_033603.1
28	Gene Phlda1	TDAG51,	Phlda1 pleckstrin homology-like domain, family A, member	NM_009344.3
20	Gene Krr1	AI255219,	261 KRR1, small subunit (SSU) processome component, I	NM_178610.4
37	Gene Atxn7i3l	AI315132,	492 ataxin 7-like 3B	NM_001033474.2
37	Gene LOC544737		uncharacterized LOC544737	XR_168684.1, XR_
28	Gene Tbc1d15	AU023730,	Ral TBC1 domain family, member 15	NM_025706.3
22	Gene Rab21	Rab21,	963002 RAB21, member RAS oncogene family	NM_024454.1
22	Gene Gm1075	Gm10752,	ENS predicted gene 10752	XR_140995.1, XR_
29	Gene Thap2	AI649097,	903 THAP domain containing, apoptosis associated prote	NM_025780.3
29	Gene Zfc3h1	Psrc2,	BC03351 zinc finger, C3H1-type containing	NM_001033261.2
18	Gene Lgr5	Lgr5,	FEX, Gpr1 leucine rich repeat containing G protein coupled rec	NM_010195.2
18	Gene A930009	A930009A15Ri	RIKEN cDNA A930009A15 gene	NM_029982.1
16	Gene Ptprb	Ptpz,	Ptprb, 32 protein tyrosine phosphatase, receptor type, B	NM_029928.2
20	Gene Kcnmb4	MGC143660,	k potassium large conductance calcium-activated char	NM_021452.1
20	Gene 493340C	4933400F03Ri	RIKEN cDNA 4933400F03 gene	XR_105383.2, XR_
39	Gene Cnot2	AA537049,	AA CCR4-NOT transcription complex, subunit 2	NM_001037847.2,
39	Gene 5330438	5330438D12Ri	RIKEN cDNA 5330438D12 gene	XR_168475.1, XR_
32	Gene Cct2	Cct2,	Cctb chaperonin containing Tcp1, subunit 2 (beta)	NM_007636.2
32	Gene Frs2	4732458E18,	C fibroblast growth factor receptor substrate 2	NM_177798.3
37	Gene Mdm2	Mdm-2,	Mdm2 transformed mouse 3T3 cell double minute 2	NM_010786.3
21	Gene Rap1b	2810443E11Ri	RAS related protein 1b	NM_024457.2
38	Gene Dyrk2	Dyrk2,	181003 dual-specificity tyrosine-(Y)-phosphorylation regulat	NM_001014390.2
39	Gene Cand1	AI846556,	AI11 cullin associated and neddylation disassociated 1	NM_027994.1
22	Gene Irak3	4833428C18Ri	interleukin-1 receptor-associated kinase 3	NM_028679.3
35	Gene Tmbim4	AU022431,	Tm transmembrane BAX inhibitor motif containing 4	NM_026617.3
35	Gene Llph	MGC117871,	1LLP homolog, long-term synaptic facilitation (Aplysia	NM_025431.2
23	Gene Hmga2	Hmga2,	MGC1 high mobility group AT-hook 2	NM_010441.2

28	Gene Lemd3	Man1, AI3168f LEM domain containing 3	NM_001081193.2
29	Gene Gns	Gns, N28088, (glucosamine (N-acetyl)-6-sulfatase	NM_029364.3
28	Gene Rassf3	Rassf3, AW212 Ras association (RalGDS/AF-6) domain family memb	NM_138956.3
40	Gene Xpot	3110065H13Ri exportin, tRNA (nuclear export receptor for tRNAs)	NM_001081056.1
30	Gene BC048403	E030027L10, B cDNA sequence BC048403	NM_173022.2
24	Gene Tmem5	Tmem5, MGC1transmembrane protein 5	NM_153059.1
21	Gene Mirlet7i	Mirlet7i, Mir1 microRNA let7i	NR_029527.1
21	Gene Mon2	Mon2, mKIAA1MON2 homolog (yeast)	NM_153395.2, NM
26	Gene Usp15	E430033I05Ri ubiquitin specific peptidase 15	NM_027604.3
26	Gene Gm4129	Gm4129 predicted gene 4129	XR_105393.2, XR_
17	Gene Fam19a	6330575M02, family with sequence similarity 19, member A2	NM_182807.3, NR
26	Gene Lrig3	9030421L11Ri leucine-rich repeats and immunoglobulin-like domain	NM_177152.5
33	Gene Ctdsp2	OS4, D10ErtD7 CTD (carboxy-terminal domain, RNA polymerase II, p	NM_146012.2, NM
29	Gene Avil	Avil, DOC6, Ad advillin	NM_009635.3
29	Gene Tsfm	EF-TS, 943002 Ts translation elongation factor, mitochondrial	NM_025537.3
35	Gene LOC100504608	protein FAM119B-like	NM_001205036.1
35	Gene Mettl1	2810012D02Ri methyltransferase like 1	NM_010792.1
35	Gene Cyp27b1	Cyp27b, MGC9 cytochrome P450, family 27, subfamily b, polypeptic	NM_010009.2
25	Gene March9	March9, BC01 membrane-associated ring finger (C3HC4) 9	NM_001033262.2
25	Gene Cdk4	Cdk4, Crk3 cyclin-dependent kinase 4	NM_009870.3
25	Gene Tspan31	Tspan31, Sas, tetraspanin 31	NM_025982.4
25	Gene A730063	A730063M14R RIKEN cDNA A730063M14 gene	NR_040660.1
21	Gene Os9	4632413K17Ri amplified in osteosarcoma	NM_177614.3, NM
19	Gene B4galnt1	GalNAcT, Gal-T beta-1,4-N-acetyl-galactosaminyl transferase 1	NM_001244617.1
19	Gene Slc26a10	Slc26a10, MGC solute carrier family 26, member 10	NM_177615.3
20	Gene Arhgef2	GEFT, D10ErtD Rho guanine nucleotide exchange factor (GEF) 25	NM_028027.3, NM
20	Gene Dtx3	Deltex3, mg31 deltex 3 homolog (Drosophila)	NM_030714.2
20	Gene F420014	ENSMUSG000 RIKEN cDNA F420014N23 gene	NR_045715.1, NR_
20	Gene Pip4k2c	Pip5k2c, Pip4k phosphatidylinositol-5-phosphate 4-kinase, type II, g	NM_054097.3
23	Gene Mars	Mars, Mtrns, methionine-tRNA synthetase	NM_001171582.1,
19	Gene Gli1	Gli1, Zfp5, Zfp-GLI-Kruppel family member GLI1	NM_010296.2
19	Gene Inhbe	Inhbe	NM_008382.2
20	Gene Ndufa4l2	Ndufa4l2, BC0 NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_001098789.1
20	Gene Shmt2	2700043D08Ri serine hydroxymethyltransferase 2 (mitochondrial)	NM_001252316.1
20	Gene Nxp4	AI851051, 111 neurexophilin 4	NM_183297.2
32	Gene Stat6	Stat6 signal transducer and activator of transcription 6	NM_009284.2
32	Gene Nab2	AI451907, Nab Ngfi-A binding protein 2	NM_008668.2, NM
32	Gene 1700012	1700012D01Ri RIKEN cDNA 1700012D01 gene	NR_045171.1
30	Gene Tmem194	MGC40914, Tr transmembrane protein 194	NM_001113211.1
19	Gene Zbtb39	mKIAA0352, 7I zinc finger and BTB domain containing 39	NM_198035.1
19	Gene Gpr182	G10-D, Gpcr22 G protein-coupled receptor 182	NM_007412.2
32	Gene Prim1	Prim1, AI3249 DNA primase, p49 subunit	NM_008921.2
32	Gene Naca	AL024382, mK nascent polypeptide-associated complex alpha poly	NM_013608.3, NM
28	Gene Ptges3	Ptges3, Ptges, prostaglandin E synthase 3 (cytosolic)	NM_019766.4
28	Gene Atp5b	Atp5b	NM_016774.3
28	Gene Mir677	Mir677, Mirn6 microRNA 677	NR_030442.2
28	Gene Baz2a	AA415431, Ba bromodomain adjacent to zinc finger domain, 2A	NM_054078.2, XM

30	Gene Gls2	Lga, A330074Bglutaminase 2 (liver, mitochondrial)	NM_001033264.3
18	Gene Mip	Mip, Hfi, Lop, I major intrinsic protein of eye lens fiber	NM_008600.4
18	Gene Timeless	C77407, tim, T timeless circadian clock 1	NM_011589.2, NM
22	Gene Cs	Cs, BB234005, citrate synthase	NM_026444.3
19	Gene Coq10a	Coq10a, Gm1, coenzyme Q10 homolog A (yeast)	NM_001081040.1
19	Gene Ankrd52	6430544C07, / ankyrin repeat domain 52	NM_172790.2
26	Gene Smarcc2	5930405J04Ri SWI/SNF related, matrix associated, actin dependen	NM_198160.2, NM
37	Gene Esyt1	Fam62a, Mbc2 extended synaptotagmin-like protein 1	NM_011843.2
26	Gene Dgka	Dgka, 80kDa, / diacylglycerol kinase, alpha	NM_016811.2
26	Gene Wibg	A030010B05Ri within bgcn homolog (Drosophila)	NM_001170869.2,
33	Gene Mmp19	Mmp19, MGC: matrix metalloproteinase 19	NM_021412.2, NM
33	Gene Tmem19	1110012D08Ri transmembrane protein 198b	NM_178066.2
33	Gene Dnajc14	DRIP78, Dnajc: DnaJ (Hsp40) homolog, subfamily C, member 14	NM_028873.4
35	Gene Cd63	Cd63, Tspan30 CD63 antigen	NM_007653.3, NM
35	Gene Rdh5	AI987873, RDL retinol dehydrogenase 5	NM_134006.4
35	Gene Bloc1s1	BLOS1, AI8397 biogenesis of lysosome-related organelles complex-	NM_015740.3
35	Gene Itga7	[a]7, Itga7, alp integrin alpha 7	NM_008398.2
34	Gene Drg1	AI132520, Drg developmentally regulated GTP binding protein 1	NM_007879.1
47	Gene Patz1	Zfp278, 84304 POZ (BTB) and AT hook containing zinc finger 1	NM_019574.3, NM
22	Gene Gm1259	OTTMUSG000i predicted gene 12592	XR_105429.2, XR_
22	Gene Pik3ip1	Hgfl, Pik3ip1, 5 phosphoinositide-3-kinase interacting protein 1	NM_178149.4
22	Gene Limk2	Limk2, Limk2b, LIM motif-containing protein kinase 2	NM_173053.1, NM
22	Gene Rnf185	AL033296, Rnf ring finger protein 185	NM_145355.4
26	Gene Tug1	Tug1, AI31682 taurine upregulated gene 1	NR_002322.1, NR_
26	Gene Morc2a	Zcwcc1, 84304 microrchidia 2A	NM_198162.1, NM
31	Gene Ccdc157	mKIAA1656, KI coiled-coil domain containing 157	NM_177616.3, NM
31	Gene Sf3a1	1200014H24Ri splicing factor 3a, subunit 1	NM_026175.5
22	Gene Tbc1d10	mFLJ00288, Tt TBC1 domain family, member 10a	NM_134023.1
22	Gene Gatsl3	Gatsl3, 24100C GATS protein-like 3	NM_028022.1
31	Gene Mtmr3	mKIAA0371, 1 myotubularin related protein 3	NM_028860.2
23	Gene Gas2l1	GAR22, D0Jmb growth arrest-specific 2 like 1	NM_001190406.1
23	Gene Rasl10a	2210403B10Ri RAS-like, family 10, member A	NM_145216.3
35	Gene Ewsr1	Ewsh, Ews, AU Ewing sarcoma breakpoint region 1	NM_007968.2
35	Gene Rhbdd3	Rhbdd3, Ptag, rhomboid domain containing 3	NM_177370.3
35	Gene Emid1	Emid1, CO-5, / EMI domain containing 1	NM_080595.2
22	Gene Kremen1	AV002070, Kre kringle containing transmembrane protein 1	NM_032396.3
18	Gene Znrf3	Gm1167, AA5 zinc and ring finger 3	NM_001080924.2
32	Gene Xbp1	D11Ert39e, X X-box binding protein 1	NM_013842.2
32	Gene Ccdc117	AV173073, Ccc coiled-coil domain containing 117	NM_134033.2
30	Gene Mrps24	Mrps24, AI414 mitochondrial ribosomal protein S24	NM_026080.2
30	Gene Urgcp	9130001121Ri upregulator of cell proliferation	NM_178623.3, NM
31	Gene 2210015	1600028117Ri RIKEN cDNA 2210015D19 gene	NR_015577.1
31	Gene Dbnl	Abp1, mAbp1, drebrin-like	NM_013810.3, NM
24	Gene Aebp1	Aebp1, ACLP AE binding protein 1	NM_009636.2
24	Gene Pold2	po1D2, p50, 5(polymerase (DNA directed), delta 2, regulatory subu	NM_008894.2
29	Gene Gck	GLK, Gck, MOE glucokinase	NM_010292.4
29	Gene Ykt6	AW105923, Yk YKT6 homolog (S. Cerevisiae)	NM_019661.4

31	Gene Nudcd3	BC024322, NudC domain containing 3	NM_173748.4
28	Gene Ddx56	Noh61, D11Ert DEAD (Asp-Glu-Ala-Asp) box polypeptide 56	NM_026538.3
28	Gene Tmed4	AI326346, 111 transmembrane emp24 protein transport domain c	NM_134020.1
32	Gene Ogdh	Ogdh, 221040: oxoglutarate (alpha-ketoglutarate) dehydrogenase (	NM_001252282.1,
30	Gene Zmiz2	2410117E06Ri zinc finger, MIZ-type containing 2	NM_028601.2, NM
30	Gene Ppia	2700098C05, C peptidylprolyl isomerase A	NM_008907.1
35	Gene Purb	Purb, 2310015 purine rich element binding protein B	NM_011221.3
28	Gene Myo1g	Myo1g, E4300i myosin IG	NM_178440.4
28	Gene Gm1197	OTTMUSG000i predicted gene 11974	NR_045893.1
25	Gene Ccm2	BC029157, Ccr cerebral cavernous malformation 2	NM_001190343.1
32	Gene Tbrg4	Tbrg4, 231004 transforming growth factor beta regulated gene 4	NM_134011.2, NM
32	Gene Snora5c	Snora5c, MBI- l small nucleolar RNA, H/ACA box 5C	NR_034042.1
32	Gene Wap	MGC25317, W whey acidic protein	NM_011709.5
20	Gene Igfbp3	IGfbp3, Igfbp: insulin-like growth factor binding protein 3	NM_008343.2
25	Gene Tns3	F830010I22Rik tensin 3	NM_001083587.1
29	Gene Hus1	mHus1, Hus1 Hus1 homolog (S. pombe)	NM_008316.4
29	Gene Sun3	MGC130135, [Sad1 and UNC84 domain containing 3	NM_177576.3
24	Gene Figl1	Figl1	NM_021891.3, NM
24	Gene Ddc	Aadc, Ddc dopa decarboxylase	NM_001190448.1
27	Gene Grb10	mKIAA0207, A growth factor receptor bound protein 10	NM_001177629.1
22	Gene Egfr	AI552599, Egfr epidermal growth factor receptor	NM_207655.2, NM
19	Gene 2810442	2810442I21Rik RIKEN cDNA 2810442I21 gene	NR_015469.1
19	Gene Fbxo48	A630050E13Ri F-box protein 48	NM_176982.2
23	Gene Etaa1	Etaa1, 573046 Ewing's tumor-associated antigen 1	NM_026576.3
21	Gene Meis1	C530044H18Ri Meis homeobox 1	NM_010789.3, NM
21	Gene LOC101055656	uncharacterized LOC101055656	XM_003945472.1,
28	Gene Spred2	Spred2, C7915 sprouty-related, EVH1 domain containing 2	NM_033523.4
27	Gene Actr2	Actr2, 492151(ARP2 actin-related protein 2	NM_146243.2
30	Gene Rab1	Rab-1, mKIAA 3 RAB1, member RAS oncogene family	NM_008996.3
26	Gene Cep68	6030463E10Ri centrosomal protein 68	NM_172260.3
27	Gene Slc1a4	ASCT-1, ASCT1 solute carrier family 1 (glutamate/neutral amino aci	NM_018861.3
30	Gene Sertad2	MNCb-1504, A SERTA domain containing 2	NM_001038625.1
25	Gene Aftph	9130023F12Ri aftiphilin	NM_001252503.1
35	Gene Peli1	AI586297, Peli pellino 1	NM_023324.2
23	Gene Ugp2	Ugp2, MGC38: UDP-glucose pyrophosphorylase 2	NM_139297.5
22	Gene Ehbp1	Flj21950, AF42 EH domain binding protein 1	NM_001252515.1
33	Gene Tmem17	Tmem17, AI50 transmembrane protein 17	NM_153596.3
15	Gene B3gnt2	AA408337, BG UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyl	NM_016888.5, NM
65	Gene Commd1	Commd1, U2/ICOMM domain containing 1	NM_144514.2
20	Gene Zrsr1	Irlgs2, SP2, U2: zinc finger (CCCH type), RNA binding motif and serin	NM_011663.3
65	Gene Cct4	Cct4, A45, 261 chaperonin containing Tcp1, subunit 4 (delta)	NM_009837.1
34	Gene Xpo1	Crm1, Xpo1, A. exportin 1, CRM1 homolog (yeast)	NM_134014.3, NM
32	Gene Usp34	A530081C03Ri ubiquitin specific peptidase 34	NM_001190401.2
32	Gene Ahsa2	FLJ36626, 111(AHA1, activator of heat shock protein ATPase 2	NM_172391.3
28	Gene Rel	c-Rel, Rel reticuloendotheliosis oncogene	NM_009044.2
22	Gene Papolg	9630006B20Ri poly(A) polymerase gamma	NM_172555.2
15	Gene A830031	Gm662, A830C RIKEN cDNA A830031A19 gene	XR_035331.1, XR_

15	Gene Bcl11a	Evi9b, Evi9, Cti B cell CLL/lymphoma 11A (zinc finger protein)	NM_016707.3, NM
32	Gene Pnpt1	PNPase, 1200C polyribonucleotide nucleotidyltransferase 1	NM_027869.1, XM
32	Gene A630052	A630052C17Ri RIKEN cDNA A630052C17 gene	XR_106647.2, XR_
32	Gene Smek2	AW011752, Kl.SMEK homolog 2, suppressor of mek1 (Dictyostelium	NM_134034.2
29	Gene Ccdc88a	AI848406, C13 coiled coil domain containing 88A	NM_176841.3
31	Gene Mtif2	2310038D14Ri mitochondrial translational initiation factor 2	NM_133767.2
31	Gene Rps27a	Rps27a, Uba52 ribosomal protein S27A	NM_024277.2, NM
31	Gene 1700034	1700034F02Rik, Clhc1	NM_028504.1, NM
29	Gene Rtn4	AA960376, mKreticulon 4	NM_024226.4, NM
29	Gene LOC101055730	uncharacterized LOC101055730	XR_168478.1, XR_
29	Gene Gm8098	Gm8098, EG66 predicted gene 8098	XR_168479.1
22	Gene Acyp2	Acyp2, 23100C acylphosphatase 2, muscle type	NM_029344.3
19	Gene Psme4	Psme4, KIAA0C proteasome (prosome, macropain) activator subunit	NM_134013.3
32	Gene Stc2	Stc2, mustc2, stanniocalcin 2	NM_011491.3
21	Gene Il9r	Il9r, MGC1305 interleukin 9 receptor	NM_008374.2, NM
21	Gene Snrnp25	AL033324, 33C small nuclear ribonucleoprotein 25 (U11/U12)	NM_030093.3
26	Gene Rhbdf1	Dist1, Egfr-rs, rhomboid family 1 (Drosophila)	NM_010117.2
26	Gene Mpg	9830006D05, N-methylpurine-DNA glycosylase	NM_010822.3
26	Gene Nprl3	CGTHBA, HS-40, m(alpha)RE, HS-26, Aag, Prox1, Phg, Nprl3, Mare	NM_181569.2
23	Gene Hba-x	AI450015, Hba hemoglobin X, alpha-like embryonic chain in Hba co	NM_010405.4
30	Gene Ubtd2	4930571L24, Ubiquitin domain containing 2	NM_173784.3
18	Gene Efcab9	1700007I06Rik EF-hand calcium binding domain 9	NM_027031.3
18	Gene Stk10	mKIAA4026, G serine/threonine kinase 10	NM_009288.2
28	Gene Fgf18	Fgf18, D13005 fibroblast growth factor 18	NM_008005.1
31	Gene Npm1	MGC102162, Nucleophosmin 1	NM_001252260.1,
21	Gene Tlx3	Rnx, Hox11l2, T cell leukemia, homeobox 3	NM_019916.2
21	Gene Ranbp17	Ranbp17, 4932 RAN binding protein 17	NM_023146.2
21	Gene Spdl1	Spdl1, 281004 spindle apparatus coiled-coil protein 1	NM_027411.2
22	Gene Pank3	Pank3, MGC38 pantothenate kinase 3	NM_145962.2
22	Gene Rars	AW985894, Rarginyl-tRNA synthetase	NM_025936.3
22	Gene Wwc1	AA408228, mKWW, C2 and coiled-coil domain containing 1	NM_170779.1
18	Gene Tenm2	D3Bwg1534e, teneurin transmembrane protein 2	NM_011856.3
33	Gene Mat2b	MATIIbeta, TG methionine adenosyltransferase II, beta	NM_134017.2, NM
33	Gene Hmnr	CD168, Hmnr, hyaluronan mediated motility receptor (RHAMM)	NM_013552.2
30	Gene Nudcd2	Nudcd2, 2700C NudC domain containing 2	NM_026023.4
18	Gene Pttg1	C87862, AW55 pituitary tumor-transforming gene 1	NM_013917.2, NM
18	Gene Slu7	D3Bwg0878e, SLU7 splicing factor homolog (S. cerevisiae)	NM_148673.3, NM
27	Gene Ccnjl	Gm877, Ccnjl cyclin J-like	NM_001045530.1
31	Gene Ublcp1	8430435I17Rik ubiquitin-like domain containing CTD phosphatase 1	NM_024475.5, XM
31	Gene Rnf145	3732413I11Rik ring finger protein 145	NM_028862.3, NM
20	Gene Ebf1	Ebf, O/E-1, Ebf early B cell factor 1	NM_007897.2
21	Gene F630206	F630206G17Ri RIKEN cDNA F630206G17 gene	NR_045876.1
21	Gene Clint1	KIAA0171, AW clathrin interactor 1	NM_001045520.3
23	Gene Lsm11	Lsm11, 22104C U7 snRNP-specific Sm-like protein LSM11	NM_028185.2
23	Gene Thg1l	Thg1l, 170012 tRNA-histidine guanylyltransferase 1-like (S. cerevisi	NM_001080969.2
18	Gene Cyfip2	1500004I01Rik cytoplasmic FMR1 interacting protein 2	NM_001252459.1
19	Gene Med7	Crsp9, Crsp33, mediator complex subunit 7	NM_025426.3, NM

38	Gene Gnb2l1	Rack1, Gnb2-r: guanine nucleotide binding protein (G protein), beta	NM_008143.3
38	Gene Snord96	Snord96a small nucleolar RNA, C/D box 96A	NR_028563.1
38	Gene Snord95	Snord95 small nucleolar RNA, C/D box 95	NR_028564.1
38	Gene Trim41	R75223, AW55 tripartite motif-containing 41	NM_145377.2
24	Gene Trim7	Trim7, AI7903: tripartite motif-containing 7	NM_053166.2
24	Gene Gm1617	OTTMUSG000i predicted gene 16170	XR_141058.1, XR_
17	Gene Olfr1394	Olfr1394, MOF olfactory receptor 1394	NM_146276.1
17	Gene Btnl9	D330012D11R butyrophilin-like 9	NM_172793.2
34	Gene Zfp62	AI227021, Zfp zinc finger protein 62	NM_001024846.1
31	Gene Cnot6	CCR4, MGC98 CCR4-NOT transcription complex, subunit 6	NM_212484.1
24	Gene Gfpt2	GFAT2, AI4805 glutamine fructose-6-phosphate transaminase 2	NM_013529.3
24	Gene Mapk9	AI851083, JNK mitogen-activated protein kinase 9	NM_207692.2, NM
23	Gene Tbc1d9b	AU019384, Tbc1 TBC1 domain family, member 9B	NM_029745.2
39	Gene 3010026	AI851514, 301 RIKEN cDNA 3010026O09 gene	NM_026543.3
39	Gene Sqstm1	STAP, p62, Sqs sequestosome 1	NM_011018.2
25	Gene Mgat4b	Mgat4b, GnTIV mannoside acetylglucosaminyltransferase 4, isoenzyme	NM_145926.3
25	Gene Ltc4s	Ltc4s	NM_008521.1
29	Gene Maml1	mKIAA0200, A mastermind like 1 (Drosophila)	NM_175334.3
34	Gene Canx	AI988026, Cnx calnexin	NM_007597.3, NM
43	Gene Hnrnph1	Hnrnph1, Hnr heterogenous nuclear ribonucleoprotein H1	NM_021510.2
24	Gene Adamts2	hPCPNI, A430C a disintegrin-like and metallopeptidase (reprolysin t	NM_175643.2
28	Gene BC04976	4930503F14, E cDNA sequence BC049762	NM_177567.3
28	Gene Clk4	C85119, Clk4, CDC like kinase 4	NM_007714.5
37	Gene Agxt2l2	Agxt2l2, 2900C alanine-glyoxylate aminotransferase 2-like 2	NM_028398.2
37	Gene Hnrnpab	Hnrnpab, CBF- heterogenous nuclear ribonucleoprotein A/B	NM_010448.3, NM
33	Gene Nhp2	Nola2, Nhp2, NHP2 ribonucleoprotein	NM_026631.3
33	Gene Rmnd5b	0610039K22Ri required for meiotic nuclear division 5 homolog B (S	NM_025346.1
26	Gene N4bp3	N4bp3, C3300: NEDD4 binding protein 3	NM_145974.3
17	Gene D930048	D930048N14R RIKEN cDNA D930048N14 gene	NR_027958.1
36	Gene Sec24a	9430090N21Ri Sec24 related gene family, member A (S. cerevisiae)	NM_175255.3
36	Gene Sar1b	Sara2, Sar1b, SAR1 gene homolog B (S. cerevisiae)	NM_025535.2
29	Gene Phf15	mKIAA0239, 1: PHD finger protein 15	NM_199299.3
27	Gene Ube2b	E2-14k, Ube2b, mHR6B, HR6B, Rad6b, 2610301N02Rik	NM_009458.4
27	Gene Cdkl3	B230379H01Ri cyclin-dependent kinase-like 3	NM_153785.4, NM
40	Gene Ppp2ca	PP2A, R75353, protein phosphatase 2 (formerly 2A), catalytic subun	NM_019411.4
30	Gene Skp1a	2610206H23Ri S-phase kinase-associated protein 1A	NM_011543.4
30	Gene LOC101056192	uncharacterized LOC101056192	XR_168612.1, XR_
24	Gene Tcf7	Tcf1, Tcf7, TCF transcription factor 7, T cell specific	NM_009331.3
24	Gene A630014	A630014C17Ri RIKEN cDNA A630014C17 gene	XR_106661.1, XR_
33	Gene Vdac1	Vdac1, Vdac5, voltage-dependent anion channel 1	NM_011694.4
17	Gene Fstl4	mKIAA1061, F: follistatin-like 4	NM_177059.3
48	Gene Hspa4	Hsp110, APG-2 heat shock protein 4	NM_008300.3
24	Gene Aff4	MGC107469, AF4/FMR2 family, member 4	NM_033565.2
26	Gene Gm1044	Gm10447, ENS predicted gene 10447	XR_141090.1, XR_
26	Gene Shroom1	Shroom1, Shrn shroom family member 1	NM_027917.2
22	Gene Gm9837	ENSMUSG000i predicted gene 9837	XR_035310.2, XR_
22	Gene Sowaha	Ankrd43, Sow: sosondowah ankyrin repeat domain family member	NM_183173.2

22	Gene Gm1983	Gm19835	predicted gene, 19835	XR_106662.1, XR_
31	Gene A430108	A430108G06R	RIKEN cDNA A430108G06 gene	XR_106663.1, XR_
31	Gene Kif3a	111-11-86,	AM kinesin family member 3A	NM_008443.3
28	Gene Rad50	Rad50I,	Mrell, RAD50 homolog (S. cerevisiae)	NM_009012.2
34	Gene Irf1	Irf-1,	Irf1, AU0 interferon regulatory factor 1	NM_008390.2, NM
20	Gene Slc22a21	Slc22a9,	Octn3 solute carrier family 22 (organic cation transporter),	NM_019723.2
20	Gene Slc22a4	Octn1,	Slc22a4 solute carrier family 22 (organic cation transporter),	NM_019687.3
22	Gene Fnip1	AI838773,	A73 folliculin interacting protein 1	NM_173753.4
35	Gene Cdc42se	Cdc42se2,	SPE CDC42 small effector 2	NM_178626.3
29	Gene Lyrn7	Lyrn7,	933014LYR motif containing 7	NM_029327.3
29	Gene Hint1	Hint,	AA67347 histidine triad nucleotide binding protein 1	NM_008248.2
26	Gene Tnip1	ABIN1,	VAN, N TNFAIP3 interacting protein 1	NM_001199275.1
32	Gene Anxa6	AW107198,	Ca annexin A6	NM_013472.4, NM
33	Gene Gm2a	Gm2a,	AA4087GM2 ganglioside activator protein	NM_010299.3
20	Gene 4921508	4921508A21Ri	RIKEN cDNA 4921508A21 gene	NR_046034.1
20	Gene Slc36a1	Slc36a1,	AI839 solute carrier family 36 (proton/amino acid symport	NM_153139.4
20	Gene Fam114	Fam114a2,	90: family with sequence similarity 114, member A2	NM_026342.3, NM
20	Gene Mfap3	2610509F16Ri	microfibrillar-associated protein 3	NM_180599.1, NM
22	Gene Galnt10	GalNAc-T10,	A UDP-N-acetyl-alpha-D-galactosamine:polypeptide N	NM_134189.2
22	Gene 4933426	4933426K07Ri	RIKEN cDNA 4933426K07 gene	XR_106230.1
26	Gene Sap30l	MGC151408,	L SAP30-like	NM_001081168.1
46	Gene Larp1	Larp,	1810024. La ribonucleoprotein domain family, member 1	NM_028451.1
28	Gene Gemin5	C330013N08,	gem (nuclear organelle) associated protein 5	NM_172558.3, NM
28	Gene Mrpl22	Mrpl22,	HSPC1 mitochondrial ribosomal protein L22	NM_175001.3
21	Gene Zfp692	AI746306,	Zfp6 zinc finger protein 692	NM_001040686.1
21	Gene Zfp672	Zfp672,	49304 zinc finger protein 672	NM_001256516.1
26	Gene Trim17	Rnf16,	Trim17, tripartite motif-containing 17	NM_031172.2
26	Gene 2310058	2310058D17Ri	RIKEN cDNA 2310058D17 gene	XR_106668.1, XR_
26	Gene Trim11	Trim11		NM_053168.1
28	Gene Gjc2	B230382L12Ri	gap junction protein, gamma 2	NM_080454.4, NM
28	Gene Guk1	Gmk,	AL03329 guanylate kinase 1	NM_008193.3, NM
41	Gene 2610507	2610507I01Ri	RIKEN cDNA 2610507I01 gene	NR_037964.1
41	Gene Mrpl55	2810038N09Ri	mitochondrial ribosomal protein L55	NM_026035.2
41	Gene 2310033	MGC7354,	231RIKEN cDNA 2310033P09 gene	NM_024210.2
41	Gene Arf1	Arf1	ADP-ribosylation factor 1	NM_007476.3, NM
19	Gene Zkscan1	Nizp1,	BC0402 zinc finger with KRAB and SCAN domains 17	NM_172941.3, NM
19	Gene 4933439	2610028M21R	RIKEN cDNA 4933439C10 gene	NR_015585.2
19	Gene Mprp	p116Rip,	MGC myosin phosphatase Rho interacting protein	NM_201245.3, NM
43	Gene Cops3	Csn3,	Cops3, S COP9 (constitutive photomorphogenic) homolog, su	NM_011991.1
43	Gene Nt5m	dNT-2,	2010015',3'-nucleotidase, mitochondrial	NM_134029.2
28	Gene Med9	Med25,	MGC3 mediator of RNA polymerase II transcription, subuni	NM_138675.3
28	Gene Rasd1	Dexas1,	Rasd:RAS, dexamethasone-induced 1	NM_009026.4
28	Gene Pemt	Pempt2,	AI255 phosphatidylethanolamine N-methyltransferase	NM_008819.2
34	Gene Rai1	Gt1,	Rai1 retinoic acid induced 1	NM_001037764.1
34	Gene 4930412	4930412M03R	RIKEN cDNA 4930412M03 gene	XR_141096.2
18	Gene Srebf1	bHLHd1,	ADD1 sterol regulatory element binding transcription fact	NM_011480.3
28	Gene Atpaf2	ATP12p,	Atpaf ATP synthase mitochondrial F1 complex assembly fa	NM_145427.2

28	Gene	Gid4	4933439F18Ri	GID complex subunit 4, VID24 homolog (S. cerevisiae)	NM_025757.4
40	Gene	Myo15		sh-2, Myo15, s myosin XV	NM_010862.2, NM
40	Gene	Alkbh5		Ofoxd, Alkbh5, alkB, alkylation repair homolog 5 (E. coli)	NM_172943.4
24	Gene	Llgl1		Llglh, AI32517I lethal giant larvae homolog 1 (Drosophila)	NM_008502.2, NM
23	Gene	Flii		Flii, Fliih, 3632. flightless I homolog (Drosophila)	NM_022009.1
23	Gene	Smcr7		Gm11, AI4821I Smith-Magenis syndrome chromosome region, cand	NM_001009927.1
23	Gene	Mir5100		mu-mir-5100, microRNA 5100	NR_039559.1
37	Gene	Tmem11A	AA409091,	Tm transmembrane protein 11	NM_173453.3, NM
31	Gene	Gm1651		Gm16515, Gtlf predicted gene, Gm16515	NM_025294.5
31	Gene	Gm1651		Gm16516, F3-: predicted gene, Gm16516	NR_027800.1
33	Gene	Usp22		MGC91200, U: ubiquitin specific peptidase 22	NM_001004143.4
29	Gene	Aldh3a2		Aldh4, Ahd3, A aldehyde dehydrogenase family 3, subfamily A2	NM_007437.4
23	Gene	Slc47a2		Slc47a2, 49334 solute carrier family 47, member 2	NM_001033542.2
23	Gene	Slc47a1		1300013J15Ri solute carrier family 47, member 1	NM_026183.5
32	Gene	Gm1227		Gm12271, OTI predicted gene 12271	XM_890719.4
31	Gene	Mfap4		1110007F23Ri microfibrillar-associated protein 4	NM_029568.2
31	Gene	Mapk7		BMK1, PRKM7 mitogen-activated protein kinase 7	NM_011841.1
31	Gene	3110043	3110043A19Ri	RIKEN cDNA 3110043A19 gene	XR_141098.1
23	Gene	B9d1		Eppb9, B9, AW B9 protein domain 1	NM_013717.2
23	Gene	Epn2		Epn2, 9530051 epsin 2	NM_001252188.1
33	Gene	Ulk2		Ulk2, mKIAA06unc-51 like kinase 2	NM_013881.4
28	Gene	Akap10		Akap10, D-AK/ A kinase (PRKA) anchor protein 10	NM_019921.2
20	Gene	LOC101055684		cytospin-B-like	XM_003945641.1
24	Gene	Specc1		KIAA4061, B230396K10Rik, mKIAA4061, Specc1, Cytsb, 2810012G0	NM_001029936.2
26	Gene	Adora2b		AI480866, MG adenosine A2b receptor	NM_007413.4
27	Gene	Ncor1		mKIAA1047, 5' nuclear receptor co-repressor 1	NM_001252313.1
27	Gene	Pigl		Pigl, MGC1068 phosphatidylinositol glycan anchor biosynthesis, cla	NM_001039536.2
23	Gene	Gm1227		OTTMUSG000I predicted gene 12279	XR_106673.1, XR_
23	Gene	Ubb		Rps27a, Ubb2, ubiquitin B	NM_011664.3
44	Gene	Trpv2		Trpv2, Vrl1, GF transient receptor potential cation channel, subfam	NM_011706.2
44	Gene	2410006	2410006H16Ri	RIKEN cDNA 2410006H16 gene	NR_030738.1
44	Gene	Snord49		MBII-252, Snoi small nucleolar RNA, C/D box 49B	NR_028526.1
44	Gene	Snord49		MBII-243, Snoi small nucleolar RNA, C/D box 49A	NR_028550.1
44	Gene	Snord65		MBII-135, Snoi small nucleolar RNA, C/D box 65	NR_028541.1
44	Gene	Fam211		BC046404, Far family with sequence similarity 211, member A	NM_198861.1
24	Gene	Mmgt2		AI852046, Mm membrane magnesium transporter 2	NM_175002.2
20	Gene	Fbxw10		Fbw10, Fbxw1 F-box and WD-40 domain protein 10	NM_001033669.2
20	Gene	Tvp23b		1810036I24Rik trans-golgi network vesicle protein 23B	NM_026210.4
25	Gene	Pmp22		Pmp22, HNPP, peripheral myelin protein 22	NM_008885.2
25	Gene	Hs3st3b		Hs3st3b, AU04 heparan sulfate (glucosamine) 3-O-sulfotransferase	NM_018805.2
27	Gene	F930015	F930015N05Ri	RIKEN cDNA F930015N05 gene	NR_028445.1
27	Gene	Hs3st3a		Hs3st3a, Hs3st heparan sulfate (glucosamine) 3-O-sulfotransferase	NM_178870.5
16	Gene	Map2k4		Serk1, Sek1, M mitogen-activated protein kinase kinase 4	NM_009157.4
16	Gene	LOC101055694		uncharacterized LOC101055694	XR_168613.1
19	Gene	Dnahc9		mKIAA0357, 9I dynein, axonemal, heavy chain 9	NM_001099633.1
21	Gene	Shisa6		Shisa6, Gm879 shisa homolog 6 (Xenopus laevis)	NM_001034874.3
24	Gene	Myh10		Myhn2, Myhn- myosin, heavy polypeptide 10, non-muscle	NM_175260.2

36	Gene Rnf222	Rnf222, 99300 ring finger protein 222	NM_177060.3
36	Gene Rpl26	SIG-20, Rpl26 ribosomal protein L26	NM_009080.2
28	Gene Ctc1	AAF132, 1500CTS telomere maintenance complex component 1	NM_001013256.2
28	Gene Aurkb	STK-1, Stk5, Aurora kinase B	NM_011496.1
26	Gene 2310047	2310047M10Rik	NM_028005.3
26	Gene Tmem10C	1110004B13Ri transmembrane protein 107	NM_025838.2, NM
37	Gene Vamp2	Syb2, Syb-2, VAMP vesicle-associated membrane protein 2	NM_009497.3
37	Gene Per1	Per1, mPer1, Mperiod circadian clock 1	NM_011065.4, NM
28	Gene 9130213	9130213A22Ri RIKEN cDNA 9130213A22 gene	XR_141105.2, XR_
28	Gene Hes7	bHLHb37, Hes7 hairy and enhancer of split 7 (Drosophila)	NM_033041.4
28	Gene Aloxe3	Aloxe3, MGC1 arachidonate lipoxygenase 3	NM_011786.2
22	Gene Gucy2e	GC-E, GC1, Guanylate cyclase 2e	NM_008192.3
26	Gene Cntrob	9830165K03Ri centrobins, centrosomal BRCA2 interacting protein	NM_172560.3
26	Gene Trappc1	MUM2, BET5, trafficking protein particle complex 1	NM_001024206.2
26	Gene Kcnab3	Kcnab4, Kcnab potassium voltage-gated channel, shaker-related subunit	NM_010599.4
18	Gene A030009	A030009H04R RIKEN cDNA A030009H04 gene	NR_027827.1
23	Gene Chd3	2600010P09Ri chromodomain helicase DNA binding protein 3	NM_146019.3
25	Gene Cyb5d1	Gm740, Cyb5d cytochrome b5 domain containing 1	NM_001045525.1
25	Gene Lsm1	Lsm1, 15000LSM domain containing 1	NM_030083.2
31	Gene Tmem88	Tmem88, 2600transmembrane protein 88	NM_025915.4
31	Gene Kdm6b	Jmjd3, KIAA03KDM1 lysine (K)-specific demethylase 6B	NM_001017426.1
31	Gene Dnahc2	4930564A01, Dynein, axonemal, heavy chain 2	NM_001081330.1
19	Gene Efnb3	NLERK-2, Epl8, ephrin B3	NM_007911.5
19	Gene Wrap53	Wdr79, BC021 WD repeat containing, antisense to TP53	NM_144824.2
33	Gene Atp1b2	Amog, Atp1b2 ATPase, Na ⁺ /K ⁺ transporting, beta 2 polypeptide	NM_013415.5
33	Gene Shbg	Shbg, ABP sex hormone binding globulin	NM_011367.2
23	Gene Sat2	MGC74376, SS spermidine/spermine N1-acetyl transferase 2	NM_026991.2
23	Gene Fxr2	Fxr2h, Fxr2 fragile X mental retardation, autosomal homolog 2	NM_011814.2
23	Gene Mir467f	mmu-mir-467f microRNA 467f	NR_035420.1
54	Gene Mpdu1	Supl15h, Mpdu1 mannose-P-dolichol utilization defect 1	NM_011900.3
54	Gene Mir1934	Mir1934, mmu microRNA 1934	NR_035455.1
54	Gene Cd68	gp110, Scard1, CD68 antigen	NM_009853.1
54	Gene Eif4a1	Ddx2a, BM-01 eukaryotic translation initiation factor 4A1	NM_144958.4, NM
54	Gene Senp3	Smt3ip1, AA40SUMO/sentrin specific peptidase 3	NM_030702.4, NM
54	Gene 2010012	2010012P19Ri RIKEN cDNA 2010012P19 gene	XR_106197.1
54	Gene Tnfsf13	Trdl1, Tnfsf13, tumor necrosis factor (ligand) superfamily, member 13	NM_023517.2, NM
54	Gene BC09644	BC096441, Twi cDNA sequence BC096441	NM_001034097.2
28	Gene Tnfsf12	Tnfsf12, APO3 tumor necrosis factor (ligand) superfamily, member 12	NM_011614.3
23	Gene Polr2a	Rpb1, 220kDa, polymerase (RNA) II (DNA directed) polypeptide A	NM_009089.2
23	Gene Slc35g3	Amac1, Slc35g solute carrier family 35, member G3	NM_019871.2
23	Gene Zbtb4	Zbtb4, 231002 zinc finger and BTB domain containing 4	NM_029348.2
23	Gene Chrn1	Achr-2, Chrn1 cholinergic receptor, nicotinic, beta polypeptide 1 (rat)	NM_009601.4
23	Gene Fgf11	Fhf3, Fgf11 fibroblast growth factor 11	NM_010198.1
23	Gene Tmem10C	Tmem102, Cb2 transmembrane protein 102	NM_001033433.4
23	Gene G630025	4632403M07R RIKEN cDNA G630025P09 gene	NR_027913.1
21	Gene 4933402	4933402P03Rik, RP23-422L16.21	NM_175368.1
21	Gene Spem1	RP23-422L16.2 sperm maturation 1	NM_028855.1

21	Gene Nlgn2	NL2, MGC6738	neuroigin 2	NM_198862.2
18	Gene Tmem95	Tmem95, 4325	transmembrane protein 95	NM_001195710.1
18	Gene Kctd11	Ren, Kctd11, A	potassium channel tetramerisation domain containi	NM_153143.4
21	Gene Acap1	MGC25782, Cε	ArfGAP with coiled-coil, ankyrin repeat and PH dom	NM_153788.3
21	Gene 2810408	1700019L01Ri	RIKEN cDNA 2810408A11 gene	NM_027419.3
37	Gene Neurl4	0610025P10Ri	neuralized homolog 4 (Drosophila)	NM_001013414.2
37	Gene Gps2	AI505953, Gps	G protein pathway suppressor 2	NM_019726.3
37	Gene Eif5a	MGC6725, Eif4	eukaryotic translation initiation factor 5A	NM_001166589.1,
22	Gene Elp5	Rai12, Derp6, I	elongator acetyltransferase complex subunit 5	NM_018740.2, NM
30	Gene Ctdnep1	2610507E10Ri	CTD nuclear envelope phosphatase 1	NM_026017.2
30	Gene Gabarap	Gabarap	gamma-aminobutyric acid receptor associated prote	NM_019749.4
30	Gene Phf23	Phf23, 241014	PHD finger protein 23	NM_030064.3
30	Gene Dvl2	Dvl2		NM_007888.3
30	Gene Acadvl	vlcad, Acadvl	acyl-Coenzyme A dehydrogenase, very long chain	NM_017366.2
17	Gene Slc16a11	Slc16a11, RP23	:solute carrier family 16 (monocarboxylic acid transp	NM_153081.3
17	Gene Slc16a13	Slc16a13, RP23	:solute carrier family 16 (monocarboxylic acid transp	NM_172371.3
22	Gene Bcl6b	Bcl6b, Bazf	B cell CLL/lymphoma 6, member B	NM_007528.3
22	Gene Mir497	Mir497, mmu-	microRNA 497	NR_030444.1
22	Gene Mir195	mmu-mir-195,	microRNA 195	NR_029581.1
22	Gene 061001C	AU045833, ALI	RIKEN cDNA 0610010K14 gene	NM_001177601.1
22	Gene Rnasek	D11Bwg0434e	ribonuclease, RNase K	NM_173742.3
22	Gene Alox12	9930022G08Ri	arachidonate 12-lipoxygenase	NM_007440.4
24	Gene Pelp1	MNAR, 493056	(proline, glutamic acid and leucine rich protein 1	NM_029231.4
29	Gene Arrb2	RP23-42P20.7,	arrestin, beta 2	NM_145429.4
25	Gene Tm4sf5	2010003F10Ri	transmembrane 4 superfamily member 5	NM_029360.3
25	Gene Vmo1	Gm741, Vmo1	vitelline membrane outer layer 1 homolog (chicken)	NM_001013607.1
25	Gene Gltpd2	MGC37941, C7	glycolipid transfer protein domain containing 2	NM_146020.1
25	Gene Psmb6	Mpnd, Psmb6,	proteasome (prosome, macropain) subunit, beta type	NM_008946.4
29	Gene Pld2	Pld2		NM_008876.2
29	Gene Mink1	RP23-122P1.6,	misshapen-like kinase 1 (zebrafish)	NM_001045964.1,
24	Gene Gp1ba	Gp1ba, GPIba|	glycoprotein 1b, alpha polypeptide	NM_010326.2
48	Gene Slc25a11	Slc25a11, 231C	(solute carrier family 25 (mitochondrial carrier oxogl	NM_024211.3
48	Gene Rnf167	5730408C10Ri	ring finger protein 167	NM_027445.1
48	Gene Pfn1	Pfn, Pfn1	profilin 1	NM_011072.4
48	Gene Eno3	Eno-3, Eno3	enolase 3, beta muscle	NM_007933.2, NM
48	Gene Spag7	FSA-1, MGC67	sperm associated antigen 7	NM_172561.3, NM
22	Gene Camta2	RP23-326P7.7,	calmodulin binding transcription activator 2	NM_001190376.1
22	Gene Inca1	AI842396, Inca	inhibitor of CDK, cyclin A1 interacting protein 1	NM_213729.1, NM
19	Gene Kif1c	B430105J22Ri	kinesin family member 1C	NM_153103.2
26	Gene Zfp3	Zfp3, Zfp-3, Fn	zinc finger protein 3	NM_177565.3
25	Gene Rabep1	MGC150053, r	rabaptin, RAB GTPase binding effector protein 1	NM_019400.2
23	Gene Nup88	Prei2, 88kDa, I	nucleoporin 88	NM_172394.2, NM
43	Gene Rpain	Rpain, 240000	RPA interacting protein	NM_001252413.1
43	Gene C1qbp	P32, AA40736	:complement component 1, q subcomponent binding	NM_007573.2
43	Gene Dhx33	3110057P17Ri	DEAH (Asp-Glu-Ala-His) box polypeptide 33	NM_178367.4
27	Gene Derl2	Derlin-2, Derl2	Der1-like domain family, member 2	NM_033562.3
26	Gene 4933427	C85113, Kiaa0	RIKEN cDNA 4933427D14 gene	NM_028963.2

26	Gene Txndc17	Txn15, D11Ert	thioredoxin domain containing 17	NM_026559.3
26	Gene Med31	3110004H13Ri	mediator of RNA polymerase II transcription, subunit 1	NM_026068.2
26	Gene 4930563	4930563E22Ri	RIKEN cDNA 4930563E22 gene	NM_001163728.1
48	Gene Smtnl2	D130058I21Ri	smoothelin-like 2	NM_177776.3
31	Gene Ggt6	9030405D14Ri	gamma-glutamyltransferase 6	NM_027819.2
31	Gene Mybbp1	P160,	Mybbp1 MYB binding protein (P160) 1a	NM_016776.2
31	Gene Spns2	Spns2,	MGC37865	NM_153060.2
19	Gene Spns3	Spns3,	9830002I17Rik	NM_029932.3
42	Gene Ube2g1	2700059C12Rik,	AW552068, Ube2g1, AU014992, D130023C12Rik,	NM_025985.4
33	Gene Cyb5d2	9330151E16Ri	cytochrome b5 domain containing 2	NM_001024926.3
33	Gene Zzef1	mKIAA0399,	Zz zinc finger, ZZ-type with EF hand domain 1	NM_001045536.2
21	Gene Atp2a3	Atp2a3,	Serca ATPase, Ca ⁺⁺ transporting, ubiquitous	NM_016745.3, NM
21	Gene P2rx1	BB122383,	P2rx1 purinergic receptor P2X, ligand-gated ion channel, 1	NM_008771.3
27	Gene Camkk1	CaMKKalpha,	(calcium/calmodulin-dependent protein kinase kinase 1)	NM_018883.2
27	Gene 1200014	C78393,	1200014J11Rik, C130061O14Rik	NM_025818.3
40	Gene Itgae	aM290,	A5300 integrin alpha E, epithelial-associated	NM_172944.2, NM
40	Gene Gsg2	Gsg2,	Haspin, lgerm cell-specific gene 2	NM_010353.2
26	Gene P2rx5	P2X5,	P2rx5 purinergic receptor P2X, ligand-gated ion channel, 5	NM_033321.3
26	Gene Emc6	0610009E20Ri	ER membrane protein complex subunit 6	NM_025318.3, NM
26	Gene Tax1bp3	1300011C24Ri	Tax1 (human T cell leukemia virus type I) binding protein 3	NM_029564.2
26	Gene Ctns	AW049661,	Al cystinosis, nephropathic	NM_031251.4
44	Gene E130309	E130309D14Rik		NM_001013784.1
44	Gene Cluh	mKIAA0664,	1: clustered mitochondria (cluA/CLU1) homolog	NM_001081158.2
24	Gene Pafah1b	MMS10-U,	Paf platelet-activating factor acetylhydrolase, isoform 1	NM_013625.4, NR
31	Gene Mnt	Mnt,	bHLHd3, max binding protein	NM_010813.3
42	Gene Sgsm2	Rutbc1,	mKIAA small G protein signaling modulator 2	NM_197943.2
42	Gene Tsr1	AU040765,	mK TSR1 20S rRNA accumulation	NM_177325.3
42	Gene Snord91	Snord91a,	MBI small nucleolar RNA, C/D box 91A	NR_028562.1
42	Gene Srr	Srr,	Srs serine racemase	NM_013761.4, NM
42	Gene Smg6	AI317223,	Smg Smg-6 homolog, nonsense mediated mRNA decay factor	NM_001002764.1
42	Gene Hic1	AA408311,	Hic hypermethylated in cancer 1	NM_010430.2, NM
42	Gene Mir212	Mirn212,	mmu microRNA 212	NR_029794.1
42	Gene Mir132	mmu-mir-132,	microRNA 132	NR_029546.1
42	Gene Ovca2	Ovca2,	903041 candidate tumor suppressor in ovarian cancer 2	NM_027136.3
42	Gene Dph1	4930488F09Ri	DPH1 homolog (S. cerevisiae)	NM_144491.2
36	Gene Rtn4rl1	Ngrl2,	Ngr3, Nr reticulon 4 receptor-like 1	NM_177708.5
24	Gene Rpa1	Rpa1,	AA5895: replication protein A1	NM_026653.2, NM
24	Gene Smyd4	G430029E23Ri	SET and MYND domain containing 4	NM_001102611.1
28	Gene Wdr81	mFLJ00182,	M WD repeat domain 81	NM_138950.2
28	Gene Mir22hg	2210403K04Ri	Mir22 host gene (non-protein coding)	NR_030711.1
28	Gene Mir22	Mirn22,	Mir22 microRNA 22	NR_029739.1
28	Gene Tlcd2	Tlcd2,	201030: TLC domain containing 2	NM_027249.2
20	Gene Prpf8	Prp8,	D11Bwgl pre-mRNA processing factor 8	NM_138659.2
20	Gene Rilp	Rilp,	RP23-384 Rab interacting lysosomal protein	NM_001029938.1
35	Gene Scarf1	SREC,	mKIAA0: scavenger receptor class F, member 1	NM_001004157.2
35	Gene Slc43a2	7630402D21Ri	solute carrier family 43, member 2	NM_173388.2, NM
35	Gene Pitpna	vb,	Pitpna, vibi phosphatidylinositol transfer protein, alpha	NM_008850.1

25	Gene Myo1c	MYO1E, NMI, I myosin IC	NM_001080775.1
25	Gene Crk	Crkol, Crk3, Crkv-crk sarcoma virus CT10 oncogene homolog (avian)	NM_133656.4
28	Gene Ywhae	Ywhae, AU019 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	NM_009536.4
25	Gene Doc2b	Doc2b	NM_007873.2
26	Gene Fam101b	Fam101b, Refi family with sequence similarity 101, member B	NM_029658.1
26	Gene Fam57a	5430420K21Ri family with sequence similarity 57, member A	NM_027773.3
26	Gene Gemin4	Gemin4, MGC36899 (nuclear organelle) associated protein 4	NM_177367.3
22	Gene Dbil5	ELP, Dbil5 diazepam binding inhibitor-like 5	NM_021294.2
22	Gene Glod4	Glod4, C81254 glyoxalase domain containing 4	NM_026029.3
36	Gene Nxn	I11Jus13, Nxn	NM_008750.5
36	Gene Timm22	Tim22, Timm22 translocase of inner mitochondrial membrane 22	NM_019818.4, NM_019818.1
20	Gene Abr	AU042359, Ab active BCR-related gene	NM_198018.1, NM_198018.1
34	Gene Cpd	Cpd, D830034I carboxypeptidase D	NM_007754.2
23	Gene Blmh	MGC36899, Br bleomycin hydrolase	NM_178645.4
25	Gene Ssh2	Ssh2, mSSH-2L slingshot homolog 2 (Drosophila)	NM_177710.4
23	Gene Coro6	Coro6	NM_139128.1, NM_139128.1
30	Gene Ankrd13	B930093C12Ri ankyrin repeat domain 13b	NM_172945.2
30	Gene Git1	Git1, p95Cat, CG protein-coupled receptor kinase-interactor 1	NM_001004144.1
18	Gene Trp53i13	Trp53i13, 241C transformation related protein 53 inducible protein	NM_001024920.1
18	Gene Abhd15	Abhd15, 1300C abhydrolase domain containing 15	NM_026185.4
18	Gene LOC101055794	uncharacterized LOC101055794	XM_003945644.1, XM_003945644.1
30	Gene Nufip2	1110001M19R nuclear fragile X mental retardation protein interact	NM_001024205.2
32	Gene Sez6	Sez6, BSRP-C, seizure related gene 6	NM_021286.3
32	Gene Phf12	F630045O13, PHD finger protein 12	NM_174852.3
26	Gene A030003K02	A030003K02Ri RIKEN cDNA A030003K02 gene	XR_106683.1, XR_106683.1
26	Gene Dhrs13	2610209N15Ri dehydrogenase/reductase (SDR family) member 13	NM_183286.2
26	Gene Flot2	AI573412, Esa, flotillin 2	NM_008028.2, NM_008028.2
41	Gene Fam222b	Fam222b, BC0 family with sequence similarity 222, member B	NM_145430.2
41	Gene Traf4	Traf4, msp2, A TNF receptor associated factor 4	NM_009423.4
41	Gene Nek8	Nek8, 463240I NIMA (never in mitosis gene a)-related expressed ki	NM_080849.3
34	Gene Tlcd1	Tlcd1, 061000I TLC domain containing 1	NM_026708.1
34	Gene Rpl23a	MDA20, MGC36899 ribosomal protein L23A	NM_207523.2
34	Gene Snord42a	Snord42a, MB1 small nucleolar RNA, C/D box 42A	NR_037682.1
34	Gene Snord4a	Snord4a small nucleolar RNA, C/D box 4A	NR_030702.1
34	Gene Snord42b	Snord42b, MB small nucleolar RNA, C/D box 42B	NR_037683.1
34	Gene Rab34	Rah1, Narr, AI573412 RAB34, member of RAS oncogene family	NM_033475.3, NM_033475.3
29	Gene Proca1	Proca1, 49334I protein interacting with cyclin A1	NM_001045516.2
25	Gene Supt6	AI132449, 513 suppressor of Ty 6	NM_009297.2
26	Gene Sdf2	MGC107120, stromal cell derived factor 2	NM_009143.3
26	Gene 2610507E1	KIAA0100, RIKEN cDNA 2610507B11 gene	NM_001002004.2
18	Gene Spag5	Mastrin, AI874 sperm associated antigen 5	NM_017407.2
18	Gene Aldoc	AU040929, Scr aldolase C, fructose-bisphosphate	NM_009657.3
29	Gene Pigs	Gm689, BC058 phosphatidylinositol glycan anchor biosynthesis, cla	NM_201406.1
29	Gene Unc119	MRG4, HRG4, unc-119 homolog (C. elegans)	NM_011676.2
25	Gene Slc46a1	1110002C08Ri solute carrier family 46, member 1	NM_026740.2
25	Gene Sarm1	A830091I15Ri sterile alpha and HEAT/Armadillo motif containing 1	NM_001168521.1
29	Gene Vtn	Vn, Vtn, AI256 vitronectin	NM_011707.2

29	Gene Sebox	Og9x, MGC106 SEBOX homeobox	NM_008759.2
29	Gene Tmem19	R74819, AI848 transmembrane protein 199	NM_199199.3
29	Gene Poldip2	Poldip2, Pdip3 polymerase (DNA-directed), delta interacting protein	NM_026389.3
29	Gene Tnfaip1	Edp-1, Edp1, T tumor necrosis factor, alpha-induced protein 1 (end	NM_009395.4, NM
26	Gene Ksr1	B-KSR1, D11B kinase suppressor of ras 1	NM_013571.2
25	Gene Wsb1	2700038M07RWD repeat and SOCS box-containing 1	NM_019653.3, NM
22	Gene Nf1	Nf1, Nf-1, AWC neurofibromatosis 1	NM_010897.2
27	Gene Rab11fip4	RAB11-FIP4, mRAB11 family interacting protein 4 (class II)	NM_175543.3
18	Gene 4930542	1700020F10Ri RIKEN cDNA 4930542H20 gene	NR_045898.2
34	Gene Mir193	Mirn193, Mir1 microRNA 193	NR_029579.1
26	Gene Crlf3	Crlf2, BB16495 cytokine receptor-like factor 3	NM_018776.1
26	Gene Atad5	FRAG1, FLJ127 ATPase family, AAA domain containing 5	NM_001029856.2
37	Gene Rnf135	0610037N03Ri ring finger protein 135	NM_028019.3
37	Gene Rhot1	2210403N23Ri ras homolog gene family, member T1	NM_021536.7, NM
23	Gene Rhbdl3	AI847581, Vrh rhomboid, veinlet-like 3 (Drosophila)	NM_139228.3
18	Gene 5730455	5730455P16Rik	NM_027472.3
18	Gene Zfp207	Zep, 8430401C zinc finger protein 207	NM_001130169.1
30	Gene Psm11	C78232, Psm1 proteasome (prosome, macropain) 26S subunit, non	NM_178616.3
30	Gene Cdk5r1	Cdk5r1, p35, D cyclin-dependent kinase 5, regulatory subunit 1 (p35	NM_009871.2
30	Gene Myo1d	Myo1d, myosin myosin ID	NM_177390.3
31	Gene Gm1142	OTTMUSG000 predicted gene 11423	XR_106579.1, XR_
31	Gene Lig3	MGC78176, Lig3 ligase III, DNA, ATP-dependent	NM_010716.2
25	Gene Fndc8	Fndc8, 493046 fibronectin type III domain containing 8	NM_030224.1
25	Gene Nle1	MGC25690, Nle notchless homolog 1 (Drosophila)	NM_145431.2
25	Gene Unc45b	Unc45, Cmya4 unc-45 homolog B (C. elegans)	NM_178680.4
17	Gene AA46593	AA465934 expressed sequence AA465934	NR_028363.1
17	Gene AI45035	AI450353 expressed sequence AI450353	NR_028364.1
17	Gene Snord7	Snord7 small nucleolar RNA, C/D box 7	NR_028362.1
17	Gene Pex12	Pex12, AI4519 peroxisomal biogenesis factor 12	NM_134025.3
17	Gene Ap2b1	Ap2b1, 13000 adaptor-related protein complex 2, beta 1 subunit	NM_001035854.2
33	Gene Mrm1	A530065E19Ri mitochondrial rRNA methyltransferase 1 homolog (S	NM_145433.1
33	Gene Dhrs11	Dhrs11, MGC1 dehydrogenase/reductase (SDR family) member 11	NM_177564.5
33	Gene 4930502	4930502E09Ri RIKEN cDNA 4930502E09 gene	NR_046281.1
43	Gene Ggnbp2	Ggnbp2, DIF-3, gametogenetin binding protein 2	NM_153144.2
43	Gene Pigw	Gwt1, Pigw, 26 phosphatidylinositol glycan anchor biosynthesis, cla	NM_027388.2, NM
43	Gene Myo19	Myo19, 11100 myosin XIX	NM_025414.3
32	Gene Znhit3	MGC107312, T zinc finger, HIT type 3	NM_001005223.2
31	Gene Appbp2	AI465480, 130 amyloid beta precursor protein (cytoplasmic tail) bir	NM_025825.3
31	Gene D630032	D630032N06R RIKEN cDNA D630032N06 gene	NR_028329.1
21	Gene Ppm1d	Wip1, Ppm1d, protein phosphatase 1D magnesium-dependent, del	NM_016910.3
25	Gene Bcas3	K20D4, 26100 breast carcinoma amplified sequence 3	NM_138681.4, NM
45	Gene 2610027	2610027K06Ri RIKEN cDNA 2610027K06 gene	XR_106219.1
45	Gene Tbx2	Tbx2	NM_009324.2
20	Gene Brip1	OF, Fancj, 311(BRCA1 interacting protein C-terminal helicase 1	NM_178309.2
23	Gene Ints2	2810417D08Ri integrator complex subunit 2	NM_027421.2
25	Gene Med13	1110067M05R mediator complex subunit 13	NM_001080931.1
28	Gene Rps6kb1	AI314060, p70 ribosomal protein S6 kinase, polypeptide 1	NM_028259.4, NM

28	Gene Tubd1	Tubd, 493055C tubulin, delta 1	NM_001199045.1
25	Gene Cltc	R74732, Cltc, β clathrin, heavy polypeptide (Hc)	NM_001003908.1
36	Gene Ypel2	6430570G24, γ yippee-like 2 (Drosophila)	NM_001005341.3
25	Gene Smg8	Smg8, 120001: smg-8 homolog, nonsense mediated mRNA decay fa	NM_024262.1
25	Gene Prr11	B930067F20Ri proline rich 11	NM_175563.5
31	Gene Ska2	1110001A07Ri spindle and kinetochore associated complex subunit	NM_025377.3
23	Gene Mir301	mmu-mir-301, microRNA 301	NR_029652.1
31	Gene Trim37	TEF3, MUL, 28 tripartite motif-containing 37	NM_197987.1
23	Gene Ppm1e	mKIAA1072, B' protein phosphatase 1E (PP2C domain containing)	NM_177167.4
32	Gene Dynl12	6720463E02Ri dynein light chain LC8-type 2	NM_026556.4, NM
42	Gene 2010015	2010015M23R RIKEN cDNA 2010015M23 gene	XR_168698.1, XR_
42	Gene Srsf1	Asf, AW49133: serine/arginine-rich splicing factor 1	NM_173374.3, NM
21	Gene Vezf1	db1, AI848691 vascular endothelial zinc finger 1	NM_016686.3
21	Gene 2210416	2210416O15Ri RIKEN cDNA 2210416O15 gene	NR_045499.1
25	Gene Cuedc1	AI841487, C33 CUE domain containing 1	NM_001172099.1
25	Gene Mrps23	Rpms23, Mrps mitochondrial ribosomal protein S23	NM_024174.5
26	Gene Msi2	MGC118040, β musashi RNA-binding protein 2	NM_054043.3, NM
26	Gene C030037	C030037D09Ri RIKEN cDNA C030037D09 gene	NR_038058.1
31	Gene Akap1	Akap, C81186, A kinase (PRKA) anchor protein 1	NM_001042541.1
30	Gene Coil	Coil, p80, C79 ϵ coilin	NM_016706.2
30	Gene Trim25	AA960166, AL(tripartite motif-containing 25	NM_009546.2
32	Gene Dgke	C87606, Dgke, diacylglycerol kinase, epsilon	NM_019505.3
32	Gene A930013	A930013B10Ri RIKEN cDNA A930013B10 gene	XR_035369.2, XR_
16	Gene Nog	Nog noggin	NM_008711.2
25	Gene Stxbp4	Stxbp4, Synip, syntaxin binding protein 4	NM_011505.2
25	Gene Cox11	Cox11, 20100C cytochrome c oxidase assembly protein 11	NM_199008.2
25	Gene Tom111	2310045L10Ri l target of myb1-like 1 (chicken)	NM_028011.2
41	Gene Utp18	6230425C22Ri UTP18, small subunit (SSU) processome component	NM_001013375.1
41	Gene Mbtd1	Mbtd1, AI194 ϵ mbt domain containing 1	NM_134012.3
23	Gene Nme2	NM23-H2, MG NME/NM23 nucleoside diphosphate kinase 2	NM_001077529.1,
23	Gene Nme1	AL024257, NM NME/NM23 nucleoside diphosphate kinase 1	NM_008704.2
32	Gene Spag9	4831406C20Ri sperm associated antigen 9	NM_027569.2, NM
32	Gene Tob1	Tob1, Tob, Tro transducer of ErbB-2.1	NM_009427.2
17	Gene Wfikkn2	Gasp1, WFIKKI WAP, follistatin/kazal, immunoglobulin, kunitz and r	NM_181819.2
23	Gene Luc7l3	Luc7a, 330000 LUC7-like 3 (S. cerevisiae)	NM_026313.1
23	Gene Ankrd40	5530600A18Ri ankyrin repeat domain 40	NM_027799.2, NM
19	Gene Cacna1g	mKIAA1123, C' calcium channel, voltage-dependent, T type, alpha 1	NM_001112813.2
19	Gene Spata20	Spata20, Tisp7 spermatogenesis associated 20	NM_144827.4
17	Gene Epn3	Epn3, 2310022 ϵ epsin 3	NM_027984.3
17	Gene Mycbspaj	AW125474, AI MYCBP associated protein	NM_170671.2
38	Gene Rsad1	B430319G23, I radical S-adenosyl methionine domain containing 1	NM_001013381.2
38	Gene Acsf2	MGC25878, Ac acyl-CoA synthetase family member 2	NM_153807.2
41	Gene Lrrc59	Lrrc59, C7866 ϵ leucine rich repeat containing 59	NM_133807.1
19	Gene Xylt2	Xylt2, XT-II, XT xylosyltransferase II	NM_145828.3
47	Gene Ppp1r9b	Ppp1r9b, SPL, ' protein phosphatase 1, regulatory subunit 9B	NM_172261.3
18	Gene Samd14	AI854782, Sarr sterile alpha motif domain containing 14	NM_146025.2
25	Gene Tac4	Tac4, PPT-C, A' tachykinin 4	NM_053093.1

21	Gene Nxph3	Nxph3	NM_130858.3
26	Gene Ngfr	Ngfr, Tnfrsf16, nerve growth factor receptor (TNFR superfamily, member 16)	NM_033217.3
20	Gene 1110035	1110035M17R RIKEN cDNA 1110035M17 gene	NR_045780.1
20	Gene B130006	B130006D01R RIKEN cDNA B130006D01 gene	NR_028263.1
27	Gene Phospho1	Phospho1, D111 phosphatase, orphan 1	NM_153104.3
27	Gene Abi3	Abi3, 2210414 ABI gene family, member 3	NM_025659.4, NM_025659.5
24	Gene Ube2z	Ube2z, AW049 ubiquitin-conjugating enzyme E2Z (putative)	NM_172300.3
24	Gene Atp5g1	Atp5g1	NM_007506.6, NM_007506.7
27	Gene Gm53	Gm53 predicted gene 53	NR_037977.1
21	Gene Hoxb8	Hoxb8, Hox-2.4 homeobox B8	NM_010461.2
21	Gene Hoxb7	Hoxb7, AI3250 homeobox B7	NM_010460.2
24	Gene Hoxb3	Hox-2.7, Hoxb: homeobox B3	NM_001079869.1
24	Gene Hoxb2	Hoxbes2, Hox- homeobox B2	NM_134032.2
25	Gene Nfe2l1	AW212678, LC nuclear factor, erythroid derived 2,-like 1	NM_008686.3, NM_008686.4
21	Gene Copz2	Copz2, zeta2-C coatomer protein complex, subunit zeta 2	NM_019877.2
21	Gene Mir152	Mir152, mmu microRNA 152	NR_029562.1
30	Gene Cdk5rap3	1810007E24Ri CDK5 regulatory subunit associated protein 3	NM_030248.1
30	Gene Gm1152	OTTMUSG000I predicted gene 11525	XR_106402.1
25	Gene Sp2	mKIAA0048, 4'Sp2 transcription factor	NM_030220.3, NM_030220.4
23	Gene Sp6	Epfm, AA59103 trans-acting transcription factor 6	NM_031183.2
23	Gene Scrn2	D11Moh48, Sc secernin 2	NM_146027.2
37	Gene Tbkbp1	3110043L15Ril TBK1 binding protein 1	NM_198100.2
37	Gene Kpnb1	Impnb, IPOB, karyopherin (importin) beta 1	NM_008379.3
28	Gene Npepps	Psa, AAP-S, gol aminopeptidase puromycin sensitive	NM_008942.2
34	Gene Socs7	2310063P06Ri suppressor of cytokine signaling 7	NM_138657.3
18	Gene Arhgap2	A330041B18Ri Rho GTPase activating protein 23	NM_021493.2
20	Gene 2410003	2410003L11Ril RIKEN cDNA 2410003L11 gene	NR_045496.1
20	Gene E130012	AI413509, E13 RIKEN cDNA E130012A19 gene	NM_175332.3
24	Gene Mllt6	AI315037, Mllt myeloid/lymphoid or mixed-lineage leukemia (trithorax) protein 6	NM_139311.2
24	Gene Cisd3	Cisd3, Mel13, ICDGSH iron sulfur domain 3	NM_001085500.2
26	Gene Pcgf2	Zfp144, Pcgf2, polycomb group ring finger 2	NM_009545.2, NM_009545.3
26	Gene Psmb3	AL033320, Psn proteasome (prosome, macropain) subunit, beta type 3	NM_011971.4
31	Gene Pip4k2b	Pip4k2b, c11, P phosphatidylinositol-5-phosphate 4-kinase, type II, class B	NM_054051.1
31	Gene Cwc25	1300013D05Ri CWC25 spliceosome-associated protein homolog (S. pombe)	NM_026186.4
39	Gene 1700001	1700001P01Rik	NM_028156.2
39	Gene Rpl23	Rpl23, 281000 ribosomal protein L23	NM_022891.3
39	Gene Snora21	Snora21, MBI-: small nucleolar RNA, H/ACA box 21	NR_028078.1
27	Gene Lasp1	SH3P6, AA408I LIM and SH3 protein 1	NM_010688.4
23	Gene Plxdc1	Tem7, MGC13I plexin domain containing 1	NM_028199.3, NM_028199.4
23	Gene Arl5c	BC065791, MCADP-ribosylation factor-like 5C	NM_207231.1
38	Gene Cacnb1	Cacnb1, Cchlb: calcium channel, voltage-dependent, beta 1 subunit	NM_031173.3, NM_031173.4
38	Gene Rpl19	Rpl19	NM_009078.2, NM_009078.3
38	Gene Stac2	24b2/STAC2, NSH3 and cysteine rich domain 2	NM_146028.4
31	Gene Fbxl20	KIAA4147, Fbl: F-box and leucine-rich repeat protein 20	NM_028149.1
31	Gene Med1	Pparbp, AI480' mediator complex subunit 1	NM_001080118.1
23	Gene Cdk12	1810022J16Ril cyclin-dependent kinase 12	NM_001109626.1
17	Gene Neurod2	Ndrf, bHLHa1, neurogenic differentiation 2	NM_010895.3

26	Gene Erbb2	Erbb-2, Erbb2, v-erb-b2 erythroblastic leukemia viral oncogene hor	NM_001003817.1
23	Gene Ormdl3	Ormdl3, 2810C ORM1-like 3 (S. cerevisiae)	NM_025661.4
35	Gene Gsdma	Gsdma, H312E gasdermin A	NM_021347.4
35	Gene Psm3	Psm3, AntP9: proteasome (prosome, macropain) 26S subunit, non	NM_009439.1
31	Gene Thra	Nr1a1, 643052 thyroid hormone receptor alpha	NM_178060.3
21	Gene Nr1d1	R75201, Nr1d1 nuclear receptor subfamily 1, group D, member 1	NM_145434.3
38	Gene Msl1	Msl1, AA6820 male-specific lethal 1 homolog (Drosophila)	NM_028722.2
38	Gene Gm1235	Gm12359, OT1 predicted gene 12359	NR_033551.1
24	Gene Casc3	Mln51, Casc3, cancer susceptibility candidate 3	NM_138660.2
28	Gene Rara	Rara, RAR, Nr1 retinoic acid receptor, alpha	NM_009024.2, NM
18	Gene Gjd3	cx30.2, Gja11, gap junction protein, delta 3	NM_178596.2
40	Gene Igfbp4	Deb2, AI87574 insulin-like growth factor binding protein 4	NM_010517.3
25	Gene Smarce1	5830412H02Ri SWI/SNF related, matrix associated, actin dependen	NM_020618.4
25	Gene Krt22	MGC100296, K keratin 22	NM_172946.2
34	Gene Leprel4	AI413214, 111 leprecan-like 4	NM_176830.2
34	Gene Fkbp10	Fkbp10, FKBP- FK506 binding protein 10	NM_001163481.1
34	Gene Nt5c3b	Nt5c3b, Nt5c3 5'-nucleotidase, cytosolic IIIB	NM_026561.4, NM
25	Gene Khlh10	4921517C11Rik, Khlh10	NM_025727.3
38	Gene Khlh11	BC011167, Khlh11, RP23-392I3.12	NM_172565.2
38	Gene Acly	Acly, AW5386 ATP citrate lyase	NM_134037.3, NM
24	Gene Dnajc7	2010004G07Ri DnaJ (Hsp40) homolog, subfamily C, member 7	NM_019795.4
24	Gene Nkiras2	Nkiras2, 2410C NFKB inhibitor interacting Ras-like protein 2	NM_028024.2
24	Gene Zfp385c	Znf385c, A930 zinc finger protein 385C	NM_177790.4
23	Gene Dhx58	Dhx58, LPG2, E DEXH (Asp-Glu-X-His) box polypeptide 58	NM_030150.2
23	Gene Kat2a	AW212720, Gc K(lysine) acetyltransferase 2A	NM_001038010.2
23	Gene Hspb9	Hspb9, 17000C heat shock protein, alpha-crystallin-related, B9	NM_029307.1
23	Gene Rab5c	AI326010, Rab RAB5C, member RAS oncogene family	NM_024456.4
24	Gene Stat5b	Stat5b signal transducer and activator of transcription 5B	NM_011489.3, NM
24	Gene Stat5a	AA959963, ST signal transducer and activator of transcription 5A	NM_011488.3, NM
33	Gene Ptrf	AW546441, 23 polymerase I and transcript release factor	NM_008986.2
38	Gene Atp6v0a	ATP6a1, Vpp-1 ATPase, H+ transporting, lysosomal V0 subunit A1	NM_001243049.1
38	Gene Naglu	Naglu alpha-N-acetylglucosaminidase (Sanfilippo disease II	NM_013792.2
38	Gene Hsd17b1	E2DH, Hsd17b hydroxysteroid (17-beta) dehydrogenase 1	NM_010475.1
22	Gene Coasy	Coasy, Ukr1, 1. Coenzyme A synthase	NM_027896.4
22	Gene Mlx	bHLHd13, Tcf1 MAX-like protein X	NM_011550.3, NM
21	Gene Psmc3ip	Tbpip, HOP2, F proteasome (prosome, macropain) 26S subunit, ATP	NM_008949.3
25	Gene Fam134c	AI551748, 493 family with sequence similarity 134, member C	NM_026501.2, NM
25	Gene Tubg1	AI451582, MG tubulin, gamma 1	NM_134024.2
33	Gene Tubg2	Tubgl, AI50477 tubulin, gamma 2	NM_134028.2
33	Gene Plekhh3	Plekhh3, BC02 pleckstrin homology domain containing, family H (w	NM_146030.2
33	Gene Ccr10	MGC151420, C chemokine (C-C motif) receptor 10	NM_007721.4
33	Gene Cntnap1	Nrxn4, Cntnap contactin associated protein-like 1	NM_016782.2
27	Gene Ezh1	mKIAA0388, A enhancer of zeste homolog 1 (Drosophila)	NM_007970.2
27	Gene Ramp2	Ramp2 receptor (calcitonin) activity modifying protein 2	NM_019444.2
27	Gene Vps25	1110020N13Ri vacuolar protein sorting 25 (yeast)	NM_026776.3
22	Gene Wnk4	Prkwnk4, 201C WNK lysine deficient protein kinase 4	NM_175638.3
39	Gene Psme3	Psme3, REGga proteaseome (prosome, macropain) 28 subunit, 3	NM_011192.3

39	Gene Aoc2	Aoc2, RAO	amine oxidase, copper containing 2 (retina-specific)	NM_178932.1
35	Gene Aarsd1	AA589600,	Ala alanyl-tRNA synthetase domain containing 1	NM_144829.1
35	Gene Ptges3l	1110069E20Ri	prostaglandin E synthase 3 (cytosolic)-like	NM_026865.2
65	Gene Rundc1	AW125546,	D ϵ RUN domain containing 1	NM_172566.4
65	Gene Rpl27	Rpl27,	MGC10 ribosomal protein L27	NM_011289.3
65	Gene Ifi35	Ifi35,	AW9860: interferon-induced protein 35	NM_027320.4
31	Gene Vat1	Vat1,	VAT-1 vesicle amine transport protein 1 homolog (T califor	NM_012037.2
31	Gene Rnd2	Rohn,	Rnd2, Arho family GTPase 2	NM_009708.1
23	Gene Rnu2-10	nmf291,	Rnu2, U2 small nuclear RNA 10	NR_004414.1
23	Gene Arl4d	AW456149,	M ADP-ribosylation factor-like 4D	NM_025404.3
23	Gene Dusp3	VHR,	2210015: dual specificity phosphatase 3 (vaccinia virus phosph	NM_028207.3
23	Gene 1700006	1700006E09Rik		NM_029287.1
22	Gene Lsm12	1110059P07,	L LSM12 homolog (S. cerevisiae)	NM_172947.3
22	Gene G6pc3	UGRP,	AU0454: glucose 6 phosphatase, catalytic, 3	NM_175935.3
22	Gene Hdac5	Hdac5,	AI4265 histone deacetylase 5	NM_001077696.1
21	Gene BC03086	MGC31269,	M cDNA sequence BC030867	NM_153544.3
25	Gene Tmub2	Tmub2,	20100 transmembrane and ubiquitin-like domain containin	NM_028076.2
25	Gene Atxn7l3	E030022H21Ri	ataxin 7-like 3	NM_001098837.1
39	Gene Ubtf	UBF,	Ubtf, A93 upstream binding transcription factor, RNA polymer	NM_001044383.1
24	Gene Rundc3a	Rap2ip,	Rpip8, RUN domain containing 3A	NM_001252347.1
24	Gene Slc25a39	3010027G13Ri	solute carrier family 25, member 39	NM_026542.3
33	Gene Grn	epithelin,	Grn granulin	NM_008175.4
33	Gene Fam171a	Fam171a2	family with sequence similarity 171, member A2	NM_199200.2
18	Gene Itga2b	Gpllb,	CD41, α integrin alpha 2b	NM_010575.2
23	Gene Gpatch8	5430405G24Ri	G patch domain containing 8	NM_001159492.1
31	Gene Fzd2	AW456835,	M frizzled homolog 2 (Drosophila)	NM_020510.2
21	Gene Ccdc43	2610001E01Ri	coiled-coil domain containing 43	NM_025918.3
35	Gene Adam11	Adam11,	Mdc, a disintegrin and metallopeptidase domain 11	NM_009613.2, NM
21	Gene Eftud2	Snrp116,	116k elongation factor Tu GTP binding domain containing	NM_011431.3, NM
21	Gene Ccdc103	Ccdc103,	1700 coiled-coil domain containing 103	NM_028492.2
21	Gene Fam187a	MGC151146,	4 family with sequence similarity 187, member A	NM_025766.2
21	Gene Gfap	AI836096,	Gfaj glial fibrillary acidic protein	NM_010277.3, NM
29	Gene Kif18b	Kif18b,	30000: kinesin family member 18B	NM_197959.2
25	Gene Dcald	3010024O21Ri	dephospho-CoA kinase domain containing	NM_026551.3
25	Gene LOC100862190		uncharacterized LOC100862190	XR_141069.1
22	Gene Plcd3	Plcd3,	261020: phospholipase C, delta 3	NM_152813.3
30	Gene Acbd4	Acbd4,	201001 acyl-Coenzyme A binding domain containing 4	NM_025988.2
30	Gene Hexim1	CLP-1,	HIS1, Cl hexamethylene bis-acetamide inducible 1	NM_138753.2
18	Gene Hexim2	4933402L21Ri	hexamethylene bis-acetamide inducible 2	NM_027658.2, NM
17	Gene Fmn1	8030453N10Ri	formin-like 1	NM_001077698.1,
22	Gene Rprml	Rprml,	AW049 reprimol-like	NM_001033212.2
26	Gene Gosr2	C76855,	memt golgi SNAP receptor complex member 2	NM_019650.3
26	Gene C130046	C130046K22Ri	RIKEN cDNA C130046K22 gene	XR_106356.2, XR_
19	Gene Wnt3	Wnt3,	Wnt-3, | wingless-related MMTV integration site 3	NM_009521.2
39	Gene Arf2	Arf2	ADP-ribosylation factor 2	NM_007477.4
16	Gene Mapt	AW045860,	M microtubule-associated protein tau	NM_001038609.1
35	Gene Kansl1	Kansl1,	Kiaa1267, 1700081L11Rik, 9430041J06Rik, MGC90742, mKI	NM_001081045.1

25	Gene Efcab3	Efcab3, 49215: EF-hand calcium binding domain 3	NM_001081046.1
25	Gene Mettl2	PSENIP1, D11E methyltransferase like 2	NM_172567.3
28	Gene 1700052	AI840954, 170 RIKEN cDNA 1700052K11 gene	NR_027956.1
28	Gene Tlk2	Tlk, Tlk2, 4933 tousled-like kinase 2 (Arabidopsis)	NM_001112705.1
24	Gene Mrc2	Endo180, mKI/ mannose receptor, C type 2	NM_008626.3
16	Gene March1	OTTMUSG000I membrane-associated ring finger (C3HC4) 10	NM_172568.2, NM
19	Gene Tanc2	5730590C14Ri tetratricopeptide repeat, ankyrin repeat and coiled-	NM_181071.3
25	Gene Cyb561	Cyb561	NM_007805.4
33	Gene Kcnh6	Kcnh6, MGC12 potassium voltage-gated channel, subfamily H (eag-	NM_001037712.1
33	Gene Dcaf7	1700012F10Ri DDB1 and CUL4 associated factor 7	NM_027946.3
17	Gene Taco1	Taco1, Ccdc44 translational activator of mitochondrially encoded c	NM_027346.1
39	Gene Map3k3	Mekk3, KIAA4(mitogen-activated protein kinase kinase kinase 3	NM_011947.3
27	Gene Ccdc47	asp4, RP23-81i coiled-coil domain containing 47	NM_026009.2
27	Gene Ddx42	Ddx42, RHELP, DEAD (Asp-Glu-Ala-Asp) box polypeptide 42	NM_028074.4
25	Gene Psmc5	mSUG1, Psmc(protease (prosome, macropain) 26S subunit, ATPase	NM_008950.1
25	Gene Smarcd2	AW322457, Ba SWI/SNF related, matrix associated, actin dependen	NM_031878.2, NM
25	Gene Tcam1	4930570F09Ri testicular cell adhesion molecule 1	NM_029467.3
36	Gene Tex2	AI553404, Def: testis expressed gene 2	NM_198292.3
41	Gene Polg2	Polg2 polymerase (DNA directed), gamma 2, accessory sub	NM_015810.2, NR
41	Gene Ddx5	p68, MGC118(DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	NM_007840.3
41	Gene Mir3064	Mir3064, mmu microRNA 3064	NR_037224.1
41	Gene Cep95	Ccdc45, F6300 centrosomal protein 95	NM_177088.3, NM
18	Gene Smurf2	AI649275, AI5: SMAD specific E3 ubiquitin protein ligase 2	NM_025481.2
52	Gene Kpna2	IPOA1, 241004 karyopherin (importin) alpha 2	NM_010655.3
30	Gene Nol11	AU019874, No nucleolar protein 11	NM_133702.2, NM
23	Gene Pitpnc1	1110020B03Ri phosphatidylinositol transfer protein, cytoplasmic 1	NM_145823.2
23	Gene Psmd12	P55, 1500002F proteasome (prosome, macropain) 26S subunit, non	NM_025894.2
22	Gene A830035	A830035A12Ri RIKEN cDNA A830035A12 gene	XM_920516.3, XM
22	Gene Helz	KIAA0054, AI8: helicase with zinc finger domain	NM_198298.1
19	Gene Cacng4	Cacng4, AW49 calcium channel, voltage-dependent, gamma subuni	NM_019431.2
26	Gene Prkca	Prkca, AI87514 protein kinase C, alpha	NM_011101.3
15	Gene Cep112	Ccdc46, AV207 centrosomal protein 112	NM_029606.3, NM
25	Gene Axin2	Axi1, Axil, Axin axin2	NM_015732.4
33	Gene 1700096	1700096J18Ri RIKEN cDNA 1700096J18 gene	NR_027883.1
33	Gene Gm1169	OTTMUSG000I predicted gene 11696	NR_038097.1
33	Gene Gna13	Galpha13, AUC guanine nucleotide binding protein, alpha 13	NM_010303.3
32	Gene Slc16a6	MCT 7, AW74(solute carrier family 16 (monocarboxylic acid transp	NM_001029842.1
32	Gene Arsg	AI846872, MG arylsulfatase G	NM_028710.3, NM
36	Gene Wipi1	4930533H01Ri WD repeat domain, phosphoinositide interacting 1	NM_145940.2
28	Gene Prkar1a	1300018C22Ri protein kinase, cAMP dependent regulatory, type I, i	NM_021880.2
41	Gene Sox9	KIAA4243, AV(SRY-box containing gene 9	NM_011448.4
41	Gene Gm1168	OTTMUSG000I predicted gene 11681	XR_141077.1, XR_
43	Gene Cog1	KIAA1381, Cog component of oligomeric golgi complex 1	NM_013581.3
30	Gene Fam104	D11Wsu99e, F family with sequence similarity 104, member A	NM_138598.5
30	Gene D11Wsu	MGC57008, M DNA segment, Chr 11, Wayne State University 47, e	NM_177777.5
30	Gene Cdc42ep	Cdc42ep4, Bor CDC42 effector protein (Rho GTPase binding) 4	NM_020006.2, NM
23	Gene Sdk2	Sdk-2, mKIAA1 sidekick homolog 2 (chicken)	NM_172800.2

40	Gene Rpl38	0610025G13Ri ribosomal protein L38	NM_023372.2, NM
40	Gene Ttyh2	1110001A03Ri tweety homolog 2 (Drosophila)	NM_053273.2
26	Gene Gprc5c	Raig3, 111002iG protein-coupled receptor, family C, group 5, mem	NM_001110337.1
25	Gene Tmem10	Tmem104, mF transmembrane protein 104	NM_001033393.2
25	Gene Grin2c	NR2C, Grin2c, glutamate receptor, ionotropic, NMDA2C (epsilon 3)	NM_010350.2
18	Gene Hid1	C630004H02Ri HID1 domain containing	NM_175454.2
25	Gene Cdr2l	Cdr2l, D03006i cerebellar degeneration-related protein 2-like	NM_001080929.1
25	Gene Ict1	1110002E03Ri immature colon carcinoma transcript 1	NM_026729.1
23	Gene Atp5h	Atp5h, 061000 ATP synthase, H ⁺ transporting, mitochondrial FO cor	NM_027862.1
23	Gene Kctd2	Kctd2, 231001 potassium channel tetramerisation domain containi	NM_183285.3
23	Gene Slc16a5	A130015N09R solute carrier family 16 (monocarboxylic acid transp	NM_001080934.1
31	Gene Armc7	MGC27721, Ar armadillo repeat containing 7	NM_177778.4
31	Gene Nt5c	Nt5c, Umph-2, 5',3'-nucleotidase, cytosolic	NM_015807.1
33	Gene Hn1	Hn1 hematological and neurological expressed sequence	NM_008258.1
33	Gene Sumo2	Sumo2, Smt3b SMT3 suppressor of mif two 3 homolog 2 (yeast)	NM_133354.2
31	Gene Gga3	C230037M19Rgolgi associated, gamma adaptin ear containing, ARI	NM_001252067.1,
31	Gene Mrps7	Rpms7, MRP-S mitchondrial ribosomal protein S7	NM_025305.2
31	Gene Mif4gd	1110014L05Ril MIF4G domain containing	NM_027162.4, NM
31	Gene Slc25a15	DNC, TPC, Slc2 solute carrier family 25 (mitochondrial thiamine pyr	NM_001252384.1
28	Gene 2310067	mKIAA0195, 2: RIKEN cDNA 2310067B10 gene	NM_028014.3
28	Gene Caskin2	Caskin2, mKIAA CASK-interacting protein 2	NM_080643.2
28	Gene Tsen54	0610034P02Ri tRNA splicing endonuclease 54 homolog (S. cerevisia	NM_029557.1
28	Gene Llgl2	Llgl2, Llglh2, M lethal giant larvae homolog 2 (Drosophila)	NM_145438.2, NM
25	Gene LOC101055975	uncharacterized LOC101055975	XM_003945881.1,
20	Gene Itgb4	AA407042, C2: integrin beta 4	NM_001005608.2
20	Gene Galk1	AA409894, GA galactokinase 1	NM_016905.2
43	Gene H3f3b	H3f3b, H3.3B, H3 histone, family 3B	NM_008211.3
43	Gene Unk	Zc3h5, Unk, m unkempt homolog (Drosophila)	NM_172569.3
47	Gene Trim47	2210023F24Ril tripartite motif-containing 47	NM_001205081.1
36	Gene Trim65	Trim65, 47324 tripartite motif-containing 65	NM_178802.4
36	Gene Mrpl38	MGC8310, Mrj mitochondrial ribosomal protein L38	NM_024177.3
19	Gene Fbf1	Fbf1, mKIAA18 Fas (TNFRSF6) binding factor 1	NM_172571.3
20	Gene Evpl	Evpl	NM_025276.3
22	Gene Srp68	MGC38208, 2ε signal recognition particle 68	NM_146032.3
22	Gene Galr2	MGC151357, C galanin receptor 2	NM_010254.4
22	Gene Foxj1	HFH-4, FKHL-1 forkhead box J1	NM_008240.3
23	Gene Rnf157	mKIAA1917, 2i ring finger protein 157	NM_027258.1
44	Gene Ubald2	Fam100b, D03 UBA-like domain containing 2	NM_176902.3
44	Gene Qrich2	Gm66, Qrich2 glutamine rich 2	NM_001033267.2
28	Gene Prpsap1	5730409F23Ril phosphoribosyl pyrophosphate synthetase-associat	NM_026364.1
29	Gene Sphk1	SK1, Spk1, 111 sphingosine kinase 1	NM_001172472.1,
38	Gene Ube2o	9630022H21, I ubiquitin-conjugating enzyme E2O	NM_173755.3
17	Gene Rhbdf2	4732465i17Rik rhomboid 5 homolog 2 (Drosophila)	NM_172572.3, NM
42	Gene Cygb	Staap, Cygb, 3: cytoglobin	NM_030206.4
42	Gene Gm1174	Prcd, OTTMUS predicted gene 11744	NM_001163318.1
26	Gene Mxra7	E130302J09Rik matrix-remodelling associated 7	NM_026280.3
58	Gene Jmjd6	D11Ert195e, jumonji domain containing 6	NM_033398.2

58	Gene Mettl23	4933424L15Ril methyltransferase like 23	NM_028865.3
58	Gene Srsf2	Pr264, Sfrs2, S serine/arginine-rich splicing factor 2	NM_011358.2
56	Gene Mfsd11	Mfsd11, MGC1 major facilitator superfamily domain containing 11	NM_178620.3
36	Gene Sec14l1	Naa-35, Sec14 SEC14-like 1 (S. cerevisiae)	NM_028777.3, NM
27	Gene Sept9	MSF1, PNU TL4 septin 9	NM_017380.2, NM
30	Gene Tnrc6c	9930033H14Ri trinucleotide repeat containing 6C	NM_198022.2
21	Gene Tmc6	Tmc6, EVER1, I transmembrane channel-like gene family 6	NM_181321.3, NM
21	Gene Tmc8	Ever2, mFLJ00.transmembrane channel-like gene family 8	NM_001195088.1,
30	Gene 6030468	6030468B19Rik	NM_029964.1
30	Gene Syngn2	Clast2, cellugyl synaptogyrin 2	NM_009304.2
30	Gene Tk1	Tk1a, Tk1b, Tk thymidine kinase 1	NM_009387.2
25	Gene Afmid	KFA, Kf, Ammc arylformamidase	NM_027827.3
25	Gene Birc5	Api4, Birc5, AA baculoviral IAP repeat-containing 5	NM_009689.2, NM
43	Gene Tmem23	Tmem235, OTTMUSG00000007589, Gm12581, Cldn27	NM_001085535.1
43	Gene Tha1	GLY1, 1300017 threonine aldolase 1	NM_027919.4
43	Gene Gm1172	OTTMUSG000I predicted gene 11725	XR_106617.1, XR_
36	Gene Socs3	Socs3, Cish3, S suppressor of cytokine signaling 3	NM_007707.3
17	Gene Pgs1	SAF, Pgs1, 493 phosphatidylglycerophosphate synthase 1	NM_133757.2
32	Gene Timp2	Timp2, D11Bw tissue inhibitor of metalloproteinase 2	NM_011594.3
28	Gene Cant1	Apy1h, Cant1, calcium activated nucleotidase 1	NM_001025617.2
28	Gene C1qtnf1	1600017K21Ri C1q and tumor necrosis factor related protein 1	NM_019959.3, NM
32	Gene Cbx2	MOD2, Cbx2, ζ chromobox 2	NM_007623.2
18	Gene Cbx8	Pc3, Cbx8 chromobox 8	NM_013926.1
25	Gene Cbx4	MPc2, PC2, Cb chromobox 4	NM_007625.2
24	Gene Tbc1d16	Tbc1d16, BC02 TBC1 domain family, member 16	NM_172443.3
24	Gene Ccdc40	MGC109697, E coiled-coil domain containing 40	NM_175430.4
28	Gene Eif4a3	eIF4A-III, 2400 eukaryotic translation initiation factor 4A3	NM_138669.1
31	Gene Card14	Bimp2, Card14 caspase recruitment domain family, member 14	NM_130886.3
31	Gene Sgsh	Sgsh, 4632406 N-sulfoglucosamine sulfohydrolase (sulfamidase)	NM_018822.3
31	Gene Slc26a11	Slc26a11, F63C solute carrier family 26, member 11	NM_178743.3
29	Gene Mir1932	Mir1932, mmu microRNA 1932	NR_035453.1
29	Gene Rnf213	Rnf213, D11Er ring finger protein 213	XM_001476651.3,
26	Gene Endov	A730011L01Rik, Endov	NM_177394.3, NM
27	Gene Nptx1	Np1, Nptx1, D: neuronal pentraxin 1	NM_008730.2
27	Gene Gm1176	Gm11762, OTI predicted gene 11762	NR_045099.1
25	Gene Rptor	mKIAA1303, 4: regulatory associated protein of MTOR, complex 1	NM_028898.2
59	Gene Chmp6	2400004G01Rik, Chmp6	NM_001085498.2
33	Gene Baiap2	IRSp53, Baiap2 brain-specific angiogenesis inhibitor 1-associated pr	NM_130862.4, NM
17	Gene Aatk	AATYK, aatyk1 apoptosis-associated tyrosine kinase	NM_001198785.1
17	Gene Mir338	Mir338, mmu- microRNA 338	NR_029767.1
17	Gene Mir3065	mmu-mir-3065 microRNA 3065	NR_037225.1
34	Gene Gm9734	Gm9734, ENSM predicted gene 9734	XR_035387.1, XR_
34	Gene 281041C	2810410L24Ril RIKEN cDNA 2810410L24 gene	NR_030682.1
34	Gene Bahcc1	Bahcc1, BC060 BAH domain and coiled-coil containing 1	NM_198423.3
34	Gene Gm1177	Gm11772, OTI predicted gene 11772	XR_106376.1, XR_
60	Gene Actg1	MGC28612, A actin, gamma, cytoplasmic 1	NM_009609.2
60	Gene 0610009	0610009L18Ril RIKEN cDNA 0610009L18 gene	NR_038126.1

27	Gene Fscn2	Fscn2, MGC131 fascin homolog 2, actin-bundling protein, retinal (Str	NM_172802.4
27	Gene 2310003	2310003H01Rik, Faap100	NM_027980.2
27	Gene Nploc4	AK129375, Npl nuclear protein localization 4 homolog (S. cerevisiae	NM_199469.2, NM
25	Gene Tspan10	Ocsp, Tspan10 tetraspanin 10	NM_145363.2
30	Gene Pde6g	Pde6g, Pdeg, p phosphodiesterase 6G, cGMP-specific, rod, gamma	NM_012065.2
30	Gene Oxd1	1810049H13Ri oxidoreductase like domain containing 1	NM_025560.2
30	Gene Ccdc137	Ccdc137, RP23 coiled-coil domain containing 137	NM_152807.3
30	Gene Arl16	Arl16, 260000!ADP-ribosylation factor-like 16	NM_197995.2
32	Gene Hgs	Hgs, Hrs, Hgr, ;HGF-regulated tyrosine kinase substrate	NM_001159328.1
32	Gene Mrpl12	Rpml12, Mrpl1 mitochondrial ribosomal protein L12	NM_027204.2
32	Gene Gm1675	Gm16755 predicted gene, 16755	XR_141085.1, XR_
32	Gene Slc25a10	Slc25a10, Dic solute carrier family 25 (mitochondrial carrier, dicar	NM_013770.2
29	Gene Gcgr	Gcgr, GR glucagon receptor	NM_008101.2
29	Gene Fam195b	Fam195b family with sequence similarity 195, member B	NM_001033231.2
29	Gene Ppp1r27	Ppp1r27, 1110 protein phosphatase 1, regulatory subunit 27	NM_026814.3
32	Gene P4hb	PDI, Thbp, P4h prolyl 4-hydroxylase, beta polypeptide	NM_011032.2
32	Gene Arhgdia	Arhgdia, RhoD Rho GDP dissociation inhibitor (GDI) alpha	NM_133796.7
22	Gene Alyref	Thoc4, Refbp1 Aly/REF export factor	NM_011568.1
22	Gene Anapc11	111001119Rik anaphase promoting complex subunit 11	NM_001038230.2
22	Gene Npb	Npb	NM_153288.3
44	Gene Pcyt2	Pcyt2, ET, 111(phosphate cytidyltransferase 2, ethanolamine	NM_024229.2
44	Gene Sirt7	MGC31235, Sii sirtuin 7 (silent mating type information regulation 2	NM_153056.2
44	Gene Mafg	AA545192, Mav-maf musculoaponeurotic fibrosarcoma oncogene	NM_010756.3
24	Gene Pycr1	Pycr1, MGC111 pyrroline-5-carboxylate reductase 1	NM_144795.3
27	Gene Aspscr1	ASPS, 1190006 alveolar soft part sarcoma chromosome region, can	NM_026877.2, NM
27	Gene Stra13	Stra13	NM_016665.2
27	Gene Lrrc45	BC023296, Lrrr leucine rich repeat containing 45	NM_153545.2
27	Gene Rac3	Rac3, Rac1B RAS-related C3 botulinum substrate 3	NM_133223.4
25	Gene Dcxr	0610038K04Ri dicarbonyl L-xylulose reductase	NM_026428.2
25	Gene Cbr2	MLCR, Cbr2 carbonyl reductase 2	NM_007621.2
33	Gene Rfng	Rfng, MGC901 RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminy	NM_009053.2
33	Gene Gps1	Sgn1, Csn1, M1G protein pathway suppressor 1	NM_001177874.1
33	Gene Dus1l	1110032N12Ri dihydrouridine synthase 1-like (S. cerevisiae)	NM_026824.4
51	Gene Fasn	FAS, Fasn, A63 fatty acid synthase	NM_007988.3
51	Gene Ccdc57	Ccdc57, 49334 coiled-coil domain containing 57	NM_027745.1
18	Gene Slc16a3	Mct3, Slc16a3, solute carrier family 16 (monocarboxylic acid transp	NM_030696.3, NM
93	Gene Csnk1d	Csnk1d, D930C casein kinase 1, delta	NM_027874.2, NM
17	Gene Tex19.1	Tex19a, 24100 testis expressed gene 19.1	NM_028602.2
41	Gene Ogfod3	Ogfod3, 1110C 2-oxoglutarate and iron-dependent oxygenase dom:	NM_025402.2
41	Gene Hexdc	Hexdc, MGC78 hexosaminidase (glycosyl hydrolase family 20, cataly	NM_001001333.2
35	Gene Wdr45b	Wdr45l, AA408 WD repeat domain 45B	NM_025793.3
35	Gene Rab40b	rar, Rab40b, S1 Rab40b, member RAS oncogene family	NM_139147.3
28	Gene Fn3k	Fn3k, 2310074 fructosamine 3 kinase	NM_022014.4, NM
28	Gene Tbcd	Tbcd, A030005 tubulin-specific chaperone d	NM_029878.3
24	Gene Metrnl	9430048M07R meteorin, glial cell differentiation regulator-like	NM_144797.3
25	Gene Rab10	Rab10, AW107 RAB10, member RAS oncogene family	NM_016676.5
37	Gene 1110002	1110002L01Ril RIKEN cDNA 1110002L01 gene	NR_030694.1

37	Gene Asxl2	MGC176101, Additional sex combs like 2 (Drosophila)	NM_001270988.1
21	Gene Dtnb	Dtnb, dystrobrevin, beta	NM_007886.2, NM
26	Gene Dnmt3a	AU015806, Wt DNA methyltransferase 3A	NM_153743.3, NM
17	Gene Adcy3	mKIAA0511, A adenylate cyclase 3	NM_138305.3, NM
27	Gene Ncoa1	Ncoa1, bHLHe nuclear receptor coactivator 1	NM_010881.2
15	Gene Fkbp1b	AW494148, 12FK506 binding protein 1b	NM_016863.3
15	Gene BC068281	BC068281, A4: cDNA sequence BC068281	NM_001170858.1,
30	Gene Ubxn2a	Ubx4, MGC7: UBX domain protein 2A	NM_145441.3
30	Gene Atad2b	Atad2b, D530C ATPase family, AAA domain containing 2B	NM_001099628.1
17	Gene Kihl29	A230106N14Rik, mKIAA1921, Gm68, Kbtbd9, Kihl29	NM_001164493.1
21	Gene Pum2	Pumm2, 5730: pumilio 2 (Drosophila)	NM_030723.2, NM
27	Gene Sdc1	Synd, AA4081: syndecan 1	NM_011519.2
34	Gene Laptm4a	mKIAA0108, L: lysosomal-associated protein transmembrane 4A	NM_008640.2
16	Gene 1700022	1700022H16Ri RIKEN cDNA 1700022H16 gene	NR_045488.1
16	Gene Osr1	Osr, Osr1, Odd odd-skipped related 1 (Drosophila)	NM_011859.3
35	Gene Nt5c1b	Nt5c1b, AIRP, 5'-nucleotidase, cytosolic IB	NM_027588.3
35	Gene Rdh14	PAN2, Rdh14, retinol dehydrogenase 14 (all-trans and 9-cis)	NM_023697.2
24	Gene Gen1	Gen1, 583048: Gen homolog 1, endonuclease (Drosophila)	NM_177331.4
24	Gene Smc6	KIAA4103, AW structural maintenance of chromosomes 6	NM_025695.4
19	Gene Rad51ap2	Rad51ap2, EG: RAD51 associated protein 2	NM_001111118.1
47	Gene Mycn	Nmyc1, Nmyc-v-myc myelocytomatosis viral related oncogene, neu	NM_008709.3
23	Gene Ddx1	AA409185, Dd: DEAD (Asp-Glu-Ala-Asp) box polypeptide 1	NM_134040.1
24	Gene Trib2	TRB-2, AW319 tribbles homolog 2 (Drosophila)	NM_144551.5
32	Gene Ntsr2	Ntsr2, NTRL, N neurotensin receptor 2	NM_008747.2
32	Gene Greb1	AU023194, 91: gene regulated by estrogen in breast cancer protein	NM_001252071.1
32	Gene E2f6	AI462434, EM: E2F transcription factor 6	NM_033270.2, NR
27	Gene Rock2	mKIAA0619, R: Rho-associated coiled-coil containing protein kinase	NM_009072.2
31	Gene Pdia6	C77895, Txndc protein disulfide isomerase associated 6	NM_027959.3, XM
39	Gene Odc1	Odc1, MGC10: ornithine decarboxylase, structural 1	NM_013614.2
33	Gene Hpcal1	Vsnl3, Hpcal1, hippocalcin-like 1	NM_016677.4
28	Gene Cpsf3	MGC118660, C cleavage and polyadenylation specificity factor 3	NM_018813.3
28	Gene lah1	1500019E20Ri isoamyl acetate-hydrolyzing esterase 1 homolog (S.	NM_026347.3
28	Gene Adam17	CD156b, Adam a disintegrin and metallopeptidase domain 17	NM_009615.5
39	Gene Klf11	Tieg2, Tieg2b, Kruppel-like factor 11	NM_178357.3
38	Gene Rrm2	Rrm2, AA4072 ribonucleotide reductase M2	NM_009104.2
30	Gene Kidins22	AI316525, Kidi kinase D-interacting substrate 220	NM_001081378.1
25	Gene Rnf144a	Rnf144a, Ubce ring finger protein 144A	NM_001081977.1
26	Gene Cmpk2	Cmpk2, Tyki, 1 cytidine monophosphate (UMP-CMP) kinase 2, mito	NM_020557.4
34	Gene Sox11	1110038H03Ri SRY-box containing gene 11	NM_009234.6
57	Gene Rps7	Rps7A, Rps7, S ribosomal protein S7	NM_011300.3
27	Gene Rnaseh1	Rnaseh1, ribonuclease H1	NM_011275.2
28	Gene Pxdn	Pxdn, VPO1, mperoxidasin homolog (Drosophila)	NM_181395.2
25	Gene Lamb1	Lamb1-1, D13: laminin B1	NM_008482.2
26	Gene Dld	AI746344, AI3: dihydrolipoamide dehydrogenase	NM_007861.4
15	Gene Slc26a4	Slc26a4, Pds solute carrier family 26, member 4	NM_011867.3
16	Gene Hbp1	1700058O05Ri high mobility group box transcription factor 1	NM_153198.2, NM
25	Gene Prkar2b	AW061005, Pk protein kinase, cAMP dependent regulatory, type II	NM_011158.3

28	Gene Ccdc71l	2010109K11Ri coiled-coil domain containing 71 like	NM_001162903.1
24	Gene 4933406	4933406C10Ri RIKEN cDNA 4933406C10 gene	NR_044986.1
24	Gene Sypl	Pphn, Sypl, Alé synaptophysin-like protein	NM_198710.3, NM
26	Gene Twistnb	2410173G11, ¿TWIST neighbor	NM_172253.2
22	Gene Twist1	bHLHa38, pdt, twist basic helix-loop-helix transcription factor 1	NM_011658.2
22	Gene Snx13	Rgs-px1, mKIA, sorting nexin 13	NM_001014973.2
22	Gene Gm1093	Gm10933, ENS predicted gene 10933	XR_141116.1, XR_
25	Gene Ahr	Ahr, bHLHe76, aryl-hydrocarbon receptor	NM_013464.4
30	Gene Bzw2	HSPC028, MGC basic leucine zipper and W2 domains 2	NM_025840.3
30	Gene Ankmy2	AI035571, MG ankyrin repeat and MYND domain containing 2	NM_146033.3
26	Gene Gm1955	Gm19558 predicted gene, 19558	XR_168488.1, XR_
26	Gene Ispd	4930579E17Ri isoprenoid synthase domain containing	NM_178629.5
17	Gene Etv1	ER81, Etsrp81, ets variant gene 1	NM_001163154.1
27	Gene Arl4a	Arl4, Arl4a, Al¿ADP-ribosylation factor-like 4A	NM_001039515.1
35	Gene Zfp277	NIRF4, 241001 zinc finger protein 277	NM_172575.3, NM
35	Gene Dock4	6330411N01Ri dedicator of cytokinesis 4	NM_172803.2
27	Gene Pnpla8	MGC150064, ¿patatin-like phospholipase domain containing 8	NM_026164.2
26	Gene Stxbp6	MGC30948, BC syntaxin binding protein 6 (amisyn)	NM_144552.3
20	Gene Prkd1	Prkcm, Pkcm, I protein kinase D1	NM_008858.3
24	Gene Strn3	Gs2na, Strn3, ¿striatin, calmodulin binding protein 3	NM_001172098.1
24	Gene Ap4s1	AI314282, Ap4 adaptor-related protein complex AP-4, sigma 1	NM_021710.3
30	Gene Hectd1	opm, A630086 HECT domain containing 1	NM_144788.2
30	Gene Gm5785	EG544864, Gr predicted gene 5785	XM_974939.1
25	Gene Heatr5a	Heatr5a, C230 HEAT repeat containing 5A	NM_177171.4
28	Gene Eapp	1810011O16Ri E2F-associated phosphoprotein	NM_025456.3
24	Gene Snx6	AU018928, Sn¿sorting nexin 6	NM_026998.3
20	Gene Baz1a	Gtl5, BC06512, bromodomain adjacent to zinc finger domain 1A	NM_013815.2
25	Gene Psma6	IOTA, Psma6 proteasome (prosome, macropain) subunit, alpha type 6	NM_011968.3
35	Gene Nfkbia	Nfkbia, AI4620 nuclear factor of kappa light polypeptide gene enhancer 1B	NM_010907.2
24	Gene Insm2	Mlt1, Insm2 insulinoma-associated 2	NM_020287.2
24	Gene Ralgapa1	mKIAA0884, 4¿Ral GTPase activating protein, alpha subunit 1	NM_019994.4, NM
22	Gene E030019	AI413669, E03 RIKEN cDNA E030019B13 gene	NR_045082.1
22	Gene Nkx2-1	T/EBP, Titf1, A¿NK2 homeobox 1	NM_009385.3, NM
24	Gene Nkx2-9	Nkx-2.9, tinma NK2 transcription factor related, locus 9 (Drosophila)	NM_008701.2
18	Gene Pax9	Pax-9, Pax9 paired box gene 9	NM_011041.2
30	Gene Prps13	MGC117905, F phosphoribosyl pyrophosphate synthetase 1-like 3	NM_001037746.3
30	Gene Mipol1	6030439O22Ri mirror-image polydactyly gene 1 homolog (human)	NM_001164370.1
35	Gene Sec23a	Sec23a, Sec23¿SEC23A (S. cerevisiae)	NM_009147.2
35	Gene Gemin2	Sip1, Gemin2, gem (nuclear organelle) associated protein 2	NM_025656.4
28	Gene Trappc6l	Trappc6b, 583 trafficking protein particle complex 6B	NM_030057.2
28	Gene Pnn	D12Ert512e, ¿pinin	NM_008891.2
23	Gene Ctage5	Ctage5, D12Bv CTAGE family, member 5	NM_146034.3, NM
31	Gene Fbxo33	AI642135, Fbx¿F-box protein 33	NM_001033156.4
37	Gene Prpf39	Srsc1, FLJ1112, PRP39 pre-mRNA processing factor 39 homolog (yeast)	NM_177806.3
37	Gene Fkbp3	Fkbp3, 25kDa, FK506 binding protein 3	NM_013902.4
37	Gene Fancm	C730036B14Ri Fanconi anemia, complementation group M	NM_178912.3
23	Gene Mis18bp	KIAA1903, Mis MIS18 binding protein 1	NM_172578.2

29	Gene Rps29	Rps29	NM_009093.2
29	Gene Rn7s1	Rn7s1, Rn7s-1 7S RNA 1	NR_052007.1
37	Gene Lrr1	2410005L11Ri leucine rich repeat protein 1	NM_001081406.1
37	Gene Rpl36al	2410038A03Ri ribosomal protein L36A-like	NM_025589.4
57	Gene Mgat2	MGC37173, Gl mannoside acetylglucosaminyltransferase 2	NM_146035.2
57	Gene Dnaaf2	1110034A24Ri dynein, axonemal assembly factor 2	NM_027269.3
57	Gene 9330151	9330151L19Ri RIKEN cDNA 9330151L19 gene	NR_033222.1
57	Gene Pole2	Pole2 polymerase (DNA directed), epsilon 2 (p59 subunit)	NM_011133.2
18	Gene Klhdc1	Klhdc1, MGC1 kelch domain containing 1	NM_178253.5
34	Gene Klhdc2	HCLP-1, 23100 kelch domain containing 2	NM_027117.3
35	Gene Arf6	AW496366, AI ADP-ribosylation factor 6	NM_007481.3
30	Gene Mettl21	Gm71, Mettl2: methyltransferase like 21D	NM_001033236.2
30	Gene Sos2	Sos2 son of sevenless homolog 2 (Drosophila)	NM_001135559.1
23	Gene L2hgdh	MGC28775, L2 L-2-hydroxyglutarate dehydrogenase	NM_145443.2
29	Gene Map4k5	KHS, GCKR, 44: mitogen-activated protein kinase kinase kinase kinase	NM_201519.2
29	Gene Atl1	SPG3, 493043: atlastin GTPase 1	NM_178628.5
21	Gene Sav1	Wwp4, Sav1, V salvador homolog 1 (Drosophila)	NM_022028.2
21	Gene Nin	mKIAA1565, 3: ninein	NM_001081453.1
21	Gene Pygl	Pygl	NM_133198.2
21	Gene F730035	F730035M05R RIKEN cDNA F730035M05 gene	NR_045174.1
26	Gene Trim9	C030048G07Ri tripartite motif-containing 9	NM_053167.3, NM
34	Gene Frmd6	Frmd6, 49304: FERM domain containing 6	NM_028127.3
42	Gene 3110056	4921536K06Ri RIKEN cDNA 3110056K07 gene	NR_045055.1, NR_
42	Gene Arid4a	MmRBBP1, A6 AT rich interactive domain 4A (RBP1-like)	NM_001081195.1
31	Gene Timm9	2810011L15Ri translocase of inner mitochondrial membrane 9	NM_013896.3, NM
31	Gene 2700049	2700049A03Ri RIKEN cDNA 2700049A03 gene	NM_001163378.1
23	Gene Dact1	DAPPER1, DAP dapper homolog 1, antagonist of beta-catenin (xeno	NM_001190466.1
23	Gene LOC101055739	uncharacterized LOC101055739	XM_003945490.1
26	Gene Daam1	E130308H01, 1 dishevelled associated activator of morphogenesis 1	NM_026102.2, NM
31	Gene Gpr135	PAFR, Gpr135 G protein-coupled receptor 135	NM_181752.1
43	Gene L3hypdh	2810055F11Ri L-3-hydroxyproline dehydratase (trans-)	NM_026038.2
43	Gene Jkamp	Jamp, Jkamp, JNK1/MAPK8-associated membrane protein	NM_024205.2, NM
33	Gene Ppm1a	2310003C21Ri protein phosphatase 1A, magnesium dependent, alpha	NM_008910.3
23	Gene Trmt5	2610027O18Ri TRM5 tRNA methyltransferase 5	NM_029580.3
23	Gene Slc38a6	EG625098, Slc: solute carrier family 38, member 6	NM_001037717.3
22	Gene Tmem30	9130011B11Ri transmembrane protein 30B	NM_178715.3
22	Gene 2210039	2210039B01Ri RIKEN cDNA 2210039B01 gene	NR_044985.1
22	Gene Prkch	Pkch, Prkch protein kinase C, eta	NM_008856.3
28	Gene Hif1a	HIF1alpha, MC hypoxia inducible factor 1, alpha subunit	NM_010431.2
28	Gene Gm2023	Gm20235 predicted gene, 20235	XR_141136.1, XR_
22	Gene Gm5068	EG277089, Grr predicted gene 5068	XM_204772.4, XM
22	Gene Snapc1	2700033G17Ri small nuclear RNA activating complex, polypeptide 1	NM_178392.4
24	Gene Ppp2r5e	Ppp2r5e, AI44: protein phosphatase 2, regulatory subunit B (B56), epsilon	NM_012024.2
26	Gene Sgpp1	Spph1, SPP, Sg sphingosine-1-phosphate phosphatase 1	NM_030750.3
29	Gene Syne2	Nesp2g, 68204 spectrin repeat containing, nuclear envelope 2	NM_001005510.2
31	Gene Zbtb25	AI842128, Kup zinc finger and BTB domain containing 25	NM_001172104.1
31	Gene Zbtb1	AI256369, C43 zinc finger and BTB domain containing 1	NM_178744.2

25	Gene 4930426	4930426I24Rik	RIKEN cDNA 4930426I24 gene	XR_106723.1, XR_
25	Gene Hspa2	Hspa2,	Hsp70- heat shock protein 2	NM_001002012.1
18	Gene Mir5135	Mir5135,	mmu microRNA 5135	NR_039597.1
18	Gene Plekhg3	MGC40768,	Pl ₁ pleckstrin homology domain containing, family G (w	NM_153804.4
23	Gene Sptb	D330027P03Ri	spectrin beta, erythrocytic	NM_013675.3
19	Gene Max	bHLHd8,	bHLH Max protein	NM_008558.2, NM
26	Gene Fut8	Fut8		NM_001252614.1,
36	Gene Gphn	C230040D23,	Igephyrin	NM_172952.3, NM
18	Gene Mpp5	AI255216,	AI6 ₁ membrane protein, palmitoylated 5 (MAGUK p55 su	NM_019579.3
24	Gene Tmem22	Tmem229b,	9 ₈ transmembrane protein 229B	NM_178745.4, NM
29	Gene Plekhh1	AV308913,	Ple pleckstrin homology domain containing, family H (w	NM_181073.3
29	Gene Pigh	MGC102258,	F phosphatidylinositol glycan anchor biosynthesis, cla	NM_029988.2
31	Gene Vti1b	MVti1b,	SNARE, GES30, Vti1-rp1, AU015348, Vti1b	NM_016800.3
31	Gene Rdh11	AI428145,	CGI ₁ retinol dehydrogenase 11	NM_021557.5
50	Gene Zfp361	Brf1,	AW7424 ₁ :zinc finger protein 36, C3H type-like 1	NM_007564.5
50	Gene 2310015	2310015A10Ri	RIKEN cDNA 2310015A10 gene	NR_033514.1
30	Gene Actn1	Actn1a,	Actn1, actinin, alpha 1	NM_134156.2
26	Gene Dcaf5	Wdr22,	AI325C DDB1 and CUL4 associated factor 5	NM_177267.4
31	Gene Exd2	4930539P14Ri	exonuclease 3'-5' domain containing 2	NM_133798.3
23	Gene 2310002	2310002D06Ri	RIKEN cDNA 2310002D06 gene	NR_045490.1
23	Gene Galnt16	5730405L21Ri	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N	NM_001081421.1
30	Gene Erh	MGC130271,	F enhancer of rudimentary homolog (Drosophila)	NM_007951.3
30	Gene Slc39a9	2610511I23Ri	solute carrier family 39 (zinc transporter), member 9	NM_026244.2
18	Gene 0610009	0610009B14Ri	RIKEN cDNA 0610009B14 gene	NR_037995.1
18	Gene Plekhd1	3830431G21Ri	pleckstrin homology domain containing, family D (w	NM_001177503.1
19	Gene Ccdc177	Ccdc177,	Gm1 coiled-coil domain containing 177	NM_001008423.2
35	Gene 4933426	mKIAA0247,	4 ₁ RIKEN cDNA 4933426M11 gene	NM_001242419.1,
29	Gene Gm2033	Gm20337	predicted gene, 20337	NR_045057.1
29	Gene Srsf5	Srsf5,	Sfrs5, M serine/arginine-rich splicing factor 5	NM_001079694.1
29	Gene Slc10a1	Ntcp,	Slc10a1 solute carrier family 10 (sodium/bile acid cotranspor	NM_001177561.1
23	Gene Smoc1	AI848508,	260 SPARC related modular calcium binding 1	NM_022316.2, NM
29	Gene Pcnx	3526401J03Ri	pecanex homolog (Drosophila)	NM_018814.3
24	Gene Sipa11	4931426N11Ri	signal-induced proliferation-associated 1 like 1	NM_172579.3, NM
27	Gene Dpf3	Dpf3,	6530402D4, zinc and double PHD fingers, family 3	NM_001267625.1,
22	Gene Zfyve1	G630053K23,	I zinc finger, FYVE domain containing 1	NM_183154.3
27	Gene Rbm25	AL023075,	AU RNA binding motif protein 25	NM_027349.3
27	Gene Psen1	PS-1,	Psen1, S ₁ presenilin 1	NM_008943.2
47	Gene LOC101055670		HEAT repeat-containing protein 4-like	XM_003945496.1
47	Gene LOC101055814		uncharacterized LOC101055814	XM_003945491.1
47	Gene 2410016	MAPJD,	NO66, RIKEN cDNA 2410016O06 gene	NM_023633.3
32	Gene Acot2	AA571646,	Ac ₁ acyl-CoA thioesterase 2	NM_134188.3
16	Gene Acot6	Acot6,	A33005 acyl-CoA thioesterase 6	NM_172580.1
28	Gene Elmsan1	Elmsan1,	9430 ELM2 and Myb/SANT-like domain containing 1	NM_001163501.1,
28	Gene Gm1932	Gm19327	predicted gene, 19327	XR_141138.1
37	Gene Fam161	I9330169D17,	9 family with sequence similarity 161, member B	NM_172581.2
37	Gene Coq6	Coq6,	5930427 coenzyme Q6 homolog (yeast)	NM_172582.3
21	Gene Entpd5	mNTPase,	NTP ectonucleoside triphosphate diphosphohydrolase 5	NM_007647.2, NM

21	Gene Ccdc176	2900006K08Ri coiled-coil domain containing 176	NM_028377.3
21	Gene Rnf113a	MGC144613, 2 ring finger protein 113A2	NM_025525.2
20	Gene Syndig1l	DSPC1, Gm261synapse differentiation inducing 1 like	NM_001033334.2
23	Gene Ltbp2	MGC144212, L latent transforming growth factor beta binding prot	NM_013589.3
23	Gene D030025P21	D030025P21Ri RIKEN cDNA D030025P21 gene	NR_028577.1
28	Gene Ylpm1	A930013E17Ri YLP motif containing 1	NM_178363.3
33	Gene Prox2	1700058C01Ri prospero homeobox 2	NM_175198.4
33	Gene Dlst	DLTS, 4930529 dihydrolipoamide S-succinyltransferase (E2 compon	NM_030225.4
21	Gene Nek9	C130021H08Ri NIMA (never in mitosis gene a)-related expressed ki	NM_145138.2
21	Gene Tmed10	p24delta1, Tm transmembrane emp24-like trafficking protein 10 (y	NM_026775.4
17	Gene Fos	cFos, D12Rfj1, FBJ osteosarcoma oncogene	NM_010234.2
21	Gene LOC101055678	uncharacterized LOC101055678	XM_003945497.1
21	Gene Jdp2	Jundp2, TIF, JdJun dimerization protein 2	NM_030887.2, NM
18	Gene Mfsd7c	MGC19050, Fl major facilitator superfamily domain containing 7C	NM_145447.2
26	Gene Vash1	G630009D10R vasohibin 1	NM_177354.4
48	Gene Irf2bpl	Irf2bpl, Eap1, ε interferon regulatory factor 2 binding protein-like	NM_145836.2
33	Gene Pomt2	A830009D15Ri protein-O-mannosyltransferase 2	NM_153415.3
33	Gene Gstz1	Gstz1, MAAI glutathione transferase zeta 1 (maleylacetoacetate i	NM_001252555.1
29	Gene Tmed8	Mem1, AI4472 transmembrane emp24 domain containing 8	NM_001033475.3
29	Gene Samd15	Gm263, Samd: sterile alpha motif domain containing 15	XM_907143.3, XM
18	Gene Ism2	Ism2, Thsd3, G isthmin 2 homolog (zebrafish)	XM_138107.7, XM
24	Gene Sptlc2	mKIAA0526, L(serine palmitoyltransferase, long chain base subunit	NM_011479.3
28	Gene Alkbh1	Abh, 2700073(alkB, alkylation repair homolog 1 (E. coli)	NM_001102565.1
28	Gene Mir3068	mmu-mir-3068 microRNA 3068	NR_037228.1
28	Gene Nrp	neural regeneration protein	NM_001013372.2
28	Gene Slirp	1810035L17Ri SRA stem-loop interacting RNA binding protein	NM_026958.3
28	Gene Snw1	SKIP, Snw1, 23 SNW domain containing 1	NM_025507.2
27	Gene Cep128	E230024F20, C centrosomal protein 128	NM_181815.3
33	Gene Gtf2a1	Gtf2a1, Tfii1, general transcription factor II A, 1	NM_175335.3, NM
33	Gene Ston2	Ston2, AI4259:stonin 2	NM_175367.6
31	Gene Flrt2	KIAA0405, Flrt fibronectin leucine rich transmembrane protein 2	NM_201518.4
33	Gene Galc	twitcher, Gacy galactosylceramidase	NM_008079.3
33	Gene Gpr65	Dig1, Gpr65, T G-protein coupled receptor 65	NM_008152.2
18	Gene Kcnk10	3010005K24Ri potassium channel, subfamily K, member 10	NM_029911.4
23	Gene Ptpn21	Ptpn21, PTPD1 protein tyrosine phosphatase, non-receptor type 21	NM_011877.2, NM
23	Gene Zc3h14	1700016A15Ri zinc finger CCCH type containing 14	NM_029334.2, NM
19	Gene Eml5	C130068M19R echinoderm microtubule associated protein like 5	NM_001081191.1
32	Gene Foxn3	HTLFL1, Ches1 forkhead box N3	NM_183186.2
17	Gene 1700064	1700064M15R RIKEN cDNA 1700064M15 gene	NR_045288.1
23	Gene Efcab11	2610021K21Ri EF-hand calcium binding domain 11	NM_030172.2
24	Gene Tdp1	SCAN1, E4300: tyrosyl-DNA phosphodiesterase 1	NM_028354.4
24	Gene Kcnk13	MGC31053, Gr potassium channel, subfamily K, member 13	NM_146037.2, NM
27	Gene Psmc1	Psmc1, S4, P2ε protease (prosome, macropain) 26S subunit, ATPase	NM_008947.3
51	Gene Gm1043	Gm10433, ENS predicted gene 10433	NR_045282.1
51	Gene Calm1	Calm3, AI3270 calmodulin 1	NM_009790.4
30	Gene Rps6ka5	RLPK, MSPK1, ribosomal protein S6 kinase, polypeptide 5	NM_153587.2
33	Gene Ccdc88c	Ccdc88c, AV00 coiled-coil domain containing 88C	NM_026681.4

33	Gene Mir1190	Mirn1190, mr microRNA 1190	NR_035421.1
42	Gene Smek1	Smek1, 11100: SMEK homolog 1, suppressor of mek1 (Dictyostelium)	NM_211355.2, NM
42	Gene D130020L05	9430007L23Ri RIKEN cDNA D130020L05 gene	NR_038047.1, NR_
26	Gene Trip11	2610511G22Ri thyroid hormone receptor interactor 11	NM_028446.1
26	Gene Gm2003	Gm20036 predicted gene, 20036	XR_106735.1, XR_
26	Gene Atxn3	A1647473, MJL ataxin 3	NM_029705.3, NM
23	Gene Rin3	C86933, Rin3, Ras and Rab interactor 3	NM_177620.4, NM
21	Gene Itpk1	BC031182, Itp inositol 1,3,4-triphosphate 5/6 kinase	NM_172584.3
28	Gene Gm2060	MGC25937, At predicted gene 20604	NM_001142939.1
28	Gene AK01087	MGC25937, M cDNA sequence AK010878	NM_001142938.1
28	Gene Ubr7	5730410I19Ri ubiquitin protein ligase E3 component n-recogin 7	NM_025666.2
23	Gene Btbd7	Btbd7, mKIAA1 BTB (POZ) domain containing 7	NM_172806.2
19	Gene Unc79	9030205A07Ri unc-79 homolog (C. elegans)	NM_001081017.2
24	Gene Ddx24	1700055J08Ri DEAD (Asp-Glu-Ala-Asp) box polypeptide 24	NM_020494.3, NM
24	Gene Ifi2711	1110013J02Ri interferon, alpha-inducible protein 27 like 1	NM_194066.2, NM
22	Gene Gsc	Gsc	NM_010351.1
22	Gene Gm1000	Gm10000, ENS predicted gene 10000	XR_141122.1, XR_
28	Gene Dicer1	D12ErtD7e, Dic dicer 1, ribonuclease type III	NM_148948.2
20	Gene D430019H16	AI852661, D43 RIKEN cDNA D430019H16 gene	NM_001252508.1
35	Gene Atg2b	AI047755, C63 autophagy related 2B	NM_029654.4
35	Gene Gskip	4933433P14Ri GSK3B interacting protein	NM_178613.3
25	Gene Ak7	Ak7, 4930502P adenylate kinase 7	NM_030187.1
25	Gene Papola	Plap, Pap, Pap poly (A) polymerase alpha	NM_011112.3
16	Gene Bcl11b	Ctip2, B63000: B cell leukemia/lymphoma 11B	NM_021399.2, NM
16	Gene Gm1957	Gm19576 predicted gene, 19576	XR_106743.1, XR_
22	Gene Setd3	D12ErtD771e, SET domain containing 3	NM_028262.3
22	Gene Ccnk	CPR4, CycK, A cyclin K	NM_009832.2
47	Gene Ccdc85c	EG668158, Ccc coiled-coil domain containing 85C	NM_001159910.1
29	Gene Eml1	A930030P13Ri echinoderm microtubule associated protein like 1	NM_001043335.1
24	Gene Gm1659	Gm16596 predicted gene, 16596	NR_045751.1, NR_
24	Gene Evl	Evl, AI528774 Ena-vasodilator stimulated phosphoprotein	NM_001163394.1
37	Gene Yy1	Yy1, NF-E1, AVYY1 transcription factor	NM_009537.3
31	Gene Slc25a25	C030003J19Ri solute carrier family 25 (mitochondrial carrier, palm	NM_181328.3
31	Gene Mir345	mmu-mir-345, microRNA 345	NR_029773.1
19	Gene Wdr25	B930090D16Ri WD repeat domain 25	NM_177602.3
19	Gene Begain	Gm897, BM94 brain-enriched guanylate kinase-associated	NM_001163175.1
21	Gene Dlk1	Dlk1, Dlk1, Peg delta-like 1 homolog (Drosophila)	NM_001190703.1,
35	Gene Ppp2r5c	Ppp2r5c, C852 protein phosphatase 2, regulatory subunit B (B56), g	NM_001081457.1
41	Gene 9430024F10	9430024F10Ri RIKEN cDNA 9430024F10 gene	XR_168502.1
41	Gene B930059L03	B930059L03Ri RIKEN cDNA B930059L03 gene	NR_033340.1
41	Gene Dync1h1P22	DHC1a, A dynein cytoplasmic 1 heavy chain 1	NM_030238.2
34	Gene Hsp90aa	Hsp90, Hsp90a heat shock protein 90, alpha (cytosolic), class A men	NM_010480.5
24	Gene Stk30	Rage, MOK, M serine/threonine kinase 30	NM_011973.2
24	Gene Zfp839	2810455K09Ri zinc finger protein 839	NM_028365.2, NM
24	Gene Mpc1-ps	Brp44l-ps, Gm. mitochondrial pyruvate carrier 1, pseudogene	
24	Gene Tecpr2	mKIAA0297, 4 tectonin beta-propeller repeat containing 2	NM_001081057.2
24	Gene Ankrd9	2500003O20Ri ankyrin repeat domain 9	NM_175207.4

27	Gene Rcor1	D12Wsu95e, 5 REST corepressor 1	NM_198023.2
22	Gene Traf3	CD40bp, amn, TNF receptor-associated factor 3	NM_001048206.1
22	Gene Amn	5033428N14Ri amnionless	NM_033603.2
22	Gene A230087	A230087F16Ri RIKEN cDNA A230087F16 gene	XR_106750.1, XR_
47	Gene Cdc42bp	Cdc42bpb, MRCKb	NM_183016.2
27	Gene Gm266	Gm266 predicted gene 266	NM_001033248.3
43	Gene Eif5	2810011H21Ri eukaryotic translation initiation factor 5	NM_178041.2, NM
43	Gene Snora28	MBI-13, Snora: small nucleolar RNA, H/ACA box 28	NR_033168.1
41	Gene 2810029	AU017849, 28: RIKEN cDNA 2810029C07 gene	NR_045295.1
41	Gene Mark3	A430080F22Ri MAP/microtubule affinity-regulating kinase 3	NM_021516.4, NM
65	Gene Ckb	Ckbb, Ckb, Bck creatine kinase, brain	NM_021273.4
65	Gene Trmt61a	Trmt61a, Trmε tRNA methyltransferase 61A	NM_177374.4, NM
26	Gene Apopt1	1700081D05Ri apoptogenic, mitochondrial 1	NM_026511.2, NM
33	Gene Klc1	Kns2, AI87476: kinesin light chain 1	NM_001025360.2
33	Gene Xrcc3	4432412E01Ri X-ray repair complementing defective repair in Chin	NM_028875.2
33	Gene Zfyve21	C85416, 1110C zinc finger, FYVE domain containing 21	NM_026752.4
28	Gene Ppp1r13	ASPP1, p85, AI protein phosphatase 1, regulatory (inhibitor) subuni	NM_011625.1
30	Gene Kif26a	mKIAA1236, KI kinesin family member 26A	NM_001097621.1
17	Gene Inf2	2610204M08R inverted formin, FH2 and WH2 domain containing	NM_198411.2
33	Gene Adssl1	AI528595, Ads adenylosuccinate synthetase like 1	NM_007421.2
33	Gene Siva1	Siva, Siva1, CD SIVA1, apoptosis-inducing factor	NM_013929.2, NM
33	Gene Akt1	PKB/Akt, Rac, γ thymoma viral proto-oncogene 1	NM_009652.3, NM
28	Gene Zbtb42	simiRP58, Zbtb zinc finger and BTB domain containing 42	NM_001100460.1
22	Gene Cep170	AW555464, Ki: centrosomal protein 170B	NM_001024602.3
30	Gene LOC101055828	protein AHNAK2-like	XM_003945498.1,
30	Gene BC02268	BC022687, C1: cDNA sequence BC022687	NM_145450.3
36	Gene Cdca4	SEI-3, Cdca4, 2 cell division cycle associated 4	NM_028023.3
24	Gene Jag2	sm, Serh, Jag2, jagged 2	NM_010588.2
24	Gene Nudt14	1110030M18R nudix (nucleoside diphosphate linked moiety X)-type	NM_025399.3
28	Gene Brf1	Brf1, mTFIIB9: BRF1 homolog, subunit of RNA polymerase III transc	NM_028193.3
27	Gene Btbd6	Btbd6 BTB (POZ) domain containing 6	NM_201646.2, NM
29	Gene Pacs2	Pacs2, AW489: phosphofurin acidic cluster sorting protein 2	NM_001081170.1
25	Gene Mta1	Mta1, MGC11: metastasis associated 1	NM_054081.2
25	Gene Crip2	Crip2, ESP1, C7 cysteine rich protein 2	NM_024223.2
27	Gene Tmem12	Hole, Tmem12 transmembrane protein 121	NM_153776.2
25	Gene Zfp386	Zfp386, KIAA4: zinc finger protein 386 (Kruppel-like)	NM_019565.3, NM
19	Gene Cdca7	MGC11998, Cc cell division cycle associated 7 like	NM_146040.1
19	Gene Sp4	5730497N03Ri trans-acting transcription factor 4	NM_009239.3, NM
18	Gene Sp8	Sp8, D930049: trans-acting transcription factor 8	NM_177082.4
21	Gene Gdi2	GDIB, Gdi3, G[guanosine diphosphate (GDP) dissociation inhibitor	NM_008112.4
38	Gene BC01642	MGC25933, AI cDNA sequence BC016423	NM_134063.3
23	Gene Gtpbp4	Nog1, Crfg, 26: GTP binding protein 4	NM_027000.4
25	Gene Larp4b	A630096F19, MLa ribonucleoprotein domain family, member 4B	NM_172585.2
32	Gene Zmynd1	BS69, Zmynd1 zinc finger, MYND domain containing 11	NM_144516.3, NM
19	Gene Mtr	MS, Mtr, AI89: 5-methyltetrahydrofolate-homocysteine methyltran	NM_001081128.3
19	Gene Gm2444	Gm2444 predicted gene 2444	XM_003085847.1,
25	Gene Lyst	Lyst, bg, D13Sf lysosomal trafficking regulator	NM_010748.2

21	Gene Hecw1	Nedl1, Hecw1, HECT, C2 and WW domain containing E3 ubiquitin p	NM_001081348.3
23	Gene Mrpl32	Mrpl32, 06100 mitochondrial ribosomal protein L32	NM_029271.2
23	Gene Psma2	Lmpc3, Psma2 proteasome (prosome, macropain) subunit, alpha ty	NM_008944.2
24	Gene Gli3	GLI3FL, AI8548 GLI-Kruppel family member GLI3	NM_008130.2
22	Gene Inhba	Inhba	NM_008380.1
33	Gene Cdk13	2310015O17Ri cyclin-dependent kinase 13	NM_001081058.2,
23	Gene Stard3nl	Stard3nl, AW1 STARD3 N-terminal like	NM_024270.2
17	Gene Epdr1	Ucc1, AU0409! ependymin related protein 1 (zebrafish)	NM_134065.4
17	Gene Sfrp4	Sfrp4	NM_016687.3
31	Gene Elmo1	6330578D22Rik, CED-12, AI173001, C230095H21Rik, mKIAA0281, k	NM_080288.2, NR
40	Gene Trim27	Rfp, AW53889 tripartite motif-containing 27	NM_009054.3
28	Gene Zkscan8	D430019P06Ri zinc finger with KRAB and SCAN domains 8	NM_001251833.1
28	Gene Olfr136f	MOR130-2, Olf olfactory receptor 136f	NM_146283.2
19	Gene Hist1h1k	H1B, H1s-3, H1 histone cluster 1, H1b	NM_020034.1
19	Gene Hist1h3i	Hist1h3i, Hist1 histone cluster 1, H3i	NM_178207.2
19	Gene Hist1h2a	Hist1h2an, Hist1h2ai, Hist1h2ae, Hist1h2ag, Hist1h2ab, Hist1h2ao,	NM_178184.1
19	Gene Hist1h2k	Hist1h2bp histone cluster 1, H2bp	NM_178202.2
34	Gene Lrrc16a	1110037D04Ri leucine rich repeat containing 16A	NM_026825.3
31	Gene BC005533	8030460C05Ri cDNA sequence BC005537	NM_024473.3
36	Gene Acot13	Them2, Acot13 acyl-CoA thioesterase 13	NM_025790.2
36	Gene Tdp2	Tdp2, Ttrap, D13Ertd656e	NM_019551.2
45	Gene Sox4	AA682046, Sox SRY-box containing gene 4	NM_009238.2
37	Gene E2f3	E2f3, E2F3b, E2F transcription factor 3	NM_010093.3
25	Gene Mboat1	LPEAT1, Moac membrane bound O-acyltransferase domain contain	NM_153546.4
29	Gene Uqcrcf1	Uqcrcf1, AI875 ubiquinol-cytochrome c reductase, Rieske iron-sulfu	NM_025710.2
21	Gene Foxq1	sa, Hfh1, Foxq forkhead box Q1	NM_008239.4
21	Gene 17000184930551G20Ri	RIKEN cDNA 1700018A04 gene	NR_029439.1
21	Gene Foxf2	Fkh20, FREAC2 forkhead box F2	NM_010225.2
24	Gene Foxc1	Mf1, Foxc1, FR forkhead box C1	NM_008592.2
24	Gene 49305484930548F15Ri	RIKEN cDNA 4930548F15 gene	XM_003945503.1,
21	Gene Serpinb6	Serpinb6, Spi3, serine (or cysteine) peptidase inhibitor, clade B, mer	NM_009254.3, NM
21	Gene 11100461110046J04Ri	RIKEN cDNA 1110046J04 gene	NR_040707.1
22	Gene Bphl	Bphl, AI11534 biphenyl hydrolase-like (serine hydrolase, breast epi	NM_026512.1
22	Gene Tubb2a	Tubb2, M(beta tubulin, beta 2A class IIA	NM_009450.2
22	Gene 49304474930447K03Ri	RIKEN cDNA 4930447K03 gene	NR_046184.1
28	Gene Pxdc1	Pxdc1, 130001 PX domain containing 1	NM_025831.3
28	Gene LOC101056149	uncharacterized LOC101056149	XR_168717.1, XR_
48	Gene Prpf4b	MGC5960, Prp PRP4 pre-mRNA processing factor 4 homolog B (yea	NM_013830.2
32	Gene Cdyl	Cdyl, AI325931 chromodomain protein, Y chromosome-like	NM_009881.3, NM
40	Gene Lymr4	MGC38622, BCLYR motif containing 4	NM_201358.2
40	Gene Fars2	Fars1, Fars2, 2 phenylalanine-tRNA synthetase 2 (mitochondrial)	NM_024274.2, NM
30	Gene Rreb1	1110037N09Ri ras responsive element binding protein 1	NM_001039188.1
28	Gene Ssr1	SSR, 2510001K signal sequence receptor, alpha	NM_025965.3
20	Gene Cage1	4933427I01Rik cancer antigen 1	NM_027724.2
20	Gene Riok1	MGC7300, 543 RIO kinase 1 (yeast)	NM_024242.3
22	Gene Dsp	2300002E22Ri desmoplakin	NM_023842.2
25	Gene Bmp6	Vgr1, Bmp6, D bone morphogenetic protein 6	NM_007556.2

26	Gene Txndc5	ERp46, AL0226 thioredoxin domain containing 5	NM_145367.3
37	Gene Eef1e1	Eef1e1, 11100 eukaryotic translation elongation factor 1 epsilon 1	NM_025380.2
18	Gene Slc35b3	Slc35b3, AI428 solute carrier family 35, member B3	NM_134060.4, NM
20	Gene Tfp2a	Ap2, Tfp2a, A transcription factor AP-2, alpha	NM_011547.3, NM
19	Gene Pak1ip1	PIP1, Pak1ip1, PAK1 interacting protein 1	NM_026550.3
19	Gene Tmem14	1110021D01Ri transmembrane protein 14C	NM_025387.3
19	Gene Mak	Mak, A930010 male germ cell-associated kinase	NM_008547.2, NM
25	Gene Elovl2	Scs2, Elovl2, A elongation of very long chain fatty acids (FEN1/Elo2, NM_019423.2	NM_019423.2
25	Gene Hivep1	Hivep1, Cryab, human immunodeficiency virus type I enhancer binding	NM_007772.2
33	Gene Gfod1	9630032O13, glucose-fructose oxidoreductase domain containing	NM_001033399.4
28	Gene Sirt5	0610012J09Ri sirtuin 5 (silent mating type information regulation 2	NM_178848.3
28	Gene Nol7	NOP27, Nol7, nucleolar protein 7	NM_023554.2
28	Gene Ranbp9	RanBPM, Ranbp9, RAN binding protein 9	NM_019930.2
38	Gene Dtnbp1	Dtnbp1, AW04 dystrobrevin binding protein 1	NM_025772.4
31	Gene Mylip	Mylip, 943005 myosin regulatory light chain interacting protein	NM_153789.3
31	Gene Atxn1	Ataxin-1, Sca1, ataxin 1	NM_001199305.1
31	Gene 503343C	5033430I15Ri RIKEN cDNA 5033430I15 gene	XR_141159.1
20	Gene C78339	C78339 expressed sequence C78339	NM_001033192.2
40	Gene Nup153	C88147, Nup153 nucleoporin 153	NM_175749.2
30	Gene Kif13a	Kif13a, KIAA41 kinesin family member 13A	NM_010617.2
32	Gene Tpmt	AW106912, Tp thiopurine methyltransferase	NM_016785.2
32	Gene Kdm1b	MGC38211, Kdm1b lysine (K)-specific demethylase 1B	NM_172262.3
24	Gene A330033	A330033J07Ri RIKEN cDNA A330033J07 gene	XR_105535.1
21	Gene Id4	bHLHb27, Id4 inhibitor of DNA binding 4	NM_031166.2
21	Gene A330048	A330048O09R RIKEN cDNA A330048O09 gene	NR_045162.1
36	Gene Fam120a	Ossa, Fam120a, KIAA0183, C9orf10	NM_001033268.2
36	Gene Fam120b	Fam120aos, C family with sequence similarity 120A opposite strand	NR_015601.1
23	Gene 1110007	Bincard, AI851 RIKEN cDNA 1110007C09 gene	NM_026738.2
17	Gene Bicd2	KIAA0699, Bicd bicaudal D homolog 2 (Drosophila)	NM_001039179.1
26	Gene Ippk	InsP6, Ippk, 18 inositol 1,3,4,5,6-pentakisphosphate 2-kinase	NM_199056.2
26	Gene Cenpp	1700022C02Ri centromere protein P	NM_025495.3
26	Gene Nol8	5730412B09Ri nucleolar protein 8	NM_001081350.1
34	Gene Fbxw7	Fbxw7, 11100 F-box and WD-40 domain protein 17	NM_175401.3
25	Gene 9430083	9430083A17Ri RIKEN cDNA 9430083A17 gene	NR_029463.1
25	Gene Spin1	Spin, MGC277 spinclin 1	NM_011462.2, NM
26	Gene Cks2	CKSHS2, Cks2, CDC28 protein kinase regulatory subunit 2	NM_025415.3
26	Gene Secisbp2	SBP2, 2210413 SECIS binding protein 2	NM_029279.1
27	Gene Gadd45	C86281, DDIT2 growth arrest and DNA-damage-inducible 45 gamma	NM_011817.2
27	Gene Auh	C77140, Auh, AU RNA binding protein/enoyl-coenzyme A hydratase	NM_016709.2
26	Gene Nfil3	AV225605, Nfil3 nuclear factor, interleukin 3, regulated	NM_017373.3
41	Gene Ror2	Ror2, mRor2, receptor tyrosine kinase-like orphan receptor 2	NM_013846.3
21	Gene Msx2	Hox8.1, Msx2, homeobox, msh-like 2	NM_013601.2
37	Gene Thoc3	2410044K02Ri THO complex 3	NM_028597.3
31	Gene Gm2830	Gm16247, Gm predicted gene 2830	
31	Gene Simc1	Simc1, 473247 SUMO-interacting motifs containing 1	NM_176987.4
36	Gene 4833439	C81457, 49305 RIKEN cDNA 4833439L19 gene	NM_001252645.1
36	Gene Arl10	Arl10a, MGC14 ADP-ribosylation factor-like 10	NM_019968.2

36	Gene Nop16	AA409471, D1. NOP16 nucleolar protein	NM_178605.4
30	Gene Cltb	2310046E19Ri clathrin, light polypeptide (Lcb)	NM_028870.3
41	Gene Rnf44	Rnf44, mKIAA1 ring finger protein 44	NM_001146025.1
34	Gene Cdhr2	Gm624, Cdhr2 cadherin-related family member 2	NM_001033364.3
16	Gene Unc5a	Unc5h1, Unc5: unc-5 homolog A (C. elegans)	NM_153131.3
19	Gene Fgfr4	Fgfr4, Fgfr-4 fibroblast growth factor receptor 4	NM_008011.2
29	Gene Nsd1	Nsd1, AI52850 nuclear receptor-binding SET-domain protein 1	NM_008739.3
28	Gene Rab24	Rab24, 65304C RAB24, member RAS oncogene family	NM_009000.3
28	Gene Preli1	Preli, 2610524 PRELI domain containing 1	NM_025596.5
28	Gene Mxd3	Mad3, Mxd3, Max dimerization protein 3	NM_016662.4
24	Gene Grk6	Gprk6, Grk6 G protein-coupled receptor kinase 6	NM_011938.3, NM
33	Gene Prr7	Prr7, XM_4842 proline rich 7 (synaptic)	NM_001030296.4
33	Gene Dbn1	Dbn1	NM_001177371.1
55	Gene Pdlim7	2410002J21Ri PDZ and LIM domain 7	NM_026131.3, NM
55	Gene Dok3	AI450713, Dok docking protein 3	NM_013739.2
19	Gene Tmed9	Tmed9, 24000 transmembrane emp24 protein transport domain c	NM_026211.3
19	Gene B4galt7	B4galt7, MGC2 xylosylprotein beta1,4-galactosyltransferase, polype	NM_146045.1
26	Gene Caml	Camlg, AI3857 calcium modulating ligand	NM_007596.2
26	Gene Ddx46	Ddx46, mKIAA DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	NM_145975.3
22	Gene B230219	D530037I19Ri RIKEN cDNA B230219D22 gene	NM_181278.2
29	Gene Txndc15	AI854086, 231 thioredoxin domain containing 15	NM_175150.3
28	Gene Pcbd2	Pcbd2, Dcoh2, pterin 4 alpha carbinolamine dehydratase/dimerizat	NM_028281.1
20	Gene Pitx1	Pitx1, Ptx1, P-Cpaired-like homeodomain transcription factor 1	NM_011097.2
26	Gene H2afy	macroH2A1, r H2A histone family, member Y	NM_012015.2, NM
47	Gene HnrnpaC	3010025E17Ri heterogeneous nuclear ribonucleoprotein A0	NM_029872.1
36	Gene Ubqln1	C77538, Dsk2, ubiquilin 1	NM_026842.4, NM
26	Gene Gkap1	4933400B15Ri G kinase anchoring protein 1	NM_019832.3
38	Gene 2210016	2210016F16Ri RIKEN cDNA 2210016F16 gene	NM_027335.1
38	Gene Hnrnpk	Hnrpk, MGC10 heterogeneous nuclear ribonucleoprotein K	NM_025279.2
38	Gene Mir7-1	mmu-mir-7-1, microRNA 7-1	NR_029825.1
34	Gene Rmi1	Rmi1, C79893, RMI1, RecQ mediated genome instability 1, homolog	NM_028904.3, NM
25	Gene A230056	A230056J06Ri RIKEN cDNA A230056J06 gene	NR_045633.1
25	Gene Naa35	A330027C19Ri N(alpha)-acetyltransferase 35, NatC auxiliary subuni	NM_030153.2
23	Gene Golm1	AW125446, M golgi membrane protein 1	NM_027307.4, NM
24	Gene Zcchc6	Zcchc6, 60304 zinc finger, CCHC domain containing 6	NM_153538.3
55	Gene Gas1	Gas1, Gas-1, A growth arrest specific 1	NM_008086.2
43	Gene Ptch1	Ptch, Ptch1, Pt patched homolog 1	NM_008957.2
44	Gene Zfp367	8030486J21Ri zinc finger protein 367	NM_175494.4
44	Gene Habp4	Habp4, 49334 hyaluronic acid binding protein 4	NM_019986.3
21	Gene Cdc14b	A530086E13Ri CDC14 cell division cycle 14B	NM_172587.3, NM
21	Gene 1810034	1810034E14Ri RIKEN cDNA 1810034E14 gene	NR_045798.1
22	Gene Aaed1	Aaed1, 111001AhpC/TSA antioxidant enzyme domain containing 1	NM_025370.2
33	Gene Ctsl	nkt, fs, MEP, C cathepsin L	NM_009984.3
18	Gene Hiatl1	5730414C17Ri hippocampus abundant transcript-like 1	NM_133680.3, NM
28	Gene Mterfd1	MTERF3, 2410 MTERF domain containing 1	NM_025547.3
28	Gene Ptdss1	mKIAA0024, A phosphatidylserine synthase 1	NM_008959.3
26	Gene Adcy2	mKIAA1060, N adenylate cyclase 2	NM_153534.2

40	Gene Papd7	MGC69673, TFAP associated domain containing 7	NM_198600.2, NM
40	Gene A530095	A530095I07Ri RIKEN cDNA A530095I07 gene	XR_035386.2
20	Gene Ube2ql1	Ube2ql1, 3110 ubiquitin-conjugating enzyme E2Q family-like 1	NM_001145162.1
25	Gene Med10	AA959813, Me mediator of RNA polymerase II transcription, subunit	NM_138596.2
19	Gene BC018507	C77245, mKIAA cDNA sequence BC018507	NM_144837.3
27	Gene Gm1026	Gm10263, ENS40S ribosomal protein S28 pseudogene	
27	Gene Ndufs6	BC059730, IP1 NADH dehydrogenase (ubiquinone) Fe-S protein 6	NM_010888.2, NR
27	Gene Mrpl36	AI646041, Mrpl36 mitochondrial ribosomal protein L36	NM_053163.1
21	Gene Lpcat1	LPCAT, BB1375 lysophosphatidylcholine acyltransferase 1	NM_145376.5
25	Gene Clptm1l	Clptm1l, C130 (CLPTM1-like)	NM_146047.2
32	Gene Slc12a7	Kcc4, D13Ert domain: solute carrier family 12, member 7	NM_011390.2
37	Gene Trip13	2410002G23Ri thyroid hormone receptor interactor 13	NM_027182.2
37	Gene Brd9	Brd9, AL02277 bromodomain containing 9	NM_001024508.2
20	Gene Tppp	2900041A09Ri tubulin polymerization promoting protein	NM_182839.2
30	Gene Sdha	SDHF, 492151: succinate dehydrogenase complex, subunit A, flavoprotein	NM_023281.1
30	Gene Ccdc127	AW050060, 54 coiled-coil domain containing 127	NM_024201.3, NM
30	Gene Lrrc14b	Lrrc14b, AI595 leucine rich repeat containing 14B	NM_001033042.3
25	Gene Erap1	Arts1, ERAAP, endoplasmic reticulum aminopeptidase 1	NM_030711.4
17	Gene Eil2	Eil2	NM_138953.2
26	Gene Rhobtb3	Rhobtb3, 1700 Rho-related BTB domain containing 3	NM_028493.2
27	Gene Ankrd32	2700017A04Ri ankyrin repeat domain 32	NM_134071.3
27	Gene 2210408	MGC107105, 2 RIKEN cDNA 2210408I21 gene	NM_001081353.1,
23	Gene Fam172i	Fam172a, AF01 family with sequence similarity 172, member A	NM_138312.1, NM
29	Gene Arrdc3	mKIAA1376, N arrestin domain containing 3	NM_001042591.1
24	Gene Polr3g	RPC32, AV275: polymerase (RNA) III (DNA directed) polypeptide G	NM_001081176.1
24	Gene Mblac2	2900024O10Ri metallo-beta-lactamase domain containing 2	NM_028372.1
29	Gene Ccnh	AI661354, Ccn cyclin H	NM_023243.5
19	Gene Rasa1	RasGAP, MGC7 RAS p21 protein activator 1	NM_145452.3
24	Gene Xrcc4	Xrcc4, AW545: X-ray repair complementing defective repair in Chinese hamster	NM_028012.4, XM
24	Gene Tmem16f	Tmem167a, 57 transmembrane protein 167	NM_025335.3
31	Gene Ssbp2	AU067692, Ssb single-stranded DNA binding protein 2	NM_024186.5, NM
23	Gene Zcchc9	1810019C21Ri zinc finger, CCHC domain containing 9	NM_145453.2
30	Gene Rasgrf2	Ras-GRF2, RasGAP RAS protein-specific guanine nucleotide-releasing factor	NM_009027.3
21	Gene Ankrd34	DP58, Ankrd34 ankyrin repeat domain 34B	NM_175455.4
25	Gene Zfyve16	mKIAA0305, B zinc finger, FYVE domain containing 16	NM_173392.4
29	Gene Serinc5	TPO1, A13003: serine incorporator 5	NM_172588.2
22	Gene Mtx3	AA409304, AU metaxin 3	NM_001162945.1
39	Gene Homer1	PSD-Zip45, SYM homer homolog 1 (Drosophila)	NM_152134.2, NM
36	Gene Jmy	AA591059, Jmy junction-mediating and regulatory protein	NM_021310.3
26	Gene Arsb	Asr-1, As-1t, A: arylsulfatase B	NM_009712.3
20	Gene Scamp1	4930505M11R secretory carrier membrane protein 1	NM_029153.1
22	Gene Gm9776	Gm9776, ENSM predicted gene 9776	NR_045619.1
22	Gene Ap3b1	pe, pearl, beta adaptor-related protein complex 3, beta 1 subunit	NM_009680.3
24	Gene Tbca	Tbca13, Tbca	NM_009321.2
23	Gene Wdr41	MSTP048, B83 WD repeat domain 41	NM_172590.3
22	Gene Zbed3	AU018975, 26: zinc finger, BED domain containing 3	NM_028106.2
22	Gene Mir1940	mmu-mir-1940 (microRNA 1940)	NR_035461.1

22	Gene Snora47	MBI-115, Snor. small nucleolar RNA, H/ACA box 47	NR_034043.1
22	Gene Aggf1	2310029P06Ri angiogenic factor with G patch and FHA domains 1	NM_025630.2
24	Gene F2r	MGC28086, Th coagulation factor II (thrombin) receptor	NM_010169.3
24	Gene Iqgap2	AI788777, 493 IQ motif containing GTPase activating protein 2	NM_027711.1
33	Gene Hmgcr	MGC103269, H 3-hydroxy-3-methylglutaryl-Coenzyme A reductase	NM_008255.2
20	Gene Gcnt4	Gm279, Gm73 glucosaminyl (N-acetyl) transferase 4, core 2 (beta-1	NM_001166065.1
43	Gene Enc1	Nrpb, Enc1, Pl(ectodermal-neural cortex 1	NM_007930.4
29	Gene Utp15	AW544865, Ut UTP15, U3 small nucleolar ribonucleoprotein, homo	NM_178918.3
29	Gene Ankra2	AU023827, AI4 ankyrin repeat, family A (RFXANK-like), 2	NM_023472.1
23	Gene Btf3	1700054E11Ri basic transcription factor 3	NM_145455.3, NM
23	Gene Gm9828	Gm9828, ENSM predicted gene 9828	XR_106822.1, XR_
32	Gene Tnp1	MIP, Kpnb2, M transportin 1	NM_001048267.1
22	Gene Ptd2	1190005P08Ri pentatricopeptide repeat domain 2	NM_026873.2
22	Gene Mrps27	Mrps27, 2610(mitochondrial ribosomal protein S27	NM_173757.3
31	Gene Map1b	MGC169657, M microtubule-associated protein 1B	NM_008634.2
21	Gene Bdp1	KIAA1241, AI6I B double prime 1, subunit of RNA polymerase III tra	NM_001081061.1
21	Gene Serf1	m4F5, Msmac: small EDRK-rich factor 1	NM_011353.2
27	Gene Smn1	Smn, Gemin1, survival motor neuron 1	NM_011420.2, NM
17	Gene Ocln	AI503564, Oclr occludin	NM_008756.2
20	Gene Mrps36	Mrps36, 1110(mitochondrial ribosomal protein S36	NM_001190264.1
44	Gene Cenph	AU044255, EN centromere protein H	NM_021886.1
44	Gene Ccnb1	Ccnb1-rs13, Cy cyclin B1	NM_172301.3
29	Gene Slc30a5	Slc30a5, ZnT-5 solute carrier family 30 (zinc transporter), member 5	NM_022885.2
37	Gene Pik3r1	PI3K, p85alpha phosphatidylinositol 3-kinase, regulatory subunit, pr	NM_001024955.1
22	Gene Mast4	mKIAA0303, M microtubule associated serine/threonine kinase fam	NM_175171.3
26	Gene Nln	C79345, 49304 neurolysin (metallopeptidase M3 family)	NM_029447.2
26	Gene Sgtb	MGC27660, C(small glutamine-rich tetratricopeptide repeat (TPR)-	NM_144838.1
23	Gene Ipo11	E330021B14Ri importin 11	NM_029665.3
23	Gene Dimt1	AV111347, 15(DIM1 dimethyladenosine transferase 1-like (S. cerev	NM_025447.4
24	Gene Kif2a	Kns2, Kif2a, Kif kinesin family member 2A	NM_008442.2, NM
24	Gene 3830408	3830408C21Ri RIKEN cDNA 3830408C21 gene	NR_015471.1
28	Gene Zswim6	Zswim6, mKIA zinc finger SWIM-type containing 6	NM_145456.2
27	Gene 3021401	3021401N23Ri RIKEN cDNA 3021401N23 gene	XM_003945523.1,
27	Gene Smim15	2810008M24R small integral membrane protein 15	NM_001048250.2
30	Gene Nduf2	C86051, 1810(NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_001127346.1
30	Gene Ercc8	2410022P04Ri excision repairross-complementing rodent repair def	NM_028042.3
33	Gene Depdc1k	AW260467, 98 DEP domain containing 1B	NM_178683.4
24	Gene Pde4d	9630011N22Ri phosphodiesterase 4D, cAMP specific	NM_011056.3
24	Gene Mir1904	Mir1904, Mirn microRNA 1904	NR_035442.1
31	Gene Plk2	Snk, Plk2	NM_152804.2
28	Gene Gbbp1	mGPBP, 1700(GC-rich promoter binding protein 1	NM_028487.4, NM
25	Gene Mier3	AU015422, D1 mesoderm induction early response 1, family memb	NM_172593.3
27	Gene Map3k1	Mekk, MEKK1, mitogen-activated protein kinase kinase kinase 1	NM_011945.2
27	Gene Gm1532	OTTMUSG000(predicted gene 15327	XR_105588.1
28	Gene Il6st	Il6st, CD130, g interleukin 6 signal transducer	NM_010560.3
39	Gene Ppap2a	mPAP, LPP1, L(phosphatidic acid phosphatase type 2A	NM_008903.1, NM
22	Gene Skiv2l2	Skiv2l2, 26105 superkiller viralicidic activity 2-like 2 (S. cerevisiae)	NM_028151.2

22	Gene Dhx29	3732415M03, DEAH (Asp-Glu-Ala-His) box polypeptide 29	NM_172594.2
29	Gene Snx18	Snag1, Snx18 sorting nexin 18	NM_130796.4
18	Gene Fst	AL033346, Fst follistatin	NM_008046.2
23	Gene Itga1	E130012M19R integrin alpha 1	NM_001033228.3
23	Gene Pelo	Pelo, AA40989 pelota homolog (Drosophila)	NM_134058.3
23	Gene Gm1073	Gm10734, ENS predicted gene 10734	XR_105590.1
19	Gene Parp8	2810430O08Ri poly (ADP-ribose) polymerase family, member 8	NM_001081009.1
30	Gene Mrps30	PAP, 2610020/ mitochondrial ribosomal protein S30	NM_021556.3
16	Gene Paip1	Paip1 polyadenylate binding protein-interacting protein 1	NM_001079849.1
39	Gene LOC101055764	transmembrane protein C5orf28 homolog	XM_003945519.1,
34	Gene 1700074	1700074H08Ri RIKEN cDNA 1700074H08 gene	NR_045296.1
34	Gene Hmgcs1	B130032C06Ri 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1	NM_145942.4
23	Gene Zfp131	Znf131, Zfp131 zinc finger protein 131	NM_028245.3
37	Gene Ptprg	AW046354, Pt protein tyrosine phosphatase, receptor type, G	NM_008981.3
21	Gene Atxn7	AI627028, A43 ataxin 7	NM_139227.4
20	Gene Psmc6	Psmc6, 24000/ proteasome (prosome, macropain) 26S subunit, non	NM_025550.2
23	Gene Slc4a7	E430014N10Ri solute carrier family 4, sodium bicarbonate cotransp	NM_001033270.2
31	Gene Oxsm	Oxsm, 493342 3-oxoacyl-ACP synthase, mitochondrial	NM_027695.3
31	Gene Ngly1	Png1, PNGase, N-glycanase 1	NM_021504.3
27	Gene Top2b	D230016L12Ri topoisomerase (DNA) II beta	NM_009409.2
22	Gene Thrb	MGC141270, T thyroid hormone receptor beta	NM_009380.3, NM
42	Gene Nr1d2	Rev-erb, RVR, I nuclear receptor subfamily 1, group D, member 2	NM_011584.4
19	Gene 2700060	2700060E02Ri RIKEN cDNA 2700060E02 gene	NM_026528.3
22	Gene Ecd	5730461K03Ri ecdysoneless homolog (Drosophila)	NM_027475.3
27	Gene Fam149l	mKIAA0974, F family with sequence similarity 149, member B	NM_001177633.1
27	Gene Dnajc9	Dnajc9, 53304 DnaJ (Hsp40) homolog, subfamily C, member 9	NM_134081.5
27	Gene Mrps16	1500011E11Ri mitochondrial ribosomal protein S16	NM_025440.2
27	Gene Ttc18	5330402L21Ri tetratricopeptide repeat domain 18	NM_029698.1, NM
32	Gene Ppp3cb	CnAbeta, Ppp3 protein phosphatase 3, catalytic subunit, beta isoform	NM_008914.2
32	Gene 1810062	1810062O18Ri RIKEN cDNA 1810062O18 gene	NR_033571.1
32	Gene Usp54	4930429G18Ri ubiquitin specific peptidase 54	NM_030180.2
31	Gene 2810402	2810402E24Ri RIKEN cDNA 2810402E24 gene	XR_106841.2, XR_
31	Gene Myoz1	2310001N11Ri myozenin 1	NM_021508.3
25	Gene Synpo2l	1110054M18R synaptopodin 2-like	NM_175132.3
36	Gene Sec24c	2610204K03Ri Sec24 related gene family, member C (S. cerevisiae)	NM_172596.2, NM
41	Gene Fut11	3110009G03Ri fucosyltransferase 11	NM_028428.2
41	Gene 6230400	6230400D17Ri RIKEN cDNA 6230400D17 gene	NR_029446.1
41	Gene Chchd1	MGC106657, C coiled-coil-helix-coiled-coil-helix domain containing	NM_025366.3
41	Gene Zswim8	2310021P13Ri zinc finger SWIM-type containing 8	NM_001252081.1
40	Gene Ndst2	Mndns, NDST- N-deacetylase/N-sulfotransferase (heparan glucosar	NM_010811.2
40	Gene Camk2g	5930429P18Ri calcium/calmodulin-dependent protein kinase II gan	NM_001039139.1
29	Gene Vcl	AI462105, AA5 vinculin	NM_009502.4
27	Gene Adk	5033405D03Ri adenosine kinase	NM_001243041.1
32	Gene Kat6b	Morf, qkf, B13 K(lysine) acetyltransferase 6B	NM_017479.3, NM
26	Gene Dusp13	MDSP, Gm120 dual specificity phosphatase 13	NM_013849.3, NM
26	Gene Samd8	SMSr, Samd8, sterile alpha motif domain containing 8	NM_026283.2
29	Gene Vdac2	Vdac2, Vdac6 voltage-dependent anion channel 2	NM_011695.2

29	Gene Comtd1	MT773, Comtc catechol-O-methyltransferase domain containing 1	NM_026965.2
29	Gene A430057	A430057M04R RIKEN cDNA A430057M04 gene	XR_106835.1, XR_
38	Gene Zfp503	Zfp503, Znf503 zinc finger protein 503	NM_145459.3
25	Gene Kcnma1	MaxiK, Slo, Kcr potassium large conductance calcium-activated chan	NM_001253358.1
25	Gene Dlg5	4933429D20Ri discs, large homolog 5 (Drosophila)	NM_001163513.1
36	Gene Gm1774	Gm1774 predicted gene, 17747	XR_106490.2, XR_
36	Gene Zmiz1	Rai17, Gm103 zinc finger, MIZ-type containing 1	NM_183208.3
16	Gene Israa	immune system released activating agent	XR_168525.1, XR_
33	Gene Ppif	PPIase, CyP-D, peptidylprolyl isomerase F (cyclophilin F)	NM_134084.1
33	Gene Ppifos	Ppifos, 493052 peptidylprolyl isomerase F, opposite strand transcrip	NR_028021.1
33	Gene Zcchc24	2310047A01Ri zinc finger, CCHC domain containing 24	NM_001101433.1
25	Gene Anxa11	Anx11, Anxa11 annexin A11	NM_013469.2
39	Gene Slmap	KIAA1601, D3 sarcolemma associated protein	NM_032008.3
31	Gene Dennd6	MGC38041, Fa DENN/MADD domain containing 6A	NM_145969.4, NM
33	Gene Pde12	2'-PDE, E4300 phosphodiesterase 12	NM_178668.3
35	Gene Il17rd	AI428510, Il17 interleukin 17 receptor D	NM_134437.3
32	Gene D14Abb	4933409E02Ri DNA segment, Chr 14, Abbott 1 expressed	NM_028945.1, NM
21	Gene Wnt5a	Wnt5a, 80304 wingless-related MMTV integration site 5A	NM_001256224.1,
18	Gene Selk	1110001C03Ri selenoprotein K	NM_019979.2
18	Gene Actr8	ARP8, Actr8, 5' ARP8 actin-related protein 8	NM_027493.3
20	Gene Prkcd	Prkcd, PKCdelta protein kinase C, delta	NM_011103.3
22	Gene Rft1	Rft1, D930025 RFT1 homolog (S. cerevisiae)	NM_177815.3
30	Gene Sfmbt1	9330180L21Ri Scm-like with four mbt domains 1	NM_019460.2, NM
23	Gene Tmem11	Tmem110, AW transmembrane protein 110	NM_028839.4
40	Gene Spcs1	Spcs1, 181000 signal peptidase complex subunit 1 homolog (S. cere	NM_026911.3
40	Gene Glt8d1	5430414N14Ri glycosyltransferase 8 domain containing 1	NM_029626.2, NM
25	Gene Gnl3	Gnl3, C77032, guanine nucleotide binding protein-like 3 (nucleolar	NM_153547.5
25	Gene Snord69	MBII-210, Sno small nucleolar RNA, C/D box 69	NR_028531.1
25	Gene Snord19	Snord19, MBII small nucleolar RNA, C/D box 19	NR_028523.1
30	Gene Pbrm1	BAF180, Pb1, polybromo 1	NM_001081251.1
30	Gene Smim4	Smim4, Snhg8, small itegral membrane protein 4	NR_024069.2
30	Gene Nt5dc2	2510015F01Ri 5'-nucleotidase domain containing 2	NM_027289.1
30	Gene Stab1	Stab1, KIAA02 stabilin 1	NM_138672.2
27	Gene Phf7	1700010P14Ri PHD finger protein 7	NM_027949.1
27	Gene Bap1	AA989761, AM Brca1 associated protein 1	NM_027088.2
27	Gene Dnahc1	E030034C22Ri dynein, axonemal, heavy chain 1	NM_001033668.1
42	Gene Capn7	Capn7, PalBH, calpain 7	NM_009796.2
34	Gene Sh3bp5	AI606498, Sab SH3-domain binding protein 5 (BTK-associated)	NM_011894.2
22	Gene Mettl6	Mettl6, AI467 methyltransferase like 6	NM_025907.3
22	Gene Eaf1	4933403C17Ri ELL associated factor 1	NM_028932.4
31	Gene Ankrd28	AI604979, KIA ankyrin repeat domain 28	NM_001024604.2
32	Gene Msmb	PIP, Msmb, PSI beta-microseminoprotein	NM_020597.3
32	Gene Ncoa4	Ncoa4, 44324 nuclear receptor coactivator 4	NM_001033988.1
37	Gene Timm23	Timm23, MGC translocase of inner mitochondrial membrane 23	NM_016897.3
37	Gene Parg	AI413217, Par poly (ADP-ribose) glycohydrolase	NM_011960.2
27	Gene Vstm4	E130203B14Ri V-set and transmembrane domain containing 4	NM_178791.4
25	Gene Arhgap2	B230341L19Ri Rho GTPase activating protein 22	NM_153800.4

24	Gene Mapk8	SAPK1, JNK, M mitogen-activated protein kinase 8	NM_016700.4
28	Gene Fam35a	Fam35a, 3110 family with sequence similarity 35, member A	NM_029389.2
28	Gene Glud1	Glud, Gdh-X, A glutamate dehydrogenase 1	NM_008133.4
19	Gene Fam25c	Fam25, 22000 family with sequence similarity 25, member C	NM_183278.2
19	Gene Sncg	C79089, Sncg, synuclein, gamma	NM_011430.3
22	Gene Bmpr1a	1110037122Rik bone morphogenetic protein receptor, type 1A	NM_009758.4
22	Gene 9230112	9230112D13Ri RIKEN cDNA 9230112D13 gene	NM_030062.1
18	Gene Ldb3	MGC118603, LIM domain binding 3	NM_001039071.2
26	Gene Wapal	KIAA0261, 241 wings apart-like homolog (Drosophila)	NM_001004436.3
17	Gene Nrg3	ska, Nrg3 neuregulin 3	NM_001190187.1
27	Gene Txndc16	C77647, 57304 thioredoxin domain containing 16	NM_172597.2
27	Gene Gpr137c	Gpr137c, 6330 G protein-coupled receptor 137C	NM_027518.2
20	Gene Ero1l	Ero1l	NM_015774.3
19	Gene Psmc6	Psmc6, A14510 proteasome (prosome, macropain) 26S subunit, ATP	NM_025959.3
25	Gene Ddhd1	9630061G18Ri DDHD domain containing 1	NM_001039106.2
25	Gene Mir5131	Mir5131, mu-r microRNA 5131	NR_039593.1
25	Gene A530076	A530076I17Ri RIKEN cDNA A530076I17 gene	XR_106850.1, XR_
24	Gene Cnih	Cnih, 0610007.cornichon homolog (Drosophila)	NM_009919.2
27	Gene Gmfb	AI851627, 311 glia maturation factor, beta	NM_022023.2
27	Gene Gm1010	Gm10101, ENS predicted gene 10101	XR_141242.1
27	Gene Cgrrf1	1110038G02Ri cell growth regulator with ring finger domain 1	NM_026832.3
37	Gene Samd4	Samd4a, Smau sterile alpha motif domain containing 4	NM_001037221.2
18	Gene Gch1	Gch1, GTP-CH, GTP cyclohydrolase 1	NM_008102.3
31	Gene Atg14	KIAA0831, Atg autophagy related 14	NM_172599.4
31	Gene Gm6616	Gm6616, EG62 small nuclear ribonucleoprotein polypeptide F pseudogene	
25	Gene Peli2	BB129927, Pel pellino 2	NM_033602.2
28	Gene Tmem26	Tmem260, 593 transmembrane protein 260	NM_172600.3
35	Gene Exoc5	Gm76, PRO19: exocyst complex component 5	NM_207214.3
35	Gene Ap5m1	4932432K03Ri adaptor-related protein complex 5, mu 1 subunit	NM_144535.4
31	Gene Naa30	AI447922, AW N(alpha)-acetyltransferase 30, NatC catalytic subunit	NM_001081430.1
32	Gene Osgp	Osgp, 1500010-sialoglycoprotein endopeptidase	NM_133676.2
32	Gene Apex1	Apex, Apex1, A purinic/aprimidinic endonuclease 1	NM_009687.2
32	Gene Tmem55	Tmem55b, M3 transmembrane protein 55b	NM_001033271.4
22	Gene Arhgef4	Arhgef40, Solo Rho guanine nucleotide exchange factor (GEF) 40	NM_198249.4, NM
22	Gene Gm1661	Gm16617 predicted gene, 16617	NR_045728.1
26	Gene Supt16	Spt16, Supt16l suppressor of Ty 16	NM_033618.3
26	Gene Chd8	mKIAA1564, D chromodomain helicase DNA binding protein 8	NM_201637.2
25	Gene Tox4	A630040M18, TOX high mobility group box family member 4	NM_023434.3
25	Gene Mettl3	Mettl3, 23100: methyltransferase like 3	NM_019721.2
25	Gene Sall2	AI225809, p15 sal-like 2 (Drosophila)	NM_001244916.1
36	Gene Mrpl52	Mrpl52, 11100 mitochondrial ribosomal protein L52	NM_026851.2
36	Gene Mmp14	MT1-MMP, M matrix metalloproteinase 14 (membrane-inserted)	NM_008608.3
29	Gene Lrp10	Lrp9, Lrp10 low-density lipoprotein receptor-related protein 10	NM_022993.3
39	Gene Haus4	Haus4, AU016: HAUS augmin-like complex, subunit 4	NM_145462.2
45	Gene Ajuba	Ajuba, Jub ajuba LIM protein	NM_010590.5
45	Gene 4931414	4931414P19Ri RIKEN cDNA 4931414P19 gene	NM_028890.2
35	Gene Acin1	2610036I19Ri apoptotic chromatin condensation inducer 1	NM_019567.3, NM

35	Gene 1700123MNCb-2990, 1 RIKEN cDNA 1700123O20 gene	NM_021437.2
35	Gene LOC101056084 uncharacterized LOC101056084	XM_003945547.1
34	Gene Ppp1r3e AW049239, Pp protein phosphatase 1, regulatory (inhibitor) subunit	NM_001167908.1
34	Gene Bcl2l2 c98, AW04883 BCL2-like 2	NM_007537.1
16	Gene Pabpn1 Pabpn1, Pabp poly(A) binding protein, nuclear 1	NM_019402.2
35	Gene Slc22a17 1700094C23Ri solute carrier family 22 (organic cation transporter),	NM_021551.4
39	Gene Efs Efs embryonal Fyn-associated substrate	NM_010112.4
39	Gene Il25 IL-17e, IL-17E, interleukin 25	NM_080729.3
39	Gene Cmtm5 2900052H21Ri CKLF-like MARVEL transmembrane domain containing	NM_026066.2, NM
17	Gene Zfhx2 ZFH-5, Zfhx2 zinc finger homeobox 2	NM_001039198.1
17	Gene Zfhx2as Zfhx2as zinc finger homeobox 2, antisense	NR_004444.2
18	Gene Thtpa MGC38198, Th thiamine triphosphatase	NM_153083.5
28	Gene Ap1g2 G2ad, Ap1g2, I adaptor protein complex AP-1, gamma 2 subunit	NM_007455.4
28	Gene Jph4 Jph4, JP-4, JPH junctophilin 4	NM_177049.5
23	Gene Dhrr4 NDRD, Dhrr4, I dehydrogenase/reductase (SDR family) member 4	NM_001037938.2
23	Gene Lrrc16b mFLJ00240, Lr leucine rich repeat containing 16B	NM_001024645.1
25	Gene Psme1 Psme1, MGC1: proteasome (prosome, macropain) 28 subunit, alpha	NM_011189.1
25	Gene Emc9 Fam158a, Cgi112, 1500005A01Rik, Emc9	NM_033146.1
25	Gene Psme2 Psme2, A1788 proteasome (prosome, macropain) 28 subunit, beta	NM_011190.3, NM
25	Gene Rnf31 Rnf31, AL0332 ring finger protein 31	NM_194346.2
27	Gene Rec8 mre1, Rec8, A REC8 homolog (yeast)	NM_020002.3
40	Gene Ipo4 RanBP4, Imp4: importin 4	NM_024267.6
40	Gene Tm9sf1 MP70, A18934: transmembrane 9 superfamily member 1	NM_028780.3
40	Gene Tssk4 4933424F08Ri testis-specific serine kinase 4	NM_001253888.1
21	Gene Nedd8 Nedd8, Rub1 neural precursor cell expressed, developmentally downregulated	NM_008683.3
21	Gene Gmpr2 1810008P16Ri guanosine monophosphate reductase 2	NM_177992.2
21	Gene Tinf2 Tinf2, Tin2, A VTerf1 (TRF1)-interacting nuclear factor 2	NM_145705.3
27	Gene Tgm1 Tgm1, 231000: transglutaminase 1, K polypeptide	NM_019984.3, NM
27	Gene Rabggta Rabggta, gm Rab geranylgeranyl transferase, a subunit	NM_019519.2
27	Gene Dhrr1 D14Ert484e, dehydrogenase/reductase (SDR family) member 1	NM_026819.3
27	Gene Nop9 2610027L16Ri NOP9 nucleolar protein	NM_026403.3
27	Gene Cideb Cideb, CIDE-B, cell death-inducing DNA fragmentation factor, alpha	NM_009894.3
19	Gene Nynrin KIAA1305, C80 NYN domain and retroviral integrase containing	NM_001040072.1
23	Gene Cenpj Gm81, MGC10 centromere protein J	NM_001014996.2
23	Gene Parp4 PH5P, Adprt1, poly (ADP-ribose) polymerase family, member 4	NM_001145978.2
29	Gene Pspc1 A1327109, A14: paraspeckle protein 1	NM_025682.3
22	Gene Zmym2 MGC51607, 5 zinc finger, MYM-type 2	NM_029498.3
28	Gene Gjb2 A1325222, Cx2 gap junction protein, beta 2	NM_008125.3
27	Gene Ift88 flexo, orpk, fxc intraflagellar transport 88	NM_009376.2
21	Gene Lats2 AW228608, 49 large tumor suppressor 2	NM_015771.2, NM
35	Gene Ska3 F630043A04Ri spindle and kinetochore associated complex subunit	NM_198605.3
35	Gene Mrp63 AV005697, Mr mitochondrial ribosomal protein 63	NM_026401.2
35	Gene Zdhhc20 A1448102, HK1 zinc finger, DHHC domain containing 20	NM_029492.4
22	Gene Rcbtb1 Rcbtb1, 54304 regulator of chromosome condensation (RCC1) and	NM_027764.2
28	Gene Cdad1 2310010M10R cytidine and dCMP deaminase domain containing 1	NM_001168535.1
26	Gene Shisa2 MAd2, 943005 shisa homolog 2 (Xenopus laevis)	NM_145463.5
34	Gene Nupl1 1700017F11Ri nucleoporin like 1	NM_170591.1

31	Gene Spata13	mFLJ00298, Sp spermatogenesis associated 13	NM_001033272.1
27	Gene Sacs	E130115J16Rik saccin	NM_172809.3
16	Gene Kpna3	Kpna3, IPOA4 karyopherin (importin) alpha 3	NM_008466.5
21	Gene Trim13	3110001L12Rik tripartite motif-containing 13	NM_023233.3, NM
31	Gene Dleu2	AI788824, Gm: deleted in lymphocytic leukemia, 2	NR_028264.1
21	Gene Kcnrg	Gm745, E0300 potassium channel regulator	NM_206974.1, NM
22	Gene Dleu7	MGC47306, BC deleted in lymphocytic leukemia, 7	NM_173419.2
26	Gene Rnaseh2	1110019N06Ri ribonuclease H2, subunit B	NM_026001.2
28	Gene Fam124i	EG629059, Far family with sequence similarity 124, member A	NM_001243857.1
23	Gene Ints6	Ints6, Notch2l, integrator complex subunit 6	NM_008715.2
27	Gene 493144C	4931440J10Rik RIKEN cDNA 4931440J10 gene	NR_045503.1
27	Gene Wdfy2	5830485M08, WD repeat and FYVE domain containing 2	NM_175546.4
54	Gene Gata4	Gata4, Gata-4 GATA binding protein 4	NM_008092.3
27	Gene Mtmr9	mMTMH3, MT myotubularin related protein 9	NM_177594.1
19	Gene Xkr6	BC024502, XR(X Kell blood group precursor related family member	NM_173393.2
30	Gene Pinx1	2210403I16Rik PIN2/TERF1 interacting, telomerase inhibitor 1	NM_028228.3
33	Gene Extl3	2900009G18Ri exostoses (multiple)-like 3	NM_018788.3
34	Gene Zfp395	BC053701, Gm zinc finger protein 395	NM_199029.2
28	Gene Esco2	Esco2, 241000 establishment of cohesion 1 homolog 2 (S. cerevisia	NM_028039.2
28	Gene Ccdc25	NSrp70, Ccdc2 coiled-coil domain containing 25	NM_145944.4
44	Gene 1700001	1700001G11Ri RIKEN cDNA 1700001G11 gene	NR_038077.1
44	Gene Trim35	AW046487, 07 tripartite motif-containing 35	NM_029979.3
27	Gene Bnip3l	C86132, Bnip3 BCL2/adenovirus E1B interacting protein 3-like	NM_009761.3
41	Gene Ppp2r2a	mKIAA1541, Pp protein phosphatase 2 (formerly 2A), regulatory sub	NM_028032.3, NM
20	Gene Ebf2	D14Ggc1e, Mn early B cell factor 2	NM_010095.5
25	Gene Dock5	rlc, E130320D1 dedicator of cytokinesis 5	NM_177780.3
22	Gene 1700092	1700092C10Ri RIKEN cDNA 1700092C10 gene	NR_045931.1
22	Gene Nkx2-6	Tix, Nkx2-6, ANK2 transcription factor related, locus 6 (Drosophila	NM_010920.2
27	Gene R3hcc1	R3hcc1, AA407 R3H domain and coiled-coil containing 1	NM_001146012.1
31	Gene Chmp7	AI450338, 4930596K11Rik, 6330407G04Rik, Chmp7, AW550775, M	NM_134078.4
20	Gene Egr3	Egr3, Pilot, MGe early growth response 3	NM_018781.2
24	Gene 2610301	MGC7730, 261 RIKEN cDNA 2610301G19 gene	NM_146055.3
24	Gene 9930012	9930012K11Ri RIKEN cDNA 9930012K11 gene	NM_001004155.2
24	Gene Pdlim2	4732462F18Ri PDZ and LIM domain 2	NM_001253736.1
19	Gene Ppp3cc	Calnc, Ppp3cc protein phosphatase 3, catalytic subunit, gamma iso	NM_008915.2
31	Gene Polr3d	TSBN51, 28104 polymerase (RNA) III (DNA directed) polypeptide D	NM_025945.3, NM
31	Gene Mir320	Mir320, mmu- microRNA 320	NR_029802.1
28	Gene Lgi3	AW049851, Lg leucine-rich repeat LGI family, member 3	NM_145219.4
28	Gene Reep4	2700029E10Ri receptor accessory protein 4	NM_180588.2
28	Gene Hr	rhino, ALUNC, hairless	NM_021877.2
22	Gene Fam160l	G430067P06Ri family with sequence similarity 160, member B2	NM_194345.1
22	Gene Epb4.9	Epb49, AI3254 erythrocyte protein band 4.9	NM_001252662.1,
15	Gene Xpo7	mKIAA0745, B exportin 7	NM_023045.2
15	Gene Dok2	DokR, Dok2, Fr docking protein 2	NM_010071.2
19	Gene Fndc3a	Fndc3, F73001 fibronectin type III domain containing 3A	NM_207636.2
20	Gene Rcbtb2	RC/BTB2, AW2 regulator of chromosome condensation (RCC1) and	NM_134083.4, NM
21	Gene Rb1	Rb, Rb1, pRb, Iretinoblastoma 1	NM_009029.2

32	Gene Itm2b	Itm2b, Bri2, D1 integral membrane protein 2B	NM_008410.2
32	Gene Gm2029	Gm20290 predicted gene, 20290	XR_141220.1, XR_
23	Gene Esd	Es10, sid478, E esterase D/formylglutathione hydrolase	NM_016903.4
27	Gene Lrch1	AI552548, 483 leucine-rich repeats and calponin homology (CH) do	NM_001033439.3,
22	Gene Cpb2	MGC107573, A carboxypeptidase B2 (plasma)	NM_019775.3
22	Gene Zc3h13	C87618, 49305 zinc finger CCCH type containing 13	NM_026083.2
32	Gene Cog3	E430004N23, (component of oligomeric golgi complex 3	NM_177381.3
32	Gene Slc25a30	Slc25a30, AV2: solute carrier family 25, member 30	NM_026232.3
26	Gene Gm4285	Gm4285 predicted gene 4285	NR_045294.1
26	Gene Tpt1	TCTP, Tpt1, Trt tumor protein, translationally-controlled 1	NM_009429.3
26	Gene Snora31	MBI-161, Snor. small nucleolar RNA, H/ACA box 31	NR_028481.1
20	Gene Gtf2f2	1110031C13Ri general transcription factor IIF, polypeptide 2	NM_026816.3
28	Gene 1200011	1200011118Rik, Kiaa1704	NM_026177.3
28	Gene Nufip1	Nufip, Nufip1 nuclear fragile X mental retardation protein interact	NM_013745.5
27	Gene Tsc22d1	AW105905, A TSC22 domain family, member 1	NM_001177751.1
27	Gene 4930444	4930444M15R RIKEN cDNA 4930444M15 gene	NR_045660.1
22	Gene Serp2	Serp2, MGC11 stress-associated endoplasmic reticulum protein fan	NM_001160326.1,
23	Gene Lacc1	9030625A04Ri laccase (multicopper oxidoreductase) domain conta	NM_172488.2
23	Gene Ccdc122	Ccdc122, MGC coiled-coil domain containing 122	NM_175369.3
25	Gene Enox1	D230005D02R ecto-NOX disulfide-thiol exchanger 1	NM_001253759.1,
19	Gene Dgkh	D130015C16, Idiacylglycerol kinase, eta	NM_001081336.1,
29	Gene Rgcc	1190002H23Ri regulator of cell cycle	NM_025427.2
33	Gene Naa16	Narg1l, Naa16, N(alpha)-acetyltransferase 16, NatA auxiliary subuni	NM_025832.2
33	Gene Mtrf1	MtRF-1, A830C mitochondrial translational release factor 1	NM_145960.4
20	Gene Zbtbd6	EG432879, Zbt kelch repeat and BTB (POZ) domain containing 6	NM_001034882.3
43	Gene Wbp4	AW545037, W WW domain binding protein 4	NM_018765.3
43	Gene Elf1	p70, Sts1, mElE74-like factor 1	NM_007920.3
34	Gene Pcdh8	Papc, Pcdh8, 1 protocadherin 8	NM_021543.4, NM
33	Gene Tdrd3	6720468N18, Tudor domain containing 3	NM_172605.3, NM
39	Gene Mzt1	Mzt1, 2410125 mitotic spindle organizing protein 1	NM_175245.4
39	Gene Bora	Bora, 6720463 bora, aurora kinase A activator	NM_175265.4
28	Gene Dis3	2810028N01Ri DIS3 mitotic control homolog (S. cerevisiae)	NM_028315.2
28	Gene Pibf1	4933439E17Ri progesterone immunomodulatory binding factor 1	NM_029320.2, NM
24	Gene Klf5	Bteb2, CKLF, Ik Kruppel-like factor 5	NM_009769.4
30	Gene Tbc1d4	AV295684, A9: TBC1 domain family, member 4	NM_001081278.2
30	Gene Uchl3	Uchl3 ubiquitin carboxyl-terminal esterase L3 (ubiquitin th	NM_016723.2
30	Gene Kctd12	Kctd12, AW53: potassium channel tetramerisation domain containi	NM_177715.4
30	Gene Mir5130	mmu-mir-5130 microRNA 5130	NR_039592.1
30	Gene 4933432	4933432I03Rik RIKEN cDNA 4933432I03 gene	NR_045657.1
29	Gene Cln5	A730075N08R ceroid-lipofuscinosis, neuronal 5	NM_001033242.1
29	Gene Fbxl3	FBK, AW21296 F-box and leucine-rich repeat protein 3	NM_015822.2
30	Gene Mycbp2	AU023734, C1: MYC binding protein 2	NM_207215.2
23	Gene Rbm26	Se70-2, C8622 RNA binding motif protein 26	NM_134077.4
21	Gene Spry2	sprouty2, Spry sprouty homolog 2 (Drosophila)	NM_011897.3
17	Gene Trim52	4921513B05Ri tripartite motif-containing 52	NM_198601.3
21	Gene Gpc6	6720429C22Ri glypican 6	NM_011821.2, NM
21	Gene Gm1984	Gm19845 predicted gene, 19845	XR_141230.1

31	Gene Tgds	AI648925, 261 TDP-glucose 4,6-dehydratase	NM_029578.3
31	Gene Gpr180	ltr, E130016I2: G protein-coupled receptor 180	NM_021434.5
23	Gene Abcc4	Abcc4, D63004: ATP-binding cassette, sub-family C (CFTR/MRP), member 4	NM_001033336.3,
39	Gene Dnajc3	Prkri, AA40898: DnaJ (Hsp40) homolog, subfamily C, member 3	NM_008929.3
33	Gene Ugg2	1810064L21Ril UDP-glucose glycoprotein glucosyltransferase 2	NM_001081252.2
27	Gene Hs6st3	6OST3, MGC14: heparan sulfate 6-O-sulfotransferase 3	NM_015820.3
23	Gene Rap2a	Rap2a, 583046: RAS related protein 2a	NM_029519.3
30	Gene Farp1	BC030329, Cd: FERM, RhoGEF (Arhgef) and pleckstrin domain protein 1	NM_134082.3
25	Gene Stk24	C76483, MGC6330, 1810013H02Rik, Stk24, STE20, MST-3, Mst3	NM_145465.2
21	Gene Ubac2	AW554959, 11 ubiquitin associated domain containing 2	NM_026861.2
26	Gene A330035	A330035P11Ri RIKEN cDNA A330035P11 gene	NR_015586.2
26	Gene Tm9sf2	P76, D14Ertd6 transmembrane 9 superfamily member 2	NM_080556.3
23	Gene Zic5	Zic5, 1700049I zinc finger protein of the cerebellum 5	NM_022987.3
23	Gene 2610035	2610035F20Ril RIKEN cDNA 2610035F20 gene	NR_045046.1
23	Gene Zic2	HPE5, Zic2, Ku zinc finger protein of the cerebellum 2	NM_009574.3
26	Gene Tmtc4	5730419O14Ri transmembrane and tetratricopeptide repeat containing 4	NM_028651.2
25	Gene Nalcn	AI849508, Vgc sodium leak channel, non-selective	NM_177393.4
15	Gene Fgf14	MGC129318, r fibroblast growth factor 14	NM_010201.4, NM
22	Gene Fbxo4	1700096C12Ri F-box protein 4	NM_134099.2
28	Gene AW5498	AI195826, AW expressed sequence AW549877	NM_145930.2
28	Gene A630020A06	uncharacterized A630020A06	NR_045740.1
28	Gene Card6	Card6, D7300C caspase recruitment domain family, member 6	NM_001163138.1
28	Gene Rpl37	3110005M08R ribosomal protein L37	NM_026069.3
28	Gene Snord72	MBII-240, Sno: small nucleolar RNA, C/D box 72	NR_028091.1
22	Gene Prkaa1	AMPKalpha1, I protein kinase, AMP-activated, alpha 1 catalytic subunit 1	NM_001013367.3
20	Gene Egflam	5930412K08, EGF-like, fibronectin type III and laminin G domains	NM_178748.5
26	Gene Gdnf	AI385739, Gdn: glial cell line derived neurotrophic factor	NM_010275.2
20	Gene Nipbl	4921518A06Ri Nipped-B homolog (Drosophila)	NM_027707.2, NM
23	Gene Skp2	MGC116668, M-phase kinase-associated protein 2 (p45)	NM_013787.2, NM
23	Gene Lmbrd2	9930036E21Ri LMBR1 domain containing 2	NM_177178.3
24	Gene Rai14	Ankycorbin, 17 retinoic acid induced 14	NM_030690.3, NM
24	Gene 4930556	1700009D01Ri RIKEN cDNA 4930556M19 gene	NR_045063.1, NR_
19	Gene Slc45a2	bls, uw, blanc: solute carrier family 45, member 2	NM_053077.3
19	Gene Rxfp3	BC053073, Rxf relaxin family peptide receptor 3	NM_178717.3
23	Gene Npr3	stri, Npr3, C81 natriuretic peptide receptor 3	NM_008728.2, NM
23	Gene Gm5144	Gm5144 predicted gene 5144	XR_105665.3, XR_
38	Gene Sub1	Pc4, AI842364, SUB1 homolog (S. cerevisiae)	NM_011294.3
24	Gene Zfr	C920030H05Ri zinc finger RNA binding protein	NM_011767.2
33	Gene Golph3	AW413496, 57 golgi phosphoprotein 3	NM_025673.2
17	Gene Cdh6	cad6, Cdh6, K-cadherin 6	NM_007666.3
28	Gene Basp1	Ckap3, CAP-23 brain abundant, membrane attached signal protein	NM_027395.2
28	Gene Gm5468	EG432939, Gr predicted gene 5468	NR_027376.1
37	Gene Myo10	AW048724, M myosin X	NM_019472.2
34	Gene Zfp622	Znf622, 11100 zinc finger protein 622	NM_144523.2
29	Gene Fbxl7	MGC102204, F-box and leucine-rich repeat protein 7	NM_176959.3
26	Gene Trio	AA408740, 67: triple functional domain (PTPRF interacting)	NM_001081302.1
25	Gene Ankrd33	5730557B15Ri ankyrin repeat domain 33B	NM_001164441.1

23	Gene March6	3830408G03, r membrane-associated ring finger (C3HC4) 6	NM_172606.2
35	Gene Cct5	Ccte, mKIAA00C chaperonin containing Tcp1, subunit 5 (epsilon)	NM_007637.2
35	Gene Fam173l	AA987072, A9: family with sequence similarity 173, member B	NM_026546.3
28	Gene 0610007	0610007N19Ri RIKEN cDNA 0610007N19	NR_038186.1
28	Gene Snord12	0610007N19Ri small nucleolar RNA, C/D box 123	NR_028575.2
28	Gene Sema5a	9130201M22R sema domain, seven thrombospondin repeats (type	NM_009154.2
19	Gene Tspyl5	E130308C19Ri testis-specific protein, Y-encoded-like 5	NM_001085421.1
23	Gene Mtdh	D8Bwg1112e, metadherin	NM_026002.4
30	Gene Matn2	Crtm2, Matn2, matrilin 2	NM_016762.2
30	Gene Rpl30	Rpl30, MGC10 ribosomal protein L30	NM_009083.4, NM
30	Gene BC03047	MGC117582, M cDNA sequence BC030476	NM_173421.2
24	Gene Hrsp12	HR12, Hrsp12, heat-responsive protein 12	NM_008287.3
24	Gene Pop1	4932434G09Ri processing of precursor 1, ribonuclease P/MRP fami	NM_152894.2, NM
26	Gene Nipal2	Npal2, 933016 NIPA-like domain containing 2	NM_145469.5
26	Gene 4930413	4930413F20Ri RIKEN cDNA 4930413F20 gene	NR_045883.2
27	Gene Kcns2	E130006J24Ri K+ voltage-gated channel, subfamily S, 2	NM_181317.3
21	Gene Stk3	MST, Mst2, 0610042I06Ri k, mess1, Stk3, Ste20, Mst3	NM_019635.2
30	Gene Osr2	Osr2B, Osr2, 5430409I15Ri k, Osr2A	NM_054049.2
25	Gene BC04860	BC048602 cDNA sequence BC048602	NR_045280.1
31	Gene Vps13b	2310042E16Ri vacuolar protein sorting 13B (yeast)	NM_177151.3
27	Gene Cox6c	Cox6c cytochrome c oxidase subunit VIc	NM_053071.2
18	Gene Spag1	Spag1, tpis sperm associated antigen 1	NM_012031.3
26	Gene Rnf19a	Rnf19a, UIP11 ring finger protein 19A	NM_013923.2
28	Gene Pabpc1	Pabpc1, PABP, poly(A) binding protein, cytoplasmic 1	NM_008774.3
30	Gene Ywhaz	AI596267, AUC tyrosine 3-monooxygenase/tryptophan 5-monooxyg	NM_011740.3, NM
28	Gene Ncald	D030020D09R neurocalcin delta	NM_134094.4, NM
28	Gene Ubr5	C77315, mKIAA ubiquitin protein ligase E3 component n-recognin 5	NM_001081359.2,
35	Gene Azin1	Oazi, 1700085 antizyme inhibitor 1	NM_018745.5, NM
25	Gene Atp6v1c	U13839, Atp6v ATPase, H+ transporting, lysosomal V1 subunit C1	NM_025494.3
35	Gene Slc25a32	2610043O12Ri solute carrier family 25, member 32	NM_172402.3
35	Gene Dcaf13	Wdsof1, Dcaf1 DDB1 and CUL4 associated factor 13	NM_198606.2
18	Gene Rims2	Rab3ip2, 2810 regulating synaptic membrane exocytosis 2	NM_001256382.1
18	Gene Lrp12	Lrp12, AI8488 low density lipoprotein-related protein 12	NM_172814.3
20	Gene Zfp2	FOG-2, Zfp2, zinc finger protein, multitype 2	NM_011766.5
28	Gene Oxr1	MGC103081, Oxidation resistance 1	NM_130885.2, NM
26	Gene Nudcd1	AW556235, NudC domain containing 1	NM_026149.4, NM
26	Gene Eny2	DC6, 1810057I enhancer of yellow 2 homolog (Drosophila)	NM_175009.3
29	Gene Ebag9	AI835379, Rca: estrogen receptor-binding fragment-associated gene	NM_019480.4
19	Gene Rad21	mKIAA0078, R: RAD21 homolog (S. pombe)	NM_009009.4
21	Gene Ext1	Ext1, AA40902 exostoses (multiple) 1	NM_010162.2
39	Gene Dscc1	MGC151212, M defective in sister chromatid cohesion 1 homolog (S	NM_183089.2
39	Gene Gm9920	Gm9920, ENSM predicted gene 9920	NR_045093.1
33	Gene Deptor	9130412E02Ri DEP domain containing MTOR-interacting protein	NM_145470.2, NM
24	Gene Mrpl13	Mrpl13, 11100 mitochondrial ribosomal protein L13	NM_026759.3
24	Gene Mtbp	AI429604, Mtk Mdm2, transformed 3T3 cell double minute p53 bin	NM_134092.3, NM
19	Gene Sntb1	Sntb1	NM_016667.3
18	Gene Zhx2	mKIAA0854, R: zinc fingers and homeoboxes 2	NM_199449.2

36	Gene 9130401A1849328, 913 RIKEN cDNA 9130401M01 gene	NM_029418.4
23	Gene Zhx1 Zhx1, mKIAA41 zinc fingers and homeoboxes 1	NM_009572.3, NM
31	Gene Atad2 Atad2, 261050 ATPase family, AAA domain containing 2	NM_027435.2
31	Gene Wdyhv1 Ntaq1, 241018 WDYHV motif containing 1	NM_029734.1
21	Gene Fbxo32 Gm20361, atrc F-box protein 32	NM_026346.3
22	Gene Tmem65 4930438D12Ri transmembrane protein 65	NM_175212.4
22	Gene Ube2d4 EG546638, Gr ubiquitin-conjugating enzyme E2D 4	XM_905852.4, XM
31	Gene Rnf139 4930555P18Ri ring finger protein 139	NM_175226.4
31	Gene Tatdn1 2310079P03Ri TatD DNase domain containing 1	NM_175151.4
25	Gene Ndufb9 Ndufb9, 1190C NADH dehydrogenase (ubiquinone) 1 beta subcomp	NM_023172.3
25	Gene Mtss1 2310003N14Ri metastasis suppressor 1	NM_144800.2, NM
27	Gene Sqle Sqle, A1323792 squalene epoxidase	NM_009270.3
21	Gene E430025 C76463, mKIAA RIKEN cDNA E430025E21 gene	NM_153548.2
21	Gene Nsmce2 1110014D18Ri non-SMC element 2 homolog (MMS21, S. cerevisiae	NM_026746.3, NM
29	Gene Trib1 A530090O15Ri tribbles homolog 1 (Drosophila)	NM_144549.4
29	Gene Fam84b D330050I23Ri family with sequence similarity 84, member B	NM_001162926.1
29	Gene 9930014 9930014A18Ri RIKEN cDNA 9930014A18 gene	NR_030696.1
27	Gene Myc Nird, Myc2, Ni myelocytomatosis oncogene	NM_010849.4, NM
23	Gene Asap1 AV239055, PAI ArfGAP with SH3 domain, ankyrin repeat and PH do	NM_010026.2
31	Gene Efr3a KIAA0143, mKIEFR3 homolog A (S. cerevisiae)	NM_133766.3
27	Gene Phf20l1 E130113K22Ri PHD finger protein 20-like 1	NM_001081409.1
31	Gene Ndrg1 PROXY1, HMSI N-myc downstream regulated gene 1	NM_008681.2
21	Gene Trappc9 2900005P22Ri trafficking protein particle complex 9	NM_180662.2, NM
21	Gene Peg13 Peg13 paternally expressed 13	NR_002864.1
34	Gene Ago2 Gerp95, Gm10 argonaute RISC catalytic subunit 2	NM_153178.4
26	Gene 170001C 1700010B13Ri RIKEN cDNA 1700010B13 gene	XR_106927.1, XR_
22	Gene Jrk Jrk	NM_008415.6
22	Gene 4933427 4933427E11Ri RIKEN cDNA 4933427E11 gene	NR_033197.1
22	Gene Psca 2210408B04Ri prostate stem cell antigen	NM_028216.2
19	Gene Zfp41 Zfp-41, CTfin9 zinc finger protein 41	NM_001044718.1,
38	Gene Mafa RIPE3b1, Mafa v-maf musculoaponeurotic fibrosarcoma oncogene	NM_194350.1
38	Gene Zc3h3 Zc3h3, Smicl, Ezinc finger CCCH type containing 3	NM_172121.1
30	Gene Zfp623 A1847036, MG zinc finger protein 623	NM_030199.3
29	Gene Scrib KIAA0147, A11 scribbled homolog (Drosophila)	NM_134089.1
42	Gene Puf60 Puf60, SIAHBP poly-U binding splicing factor 60	NM_028364.2, NM
42	Gene Nrbp2 MGC18994, Nr nuclear receptor binding protein 2	NM_144847.1
40	Gene Eppk1 Eppk1, 623042 epiplakin 1	NM_144848.2
28	Gene Plec PLTN, AU042537, PCN, AA591047, Plec, Plec1, EBS1	NM_001163540.1
21	Gene Mir1942 mmu-mir-1942 microRNA 1942	NR_035463.1
24	Gene Parp10 Parp10 poly (ADP-ribose) polymerase family, member 10	NM_001163575.1,
21	Gene Grina Lag, 1110025J glutamate receptor, ionotropic, N-methyl D-asparta	NM_023168.3
21	Gene Exosc4 Rrp41, 150000 exosome component 4	NM_175399.4
28	Gene Gpaa1 C80044, mGAA GPI anchor attachment protein 1	NM_010331.2
28	Gene Cyc1 2610002H19Ri cytochrome c-1	NM_025567.2
28	Gene Sharpin cpdm, Sharpin SHANK-associated RH domain interacting protein	NM_025340.2
28	Gene Maf1 1110068E11Ri MAF1 homolog (S. cerevisiae)	NM_001164607.1
31	Gene Fam203 D15Ert d741e, family with sequence similarity 203, member A	NM_021555.2

31	Gene Tssk5	1700091F14Ri testis-specific serine kinase 5	NM_183099.2
25	Gene Mroh1	Heatr7a, D330 maestro heat-like repeat family member 1	NM_001162489.1
32	Gene Bop1	mKIAA0124, Ei block of proliferation 1	NM_013481.1
25	Gene Scx	Scl, Scx, BB114 scleraxis	NM_198885.3
32	Gene Hsf1	Hsf1, AA96018 heat shock factor 1	NM_008296.2
24	Gene Dgat1	C75990, ARAT, diacylglycerol O-acyltransferase 1	NM_010046.2
26	Gene Scrt1	Scrt1 scratch homolog 1, zinc finger protein (Drosophila)	NM_130893.3
38	Gene Gm8140	EG666504, Gr predicted gene 8140	XM_982916.4, XM
38	Gene Fbxl6	Fbxl6, Fbl6, AU F-box and leucine-rich repeat protein 6	NM_013909.2
38	Gene Slc52a2	PAR2, GPCR, 2 solute carrier protein 52, member 2	NM_029643.3
25	Gene Cyhr1	Chrp, Cyhr1, 1: cysteine and histidine rich 1	NM_180962.1, NM
25	Gene Kifc2	Kifc2 kinesin family member C2	NM_010630.2
22	Gene Foxh1	Foxh1, Fast1, F forkhead box H1	NM_007989.3
22	Gene Ppp1r16	Mypt3, 29000 protein phosphatase 1, regulatory (inhibitor) subunit	NM_033371.2
27	Gene Mfsd3	2310010G13Ri major facilitator superfamily domain containing 3	NM_027122.3
27	Gene Recql4	Recql4, RecQ4	NM_058214.3
27	Gene Lrrc14	E130306I01Ri leucine rich repeat containing 14	NM_145471.2
27	Gene Lrrc24	Lrrc24, 64304C leucine rich repeat containing 24	NM_198119.2
26	Gene C030006	C030006K11Ri RIKEN cDNA C030006K11 gene	NM_176828.4, NM
26	Gene Arhgap3	AI843066, 953 Rho GTPase activating protein 39	NM_198420.2, NM
19	Gene Zfp7	KRAB20, mszf7 zinc finger protein 7	NM_145916.2
50	Gene Commd5	Hcarg, AI8544C COMM domain containing 5	NM_025536.2
50	Gene Rpl8	Rpl8 ribosomal protein L8	NM_012053.2
50	Gene Zfp647	Znf250, Es492, zinc finger protein 647	NM_172817.3, NM
24	Gene Rbfox2	Rbfox2, Hrnbp RNA binding protein, fox-1 homolog (C. elegans) 2	NM_053104.5, NM
21	Gene Apol8	Apol8, Apol2, apolipoprotein L 8	NM_001081970.1
39	Gene Myh9	D0Jmb2, Myhr myosin, heavy polypeptide 9, non-muscle	NM_022410.2
23	Gene Foxred2	D15Bwg0759e FAD-dependent oxidoreductase domain containing	NM_001017983.2
38	Gene Eif3d	eIF3p66, Eif3s7 eukaryotic translation initiation factor 3, subunit D	NM_018749.2
30	Gene Cacng2	stargazer, Cac calcium channel, voltage-dependent, gamma subunit	NM_007583.2
23	Gene Tex33	Ean57, 170006 testis expressed 33	NM_028522.1, NM
24	Gene Tst	Rhodanese, Ts thiosulfate sulfurtransferase, mitochondrial	NM_009437.4
24	Gene Mpst	Mst, Mpst mercaptopyruvate sulfurtransferase	NM_138670.3, NM
26	Gene Kctd17	Kctd17, 29000 potassium channel tetramerisation domain containing	NM_001081367.1
26	Gene Tmprss6	Tmprss6, 1300 transmembrane serine protease 6	NM_027902.2
18	Gene Elfn2	AW048948, 63 leucine rich repeat and fibronectin type III, extracellular	NM_183141.2
24	Gene Cdc42ep	MSE55, Cdc42 CDC42 effector protein (Rho GTPase binding) 1	NM_027219.3
24	Gene Lgals2	2200008F12Ri lectin, galactose-binding, soluble 2	NM_025622.3
30	Gene Gga1	4930406E12Ri golgi associated, gamma adaptin ear containing, ARI	NM_145929.2
30	Gene Gm1086	ENSMUSG000 predicted gene 10866	XR_141279.1
30	Gene Sh3bp1	3BP-1, Sh3bp1 SH3-domain binding protein 1	NM_009164.2
26	Gene Pdxp	Pdxp, 1600027 pyridoxal (pyridoxine, vitamin B6) phosphatase	NM_020271.3
26	Gene Lgals1	galectin-1, Lec lectin, galactose binding, soluble 1	NM_008495.2
26	Gene Nol12	Nol12, Nop25, nucleolar protein 12	NM_133800.3
23	Gene Triobp	EST478828, Tri TRIO and F-actin binding protein	NM_138579.4, NM
40	Gene Gm1775	Gm17753 predicted gene, 17753	XR_106938.2, XR_
40	Gene H1f0	MGC19309, H: H1 histone family, member 0	NM_008197.3

40	Gene Gcat	Kbl, AI526977, glycine C-acetyltransferase (2-amino-3-ketobutyrate	NM_013847.4, NM
27	Gene Eif3l	Eif3eip, Eif3ip, eukaryotic translation initiation factor 3, subunit L	NM_145139.2
28	Gene Micall1	260, D15N2e, I microtubule associated monooxygenase, calponin a	NM_177461.1
26	Gene Sox10	Dom, Sox10, SRY-box containing gene 10	NM_011437.1
26	Gene Gm1086	Gm10863, ENS predicted gene 10863	NR_029470.1
26	Gene Maff	Maff	NM_010755.3
24	Gene Tmem18	2610507A11, T transmembrane protein 184b	NM_172608.1, NM
20	Gene Kcnj4	IRK3, Kcnj4, Kc potassium inwardly-rectifying channel, subfamily J, I	NM_008427.4
23	Gene Kdelr3	Kdelr3, AI1732 KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum prote	NM_134090.2
26	Gene Fam227	4933432B09Ri family with sequence similarity 227, member A	NM_029407.1
26	Gene Cby1	PGEA14, 1110 (chibby homolog 1 (Drosophila)	NM_028634.3
32	Gene Josd1	MGC101975, J Josephin domain containing 1	NM_028792.3
32	Gene LOC101055940	uncharacterized LOC101055940	XM_003945553.1
32	Gene Gtpbp1	Gtpbp1, AL022 GTP binding protein 1	NM_013818.2
20	Gene Sun2	Sun2, AI55176 Sad1 and UNC84 domain containing 2	NM_194342.3, NM
20	Gene Gm1657	Gm16576 predicted gene 16576	NR_045069.1
23	Gene Npcd	Cbx6-Nptxr, N neuronal pentraxin chromo domain	NM_001013360.2,
17	Gene Nptxr	AI785356, AI4 neuronal pentraxin receptor	NM_030689.4
23	Gene Cbx6	Cbx6 chromobox 6	NM_028763.3
23	Gene Gm1085	ENSMUSG000 (predicted gene 10856	XR_141281.1
23	Gene Pdgfb	PDGF-B, Pdgfb platelet derived growth factor, B polypeptide	NM_011057.3
23	Gene Fam83f	MGC27770, Fa family with sequence similarity 83, member F	NM_145986.2
35	Gene Tnrc6b	D230019K20Ri trinucleotide repeat containing 6b	NM_144812.2, NM
23	Gene Adsl	Asl, Adsl, Adl	NM_009634.5
23	Gene Sgsm3	Rutbc3, BB175 small G protein signaling modulator 3	NM_134091.2
24	Gene Mkl1	AMKL, AI8528:MKL (megakaryoblastic leukemia)/myocardin-like 1	NM_153049.2, NM
24	Gene 4930483	4930483J18Ri RIKEN cDNA 4930483J18 gene	NR_015603.1
19	Gene St13	HIP, HOP, St13 suppression of tumorigenicity 13	NM_133726.2
19	Gene Xpnpep3	Xpnpep3, E43 (X-prolyl aminopeptidase (aminopeptidase P) 3, puta	NM_177310.2
19	Gene Dnajb7	Dnajb7, 49334 DnaJ (Hsp40) homolog, subfamily B, member 7	NM_021317.2
41	Gene Ep300	p300, Ep300, K E1A binding protein p300	NM_177821.6
23	Gene L3mbtl2	M4mbt, L3mbtl(3)mbt-like 2 (Drosophila)	NM_145993.4
23	Gene Chadl	AY100452, D9 chondroadherin-like	NM_001164320.1
36	Gene Rangap1	C79654, Rang RAN GTPase activating protein 1	NM_001146174.1
26	Gene Zc3h7b	mKIAA1031, Z zinc finger CCCH type containing 7B	NM_001081016.1
31	Gene Gm1759	Gm17597 predicted gene, 17597	XR_106942.1, XR_
31	Gene Tef	Tef, 2310028D thyrotroph embryonic factor	NM_153484.3, NM
30	Gene Tob2	AV071822, 49 transducer of ERBB2, 2	NM_020507.3
30	Gene Phf5a	Phf5a, 111000 PHD finger protein 5A	NM_026737.3
19	Gene Polr3h	5031409G22Ri polymerase (RNA) III (DNA directed) polypeptide H	NM_030229.4
31	Gene Csdc2	AI415250, Pip cold shock domain containing C2, RNA binding	NM_145473.3
31	Gene Pmm1	Pmm1, C7761 phosphomannomutase 1	NM_013872.3
28	Gene Xrcc6	G22p1, Xrcc6, X-ray repair complementing defective repair in Chin	NM_010247.2
28	Gene Nhp2l1	Nhp2l1, Ssfa1, NHP2 non-histone chromosome protein 2-like 1 (S. c	NM_011482.4
34	Gene Mei1	Mei1, mei1, 4 meiosis defective 1	NM_028897.3
34	Gene Ccdc134	2310042L06Ri coiled-coil domain containing 134	NM_172428.2
23	Gene Srebf2	SREBP2gc, AI6 sterol regulatory element binding factor 2	NM_033218.1

40	Gene Cenpm	AI853711, Cen centromere protein M	NM_025639.4, NM
40	Gene 1500009	1500009C09Ri RIKEN cDNA 1500009C09 gene	NR_037697.1, NR_
31	Gene Tcf20	mKIAA0292, 2:transcription factor 20	NM_013836.3, NM
31	Gene Tbrg3	TB-11, Tbrg3 transforming growth factor beta regulated gene 3	NR_027799.1
31	Gene Gm2032	Gm20324 predicted gene, 20324	NR_045068.1
22	Gene Serhl	Serhl, 061000ε serine hydrolase-like	NM_023475.3
22	Gene Rrp7a	1110014J01Ri ribosomal RNA processing 7 homolog A (S. cerevisia	NM_029101.4
22	Gene Poldip3	mKIAA1649, C polymerase (DNA-directed), delta interacting protei	NM_178627.3
23	Gene Arfgap3	Arfgap1, 1810(ADP-ribosylation factor GTPase activating protein 3	NM_025445.4
23	Gene 1700001	1700001L05Ri RIKEN cDNA 1700001L05 gene	NR_027980.1
24	Gene Pacsin2	Pacsin2, AI197 protein kinase C and casein kinase substrate in neur	NM_011862.3, NM
21	Gene Mcat	BC025519, AI2 malonyl CoA:ACP acyltransferase (mitochondrial)	NM_001030014.2
21	Gene Tspo	Bzrp, PBR, Tsp:translocator protein	NM_009775.4
26	Gene Ttl12	Ttl12, BC0553 tubulin tyrosine ligase-like family, member 12	NM_183017.2
26	Gene Scube1	A630023E24Ri signal peptide, CUB domain, EGF-like 1	NM_022723.2
36	Gene Ldoc1l	Ldoc1l, BC058(leucine zipper, down-regulated in cancer 1-like	NM_177630.3
24	Gene Phf21b	Phf21b, A7300 PHD finger protein 21B	NM_001081166.2,
24	Gene Nup50	1700030K07Ri nucleoporin 50	NM_016714.2
23	Gene 5031439	5031439G07Ri RIKEN cDNA 5031439G07 gene	NM_001033273.2
24	Gene Fbln1	Fbln1	NM_010180.2
29	Gene Atxn10	C77170, Atxn1 ataxin 10	NM_016843.3
19	Gene Wnt7b	Wnt-7b, Wnt7 wingless-related MMTV integration site 7B	NM_009528.3, NM
19	Gene AU0227	AU022754 expressed sequence AU022754	NR_040433.1
20	Gene Ppara	PPAR-alpha, P:peroxisome proliferator activated receptor alpha	NM_011144.6, NM
23	Gene Gtse1	Gtse1, Gtse-1, G two S phase expressed protein 1	NM_013882.2, NM
23	Gene Trmu	1110005N20Ri tRNA 5-methylaminomethyl-2-thiouridylate methyl	NM_028063.2
24	Gene Celsr1	Scy, crash, Cel:cadherin, EGF LAG seven-pass G-type receptor 1 (fla	NM_009886.2
27	Gene Gramd4	Gramd4, 9930(GRAM domain containing 4	NM_001205353.1,
23	Gene CerK	D330016D08R ceramide kinase	NM_145475.4
26	Gene Tbc1d22	MGC28337, T: TBC1 domain family, member 22a	NM_145476.2
30	Gene Fam19a	Tafa-5, TAF5, family with sequence similarity 19, member A5	NM_134096.2, NM
30	Gene Brd1	Brd1, mKIAA4: bromodomain containing 1	NM_001033274.3
25	Gene Zbed4	MGC59429, Z: zinc finger, BED domain containing 4	NM_181412.3
26	Gene Alg12	ECM39, Alg12, asparagine-linked glycosylation 12 (alpha-1,6-mann	NM_145477.2, NM
26	Gene Creld2	Creld2, C8575(cysteine-rich with EGF-like domains 2	NM_029720.2
43	Gene Pim3	MGC27707, P: proviral integration site 3	NM_145478.2
25	Gene Panx2	Panx2 pannexin 2	NM_001002005.2
25	Gene 1810021	1810021B22Ri RIKEN cDNA 1810021B22 gene	NR_040417.1
26	Gene Trabd	Trabd, 573050 TraB domain containing	NM_026485.2
26	Gene 1300018	1300018J18Ri RIKEN cDNA 1300018J18 gene	NM_027905.2
26	Gene Tubgcp6	D430023H11, tubulin, gamma complex associated protein 6	NM_001163319.1
19	Gene Mapk11	Prkm11, P38b, mitogen-activated protein kinase 11	NM_011161.5
34	Gene Plxb2	1110007H23Ri plexin B2	NM_138749.2, NM
34	Gene Dennd6l	AI414881, 170 DENN/MADD domain containing 6B	NM_027081.3
28	Gene Ppp6r2	1110033O10Ri protein phosphatase 6, regulatory subunit 2	NM_027805.2, NM
15	Gene Shank3	Shank3b, AI84 SH3/ankyrin domain gene 3	NM_021423.3
19	Gene Rabl2	AW549303, Ra RAB, member of RAS oncogene family-like 2	NM_026817.3

26	Gene Kif21a	AI850764, Kif2 kinesin family member 21A	NM_016705.3, NM
28	Gene Slc2a13	A630029G22R solute carrier family 2 (facilitated glucose transporter)	NM_001033633.3
26	Gene Zcrb1	Madp-1, Zcrb1 zinc finger CCHC-type and RNA binding motif 1	NM_026025.2
26	Gene Pphln1	HSPC232, 160(periphilin 1	NM_146062.2, NM
38	Gene Prickle1	Prickle1, mpk1 prickle homolog 1 (Drosophila)	NM_001033217.4
18	Gene Adamts2	Adamts20, Ad: a disintegrin-like and metallopeptidase (reprolysin t	NM_177431.4, NM
27	Gene Twf1	A6, twinfilin, P twinfilin, actin-binding protein, homolog 1 (Drosoph	NM_008971.4
18	Gene Nell2	mel91, Nell2, /NEL-like 2	NM_016743.2
34	Gene A130051	ENSMUSG000(RIKEN cDNA A130051J0 gene	XR_141262.1
34	Gene Ano6	AW554778, Tnanoctamin 6	NM_001253813.1,
23	Gene E330033	E330033B04Ri RIKEN cDNA E330033B04 gene	NR_030690.1
23	Gene Arid2	zipzap/p200, AAT rich interactive domain 2 (ARID, RFX-like)	NM_175251.4
29	Gene Scaf11	Scaf11, mKIAA SR-related CTD-associated factor 11	NM_028148.2
37	Gene Slc38a1	AA408026, AL(solute carrier family 38, member 1	NM_134086.4, NM
23	Gene Slc38a2	mKIAA1382, 5(solute carrier family 38, member 2	NM_175121.3
20	Gene Rpap3	2310042P20Ri RNA polymerase II associated protein 3	NM_028003.2
20	Gene Endou	Pp11r, Endou, endonuclease, polyU-specific	NM_008902.3, NM
17	Gene Tmem10	MGC54819, AI transmembrane protein 106C	NM_001252153.1
22	Gene Asb8	Asb8, 493053(ankyrin repeat and SOCS box-containing 8	NM_030121.4, NM
22	Gene AI83600	AI836003, 563 expressed sequence AI836003	NM_177716.3
33	Gene Kansl2	Kansl2, 2310037I24Rik, MGC101985, B930009D17, MGC102368	NM_133714.4
33	Gene Snora2b	Snora2b, MBI- small nucleolar RNA, H/ACA box 2B	NR_034052.1
33	Gene Ccnt1	AI115585, Cyc' cyclin T1	NM_009833.1
28	Gene 9330020	9330020H09Ri RIKEN cDNA 9330020H09 gene	NR_028442.1
28	Gene 4930415	4930415O20Ri RIKEN cDNA 4930415O20 gene	NM_001201322.1
19	Gene Adcy6	Adcy6, mKIAA(adenylate cyclase 6	NM_007405.2
15	Gene Cacnb3	Cacnb3, Cchb3 calcium channel, voltage-dependent, beta 3 subunit	NM_007581.2, NM
23	Gene Ddx23	3110082M05R DEAD (Asp-Glu-Ala-Asp) box polypeptide 23	NM_001080981.1
23	Gene Rnd1	A830014L09Ri Rho family GTPase 1	NM_172612.3
41	Gene Arf3	Arf3, 5430400(ADP-ribosylation factor 3	NM_007478.3
41	Gene Wnt10b	Wnt12, Wnt10 wingless related MMTV integration site 10b	NM_011718.2
23	Gene Ddn	Ddn, Gm748 dendrin	NM_001013741.1
23	Gene B130046	B130046B21Ri RIKEN cDNA B130046B21 gene	XR_106961.1, XR_
23	Gene Prkag1	Prkaac, BB036 protein kinase, AMP-activated, gamma 1 non-cataly	NM_016781.2
35	Gene Mll2	KMT2D, Mll2, l myeloid/lymphoid or mixed-lineage leukemia 2	NM_001033276.3
35	Gene Rhebl1	1810036J22Ri(Ras homolog enriched in brain like 1	NM_026967.4
38	Gene Dhh	MGC73610, D(desert hedgehog	NM_007857.4
38	Gene Lmbr1l	D15Ert(735e, limb region 1 like	NM_029098.3
31	Gene Tuba1b	Tuba2, Tuba1(tubulin, alpha 1B	NM_011654.2
28	Gene Tuba1a	MGC102097, T tubulin, alpha 1A	NM_011653.2
20	Gene Tuba1c	M[a]6, Tuba1c tubulin, alpha 1C	NM_009448.4
21	Gene Prph	Prph1, Prph peripherin	NM_013639.2, NM
20	Gene Troap	E130301L11Ri(trophinin associated protein	NM_030159.1, NM
20	Gene C1ql4	C1qtnf11, C1ql complement component 1, q subcomponent-like 4	NM_001024702.1
20	Gene Dnajc22	AI506245, 281 DnaJ (Hsp40) homolog, subfamily C, member 22	NM_176835.2
16	Gene Kcnh3	AU019351, C0(potassium voltage-gated channel, subfamily H (eag-	NM_010601.3
16	Gene Mcrs1	C78274, ICP22 microspherule protein 1	NM_016766.3, NM

16	Gene 170012C1700120C14Ri RIKEN cDNA 1700120C14 gene	NR_045627.2
26	Gene Nckap5l Nckap5l, C230iNCK-associated protein 5-like	NM_001001884.1
24	Gene Bcdin3d AV138748, BccBCDIN3 domain containing	NM_029236.2
17	Gene Racgap1 MgcRacGAP, B Rac GTPase-activating protein 1	NM_001253808.1
25	Gene Cers5 Cers5, AW544927, CerS5, 2310081H14Rik, Lass5, AU045339, Trh4	NM_028015.2
25	Gene Lima1 D15Etd366e, LIM domain and actin binding 1	NM_023063.3, NM
42	Gene Larp4 D330037H05R La ribonucleoprotein domain family, member 4	NM_001080948.1,
42	Gene 23100682310068J16Ri RIKEN cDNA 2310068J16 gene	NR_028124.1
24	Gene Dip2b 4932422C22, DIP2 disco-interacting protein 2 homolog B (Drosophila)	NM_001159361.1
36	Gene Slc11a2 Nramp2, Slc11 solute carrier family 11 (proton-coupled divalent metal ion)	NM_008732.2, NM
36	Gene Gm5475 Gm5475, EG43 predicted gene 5475	NR_040351.1
33	Gene Letmd1 Mccr, A159352 LETM1 domain containing 1	NM_134093.2
33	Gene Csrnp2 Csrnp2, MGC2 cysteine-serine-rich nuclear protein 2	NM_153407.2
31	Gene Tfcp2 CP-2, Tfcp2, LB transcription factor CP2	NM_033476.2
33	Gene C330013C330013E15Ri RIKEN cDNA C330013E15 gene	NR_045701.1
33	Gene Dazap2 Gcap28, MGC2 DAZ associated protein 2	NM_011873.2
33	Gene Smagp MGC7903, Sm:small cell adhesion glycoprotein	NM_174992.3, NM
23	Gene Scn8a C630029C19Ri sodium channel, voltage-gated, type VIII, alpha	NM_001077499.1
23	Gene Fignl2 EG668225, Fig fidgetin-like 2	NM_001214911.1
21	Gene Ankrd33 A930021G21R ankyrin repeat domain 33	NM_144790.1
21	Gene Acvrl1 A115505, Acv activin A receptor, type II-like 1	NM_009612.2
34	Gene A330009A330009N23R RIKEN cDNA A330009N23 gene	NR_045326.1, NR_
34	Gene AU02106AU021063 expressed sequence AU021063	NR_045996.1
34	Gene Grasp tamalin, Grasp GRP1 (general receptor for phosphoinositides 1)-ass	NM_019518.3
24	Gene Nr4a1 Hbr1, NGFIB, nuclear receptor subfamily 4, group A, member 1	NM_010444.2
24	Gene 9430023AU022967, Atg RIKEN cDNA 9430023L20 gene	NM_026566.2
24	Gene 60304086030408B16Ri RIKEN cDNA 6030408B16 gene	NR_033803.1
26	Gene Eif4b 2310046H11Ri eukaryotic translation initiation factor 4B	NM_145625.3
24	Gene A030007A030007N12R RIKEN cDNA A030007N12 gene	XR_168541.1, XR_
26	Gene Tenc1 nep, Tenc1, C1 tensin like C1 domain-containing phosphatase	NM_153533.2
38	Gene Spryd3 Spryd3, BC008 SPRY domain containing 3	NM_001033277.3
38	Gene Igfbp6 IGFBP-6, Igfbp:insulin-like growth factor binding protein 6	NM_008344.3
20	Gene Soat2 D15Wsu97e, Asterol O-acyltransferase 2	NM_146064.1
24	Gene Rarg RARgamma2, I retinoic acid receptor, gamma	NM_001042727.1
37	Gene Gm9918 ENSMUSG000 predicted gene 9918	XR_168740.1, XR_
37	Gene Mfsd5 D15Mgi27, AM major facilitator superfamily domain containing 5	NM_134100.4
38	Gene Espl1 SSE, ESP1, AL0 extra spindle poles-like 1 (S. cerevisiae)	NM_001014976.2
24	Gene Aaas ADRACALA, DC achalasia, adrenocortical insufficiency, alacrimia	NM_153416.2
24	Gene Sp7 Osx, Sp7, MGC Sp7 transcription factor 7	NM_130458.3
20	Gene Prr13 1110020C13Ri proline rich 13	NM_025385.3, NM
20	Gene Pcbp2 Pcbp2, Hnrpx, poly(rC) binding protein 2	NM_001103165.1
18	Gene Hoxc13 Hoxc13	NM_010464.2
27	Gene Hoxc10 Hox-3.6, Hoxc1 homeobox C10	NM_010462.5
27	Gene Mir196a Mirn196a-2, M microRNA 196a-2	NR_029722.1
27	Gene Hoxc9 Hoxc9, Hox-3.2 homeobox C9	NM_008272.3
27	Gene Hoxc8 Hox-3.1, D130i homeobox C8	NM_010466.2
19	Gene Cbx5 Cbx5, 2610029 chromobox 5	NM_007626.3, NM

21	Gene Itga5	Itga5, Fnra, Cd integrin alpha 5 (fibronectin receptor alpha)	NM_010577.3
27	Gene Naa60	1200013P24Ri N(alpha)-acetyltransferase 60, NatF catalytic subunit	NM_029090.3
30	Gene Trap1	Trap1, HSP75, TNF receptor-associated protein 1	NM_026508.2
30	Gene Crebbp	AW558298, Cr CREB binding protein	NM_001025432.1
20	Gene 4930455	4930455F16Ri RIKEN cDNA 4930455F16 gene	NR_040570.1, NR_040570.2
31	Gene Adcy9	Adcy9, D16Ws adenylate cyclase 9	NM_009624.2
35	Gene Tfp4	AP-4, bHLHc41 transcription factor AP4	NM_031182.2
26	Gene Glis2	Nkl, Glis2, Gli5 GLIS family zinc finger 2	NM_031184.3
19	Gene Coro7	AW048373, A\ coronin 7	NM_030205.4
19	Gene Vsn	Atia, Slit2, 261vasorin	NM_139307.3
27	Gene Nmr1	Nmr1, A1256 NmrA-like family domain containing 1	NM_026393.1
27	Gene Hmox2	HO-2, Hmox2, heme oxygenase (decycling) 2	NM_010443.2, NM_010443.3
31	Gene Cdip1	Cdip1, 573040 cell death inducing Trp53 target 1	NM_025670.4
42	Gene Gm1091	ENSMUSG000(predicted gene 10914	XR_141300.1, XR_141300.2
42	Gene Ubal1	BC013706, Far UBA-like domain containing 1	NM_145359.2
42	Gene Mgrn1	md, N28182, 2 mahogunin, ring finger 1	NM_001252437.1
24	Gene Anks3	C81345, Anks3 ankyrin repeat and sterile alpha motif domain containing 3	NM_028301.4
24	Gene 4930451	4930451G09Ri RIKEN cDNA 4930451G09 gene	XR_035207.1, XR_035207.2
31	Gene Gyr1	2810419J22Ri glyoxylate reductase 1 homolog (Arabidopsis)	NM_028720.2, NM_028720.3
31	Gene Ubn1	AA673476, A\ ubinuclein 1	NM_026666.3
35	Gene Nagpa	A1596180, Nag N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase 1	NM_013796.3, NR_013796.4
35	Gene AU02109	AU021092 expressed sequence AU021092	NM_001033220.3
35	Gene Alg1	Alg1, HMT1, N asparagine-linked glycosylation 1 (beta-1,4-mannosyltransferase 1)	NM_145362.2
35	Gene Fam86	Fam86, 573041 family with sequence similarity 86	NM_027446.2
23	Gene Tmem18	Tmem186, 281transmembrane protein 186	NM_025708.4
23	Gene Pmm2	Pmm2, A15858 phosphomannomutase 2	NM_016881.2
26	Gene Carhsp1	1200011K09Ri calcium regulated heat stable protein 1	NM_025821.2
26	Gene Gm5767	Gm5767, EG43 predicted gene 5767	XM_622598.5, XM_622598.6
24	Gene Usp7	2210010O09Ri ubiquitin specific peptidase 7	NM_001003918.2
42	Gene 1810013	3010002C02Ri RIKEN cDNA 1810013L24 gene	NM_001081400.3
22	Gene Atf7ip2	MGC6783, PSM activating transcription factor 7 interacting protein 2	NM_153123.2, NM_153123.3
44	Gene Socs1	SOCS-1, Cish7, suppressor of cytokine signaling 1	NM_009896.2
44	Gene Tnp2	TP2, Tp-2, Tnp transition protein 2	NM_013694.4
44	Gene Prm3	Pxg, MGC1072 protamine 3	NM_013638.2
44	Gene Prm2	A1528784, Prm protamine 2	NM_008933.1
26	Gene Rmi2	RMI2, A63005 RMI2, RecQ mediated genome instability 2, homolog 2	NM_001162932.1
37	Gene Litaf	3222402J11Ri LPS-induced TN factor	NM_019980.2
21	Gene Snn	MGC107297, Sstannin	NM_009223.3
21	Gene Txndc11	2810408E11Ri thioredoxin domain containing 11	NM_029582.2, NM_029582.3
24	Gene Rsl1d1	Rsl1d1, C7643 ribosomal L1 domain containing 1	NM_025546.2
24	Gene 2610020	2610020C07Ri RIKEN cDNA 2610020C07 gene	NR_038156.1
38	Gene Gspt1	Gst-1, G1st, A1 G1 to S phase transition 1	NM_146066.2, NM_146066.3
38	Gene Mir1945	mmu-mir-1945 microRNA 1945	NR_035466.1
28	Gene Mkl2	mKIAA1243, E1MKL/myocardin-like 2	NM_181860.1, NM_181860.2
14	Gene Mir193b	Mir193b, Mir1 microRNA 193b	NR_030549.1
14	Gene Mir365	Mir365-1, Mi microRNA 365-1	NR_029855.1
32	Gene Parn	DAN, Parn, 12(poly(A)-specific ribonuclease (deadenylation nuclear))	NM_028761.3

32	Gene Bfar	AI666707, RNF bifunctional apoptosis regulator	NM_001177552.1
32	Gene 3110001	3110001I22Rik RIKEN cDNA 3110001I22 gene	NM_025653.2
29	Gene Rrn3	TIF-1A, Tif1a, RRN3 RNA polymerase I transcription factor homolog	NM_001039521.1
27	Gene Ntan1	Ntan1	NM_010946.3
37	Gene Pdxdc1	Kiaa0251-hp, F pyridoxal-dependent decarboxylase domain containing	NM_053181.2, NM
38	Gene Cebpd	Cebpd CCAAT/enhancer binding protein (C/EBP), delta	NM_007679.4
38	Gene 2310008	2310008H04Ri RIKEN cDNA 2310008H04 gene	NM_146068.3
38	Gene Yars2	2210023C10Ri tyrosyl-tRNA synthetase 2 (mitochondrial)	NR_038046.1, NM
38	Gene Dnm1l	python, AI450t dynamin 1-like	NM_001025947.1
21	Gene Igl1	Igll1, Igl1, Igl-5, immunoglobulin lambda-like polypeptide 1	NM_001190325.1
21	Gene Vpreb1	MGC151428, Vpre-B lymphocyte gene 1	NM_016982.2
21	Gene Top3b	Top3b	NM_011624.2
26	Gene Mapk1	C78273, p41m mitogen-activated protein kinase 1	NM_001038663.1
29	Gene 2610318	2610318N02Ri RIKEN cDNA 2610318N02 gene	NM_183287.2
29	Gene Mir130b	Mir130b, Mir microRNA 130b	NR_029659.1
29	Gene Mir301b	Mir301b, Mir microRNA 301b	NR_030415.1
29	Gene Sdf2l1	Sdf2l1	NM_022324.3
29	Gene Gm6440	Gm6440, EG62 Rps20 pseudogene	
29	Gene Ccdc116	Ccdc116, 4930 coiled-coil domain containing 116	NM_029779.2, NM
27	Gene Ube2l3	MGC118100, Ubiquitin-conjugating enzyme E2L 3	NM_009456.2
27	Gene Rimbp3	RIM-BP3, Gm6 RIMS binding protein 3	NM_001033338.3
25	Gene Hic2	mKIAA1020, H hypermethylated in cancer 2	NM_178922.3
30	Gene Pi4ka	Pi4ka, Pik4ca phosphatidylinositol 4-kinase, catalytic, alpha polypeptide	NM_001001983.2
30	Gene Snap29	AI891940, AUC synaptosomal-associated protein 29	NM_023348.4
23	Gene Crkl	Crkol, 1110025v-crkl sarcoma virus CT10 oncogene homolog (avian)	NM_007764.4
29	Gene Lztr1	AW550890, AI leucine-zipper-like transcriptional regulator, 1	NM_025808.3
29	Gene Thap7	1810004B07Ri THAP domain containing 7	NM_026909.2
24	Gene Smpd4	Smpd4, 41224 sphingomyelin phosphodiesterase 4	NM_029945.3, NM
25	Gene Med15	AW536074, M mediator complex subunit 15	NM_033609.2, NM
31	Gene Klhl22	Klhl22, Kelch1, 2610318I18Rik	NM_145479.4
31	Gene Scarf2	W65560, Scarf scavenger receptor class F, member 2	NM_153790.2
18	Gene B830017	B830017H08Ri RIKEN cDNA B830017H08 gene	NR_027959.1
18	Gene Car15	AI315043, Ca1 carbonic anhydrase 15	NM_030558.2
35	Gene Dgcr2	Idd, 99300340 DiGeorge syndrome critical region gene 2	NM_010048.3, NM
35	Gene Tssk1	TSK-1, Tssk, Ts testis-specific serine kinase 1	NM_009435.2
35	Gene Tssk2	DGS-G, Tssk2, testis-specific serine kinase 2	NM_009436.2
35	Gene Dgcr14	Dgcr14, D16H22 DiGeorge syndrome critical region gene 14	NM_022408.2, NM
24	Gene Slc25a1	AI194714, Dgs solute carrier family 25 (mitochondrial carrier, citrate)	NM_153150.2
21	Gene Zdhhc8	MGC118171, C zinc finger, DHHC domain containing 8	NM_172151.4
43	Gene Ranbp1	Ranbp1, Htf9a RAN binding protein 1	NM_011239.2
43	Gene Trmt2a	Htf9c, Trmt2a TRM2 tRNA methyltransferase 2A	NM_001080999.2
43	Gene Dgcr8	Dgcr8, D16H22 DiGeorge syndrome critical region gene 8	NM_033324.2
23	Gene Mir1306	mmu-mir-1306 microRNA 1306	NR_035467.2
23	Gene Arvcf	Arvcf	NM_033474.2
28	Gene Gnb1l	Wdr14, OTTM guanine nucleotide binding protein (G protein), beta	NM_001081682.1
23	Gene Tbx1	Tbx1	NM_011532.1
23	Gene 4930588	4930588K23Ri RIKEN cDNA 4930588K23 gene	XR_105808.1, XR_

24	Gene Cldn5	MBEC1, Cldn5, claudin 5	NM_013805.4
24	Gene Cdc45	Cdc45, Cdc45l cell division cycle 45	NM_009862.2, NM
31	Gene Mrpl40	Nlvcf, Mrpl40 mitochondrial ribosomal protein L40	NM_010922.2
31	Gene Hira	N28177, Tuple histone cell cycle regulation defective homolog A (S.	NM_010435.2
19	Gene B3gnt5	B3gnt5, beta3(UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyl	NM_054052.3, NM
41	Gene Klhl24	4930429H24Rik, 6530402O20Rik, 1110046J11Rik, C85082, Klhl24	NM_029436.3
33	Gene Yeats2	BC042768, mKYEATS domain containing 2	NM_001145930.1,
34	Gene Parl	Psarl, Parl, PSA presenilin associated, rhomboid-like	NM_001005767.4
34	Gene Cyp2ab1	Cyp2ab1, EG2; cytochrome P450, family 2, subfamily ab, polypeptic	NM_183158.3
22	Gene Abcc5	Abcc5b, Abcc5 ATP-binding cassette, sub-family C (CFTR/MRP), mer	NM_013790.2, NM
24	Gene Eif2b5	Eif2b5, C81315; eukaryotic translation initiation factor 2B, subunit 5	NM_172265.2
24	Gene Gm1661	Gm16618 predicted gene, 16618	XR_105763.2, XR_
24	Gene Dvl3	Dvl3	NM_007889.2
28	Gene Alg3	Alg3, D16Ertde; asparagine-linked glycosylation 3 (alpha-1,3-manno:	NM_145939.2
28	Gene Ece2	MGC144385, E endothelin converting enzyme 2	NM_025462.2, NM
28	Gene Camk2n	2900075A18Ri calcium/calmodulin-dependent protein kinase II inh	NM_028420.2
19	Gene Psmd2	Tex190, Psmd; proteasome (prosome, macropain) 26S subunit, non	NM_134101.2, NR
19	Gene Eif4g1	MGC37551, Eil eukaryotic translation initiation factor 4, gamma 1	NM_145941.2, NM
19	Gene Fam131a	Fam131a, 290i family with sequence similarity 131, member A	NM_133778.2
24	Gene Clcn2	CIC-2, Clc2, nrr chloride channel 2	NM_009900.2
24	Gene Polr2h	Polr2h, MGC1i (polymerase (RNA) II (DNA directed) polypeptide H	NM_145632.2
24	Gene Thpo	Tpo3, Tpo2, TF thrombopoietin	NM_009379.3, NM
19	Gene Chrd	Chd, Chrd chordin	NM_009893.2
31	Gene 2510009	2510009E07Ri RIKEN cDNA 2510009E07 gene	NM_001001881.2
18	Gene Tmem41	5730578N08Ri transmembrane protein 41a	NM_025693.4, NR
18	Gene Liph	lpd2, P3, D16V lipase, member H	NM_001083894.1,
29	Gene Igf2bp2	IMP-2, C33001 insulin-like growth factor 2 mRNA binding protein 2	NM_183029.2
30	Gene Tra2b	SIG-41, Sfrs10, transformer 2 beta homolog (Drosophila)	NM_009186.4
26	Gene Etv5	1110005E01Ri ets variant gene 5	NM_023794.2
35	Gene Eif4a2	BM-010, Eif4, eukaryotic translation initiation factor 4A2	NM_013506.2, NM
35	Gene Snord2	Snord2 small nucleolar RNA, C/D box 2	NR_030705.1
35	Gene Snora81	Snora81, MBI-i small nucleolar RNA, H/ACA box 81	NR_034048.1
35	Gene Rfc4	AI894123, A1, replication factor C (activator 1) 4	NM_145480.1
16	Gene Bcl6	Bcl6, Bcl5 B cell leukemia/lymphoma 6	NM_009744.3
30	Gene Leprel1	AW553532, Le leprecan-like 1	NM_173379.2
19	Gene Ccdc50	Ccdc50, AW04 coiled-coil domain containing 50	NM_026202.3, NM
22	Gene Fgf12	Fhf1, Fgf12, A\ fibroblast growth factor 12	NM_010199.2, NM
24	Gene Mb21d2	A430031N04, i Mab-21 domain containing 2	NM_177718.3
22	Gene 4632428	Gm4231, 4632 RIKEN cDNA 4632428C04 gene	NR_033631.1
30	Gene Hes1	Hes1, bHLHb3! hairy and enhancer of split 1 (Drosophila)	NM_008235.2
26	Gene Atp13a3	AU022875, At; ATPase type 13A3	NM_001128094.1
25	Gene Fam43a	Fam43a, Tuf1 family with sequence similarity 43, member A	NM_177632.3
39	Gene Acap2	9530039J15Ril ArfGAP with coiled-coil, ankyrin repeat and PH dom:	NM_030138.2
16	Gene Ppp1r2	D16Ertde248e, protein phosphatase 1, regulatory (inhibitor) subuni	NM_025800.3
29	Gene Bdh1	2310032J20Ril 3-hydroxybutyrate dehydrogenase, type 1	NM_175177.4, NM
37	Gene Pigz	F630022B06Ri phosphatidylinositol glycan anchor biosynthesis, cla:	NM_172822.3
37	Gene 0610012	0610012G03Ri RIKEN cDNA 0610012G03 gene	NR_027897.1

37	Gene Ncbp2	20kDa, 593041 nuclear cap binding protein subunit 2	NM_026554.4
21	Gene Senp5	SMT3IP3, DKF7SUMO/sentrin specific peptidase 5	NM_177103.4
35	Gene Ubxn7	Ubx7, A63001 UBX domain protein 7	NM_177633.4
21	Gene Tctex1d2	Tctex1d2, O611 Tctex1 domain containing 2	NM_025329.3
21	Gene Pcyt1a	Cctalpha, Pcyt: phosphate cytidyltransferase 1, choline, alpha isoform	NM_009981.4, NM
30	Gene Tfrc	TFR1, CD71, E4 transferrin receptor	NM_011638.4
20	Gene Tnk2	AW552477, A tyrosine kinase, non-receptor, 2	NM_016788.3, NM
33	Gene 1700021	mKIAA0226, 1 RIKEN cDNA 1700021K19 gene	NM_172615.4, NM
33	Gene Fytd1	AI098218, AW forty-two-three domain containing 1	NM_027226.4, NM
25	Gene Lrch3	2210409B11Ri leucine-rich repeats and calponin homology (CH) domain	NM_001081255.1
25	Gene Gm6611	Gm6611, EG62 predicted gene 6611	
32	Gene Iqcg	2400003L07Ri IQ motif containing G	NM_178378.3
32	Gene Rpl35a	Rpl35a, Rpl35, ribosomal protein L35A	NM_021338.3, NM
32	Gene Lmln	5330415H22Ri leishmanolysin-like (metallopeptidase M8 family)	NM_172823.2
31	Gene Osbpl11	9430097N02Ri oxysterol binding protein-like 11	NM_176840.3
31	Gene Snx4	Snx4, AI037061 sorting nexin 4	NM_080557.2
23	Gene 1700007	1700007L15Ri RIKEN cDNA 1700007L15 gene	NR_045709.1
23	Gene Zfp148	ZBP-89, BERF-1 zinc finger protein 148	NM_011749.4
27	Gene Heg1	OTTMUSG0001 HEG homolog 1 (zebrafish)	NM_175256.5
21	Gene Umps	AA408257, AL uridine monophosphate synthetase	NM_009471.2
21	Gene Kalrn	Hapip, 221040 kalirin, RhoGEF kinase	NM_001164268.1
18	Gene Mylk	Mylk, A930015 myosin, light polypeptide kinase	NM_139300.3
25	Gene Ptplb	AI255777, Ptpl protein tyrosine phosphatase-like (proline instead of	NM_023587.2
29	Gene Adcy5	AW121902, Adenylate cyclase 5	NM_001012765.4
22	Gene Sec22a	1810005C06Ri SEC22 vesicle trafficking protein homolog A (S. cerevisiae)	NM_133704.4
30	Gene Pdia5	Pdia5, 270005 protein disulfide isomerase associated 5	NM_028295.1
31	Gene Sema5b	mKIAA1445, Sema domain, seven thrombospondin repeats (type 5)	NM_013661.2
27	Gene Dirc2	Dirc2, RCC4, M disrupted in renal carcinoma 2 (human)	NM_153550.3
27	Gene Hspbap1	Hspbap1, 383C Hspb associated protein 1	NM_175111.3
34	Gene Fam162	2310056P07Ri family with sequence similarity 162, member A	NM_027342.1
34	Gene Ccdc58	AI413631, A93 coiled-coil domain containing 58	NM_198645.2, NM
21	Gene Fstl1	Fstl1, TSC-36, follistatin-like 1	NM_008047.5
37	Gene Lrrc58	Lrrc58, 181001 leucine rich repeat containing 58	NM_177093.3
38	Gene BC031361	BC031361 cDNA sequence BC031361	NR_033221.1
38	Gene Gsk3b	Gsk3b, GSK-3b glycogen synthase kinase 3 beta	NM_019827.6
24	Gene Adprh	Adprh, Arh1 ADP-ribosylarginine hydrolase	NM_007414.3
24	Gene Cd80	MIC17, B7-1, CD80 antigen	NM_009855.2
19	Gene Poglut1	Rumi, 9630046 protein O-glucosyltransferase 1	NM_172380.3
19	Gene Tmem39	Tmem39a, 261 transmembrane protein 39a	NM_026407.3, NM
20	Gene Arhgap3	5830477L08Ri Rho GTPase activating protein 31	NM_020260.2
16	Gene B4galt4	beta4GalT-IV, UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, 4	NM_019804.3
27	Gene Zdhhc23	Gm1751, Zdhh zinc finger, DHHC domain containing 23	NM_001007460.1
27	Gene Gramd1	4921521N14Ri GRAM domain containing 1C	NM_001172107.1
27	Gene Atp6v1a	VA68, AI64706 ATPase, H+ transporting, lysosomal V1 subunit A	NM_007508.5
27	Gene Naa50	Nat13, San, 28 N(alpha)-acetyltransferase 50, NatE catalytic subunit	NM_028108.3
19	Gene Gm608	5530400K22Ri predicted gene 608	NM_001029889.2
23	Gene Spice1	D16Etd480e, spindle and centriole associated protein 1	NM_144550.4

27	Gene Boc	4732455C11, Ebiregional cell adhesion molecule-related/down-reg	NM_172506.2
27	Gene Mir3081	mmu-mir-3081 microRNA 3081	NR_037242.1
28	Gene BC027231	BC027231, Ne cDNA sequence BC027231	NM_145972.4
25	Gene Slc35a5	BB097433, Slc: solute carrier family 35, member A5	NM_028756.4
25	Gene Atg3	Apg3l, PC3-96, autophagy related 3	NM_026402.3
19	Gene Cd200	Mox2, OX2, Cd CD200 antigen	NM_010818.3
19	Gene Gm609	Gm1749, Gm6 predicted gene 609	NM_001005854.2
19	Gene Pvrl3	Pvrl3, AA4077: poliovirus receptor-related 3	NM_021497.2, NM
27	Gene Dzip3	2A-HUB, 2310(DAZ interacting protein 3, zinc finger	NM_027341.2, NM
27	Gene C330027	AA408511, Kia RIKEN cDNA C330027C09 gene	NM_172616.2
26	Gene lft57	lft57, Hippi, Es intraflagellar transport 57	NM_028680.3
25	Gene Cd47	AA407862, IAF CD47 antigen (Rh-related antigen, integrin-associated	NM_010581.3
23	Gene Bbx	5730403O13Ri bobby sox homolog (Drosophila)	NM_027444.3
24	Gene G730013	G730013B05Ri RIKEN cDNA G730013B05 gene	NR_040379.1, NR_
33	Gene Cblb	Cbl-b, Cblb, Al Casitas B-lineage lymphoma b	NM_001033238.1
37	Gene Nfkbiz	INAP, AA4088: nuclear factor of kappa light polypeptide gene enha	NM_030612.3, NM
52	Gene Gm6958	Gm6958 predicted gene 6958	XM_001479180.1,
52	Gene Rpl24	0610008L05Ri ribosomal protein L24	NM_024218.4
52	Gene 2310061	2310061J03Ri RIKEN cDNA 2310061J03 gene	NR_027965.1
52	Gene Zbtb11	Zbtb11, 92301 zinc finger and BTB domain containing 11	NM_173026.2
29	Gene Pcpn	1110018D06Ri PEST proteolytic signal containing nuclear protein	NM_001024622.2
29	Gene Trmt10c	1300018J16Ri tRNA methyltransferase 10C	NM_029092.3
37	Gene Tomm70	Tom70, D16lu translocase of outer mitochondrial membrane 70 hc	NM_138599.5
39	Gene Nit2	Nit2, 1190017I nitrilase family, member 2	NM_023175.1
39	Gene Gm1689	Gm1689 predicted gene, 16892	XR_106988.1, XR_
39	Gene Tbc1d23	AU043671, 49: TBC1 domain family, member 23	NM_026254.2
23	Gene Dcbld2	AW146002, Es discoidin, CUB and LCCL domain containing 2	NM_028523.3
31	Gene St3gal6	AI930218, St3: ST3 beta-galactoside alpha-2,3-sialyltransferase 6	NM_018784.2
22	Gene Cpox	Cpox, Cpo, HCl coproporphyrinogen oxidase	NM_007757.2
24	Gene 4930453	4930453N24Ri RIKEN cDNA 4930453N24 gene	NM_026273.2
24	Gene Zfp654	Zfp654, 18100 zinc finger protein 654	NM_028059.2
23	Gene LOC100861916	zinc finger protein 292-like	XM_003688940.1,
23	Gene Cggbp1	AA960172, AL(CGG triplet repeat binding protein 1	NM_178647.2
20	Gene Chmp2b	Chmp2b, 1190 charged multivesicular body protein 2B	NM_026879.2
20	Gene Vgll3	1700110N18Ri vestigial like 3 (Drosophila)	NM_028572.1
18	Gene Gbe1	2810426P10Ri glucan (1,4-alpha-), branching enzyme 1	NM_028803.3
22	Gene Robo1	AW494633, Rc roundabout homolog 1 (Drosophila)	NM_019413.2
23	Gene Nrip1	Nrip1, RIP140, nuclear receptor interacting protein 1	NM_173440.2
21	Gene Cxadr	CAR, MCVADR coxsackie virus and adenovirus receptor	NM_009988.3, NM
29	Gene Btg3	ANA, Btg3, tob B cell translocation gene 3	NM_009770.2
28	Gene D16Ert	1700010I10Ri DNA segment, Chr 16, ERATO Doi 472, expressed	NM_001252438.1
25	Gene Mrpl39	C21orf8, Rplm: mitochondrial ribosomal protein L39	NM_017404.4
28	Gene Jam2	JAM-2, 24101: junction adhesion molecule 2	NM_023844.5
28	Gene Atp5j	Atp5j ATP synthase, H+ transporting, mitochondrial F0 cor	NM_016755.2
28	Gene Gabpa	GABPalpha, G: GA repeat binding protein, alpha	NM_008065.2
42	Gene App	Abeta, Ag, Ada amyloid beta (A4) precursor protein	NM_001198823.1
35	Gene Adamts1	METH-1, MET: a disintegrin-like and metallopeptidase (reprolysin t	NM_009621.4

28	Gene Adamts5	ASMP-2, 95300a	disintegrin-like and metallopeptidase (reprolysin t	NM_011782.2
26	Gene Usp16	Usp16, 120000	ubiquitin specific peptidase 16	NM_024258.2
40	Gene Cct8	Cctq, A132397	chaperonin containing Tcp1, subunit 8 (theta)	NM_009840.3
40	Gene B130034	B130034C11Ri	RIKEN cDNA B130034C11 gene	NR_040375.1
26	Gene Bach1	6230421P05Ri	BTB and CNC homology 1	NM_007520.2
26	Gene Gm1078	ENSMUSG000	predicted gene 10789	NR_033476.1
29	Gene Sod1	Ipo1, Sod-1, Sc	superoxide dismutase 1, soluble	NM_011434.1
38	Gene Scaf4	AA517739, Sra	SR-related CTD-associated factor 4	NM_178923.3
21	Gene Hunk	Bstk1, Hunk, N	hormonally upregulated Neu-associated kinase	NM_015755.2
28	Gene Urb1	5730405K23Ri	URB1 ribosome biogenesis 1 homolog (<i>S. cerevisiae</i>)	NM_029497.1
30	Gene 1110004	1110004E09Rik		NM_026502.2
30	Gene Synj1	A930006D20Ri	synaptojanin 1	NM_001045515.1
30	Gene 4930404	4930404I05Rik	RIKEN cDNA 4930404I05 gene	NR_028368.1
30	Gene Paxbp1	Gcfc, C21orf66	PAX3 and PAX7 binding protein 1	NM_026110.2
18	Gene Olig2	RK17, Bhlhb1,	oligodendrocyte transcription factor 2	NM_016967.2
34	Gene Ifnar2	A1747302, Ifna	interferon (alpha and beta) receptor 2	NM_001110498.1
20	Gene Il10rb	CRF2-4, IL-10R	interleukin 10 receptor, beta	NM_008349.5
27	Gene Ifngr2	Ifngr2, Ifg	interferon gamma receptor 2	NM_008338.3
23	Gene Tmem50	B230114J08Ri	transmembrane protein 50B	NM_030018.3
33	Gene Gart	Prgs, Gaps, Ga	phosphoribosylglycinamide formyltransferase	NM_010256.2
33	Gene Son	AA409051, 29	Son DNA binding protein	NM_178880.4, NM
17	Gene Donson	A1845729, ORF	downstream neighbor of SON	NM_021720.1
17	Gene Gm1078	Gm10785, ENS	predicted gene 10785	NR_040389.1
17	Gene Cryz1	Cryz1, 241000	crystallin, zeta (quinone reductase)-like 1	NM_133679.2, NM
43	Gene Slc5a3	Slc5a3, AA623	solute carrier family 5 (inositol transporters), memb	NM_017391.3
43	Gene Mrps6	AW046321, M	mitochondrial ribosomal protein S6	NM_080456.1
22	Gene Rcan1	Rcan1, RCN1,	regulator of calcineurin 1	NM_019466.3, NM
21	Gene Runx1	Pebpa2b, A146	runt related transcription factor 1	NM_009821.2, NM
26	Gene Dopey2	C21orf5, A150	dopey family member 2	NM_026700.2, NM
25	Gene Morc3	1110051N18Ri	microrchidia 3	NM_001045529.3
22	Gene Chaf1b	CAF1P60, MPF	chromatin assembly factor 1, subunit B (p60)	NM_028083.4
18	Gene Sim2	Sim2, bHLHe1	single-minded homolog 2 (<i>Drosophila</i>)	NM_011377.2
31	Gene Pigp	Dscr5, Pigp, Dc	phosphatidylinositol glycan anchor biosynthesis, cla	NM_019543.3, NM
31	Gene Ttc3	Ttc3, KIAA411	tetratricopeptide repeat domain 3	NM_009441.2
21	Gene Dyrk1a	Dyrk, ENSMUS	dual-specificity tyrosine-(Y)-phosphorylation regulat	NM_007890.2, NM
34	Gene Ets2	AU022856, Ets	E26 avian leukemia oncogene 2, 3' domain	NM_011809.3
38	Gene Brwd1	Brwd1, D5300	bromodomain and WD repeat domain containing 1	NM_145125.3, NM
38	Gene 1700093	1700093J21Ri	RIKEN cDNA 1700093J21 gene	XR_141303.1, XR_
29	Gene Hmgn1	Hmgn1, MGC1	high mobility group nucleosomal binding domain 1	NM_008251.3
22	Gene Wrb	5530402J05Ri	tryptophan rich basic protein	NM_207301.2
36	Gene Lca5l	Lca5l, 492152	Leber congenital amaurosis 5-like	NM_001001492.2
36	Gene Sh3bgr	5430437A18Ri	SH3-binding domain glutamic acid-rich protein	NM_015825.2
21	Gene Bace2	ARP1, CDA13,	beta-site APP-cleaving enzyme 2	NM_019517.4
22	Gene Prdm15	Zfp298, Prdm1	PR domain containing 15	NM_144789.2
25	Gene C2cd2	5730563M15,	C2 calcium-dependent domain containing 2	NM_174847.2
23	Gene A230045	A230045G11R	RIKEN cDNA A230045G11 gene	XR_105811.2
23	Gene Scaf8	Rbm16, A1448	SR-related CTD-associated factor 8	NM_134123.3

24	Gene Arid1b	Ardi1b, mKIAA AT rich interactive domain 1B (SWI-like)	NM_001085355.1
35	Gene LOC101055715	uncharacterized LOC101055715	XM_003945565.1
35	Gene Zdhhc14	Zdhhc14, MGC zinc finger, DHHC domain containing 14	NM_146073.3
21	Gene Snx9	SH3PX1, Snx9, sorting nexin 9	NM_025664.5
29	Gene Synj2	AI481647, SJ2, synaptojanin 2	NM_011523.2, NM
29	Gene Serac1	4930511N22Ri serine active site containing 1	NM_177311.4, NM
29	Gene Gtf2h5	2810432H05Ri general transcription factor IIH, polypeptide 5	NM_181392.3
27	Gene Ezr	MGC107499, Fezrin	NM_009510.2
30	Gene Mpc1	MGC117549, 3830411118Rik, MPC1, Brp44l, 0610006G08Rik, Mpc1	NM_018819.4
31	Gene 4930506	4930506C21Ri RIKEN cDNA 4930506C21 gene	XR_168553.1, XR_
31	Gene Sft2d1	Sft2d1, AA409 SFT2 domain containing 1	NM_134114.2
18	Gene Prr18	Prr18, 963001 proline rich region 18	NM_178774.4, NR
37	Gene Qk	l17Wis1, 1500 quaking	NM_021881.2, NM
37	Gene LOC101055707	uncharacterized LOC101055707	XM_003945568.1
37	Gene B930003	B930003M22R RIKEN cDNA B930003M22 gene	NR_037588.1
37	Gene 1700110	1700110C19Ri RIKEN cDNA 1700110C19 gene	NR_045461.1
25	Gene Igf2r	CD222, Mpr30 insulin-like growth factor 2 receptor	NM_010515.2
25	Gene Airn	AI256653, 281 antisense Igf2r RNA	NR_027772.1, NR_
33	Gene Pnlc1	FLJ35820, Pnlc poly(A)-specific ribonuclease (PARN)-like domain co	NM_001034866.1
33	Gene Mrpl18	Mrpl18, 10100 mitochondrial ribosomal protein L18	NM_026310.3
33	Gene Tcp1	Tp63, AI52877 t-complex protein 1	NM_013686.3
33	Gene Snora20	MBI-125, Snor small nucleolar RNA, H/ACA box 20	NR_028479.1
33	Gene Acat3	ACTL, Acat3 acetyl-Coenzyme A acetyltransferase 3	NM_153151.3
27	Gene Acat2	Acat2, AW742 acetyl-Coenzyme A acetyltransferase 2	NM_009338.3
27	Gene Gm1594	Gm15946, OT predicted gene 15946	XM_003086038.1,
32	Gene Wtap	9430038B09Ri Wilms' tumour 1-associating protein	NM_175394.2, NM
32	Gene Sod2	Sod2, MnSOD, superoxide dismutase 2, mitochondrial	NM_013671.3
32	Gene Tcte2	Tcte2, AI4292 t-complex-associated testis expressed 2	NM_022311.2
32	Gene Mllt4	5033403D15Ri myeloid/lymphoid or mixed-lineage leukemia (trithc	NM_010806.1
39	Gene Smoc2	1700056C05Ri SPARC related modular calcium binding 2	NM_022315.2
28	Gene Wdr27	Wdr27, 06100 WD repeat domain 27	NM_175173.3
28	Gene 1600012	1600012H06Ri RIKEN cDNA 1600012H06 gene	NM_001083881.1
28	Gene Phf10	1810055P05Ri PHD finger protein 10	NM_024250.4
28	Gene LOC106740	uncharacterized LOC106740	NR_027905.1
20	Gene Dll1	Delta1, Dll1 delta-like 1 (Drosophila)	NM_007865.3
22	Gene Psmb1	C81484, AA40 proteasome (prosome, macropain) subunit, beta type	NM_011185.3
24	Gene Tbp	GTF2D1, TFIID, TATA box binding protein	NM_013684.3
24	Gene Pdcd2	RP-8, Pdcd2, A programmed cell death 2	NM_008799.2
24	Gene 5830433	5830433I10Rik RIKEN cDNA 5830433I10 gene	XM_003945578.1
24	Gene Chd1	4930525N21Ri chromodomain helicase DNA binding protein 1	NM_007690.3
26	Gene Rgmb	DRAGON, Rgm RGM domain family, member B	NM_178615.3
31	Gene Lnpep	gp160, 20103C leucyl/cystinyl aminopeptidase	NM_172827.3
23	Gene Casp16	Casp14l, EG38 caspase 16, apoptosis-related cysteine peptidase	XM_003945579.1,
23	Gene Zfp213	Zfp213, D17Eri zinc finger protein 213	NM_001033496.3
28	Gene 1520401	1520401A03Ri RIKEN cDNA 1520401A03 gene	XM_003085154.2
28	Gene Pkmyt1	6230424P17, P protein kinase, membrane associated tyrosine/thre	NM_023058.3
28	Gene Paqr4	Paqr4, 150000 progesterin and adipoQ receptor family member IV	NM_023824.3

26	Gene Kremen2	2900054E04Ri	kringle containing transmembrane protein 2	NM_028416.2
26	Gene 9530082	E030034P13Ri	RIKEN cDNA 9530082P21 gene	NR_015472.1
22	Gene Flywch1	E030034P13Ri	FLYWCH-type zinc finger 1	NM_153791.2
22	Gene Flywch2	AW548203,	28 FLYWCH family member 2	NM_029798.3
20	Gene Srrm2	AA410130,	50: serine/arginine repetitive matrix 2	NM_175229.3
20	Gene Mir5125	mmu-mir-5125	microRNA 5125	NR_039586.1
20	Gene Tceb2	0610040H15Ri	transcription elongation factor B (SIII), polypeptide 2	NM_026305.2
20	Gene Prss33	MGC123869,	1: protease, serine, 33	NM_001081399.2
20	Gene Prss41	Tessp-1,	49314: protease, serine, 41	NM_027644.1
19	Gene Kctd5	mKIAA0176,	2: potassium channel tetramerisation domain containi	NM_027008.2
38	Gene Pdpk1	Pdpk1,	Pdk1 3-phosphoinositide dependent protein kinase 1	NM_001080773.1
31	Gene Amdhd2	5730457F11Ri	amidohydrolase domain containing 2	NM_172935.4
31	Gene Atp6v0c	Atpl,	Atpl-rs1, ATPase, H+ transporting, lysosomal V0 subunit C	NM_009729.3
32	Gene Tbc1d24	C530046L02Ri	TBC1 domain family, member 24	NM_001163847.1,
32	Gene Ntn3	Ntn3,	Ntn2| netrin 3	NM_010947.3
32	Gene 1600002	1600002H07Ri	RIKEN cDNA 1600002H07 gene	NM_028056.1
25	Gene Ccnf	CycF,	Ccnf, Fbx cyclin F	NM_007634.4
23	Gene Abca17	Abca17	ATP-binding cassette, sub-family A (ABC1), member	NM_001031621.2
69	Gene Abca3	MGC90532,	A: ATP-binding cassette, sub-family A (ABC1), member	NM_013855.2, NM
69	Gene D330041	D330041H03R	RIKEN cDNA D330041H03 gene	NR_033554.1
69	Gene Rnps1	Rnps1	ribonucleic acid binding protein S1	NM_001080127.1,
50	Gene Pgp	Pgp,	AI481330 phosphoglycolate phosphatase	NM_025954.3
50	Gene Mlst8	AI505104,	AA4 MTOR associated protein, LST8 homolog (S. cerevisi	NM_001252463.1
50	Gene Bricd5	Bricd5,	993002: BRICHOS domain containing 5	NM_175682.3
36	Gene Caskin1	mKIAA1306,	C CASK interacting protein 1	NM_027937.2
31	Gene Pkd1	PC1,	FLJ00285, polycystic kidney disease 1 homolog	NM_013630.2
27	Gene Tsc2	Nafld,	Tsc2, Tc tuberous sclerosis 2	NM_011647.2, NM
27	Gene Nthl1	Octs3,	Nthl1, Nth (endonuclease III)-like 1 (E.coli)	NM_008743.2
27	Gene Slc9a3r2	2010007A20Ri	solute carrier family 9 (sodium/hydrogen exchanger	NM_023449.3, NM
22	Gene Npw	Npw,	Gm935 neuropeptide W	NM_001099664.1
33	Gene Zfp598	Ntrap,	Znf598, zinc finger protein 598	NM_183149.1
27	Gene Syngr3	Syng3		NM_011522.3
27	Gene Gfer	Alr,	ERV1, Gfer growth factor, erv1 (S. cerevisiae)-like (augm	NM_023040.3
27	Gene Noxo1	Snx28,	Noxo1, NADPH oxidase organizer 1	NM_027988.4
27	Gene Tbl3	9430070M15R	transducin (beta)-like 3	NM_145396.4
49	Gene Rnf151	Rnf151,	17000 ring finger protein 151	NM_026205.3
49	Gene Snhg9	1700072N11Ri	small nucleolar RNA host gene (non-protein coding)	NR_027900.2
49	Gene Snora78	Snora78,	ACA: small nucleolar RNA, H/ACA box 7	NR_028515.1
49	Gene Rps2	MGC118037,	L ribosomal protein S2	NM_008503.5
49	Gene Snora64	MBI-29,	Rnu64 small nucleolar RNA, H/ACA box 64	NR_002897.1
49	Gene Ndufb1C	PDSW,	Ndufb1 NADH dehydrogenase (ubiquinone) 1 beta subcomp	NM_026684.2
49	Gene Rpl3l	1110057H16Ri	ribosomal protein L3-like	NM_001163945.1,
26	Gene Igfals	KIAA4111,	Alb: insulin-like growth factor binding protein, acid labile	NM_008340.3
30	Gene Nubp2	Nubp2,	D17W: nucleotide binding protein 2	NM_011956.3
30	Gene Spsb3	SSB3,	3300001 splA/ryanodine receptor domain and SOCS box cont	NM_027141.2, NM
30	Gene Eme2	2810013J18Ri	essential meiotic endonuclease 1 homolog 2 (S. pom	NM_001163102.1
30	Gene Mrps34	Tce2,	5330430 mitochondrial ribosomal protein S34	NM_023260.1

30	Gene Nme3	AI413736, Nm	NME/NM23 nucleoside diphosphate kinase 3	NM_019730.2
30	Gene Mapk8ip	JSAP1a, JSAP1	mitogen-activated protein kinase 8 interacting prote	NM_013931.4, NM
33	Gene Hn1l	C16orf34, ALO	hematological and neurological expressed 1-like	NM_198937.2
33	Gene Cramp1l	5830477H08Ri	Crm, cramped-like (Drosophila)	NM_020608.3
28	Gene Ift140	Tce5, mKIAA0590, Ift140, Wdte2, AI661311, MGC170632		NM_134126.3
29	Gene Ptx4	Ptx4, 1110018	pentraxin 4	NM_026747.1, NM
29	Gene Clcn7	AA409691, AV	chloride channel 7	NM_011930.3
29	Gene BC00396	BC003965, Ccs	cDNA sequence BC003965	NM_183150.2
29	Gene Unkl	1300004G08Ri	unkempt-like (Drosophila)	NM_028789.3, NM
29	Gene Gnptg	Tce7, 6430527	N-acetylglucosamine-1-phosphotransferase, gamma	NM_172529.3
29	Gene Tsr3	MGC113771, 1TSR3	20S rRNA accumulation	NM_026676.3, NM
29	Gene Baiap3	Baiap3, Bap3, BAI1	-associated protein 3	NM_001163270.1
35	Gene Ube2i	Ube2i, UBC9, U	ubiquitin-conjugating enzyme E2I	NM_001177609.1
35	Gene Gm1780	Gm17801	predicted gene, 17801	NR_027452.1
27	Gene Cacna1h	alpha13.2, MN	calcium channel, voltage-dependent, T type, alpha 1	NM_021415.4, NM
38	Gene Sox8	Sox8	SRY-box containing gene 8	NM_011447.3
38	Gene 2810468	2810468N07Ri	RIKEN cDNA 2810468N07 gene	NR_045176.1
38	Gene Lmf1	Lmf1, Tmem11	lipase maturation factor 1	NM_029624.4, NR
31	Gene Fbxl16	BC042620, Fbx	F-box and leucine-rich repeat protein 16	NM_001164225.1
31	Gene Wdr24	BC037651, MCWD	repeat domain 24	NM_173741.3
31	Gene Jmjd8	Jmjd8, 261000	jumonji domain containing 8	NM_028101.4
31	Gene Stub1	2310040B03Ri	STIP1 homology and U-Box containing protein 1	NM_019719.3
38	Gene Rhbdl1	Rhbdl, Rhbdl1, rhomboid, veinlet-like 1 (Drosophila)		NM_144816.1
38	Gene Rhot2	Miro2, Arht2, Iras	homolog gene family, member T2	NM_145999.2
38	Gene Wdr90	AI551153, 323	WD repeat domain 90	NM_001163766.1
37	Gene Fam195	9530058B02Ri	family with sequence similarity 195, member A	NM_026633.3
37	Gene 0610011	0610011F06Ri	RIKEN cDNA 0610011F06 gene	NM_026686.2
37	Gene Wfikkn1	Wfikkn1, Wfikl	WAP, FS, Ig, KU, and NTR-containing protein 1	NM_001100454.1
28	Gene Rab40c	Rab40c, RAR3	Rab40c, member RAS oncogene family	NM_139154.2
24	Gene Pigq	Gpi1h, Gpi1, G	phosphatidylinositol glycan anchor biosynthesis, cla	NM_011822.3
37	Gene 1700022	1700022N22Ri	RIKEN cDNA 1700022N22 gene	XR_107052.1, XR_
37	Gene Rab11fip	MGC47508, m	RAB11 family interacting protein 3 (class II)	NM_153140.2, NM
19	Gene Decr2	Decr2	2-4-dienoyl-Coenzyme A reductase 2, peroxisomal	NM_011933.2
19	Gene Nme4	2610027N22Ri	NME/NM23 nucleoside diphosphate kinase 4	NM_019731.1
19	Gene Gm8186	Gm8186, EG6	small nuclear ribonucleoprotein polypeptide G pseudogene	
44	Gene Itfg3	AI429612, Itfg	integrin alpha FG-GAP repeat containing 3	NM_207217.4, NM
44	Gene Luc7l	Luc7l, 241001	Luc7 homolog (S. cerevisiae)-like	NM_028190.3, NM
20	Gene Neurl1b	MGC183777, N	neuralized homolog 1b (Drosophila)	NM_001081656.2
38	Gene Dusp1	MKP1, erp, Ptp	dual specificity phosphatase 1	NM_013642.3
26	Gene Ergic1	1200007D18Ri	endoplasmic reticulum-golgi intermediate compartn	NM_026170.3
30	Gene Atp6v0e	Atp6k, M9.2, A	ATPase, H+ transporting, lysosomal V0 subunit E	NM_025272.2
32	Gene Crebrf	Crebrf, A930001N09Rik, LRF		NM_029870.2
22	Gene Nkx2-5	Csx, Nkx-2.5, ti	NK2 transcription factor related, locus 5 (Drosophila	NM_008700.2
27	Gene Kifc5b	HSET, Kifc5b, Kifc5a, KNSL2, Kifc1, MGC76666, Hset		NM_053173.2
27	Gene Phf1	PHF2, Phf1, AV	PHD finger protein 1	NM_009343.2
27	Gene Cuta	AI326454, 181	cutA divalent cation tolerance homolog (E. coli)	NM_026307.2, NM
27	Gene Syngap1	Syngap, Synga	synaptic Ras GTPase activating protein 1 homolog (r	XM_915205.3, XM

25	Gene Zbtb9	Zbtb9, 393040 zinc finger and BTB domain containing 9	NM_001005916.2
18	Gene Grm4	Gprc1d, Grm4, glutamate receptor, metabotropic 4	NM_001013385.1
23	Gene Hmga1	AL023995, Hm high mobility group AT-hook 1	NM_001166539.1,
23	Gene AI41358	MGC41609, AI expressed sequence AI413582	NM_001002895.2
28	Gene Nudt3	Dipp, 1110011 nudix (nucleotide diphosphate linked moiety X)-type	NM_019837.2
44	Gene Rps10	2210402A09Ri ribosomal protein S10	NM_025963.3
25	Gene D17Wsu	C80239, C030C DNA segment, Chr 17, Wayne State University 92, e	NM_001033279.2,
37	Gene Snrpc	U1C, U1-C, Snr U1 small nuclear ribonucleoprotein C	NM_011432.2
37	Gene Uhrf1bp	mKIAA4127, KI UHRF1 (ICBP90) binding protein 1	NM_001080769.1
35	Gene Taf11	28kDa, PRO21.TAF11 RNA polymerase II, TATA box binding protein	NM_026836.2
35	Gene Anks1	Anks1, mKIAA(ankyrin repeat and SAM domain containing 1	NM_181413.3
24	Gene Scube3	Scube3, D030C signal peptide, CUB domain, EGF-like 3	NM_001004366.1
24	Gene C230013	C230013L11Ri RIKEN cDNA C230013L11 gene	XR_140415.2, XR_
24	Gene Zfp523	BC025615, Znf zinc finger protein 523	NM_172617.3
53	Gene Fance	Fance, 281045 Fanconi anemia, complementation group E	NM_001163819.1
53	Gene Rpl10a	CsA-19, Rpl10a ribosomal protein L10A	NM_011287.2
53	Gene Tead3	ETFR-1, Tead3, TEA domain family member 3	NM_001098226.3
29	Gene Tulp1	Tulp1, Tulp1 tubby like protein 1	NM_021478.1
23	Gene Fkbp5	Dit1, FKBP-5, 5 FK506 binding protein 5	NM_010220.3
27	Gene LOC100862287	uncharacterized LOC100862287	XR_140416.1, XR_
27	Gene E230001	E230001N04Ri RIKEN cDNA E230001N04 gene	XR_105891.3, XR_
27	Gene Armc12	Armc12, AV04 armadillo repeat containing 12	NM_026290.3
25	Gene Srpk1	AU017960, Srp serine/arginine-rich protein specific kinase 1	NM_016795.3
37	Gene Slc26a8	MGC38861, Slc solute carrier family 26, member 8	XM_003085521.1,
37	Gene Mapk14	p38-alpha, p38 mitogen-activated protein kinase 14	NM_011951.3, NM
25	Gene Brpf3	AI413466, Brp bromodomain and PHD finger containing, 3	NM_001081315.1
25	Gene Pxt1	Stepp, Pxt1, 17 peroxisomal, testis specific 1	NM_153390.1
25	Gene Kctd20	Kctd20, AW54 potassium channel tetramerisation domain containi	NM_025888.5
26	Gene Stk38	Ndr1, Stk38, 5 serine/threonine kinase 38	NM_134115.2
28	Gene Srsf3	X16, AL024116 serine/arginine-rich splicing factor 3	NM_013663.5, NR
22	Gene Cdkn1a	Waf1, mda6, P cyclin-dependent kinase inhibitor 1A (P21)	NM_007669.4, NM
24	Gene Cpne5	MGC47475, Cp copine V	NM_153166.2
18	Gene Ppil1	1110060O10Ri peptidylprolyl isomerase (cyclophilin)-like 1	NM_026845.4
18	Gene BC00400	MGC7550, 24C cDNA sequence BC004004	NM_030561.3
43	Gene Pim1	Pim1, Pim-1 proviral integration site 1	NM_008842.3
20	Gene Tmem21	14933413N12Ri transmembrane protein 217	NM_001162901.1
24	Gene Tbc1d22	BC045600, MCTBC1 domain family, member 22B	NM_198647.1
24	Gene Rnf8	AIP37, Rnf8, 3 ring finger protein 8	NM_021419.1
42	Gene Gm2016	Gm20161 predicted gene, 20161	XR_107056.1, XR_
42	Gene Ftsjd2	MTr1, Ftsjd2, r FtsJ methyltransferase domain containing 2	NM_028791.5
36	Gene Mdga1	1200011I03Ri MAM domain containing glycosylphosphatidylinosit	NM_001081160.1
27	Gene Zfand3	TEG-27, MGC1 zinc finger, AN1-type domain 3	NM_148926.2
22	Gene Slc37a1	MGC28167, G solute carrier family 37 (glycerol-3-phosphate transp	NM_153062.2, NM
22	Gene Pde9a	Pde9a, PDE9A: phosphodiesterase 9A	NM_008804.4, NM
37	Gene Wdr4	Wdr4, AI44834 WD repeat domain 4	NM_021322.2
37	Gene Ndufv3	Ndufv3, 15000 NADH dehydrogenase (ubiquinone) flavoprotein 3	NM_001083891.1
34	Gene Pknox1	D17Wsu76e, P Pbx/knotted 1 homeobox	NM_016670.3, NR

21	Gene Cbs	AI303044, MG cystathionine beta-synthase	NM_144855.2, NM
21	Gene U2af1	U2af1, 201010 U2 small nuclear ribonucleoprotein auxiliary factor (	NM_024187.4, NM
42	Gene Sik1	Sik1, Sik, Msk, salt inducible kinase 1	NM_010831.2
31	Gene Hsf2bp	Hsf2bp, 49324 heat shock transcription factor 2 binding protein	NM_028902.1
31	Gene Rrp1b	Kiaa0179, mKl. ribosomal RNA processing 1 homolog B (S. cerevisia	NM_028244.2, NM
18	Gene Notch3	hpbk, N3, Notch3, AW229011	NM_008716.2
16	Gene Ephx3	2310063B19Ri epoxide hydrolase 3	NM_001033163.3
31	Gene Brd4	HUNK1, MCAP bromodomain containing 4	NM_198094.2, NM
25	Gene Akap8	AU015639, Ak: A kinase (PRKA) anchor protein 8	NM_019774.4
25	Gene Akap8l	Nakap95, Akaç A kinase (PRKA) anchor protein 8-like	NM_017476.2
21	Gene Cyp4f39	Cyp4f39, 4732 cytochrome P450, family 4, subfamily f, polypeptide	NM_177307.3
20	Gene Zfp799	6030490I01Rik zinc finger protein 799	NM_177359.4
23	Gene Zfp472	Zfp472, KRIM-: zinc finger protein 472	NM_153063.3
26	Gene Zfp101	AI316498, AI3: zinc finger protein 101	NM_009542.2
31	Gene Hnrnrm	Hnrnrm, mKIA heterogeneous nuclear ribonucleoprotein M	NM_029804.3, NM
31	Gene March2	9530046H09Ri membrane-associated ring finger (C3HC4) 2	NM_001252480.1
25	Gene Angptl4	Pgar, Fiaf, Ng2 angiopoietin-like 4	NM_020581.2
27	Gene Kank3	Kank3, D17Ert: KN motif and ankyrin repeat domains 3	NM_030697.2
27	Gene Rps28	Rps28 ribosomal protein S28	NM_016844.2
27	Gene Ndufa7	Ndufa7, 14.5kI NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_023202.3
24	Gene Kifc1	HSET, Tctex7, (kinesin family member C1	NM_001195298.1
27	Gene BC03391	BC033916 cDNA sequence BC033916	NR_040470.1
27	Gene BC05122	BC051226 cDNA sequence BC051226	NR_045146.1
27	Gene Daxx	MGC150289, [Fas death domain-associated protein	NM_007829.4, NM
34	Gene Zbtb22	AI415166, Zfp: zinc finger and BTB domain containing 22	NM_020625.3
34	Gene Gm1941	Gm19412 predicted gene, 19412	XM_003945572.1,
34	Gene Tapbp	Tapbp, TPN, D: TAP binding protein	NM_009318.2, NM
34	Gene Rgl2	KE1.5, Rab2l, Fral guanine nucleotide dissociation stimulator-like 2	NM_009059.2
34	Gene H2-Ke2	H-2Ke2, H2-Ke H2-K region expressed gene 2	NM_010385.2, NM
53	Gene Wdr46	C78559, 2310C WD repeat domain 46	NM_020603.2
53	Gene B3galt4	Gal-T2, Galt2, | UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase,	NM_019420.2
53	Gene Rps18	Rps18, Ke-3, H ribosomal protein S18	NM_011296.2
53	Gene Vps52	Sacm2l, Vps52 vacuolar protein sorting 52 (yeast)	NM_172620.3, XM
27	Gene H2-K1	H2-K1(b), K-f, I histocompatibility 2, K1, K region	NM_001001892.2
34	Gene Ring1	Ring1A, Ring1, ring finger protein 1	NM_009066.3
34	Gene Mir219-	Mirn219-1, Mi microRNA 219-1	NR_029800.1
34	Gene H2-Ke6	H2-Ke6, D17H(H2-K region expressed gene 6	NM_013543.2
34	Gene Slc39a7	MGC143814, Z solute carrier family 39 (zinc transporter), member 7	NM_001077709.1
34	Gene Rxb	Rub, H-2RIIBP, retinoid X receptor beta	NM_011306.4, NM
29	Gene Col11a2	Col11a2	NM_009926.1
66	Gene Gm1945	Gm19450 predicted gene, 19450	XR_105905.1, XR_
66	Gene Brd2	mKIAA4005, D bromodomain containing 2	NM_010238.3, NM
34	Gene Notch4	Notch4, Int3, Int-3, N4	NM_010929.2
34	Gene Gpsm3	AGS4, Gpsm3, G-protein signalling modulator 3 (AGS3-like, C. elega	NM_134116.5
34	Gene Pbx2	G17, Pbx2, AU pre B cell leukemia homeobox 2	NM_017463.2
34	Gene Ager	Ager, RAGE advanced glycosylation end product-specific recepto	NM_007425.2
20	Gene Ppt2	Ppt2, AA67293 palmitoyl-protein thioesterase 2	NM_019441.4

20	Gene Prrt1	Prrt1, ORF31, I proline-rich transmembrane protein 1	NM_030890.1
27	Gene Tnxb	Tnx, tenascin->tenascin XB	NM_031176.2
32	Gene Stk19	RP1, Stk19, G1 serine/threonine kinase 19	NM_019442.3
32	Gene Dom3z	NG6, Dom3z DOM-3 homolog Z (C. elegans)	NM_033613.2, NM
32	Gene Skiv2l	Ddx13, 493055 superkiller viralicidic activity 2-like (S. cerevisiae)	NM_021337.2
22	Gene Nelfe	Nelfe, D17H6S negative elongation factor complex member E, Rdbp	NM_138580.2, NM
22	Gene Cfb	H2-Bf, AI25584 complement factor B	NM_008198.2, NM
24	Gene Zbtb12	BC020447, G1(zinc finger and BTB domain containing 12	NM_198886.3
24	Gene Ehmt2	D17Erd710e, euchromatic histone lysine N-methyltransferase 2	NM_145830.1, NM
21	Gene 1110038	0610009C20Ri RIKEN cDNA 1110038B12 gene	NR_027943.1, NR_
21	Gene Snord52	Snord52, MBII: small nucleolar RNA, C/D box 52	NR_028527.1
21	Gene Hspa1b	Hsp70.1, Hspa heat shock protein 1B	NM_010478.2
38	Gene Hspa1a	Hspa1a, Hsp70 heat shock protein 1A	NM_010479.2
38	Gene Hspa1l	MGC150263, H heat shock protein 1-like	NM_013558.2
38	Gene LOC101055816	uncharacterized LOC101055816	XM_003945746.1,
38	Gene Lsm2	MGC13889, sn LSM2 homolog, U6 small nuclear RNA associated (S.	NM_030597.3, NM
48	Gene Vars	D17H6S56E, V: valyl-tRNA synthetase	NM_011690.3
26	Gene Ly6g5c	Ly6g5c, G5c, N lymphocyte antigen 6 complex, locus G5C	NM_148947.1
26	Gene Ly6g5b	Ly6g5b lymphocyte antigen 6 complex, locus G5B	NM_148939.2
26	Gene Csnk2b	Csnk2b casein kinase 2, beta polypeptide	NM_009975.2
26	Gene Gpank1	Bat-4, G5, D17 G patch domain and ankyrin repeats 1	NM_032460.2, NM
39	Gene D17H6S	G4, D17H6S53 DNA segment, Chr 17, human D6S53E	NM_033477.2
39	Gene Apom	NG20, 119001 apolipoprotein M	NM_018816.1
39	Gene Bag6	BAG6, Scythe, BCL2-associated athanogene 6	NM_001252468.1
27	Gene Prrc2a	Prrc2a, Wbp12 proline-rich coiled-coil 2A	NM_020027.3, NM
27	Gene Aif1	AIF-1, Iba1, Aif allograft inflammatory factor 1	NM_019467.2
26	Gene Lst1	Lst1, B144 leukocyte specific transcript 1	NM_010734.2
26	Gene Ltb	Ltb, Tnfc, Tnfs lymphotoxin B	NM_008518.2
26	Gene Tnf	TNFalpha, DIF, tumor necrosis factor	NM_013693.2
26	Gene Lta	MGC117668, L lymphotoxin A	NM_010735.2
49	Gene Nfkbil1	IKBL, Def-7, Nf nuclear factor of kappa light polypeptide gene enhan	NM_010909.4
49	Gene Atp6v1g	1500002D01Ri ATPase, H+ transporting, lysosomal V1 subunit G2	NM_023179.3
49	Gene Ddx39b	Bat1, D17H6S8 DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B	NM_019693.3, NM
18	Gene H2-D1	H-2D, H2-D, H: histocompatibility 2, D region locus 1	NM_010380.3
20	Gene H2-Q6	Qa-6, H-2Q6, C histocompatibility 2, Q region locus 6	NM_207648.1, XM
22	Gene Vars2	mKIAA1885, 1: valyl-tRNA synthetase 2, mitochondrial (putative)	NM_175137.4
22	Gene Gtf2h4	p44, BTF2 p52, general transcription factor II H, polypeptide 4	NM_010364.3
24	Gene Ddr1	Ddr1, CD167a, discoidin domain receptor family, member 1	NM_172962.1, NM
33	Gene Flot1	Flot1, reggie-2 flotillin 1	NM_008027.2
33	Gene Tubb5	AI596182, AA4 tubulin, beta 5 class I	NM_011655.5
33	Gene Mdc1	6820401C03, r mediator of DNA damage checkpoint 1	NM_001010833.2
25	Gene 5530401	5530401N12Ri RIKEN cDNA 5530401N12 gene	XR_107066.1, XR_
25	Gene Nrm	AI429796, Nrr nurim (nuclear envelope membrane protein)	NM_134122.2
39	Gene Ppp1r18	AI450394, 231 protein phosphatase 1, regulatory subunit 18	NM_175242.1, NM
39	Gene Dhx16	Ddx16, DBP2, :DEAH (Asp-Glu-Ala-His) box polypeptide 16	NM_026987.2
29	Gene 2310061	2310061I04Ri RIKEN cDNA 2310061I04 gene	NM_001033630.1
29	Gene Atat1	Mec17, 26100 alpha tubulin acetyltransferase 1	NM_028476.4, NM

43	Gene Abcf1	AU041969, D1 ATP-binding cassette, sub-family F (GCN20), membe	NM_013854.1
40	Gene Mir877	Mir877, mmu- microRNA 877	NR_030608.1
43	Gene Prr3	4930540G07Ri proline-rich polypeptide 3	NR_028516.1, NR_
43	Gene Gnl1	Gnal1, Gna-rs1guanine nucleotide binding protein-like 1	NM_008136.2
37	Gene Trim39	mKIAA4179, tf tripartite motif-containing 39	NM_024468.2, NM
15	Gene Gabbr1	Gabbr1, GABA gamma-aminobutyric acid (GABA) B receptor, 1	NM_019439.3
33	Gene Cd2ap	Cd2ap, AL024C CD2-associated protein	NM_009847.3
30	Gene Tnfrsf21	TR7, R74815, [tumor necrosis factor receptor superfamily, membe	NM_178589.3
19	Gene Tdrd6	AB097085, Tdr tudor domain containing 6	NM_198418.2, NM
24	Gene Slc25a27	Slc25a27, D53I solute carrier family 25, member 27	NM_028711.3
24	Gene Cyp39a1	Cyp39a1 cytochrome P450, family 39, subfamily a, polypeptic	NM_018887.3
25	Gene Runx2	AML3, Pebpa2 runt related transcription factor 2	NM_001146038.1
24	Gene Supt3	Supt3, SPT3L, / suppressor of Ty 3	NM_178652.2
25	Gene Cdc5l	AA408004, Cdc cell division cycle 5-like (S. pombe)	NM_152810.2
23	Gene Tcte1	Tcte1, Tcte-1, It-complex-associated testis expressed 1	NM_013688.2
23	Gene Tmem15	Tmem151b, Gt transmembrane protein 151B	NM_001013749.2
42	Gene Nfkbie	Nfkbie, IKBE nuclear factor of kappa light polypeptide gene enha	NM_008690.3
42	Gene Slc35b2	Slc35b2, PAPS solute carrier family 35, member B2	NM_028662.2
42	Gene Hsp90a	90kDa, Hsp90a heat shock protein 90 alpha (cytosolic), class B mem	NM_008302.3
29	Gene Slc29a1	1200014D21Ri solute carrier family 29 (nucleoside transporters), m	NM_001199113.1,
29	Gene Gm7325	Gm7325, EG65 predicted gene 7325	NM_001177468.1,
29	Gene Tmem63	BC026370, Tm transmembrane protein 63b	NM_198167.3
29	Gene E030047	E030047D23Ri RIKEN cDNA E030047D23 gene	XR_141315.1, XR_
29	Gene Mrpl14	Mrpl14, 11100 mitochondrial ribosomal protein L14	NM_026732.2
28	Gene Vegfa	Vegf188, Vegf: vascular endothelial growth factor A	NM_001025250.3
23	Gene Polh	RAD30A, XPV, polymerase (DNA directed), eta (RAD 30 related)	NM_030715.3
31	Gene Xpo5	mKIAA1291, 2-exportin 5	NM_028198.2
31	Gene Polr1c	Polr1e, 40kDa, polymerase (RNA) I polypeptide C	NM_009085.2
31	Gene Yipf3	D17Wsu94e, Y Yip1 domain family, member 3	NM_145353.2
31	Gene Lrrc73	Lrrc73, Gm88 leucine rich repeat containing 73	NM_001111142.1
31	Gene Tjap1	Tjap1, AW121I tight junction associated protein 1	NM_001252473.1
19	Gene Dlk2	AI413481, Egfl delta-like 2 homolog (Drosophila)	NM_207666.2
19	Gene Abcc10	Abcc10, mFLJ0 ATP-binding cassette, sub-family C (CFTR/MRP), mer	NM_145140.2, NM
38	Gene Cul9	mKIAA0708, C cullin 9	NM_001081335.2
38	Gene Srf	AW240594, A serum response factor	NM_020493.2
38	Gene Ptk7	chz, mPTK7/C PTK7 protein tyrosine kinase 7	NM_175168.4
32	Gene Klc4	AA408085, Kn: kinesin light chain 4	NM_029091.2
32	Gene Mrpl2	CGI-22, Mrpl2, mitochondrial ribosomal protein L2	NM_025302.3
32	Gene Cul7	Cul7, C230011 cullin 7	NM_025611.5
29	Gene Ppp2r5d	Ppp2r5d, Tex2 protein phosphatase 2, regulatory subunit B (B56), c	NM_009358.3
29	Gene Pex6	AI132582, D13 peroxisomal biogenesis factor 6	NM_145488.1
32	Gene Ptcra	pT[a], pT-alpha: pre T cell antigen receptor alpha	NM_011195.2
32	Gene 2310039	2310039H08Ri RIKEN cDNA 2310039H08 gene	NM_025966.3
32	Gene Rpl7l1	1500016H10Ri ribosomal protein L7-like 1	NM_025433.3
30	Gene A330017	A330017A19Ri RIKEN cDNA A330017A19 gene	XR_107071.1, XR_
30	Gene Tbcc	2810055C19Ri tubulin-specific chaperone C	NM_178385.3
23	Gene Ubr2	MGC36320, m ubiquitin protein ligase E3 component n-recognin 2	NM_001177374.1

17	Gene	Trerf1	Trerf1, MGC11 transcriptional regulating factor 1	NM_172622.2, NM
38	Gene	Ccnd3	9230106B05Ri cyclin D3	NM_001081635.1
38	Gene	Bysl	Enp1, Bysl, Bys bystin-like	NM_016859.3
26	Gene	Med20	1110011O05Ri mediator complex subunit 20	NM_020048.3
22	Gene	Usp49	Usp49, C33004 ubiquitin specific peptidase 49	NM_198421.1
22	Gene	Tomm6	Tomm6, A1663 translocase of outer mitochondrial membrane 6 hor	NM_025365.3, NM
22	Gene	Gm1487	Gm14872, OTI predicted gene 14872	NR_045945.1
22	Gene	Prickle4	Prickle4, Gm93 prickles homolog 4 (Drosophila)	XM_355019.5, XM
22	Gene	Frs3	Frs3, Frs2beta, fibroblast growth factor receptor substrate 3	NM_144939.2
26	Gene	Pgc	2210410L06Ri progastricsin (pepsinogen C)	NM_025973.3
26	Gene	Tfeb	Tfeb, Tcfef, TF transcription factor EB	NM_011549.3, NM
36	Gene	Mdfi	I-mfa, Mdfi, I-r MyoD family inhibitor	NM_010783.2, NM
29	Gene	Foxp4	1200010K03Ri forkhead box P4	NM_028767.2, NM
30	Gene	Nfya	Cbf-b, AA4078 nuclear transcription factor-Y alpha	NM_010913.2, NM
30	Gene	Oard1	AW558560, O3 O-acyl-ADP-ribose deacylase 1	NM_207219.3
30	Gene	Apobec2	Arp1, Apobec2 apolipoprotein B mRNA editing enzyme, catalytic po	NM_009694.3
18	Gene	Rftn1	2310015N21Ri raftlin lipid raft linker 1	NM_181397.2
22	Gene	Dazl	Tpx2, Tpx-2, D: deleted in azoospermia-like	NM_010021.4
25	Gene	Plcl2	Plcl2, PLC-L2, F phospholipase C-like 2	NM_013880.3
25	Gene	Tbc1d5	mKIAA0210, KITBC1 domain family, member 5	NM_028162.3
29	Gene	Rab5a	Rab5a, A16639 RAB5A, member RAS oncogene family	NM_025887.4
24	Gene	Kat2b	AW536563, A5 K(lysine) acetyltransferase 2B	NM_001190846.1
26	Gene	Stap2	AW049765, ST signal transducing adaptor family member 2	NM_145934.1
26	Gene	Mpnd	Mpnd, E13030 MPN domain containing	NM_026530.5
40	Gene	Sh3gl1	Sh3gl1, SH3P8, SH3-domain GRB2-like 1	NM_001252471.1
40	Gene	Chaf1a	Chaf1a, CAF-1, chromatin assembly factor 1, subunit A (p150)	NM_013733.3
19	Gene	Ubxn6	Ubxn6, 221041: UBX domain protein 6	NM_024432.2
19	Gene	Hdgfrp2	HRP-2, Hdgrfp: hepatoma-derived growth factor, related protein 2	NM_008233.2
21	Gene	Plin5	PAT-1, 231007 perilipin 5	NM_001077348.1
21	Gene	Lrg1	MGC102387, 2 leucine-rich alpha-2-glycoprotein 1	NM_029796.2
21	Gene	Sema6b	MGC143995, \sema domain, transmembrane domain (TM), and cy	NM_013662.2, NM
22	Gene	Fem1a	MGC117925, F feminization 1 homolog a (C. elegans)	NM_010192.4
35	Gene	Arrdc5	Arrdc5, MGC1: arrestin domain containing 5	NM_029799.1
35	Gene	Uhrf1	ICBP90, RNF10 ubiquitin-like, containing PHD and RING finger doma	NM_010931.3, NM
26	Gene	Ptprs	Ptpt9, PTP, PTI protein tyrosine phosphatase, receptor type, S	NM_011218.2, NM
17	Gene	Gm9258	EG668592, Gr predicted gene 9258	XR_107079.1, XR_
39	Gene	Safb2	mKIAA0138, S: scaffold attachment factor B2	NM_001029979.2
56	Gene	Safb	5330423C17Ri scaffold attachment factor B	NM_001163300.1
56	Gene	2410015	QIL1, 2410015 RIKEN cDNA 2410015M20 gene	NM_153152.3
56	Gene	Rpl36	Rpl36 ribosomal protein L36	NM_018730.3
56	Gene	Lonp1	1200017E13Ri lon peptidase 1, mitochondrial	NM_028782.2
38	Gene	Catsperc	Tmem146, Gm catsper channel auxiliary subunit delta	NM_175350.3
20	Gene	Ranbp3	2610024N24Ri RAN binding protein 3	NM_001252466.1,
20	Gene	Vmac	Vmac, A166225 vimentin-type intermediate filament associated coil	NM_178926.3, NM
20	Gene	Ndufa11	2010012C24Ri NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_027244.1
26	Gene	Nrtn	NTN, Nrtn neurturin	NM_008738.2
26	Gene	Dus3l	Dus3l, AW557: dihydrouridine synthase 3-like (S. cerevisiae)	NM_144858.2

19	Gene Mllt1	Mllt1, BAM11, myeloid/lymphoid or mixed-lineage leukemia (trithc	NM_022328.2
25	Gene Efna5	LERK-7, Efna5, ephrin A5	NM_010109.3, NM
22	Gene Fbxl17	AI452053, Fbx F-box and leucine-rich repeat protein 17	NM_015794.1
33	Gene A930002	A930002H24R RIKEN cDNA A930002H24 gene	XR_107096.1, XR_
28	Gene Pja2	AI447901, MG praja 2, RING-H2 motif containing	NM_144859.2, NM
34	Gene Man2a1	Map-2, Mana- mannosidase 2, alpha 1	NM_008549.2
33	Gene Vapa	VAP33, Vapa, vesicle-associated membrane protein, associated pr	NM_013933.3
30	Gene Rab31	AI415285, 170 RAB31, member RAS oncogene family	NM_133685.2
26	Gene Ppp4r1	Ppp4r1, 31100 protein phosphatase 4, regulatory subunit 1	NM_146081.2, NM
25	Gene Ralbp1	Rip1, RLIP76, FralA binding protein 1	NM_009067.5, NM
19	Gene Twsg1	Tsg, D17Ert4(twisted gastrulation homolog 1 (Drosophila)	NM_023053.3
27	Gene Ankrd12	ANCO-2, 2900(ankyrin repeat domain 12	NM_001025572.1
27	Gene 5430411	5430411C19Ri RIKEN cDNA 5430411C19 gene	XR_168569.1, XR_
28	Gene Ndufv2	2900010C23Ri NADH dehydrogenase (ubiquinone) flavoprotein 2	NM_028388.2
28	Gene Wash	Wash1, ORF19 WAS protein family homolog	NM_026833.1, NM
35	Gene Soga2	Kiaa0802, MG(SOGA family member 2	NM_172963.4, NM
21	Gene Rab12	C77700, Rab12 RAB12, member RAS oncogene family	NM_024448.2
24	Gene Ptpm	MGC90724, m protein tyrosine phosphatase, receptor type, M	NM_008984.2
34	Gene Lama1	AA408497, Lar laminin, alpha 1	NM_008480.2
17	Gene Tmem20	EG622645, Gr transmembrane protein 200C	NM_001206661.1
23	Gene Epb4.1l3	NBL3, Epb4l3 erythrocyte protein band 4.1-like 3	NM_013813.1
25	Gene C030034	C030034I22Ri RIKEN cDNA C030034I22 gene	NR_026848.1
27	Gene Tgif1	Tgif, AI462167 TGFB-induced factor homeobox 1	NM_009372.3, NM
27	Gene Mir1195	mmu-mir-1195 microRNA 1195	NR_035427.1
30	Gene Myl12b	C77744, RLC-B myosin, light chain 12B, regulatory	NM_023402.2
30	Gene Myl12a	Myl12a, C802C myosin, light chain 12A, regulatory, non-sarcomeric	NM_026064.2
29	Gene Smchd1	MommeD1, Sr SMC hinge domain containing 1	NM_028887.3
23	Gene Ndc80	HEC, 2610020(NDC80 homolog, kinetochore complex component (	NM_023294.2
16	Gene Spdya	MLZ-465, 493C speedy homolog A (Xenopus laevis)	NM_029254.1, NM
16	Gene Trmt61b	Trmt61b, 6234tRNA methyltransferase 61B	NR_015549.1, NR_
44	Gene Wdr43	Wrd43, Wdr43WD repeat domain 43	NM_175639.1
18	Gene Alk	Tcrz, Alk, CD24anaplastic lymphoma kinase	NM_007439.2
29	Gene Ypel5	CGI-127, 2310(yippee-like 5 (Drosophila)	NM_027166.5
26	Gene Lbh	6720416L16Ril limb-bud and heart	NM_029999.4
28	Gene Lclat1	Agpat8, AI181(lysocardiolipin acyltransferase 1	NM_001081071.2
22	Gene Memo1	0610016J10Ril mediator of cell motility 1	NM_133771.2
24	Gene Dpy30	2810410M20R dpy-30 homolog (C. elegans)	NM_024428.4, NM
25	Gene Spast	Spg4, Spast, m spastin	NM_001162870.1,
26	Gene Yipf4	Yipf4, 2310034Yip1 domain family, member 4	NM_026417.4
34	Gene Birc6	A430032G04R baculoviral IAP repeat-containing 6	NM_007566.2
25	Gene Ltbp1	9830146M04, latent transforming growth factor beta binding prot	NM_019919.3, NM
35	Gene Crim1	Crim1, AU015(cysteine rich transmembrane BMP regulator 1 (chor	NM_015800.3
30	Gene Strn	AU022939, D1 striatin, calmodulin binding protein	NM_011500.2
32	Gene Cdc42ep	Cdc42ep3, Ce CDC42 effector protein (Rho GTPase binding) 3	NM_026514.2
25	Gene LOC101055649	uncharacterized LOC101055649	XR_168564.1, XR_
25	Gene Rmdn2	MGC37733, Fa regulator of microtubule dynamics 2	NM_201361.2
34	Gene Cyp1b1	Cyp1b1, CP1B, cytochrome P450, family 1, subfamily b, polypeptide	NM_009994.1

30	Gene	Atl2	Atl2, Aip-2, Arl atlastin GTPase 2	NM_019717.2, NM
44	Gene	Hnrpll	AI852082, 281 heterogeneous nuclear ribonucleoprotein L-like	NM_144802.3
43	Gene	Srsf7	9G8, Srsf7, MC serine/arginine-rich splicing factor 7	NM_001195485.1
43	Gene	Ttc39d	Ttc39d, 49305 tetratricopeptide repeat domain 39D	NM_026351.2
21	Gene	Arhgef33	Arhgef33, Gm5 Rho guanine nucleotide exchange factor (GEF) 33	NM_001145452.1
21	Gene	Gm1019	Gm10190, ENS predicted gene 10190	NR_028385.1
24	Gene	Sos1	AI449023, 443 son of sevenless homolog 1 (Drosophila)	NM_009231.2
30	Gene	Map4k3	RAB8IPL1, 953 mitogen-activated protein kinase kinase kinase kina	NM_001081357.1
25	Gene	Thumpd	2810025A12Ri THUMP domain containing 2	NM_028138.1
31	Gene	Pkdcc	Adtk1, X83346 protein kinase domain containing, cytoplasmic	NM_134117.2
24	Gene	Kcng3	Kv10.1b, KV6.3 potassium voltage-gated channel, subfamily G, mem	NM_153512.1
74	Gene	Zfp36l2	Tis11d, ERF2, E zinc finger protein 36, C3H type-like 2	NM_001001806.2
74	Gene	Thada	6530405K19, E thyroid adenoma associated	NM_183021.3
30	Gene	Lrp3	GP130, C7664 leucine-rich PPR-motif containing	NM_028233.2
27	Gene	Prepl	mKIAA0436, 2i prolyl endopeptidase-like	NM_001163622.1
27	Gene	Camkmt	1700106N22Ri calmodulin-lysine N-methyltransferase	NM_028576.2
22	Gene	Six3os1	Six3os1, D17M Six3 opposite strand transcript 1	NR_038082.1, NR_
22	Gene	Six3	Six3, Six3a, Six sine oculis-related homeobox 3	NM_011381.4
17	Gene	Six2	Six2 sine oculis-related homeobox 2	NM_011380.2
23	Gene	Srbd1	AI461933, MG S1 RNA binding domain 1	NM_030133.3
27	Gene	Gm5817	Gm5817 predicted gene 5817	XR_168764.1, XR_
27	Gene	Prkce	R75156, Pkce, protein kinase C, epsilon	NM_011104.3
19	Gene	Epas1	HRF, HIF-2alpha endothelial PAS domain protein 1	NM_010137.3
22	Gene	Socs5	Socs5, mKIAAC suppressor of cytokine signaling 5	NM_019654.2
24	Gene	Mcf2	Mcf2, Sdnf, I multiple coagulation factor deficiency 2	NM_139295.3, NM
37	Gene	4833418	4833418N02Ri RIKEN cDNA 4833418N02 gene	NR_015506.2
37	Gene	Ttc7	1110035E02Ri tetratricopeptide repeat domain 7	NM_028639.3
20	Gene	Calm2	Calm3, AL024C calmodulin 2	NM_007589.5
19	Gene	Kcnk12	Kcnk12, mntk1 potassium channel, subfamily K, member 12	NM_199251.1
39	Gene	LOC101055631	uncharacterized LOC101055631	XM_003946009.1,
39	Gene	Msh6	AW550279, Al mutS homolog 6 (E. coli)	NM_010830.2
27	Gene	Fbxo11	Fbxo11, C8004 F-box protein 11	NM_001081034.1
33	Gene	Foxn2	Fkh19, Foxn1, forkhead box N2	NM_180974.4
27	Gene	Nrxn1	mKIAA0578, 1 neurexin I	NM_020252.3, NM
25	Gene	Crem	ICERI, Crem, ICcAMP responsive element modulator	NM_013498.2, NM
25	Gene	Gm6225	Gm6225, EG62 predicted gene 6225	NR_033457.1
25	Gene	Cul2	Cul2, mKIAA41 cullin 2	NM_029402.3
28	Gene	Bambi	Bambi, 26100C BMP and activin membrane-bound inhibitor	NM_026505.2
16	Gene	4833419	4833419F23Ri RIKEN cDNA 4833419F23 gene	NR_040328.1
16	Gene	Mtpap	Mtpap, Papd1, mitochondrial poly(A) polymerase	NM_026157.2
27	Gene	9430020	9430020K01Ri RIKEN cDNA 9430020K01 gene	NM_001081963.1
24	Gene	Zfp438	Zfp438, 94300 zinc finger protein 438	NM_178722.5
23	Gene	Gm1012	Zeb1os, Gm10 predicted gene 10125	NR_033552.1
23	Gene	Zeb1	Zfhep, [delta]E zinc finger E-box binding homeobox 1	NM_011546.3
25	Gene	Arhgap1	Arhgap12, 281 Rho GTPase activating protein 12	NM_029277.2, NM
30	Gene	Kif5b	Khcs, AL02280 kinesin family member 5B	NM_008448.3
31	Gene	Epc1	A930032N02R enhancer of polycomb homolog 1 (Drosophila)	NM_007935.1, NM

31	Gene Mir1893	Mirn1893, Mir microRNA 1893	NR_035446.1
19	Gene Mxk	Irxl1, Mxk, 943 mohawk homeobox	NM_177595.4
28	Gene Wac	1110067P07Ri WW domain containing adaptor with coiled-coil	NM_153085.3, NM
27	Gene Fzd8	Fz8, Fzd8 frizzled homolog 8 (Drosophila)	NM_008058.2
41	Gene Ccny	4631402G10Ri cyclin Y	NM_026484.3
24	Gene Thoc1	NMP-84, Thoc THO complex 1	NM_153552.3
34	Gene Rock1	1110055K06Ri Rho-associated coiled-coil containing protein kinase	NM_009071.2
23	Gene Greb1l	Greb1l, KIAA46 growth regulation by estrogen in breast cancer-like	NM_001083628.1
37	Gene Esco1	A930014I12Ri establishment of cohesion 1 homolog 1 (S. cerevisiae)	NM_001081222.1
37	Gene Snrpd1	AA407109, AL small nuclear ribonucleoprotein D1	NM_009226.4
24	Gene Abhd3	LABH3, Abhd3 abhydrolase domain containing 3	NM_134130.1
24	Gene 4930563	4930563E18Ri RIKEN cDNA 4930563E18 gene	NR_045379.1
55	Gene 1010001	1010001N08Ri RIKEN cDNA 1010001N08 gene	XR_168572.1, XR_
55	Gene Gata6	AA410133, GA GATA binding protein 6	NM_010258.3
23	Gene Rbbp8	9930104E21Ri retinoblastoma binding protein 8	NM_001081223.2
32	Gene Gm6277	Gm6277 predicted gene 6277	NR_045421.1
32	Gene Cables1	Cables1, Cable CDK5 and Abl enzyme substrate 1	NM_022021.2, NM
32	Gene Mir1901	Mir1901, Mirn microRNA 1901	NR_035447.1
26	Gene Npc1	nmf164, C853 Niemann Pick type C1	NM_008720.2
25	Gene Ttc39c	Ttc39c, 28104 tetratricopeptide repeat domain 39C	NM_028341.4
23	Gene Osbpl1a	Osbpl1a, Osbp oxysterol binding protein-like 1A	NM_001252489.1
30	Gene Ss18	Syt, D130059H synovial sarcoma translocation, Chromosome 18	NM_009280.2, NM
33	Gene Taf4b	4932409F03Ri TAF4B RNA polymerase II, TATA box binding protein	NM_001100449.1
22	Gene Kctd1	Kctd1, AI66154 potassium channel tetramerisation domain containi	NM_001142731.1
17	Gene Cdh2	N-cadherin, CC cadherin 2	NM_007664.4
17	Gene Gm1532	OTTMUSG000 predicted gene 15328	NR_045399.1
22	Gene Trappc8	D030074E01Ri trafficking protein particle complex 8	NM_029491.2, NM
35	Gene Rnf138	STRIN, Trif-d, 2 ring finger protein 138	NM_019706.2, NM
23	Gene Garem	mKIAA4238, C GRB2 associated, regulator of MAPK1	NM_001033445.2
17	Gene Asxl3	Gm329, D430C additional sex combs like 3 (Drosophila)	NM_001167777.1
35	Gene Zfp397	2810411K16Ri zinc finger protein 397	NM_027007.2
20	Gene Zfp191	AI480505, Znp zinc finger protein 191	NM_021559.2
26	Gene Galnt1	Galnt1 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N	NM_013814.3, NM
17	Gene 2700062	MGC103375, 2 RIKEN cDNA 2700062C07 gene	NM_026529.4
31	Gene Rprd1a	mKIAA4077, C regulation of nuclear pre-mRNA domain containing	NM_144861.2
30	Gene Slc39a6	Slc39a6, Ermel solute carrier family 39 (metal ion transporter), men	NM_139143.3
30	Gene Elp2	AU023723, Sta elongator acetyltransferase complex subunit 2	NM_021448.2
21	Gene Mocos	Mocos, MOS, M molybdenum cofactor sulfurase	NM_026779.1
21	Gene Fhod3	mKIAA1695, FI formin homology 2 domain containing 3	NM_175276.3
34	Gene Slc25a46	1200007B05Ri solute carrier family 25, member 46	NM_026165.3
25	Gene Polr2d	Polr2d, 23100 polymerase (RNA) II (DNA directed) polypeptide D	NM_027101.2, NM
25	Gene Wdr33	2810021O11Ri WD repeat domain 33	NM_001170966.1
36	Gene Iws1	1700069O15Ri IWS1 homolog (S. cerevisiae)	NM_173441.3
45	Gene Map3k2	Mekk2, 96300 mitogen-activated protein kinase kinase kinase 2	NM_011946.3
34	Gene A830052	A830052D11Ri RIKEN cDNA A830052D11 gene	NR_045403.1
34	Gene Bin1	ALP-1, BRAMP bridging integrator 1	NM_009668.2, NM
34	Gene 4930455	4930455D15Ri RIKEN cDNA 4930455D15 gene	NR_045381.1

34	Gene Wdr36	MGC38421, 57WD repeat domain 36	NM_144863.4, NM
26	Gene Nrep	D0H4S114, Nrp neuronal regeneration related protein	NM_053078.4, NM
26	Gene Gm1054	ENSMUSG000I (predicted gene 10549)	NR_045415.1
23	Gene 2410004	2410004N09RI RIKEN cDNA 2410004N09 gene	NR_038151.1, NR_
24	Gene Epb4.1l4	NBL4, Epb4l14 erythrocyte protein band 4.1-like 4a	NM_013512.2
30	Gene Gm1054	ENSMUSG000I (ribosomal protein L29 pseudogene)	NR_040534.1
32	Gene Apc	AW124434, m.adenomatosis polyposis coli	NM_007462.3
32	Gene Srp19	Srp19, 231002 signal recognition particle 19	NM_025527.3
36	Gene Reep5	AU022809, DP receptor accessory protein 5	NM_007874.3
24	Gene Fam13b	MGC37079, A family with sequence similarity 13, member B	NM_146084.1
26	Gene Brd8	2610007E11Ri bromodomain containing 8	NM_030147.2
26	Gene Kif20a	Kif20a, Rab6kii kinesin family member 20A	NM_001166406.1,
26	Gene Cdc23	6030435O18, (CDC23 cell division cycle 23	NM_178347.4
31	Gene Cdc25c	Cdc25c, Cdc25	NM_009860.2
31	Gene 201011C	2010110K18RI RIKEN cDNA 2010110K18 gene	XR_168576.1, XR_
31	Gene Fam53c	Fam53c, 2810 family with sequence similarity 53, member C	NM_175104.4
19	Gene Kdm3b	JHDM2B, 5830 KDM3B lysine (K)-specific demethylase 3B	NM_001081256.1
33	Gene Egr1	Krox-1, Zif268, early growth response 1	NM_007913.5
32	Gene Etf1	ERF1, A146337 eukaryotic translation termination factor 1	NM_144866.3
32	Gene Hspa9	Hsp74a, Mort heat shock protein 9	NM_010481.2
36	Gene Snhg4	Snhg4, Gm174 small nucleolar RNA host gene 4 (non-protein coding)	NR_038073.1
36	Gene Mir1949	mmu-mir-1949 microRNA 1949	NR_035472.1
36	Gene Snora74	EG436583, U1 small nucleolar RNA, H/ACA box 74A	NR_002905.3
36	Gene Matr3	D030046F20Ri matrin 3	NM_010771.6
35	Gene Paip2	Paip2, AU0459 polyadenylate-binding protein-interacting protein 2	NM_026420.2
27	Gene Cxxc5	Cxxc5, 493041 CXXC finger 5	NM_133687.2
23	Gene Nrg2	NTAK, Nrg2, D neuregulin 2	NM_001167891.1
33	Gene Pura	Pura, CAGER-1 purine rich element binding protein A	NM_008989.3
24	Gene Pcdhga1	Pcdhga1 protocadherin gamma subfamily A, 1	NM_033584.1
24	Gene Pcdhga2	mKIAA0588, Pcdhga2 protocadherin gamma subfamily A, 2	NM_033585.1
24	Gene Pcdhga3	Pcdhga3 protocadherin gamma subfamily A, 3	NM_033586.2
24	Gene Pcdhgb1	Pcdhgb1, MGC protocadherin gamma subfamily B, 1	NM_033574.3
24	Gene Pcdhga4	Pcdhga4 protocadherin gamma subfamily A, 4	NM_033587.3
24	Gene Pcdhgb2	Pcdhgb2 protocadherin gamma subfamily B, 2	NM_033575.3
24	Gene Pcdhga5	Pcdhga5 protocadherin gamma subfamily A, 5	NM_033588.4
24	Gene Pcdhga6	Pcdhga6 protocadherin gamma subfamily A, 6	NM_033589.1
24	Gene Pcdhga7	Pcdhga7 protocadherin gamma subfamily A, 7	NM_033590.3
24	Gene Pcdhgb4	Pcdhgb4 protocadherin gamma subfamily B, 4	NM_033576.1
24	Gene Pcdhga8	KIAA4054, Pcdhga8 protocadherin gamma subfamily A, 8	NM_033591.3
24	Gene Pcdhgb5	Pcdhgb5 protocadherin gamma subfamily B, 5	NM_033577.1
24	Gene Pcdhga9	Pcdhga9 protocadherin gamma subfamily A, 9	NM_033592.3
24	Gene Pcdhgb6	Pcdhgb6 protocadherin gamma subfamily B, 6	NM_033578.3
24	Gene Pcdhga10	Pcdhga10 protocadherin gamma subfamily A, 10	NM_033593.3
24	Gene Pcdhgb7	Pcdhgb7 protocadherin gamma subfamily B, 7	NM_033579.1
24	Gene Pcdhga11	Pcdhga11 protocadherin gamma subfamily A, 11	NM_033594.2
24	Gene Pcdhgb8	Pcdhgb8 protocadherin gamma subfamily B, 8	NM_033580.2
24	Gene Pcdhga12	Pcdhga12, Pcdhga12 protocadherin gamma subfamily A, 12	NM_033595.4

24	Gene Pcdhgc3	Pcdhgc3, MGC protocadherin gamma subfamily C, 3	NM_033581.3
24	Gene Pcdhgc4	Pcdhgc4, MGC protocadherin gamma subfamily C, 4	NM_033582.2
26	Gene Diap1	Drf1, KIAA406: diaphanous homolog 1 (Drosophila)	NM_007858.2
26	Gene Hdac3	AW537363, Hc histone deacetylase 3	NM_010411.2
17	Gene Rel2	MGC47374, e; RELT-like 2	NM_153793.2
17	Gene Fchsd1	A030002D08Ri FCH and double SH3 domains 1	NM_175684.4
35	Gene Rnf14	D7Bwg0165e, ring finger protein 14	NM_020012.2, NM
32	Gene Gnpda1	Gnpi, GNPDA, glucosamine-6-phosphate deaminase 1	NM_011937.2
38	Gene Ndfip1	Ndfip1, 06100: Nedd4 family interacting protein 1	NM_022996.1
31	Gene Spry4	sprouty4, A03(sprouty homolog 4 (Drosophila)	NM_011898.2
31	Gene 9630014	9630014M24R RIKEN cDNA 9630014M24 gene	XR_035375.1, XR_
26	Gene Arhgap2	Arhgap26, 181 Rho GTPase activating protein 26	NM_175164.4
20	Gene Nr3c1	Grl1, Grl-1, Nr: nuclear receptor subfamily 3, group C, member 1	NM_008173.3
26	Gene Tcerg1	CA150b, ca15C transcription elongation regulator 1 (CA150)	NM_001039474.1
19	Gene Dpysl3	CRMP-4, Ulip1 dihydropyrimidinase-like 3	NM_009468.4, NM
20	Gene LOC100862305	uncharacterized LOC100862305	XM_003688953.2
20	Gene Gm3650	Gm3650, predicted gene 3650	XM_001477500.2
23	Gene Ythdc2	3010002F02Ri YTH domain containing 2	NM_001163013.1
29	Gene Kcnn2	SK2, fri, SKCA2 potassium intermediate/small conductance calcium	NM_080465.2
23	Gene Fem1c	2610312A07Ri fem-1 homolog c (C.elegans)	NM_173423.4
22	Gene Tmed7	AU044611, Tm transmembrane emp24 protein transport domain c	NM_025698.1
22	Gene Eif1a	C76390, Eif4c, eukaryotic translation initiation factor 1A	NM_010120.5
25	Gene Atg12	4931423H11Ri autophagy related 12	NM_026217.3
25	Gene Ap3s1	MGC117528, [adaptor-related protein complex 3, sigma 1 subunit	NM_009681.4
17	Gene 4833403	Lvrn, 4833403I RIKEN cDNA 4833403I15 gene	NM_029008.1
13	Gene Sema6a	Sema6a, Sema sema domain, transmembrane domain (TM), and cy	NM_018744.2
27	Gene Dmxl1	C630007L23Ri Dmx-like 1	NM_001081371.2
22	Gene Lox	Lox, AI893619, lysyl oxidase	NM_010728.2
22	Gene Sncaip	2810407O15Ri synuclein, alpha interacting protein (synphilin)	NM_026408.4, NM
24	Gene Snx2	Snx2, 0610030 sorting nexin 2	NM_026386.1
22	Gene Prdm6	PRISM, Prdm6, PR domain containing 6	NM_001033281.3
17	Gene Csnk1g3	Csnk1g3, C330 casein kinase 1, gamma 3	NM_152809.2
48	Gene Lmnb1	Lmnb1	NM_010721.2
24	Gene March3	6330411115Ri membrane-associated ring finger (C3HC4) 3	NM_177115.2
39	Gene Slc12a2	Slc12a2, mBSC solute carrier family 12, member 2	NM_009194.3
24	Gene Fbn2	KIAA4226, sy, I fibrillin 2	NM_010181.2
15	Gene Adamts1	Adamts19, D2: a disintegrin-like and metallopeptidase (reprolysin t	NM_175506.3
25	Gene Chsy3	Chsy3, AI6622: chondroitin sulfate synthase 3	NM_001081328.1
29	Gene Dctn4	C130039E17Ri dynactin 4	NM_026302.3
29	Gene Rbm22	8430430L24Ri RNA binding motif protein 22	NM_025776.2
20	Gene Myoz3	MGC123457, F myozenin 3	NM_133363.3, XM
23	Gene Synpo	Synpo, 903021 synaptopodin	NM_177340.2, NM
23	Gene LOC101055835	synaptopodin-like	XM_003945584.1,
49	Gene Rps14	2600014J02Ri ribosomal protein S14	NM_020600.4
21	Gene Tcof1	Tcof1, AA4088 Treacher Collins Franceschetti syndrome 1, homolog	NM_011552.3, NM
21	Gene Cdx1	Cdx, Cdx-1, Cd: caudal type homeobox 1	NM_009880.3
21	Gene Pdgfrb	Pdgfr, Pdgfrb, platelet derived growth factor receptor, beta polype	NM_001146268.1

32	Gene Hmgxb3	AI413166, mKI HMG box domain containing 3	NM_178277.1, NM
23	Gene Ppargc1	Perc, 4631412 peroxisome proliferative activated receptor, gamma	NM_133249.2
23	Gene Mir378	mmu-mir-378, microRNA 378	NR_029879.1
42	Gene Csnk1a1	MGC30571, M casein kinase 1, alpha 1	NM_146087.2
22	Gene Htr4	5-HT₄ 5 hydroxytryptamine (serotonin) receptor 4	NM_008313.4
27	Gene Napg	Napg, SNARE, N-ethylmaleimide sensitive fusion protein attachme	NM_028017.1
20	Gene Piezo2	Fam38b, Fam38b2, FLJ23403, 9430028L06Rik, MGC182702, 59304:	NM_001039485.4
28	Gene Txnl1	TRP32, 32kDa, thioredoxin-like 1	NM_016792.4
22	Gene Atp8b1	AI451886, Atp:ATPase, class I, type 8B, member 1	NM_001001488.3
23	Gene Nedd4l	Nedd4l, Nedd4 neural precursor cell expressed, developmentally dc	NM_031881.2, NM
23	Gene AA6672	AA667203 expressed sequence AA667203	XR_141351.2
21	Gene Sec11c	Sec11c, 18100 SEC11 homolog C (S. cerevisiae)	NM_025468.2
18	Gene Rax	Rax, ey1, E130 retina and anterior neural fold homeobox	NM_013833.2
18	Gene Raxos1	Raxos1, 75304 Rax overlapping opposite strand transcript 1	XR_107142.1, XR_
20	Gene Lman1	MCFD1, P58, L lectin, mannose-binding, 1	NM_001172062.1
26	Gene Ccbe1	MGC118667, K collagen and calcium binding EGF domains 1	NM_178793.4
26	Gene Gm1595	Gm15958, OTI predicted gene 15958	XR_107143.1, XR_
20	Gene Gnal	9630020G10Ri guanine nucleotide binding protein, alpha stimulatir	NM_010307.2, NM
18	Gene Chmp1b	2810405111Rik charged multivesicular body protein 1B	NM_024190.2
22	Gene Mppe1	A530095G11, I metallophosphoesterase 1	NM_172630.2
26	Gene Impa2	AW259601, AI inositol (myo)-1(or 4)-monophosphatase 2	NM_053261.2
34	Gene Tubb6	BB220206, 231 tubulin, beta 6 class V	NM_026473.2
38	Gene Afg3l2	2310036I02Rik AFG3(ATPase family gene 3)-like 2 (yeast)	NM_027130.1
19	Gene Slmo1	Slmo1, A23007 slowmo homolog 1 (Drosophila)	NM_144867.2
33	Gene Cep76	9630013E05, C centrosomal protein 76	NM_001081073.1
33	Gene Psmg2	Psmg2, 17000: proteasome (prosome, macropain) assembly chaper	NM_134138.1
38	Gene Ptpn2	TC-PTP, Ptpn2, protein tyrosine phosphatase, non-receptor type 2	NM_001127177.1
32	Gene Seh1l	Seh1, SEH1A, 2 SEH1-like (S. cerevisiae)	NM_028112.2, NM
32	Gene 4930549	4930549G23Ri RIKEN cDNA 4930549G23 gene	NR_045376.1
27	Gene Ldlrad4	D330030L18Ri low density lipoprotein receptor class A domain con	NM_172631.3
22	Gene 4930503	4930503L19Ri RIKEN cDNA 4930503L19 gene	NM_172967.2
22	Gene Stard6	4833424I06Rik StAR-related lipid transfer (START) domain containir	NM_029019.3
30	Gene Mex3c	A130001D14Ri mex3 homolog C (C. elegans)	NM_001039214.4
18	Gene Elac1	2610018O07Ri elac homolog 1 (E. coli)	NM_053255.3
27	Gene Me2	Me2, AW1205 malic enzyme 2, NAD(+)-dependent, mitochondrial	NM_145494.2
16	Gene Mapk4	Prkm4, Mapk4 mitogen-activated protein kinase 4	NM_172632.2
22	Gene Ska1	2810433K01Ri spindle and kinetochore associated complex subunit	NM_025581.4, NM
22	Gene Cxxc1	Cfp1, 2410002 CXXC finger 1 (PHD domain)	NM_028868.3
21	Gene Myo5b	mKIAA1119, A myosin VB	NM_201600.2
46	Gene Rpl17	MGC103289, Fribosomal protein L17	NM_001002239.3
46	Gene Snord58	Snord58b, MB small nucleolar RNA, C/D box 58B	NR_028552.1
46	Gene BC03118	BC031181 cDNA sequence BC031181	NM_001001181.3
40	Gene Dym	C030019K18Ri dymeclin	NM_027727.2
41	Gene Smad7	Smad7, Madh7	NM_001042660.1
29	Gene Ctif	Ctif, Gm672, N CBP80/20-dependent translation initiation factor	NM_201354.2
26	Gene Zbtb7c	B230208J24Ril zinc finger and BTB domain containing 7C	NM_145356.3
29	Gene Ier3ip1	Ier3ip1, AL022 immediate early response 3 interacting protein 1	NM_025409.3

19	Gene St8sia5	Siat8e, MGC41ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltran	NM_013666.2, NM
25	Gene 8030462	8030462N17Ri RIKEN cDNA 8030462N17 gene	NM_178670.3
25	Gene 4930465	4930465K10Ri RIKEN cDNA 4930465K10 gene	NR_027978.1
33	Gene Haus1	MGC36238, BC HAUS augmin-like complex, subunit 1	NM_146089.2
33	Gene Atp5a1	AL022851, Atp ATP synthase, H+ transporting, mitochondrial F1 cor	NM_007505.2
16	Gene F830208	F830208F22Ril RIKEN cDNA F830208F22 gene	XR_107122.1, XR_
16	Gene Pstpip2	MAYP, cmo, P _s proline-serine-threonine phosphatase-interacting pr	NM_013831.4
21	Gene Setbp1	MGC90748, Se SET binding protein 1	NM_053099.2
22	Gene Pard6g	2410049N21Ri par-6 partitioning defective 6 homolog gamma (C. e	NM_053117.3
25	Gene Hsbp1l1	1810005K13Ri heat shock factor binding protein 1-like 1	NM_001136181.1
25	Gene Pqlc1	2310009N05Ri PQ loop repeat containing 1	NM_001164420.1
23	Gene Nfatc1	NFAT2, AI4494 nuclear factor of activated T cells, cytoplasmic, calci	NM_016791.4, NM
27	Gene Atp9b	Atpc2b, I1b, At ATPase, class II, type 9B	NM_015805.3, NM
23	Gene Sall3	Spalt, B130022 sal-like 3 (Drosophila)	NM_178280.3
26	Gene Mbp	mld, shi, R7524 myelin basic protein	NM_001025245.1
17	Gene Zfp236	AI447957, Zfp2 zinc finger protein 236	NM_177832.3
25	Gene Tshz1	5730407I04Rik teashirt zinc finger family member 1	NM_001081300.1
25	Gene Zadh2	Zadh2, C53004 zinc binding alcohol dehydrogenase, domain contain	NM_146090.5
19	Gene Cndp2	Cndp2, 061001 CNDP dipeptidase 2 (metallopeptidase M20 family)	NM_023149.2
17	Gene Socs6	STAT14, 15000 suppressor of cytokine signaling 6	NM_018821.4
30	Gene Cpt1a	C730027G07, (carnitine palmitoyltransferase 1a, liver	NM_013495.2
27	Gene Mtl5	Mtl5, tesmin metallothionein-like 5, testis-specific (tesmin)	NM_001039658.1
27	Gene Ppp6r3	4930528G08Ri protein phosphatase 6, regulatory subunit 3	NM_029456.2, NM
27	Gene Lrp5	LR3, OPPG, mkl low density lipoprotein receptor-related protein 5	NM_008513.3
42	Gene Suv420h	KMT5B, Suv420 suppressor of variegation 4-20 homolog 1 (Drosophi	NM_144871.4, NM
40	Gene Chka	Chetk-alpha, E choline kinase alpha	NM_001025566.1,
31	Gene Cabp4	Cabp4, 241003 calcium binding protein 4	NM_144532.2
31	Gene Gpr152	Gpr152, A9300 G protein-coupled receptor 152	NM_206973.2
31	Gene Coro1b	Coro1b coronin, actin binding protein 1B	NM_011778.2
31	Gene Ptprcap	LSM-1, Ptprcap protein tyrosine phosphatase, receptor type, C poly	NM_016933.3
31	Gene Rps6kb2	Rps6kb2, S6K2 ribosomal protein S6 kinase, polypeptide 2	NM_021485.2
21	Gene Tbc1d10	Tbc1d10c, 181 TBC1 domain family, member 10c	NM_178650.3
21	Gene Ppp1ca	Ppp1c, dism2, protein phosphatase 1, catalytic subunit, alpha isofo	NM_031868.2
21	Gene Rad9a	Rad9, Rad9a RAD9 homolog A	NM_011237.2
23	Gene Clcf1	Clcf1, CLC, Bsf: cardiostrophin-like cytokine factor 1	NM_019952.3
31	Gene Kdm2a	Cxxc8, Jhdm1a lysine (K)-specific demethylase 2A	NM_001001984.2
43	Gene Pcx	Pcx, Pcb, Pc pyruvate carboxylase	NM_008797.3, NM
40	Gene Lrfn4	MGC36464, BC leucine rich repeat and fibronectin type III domain c	NM_153388.4
40	Gene Rce1	D19Ert98e, DRCE1 homolog, prenyl protein peptidase (S. cerevisi	NM_023131.1
40	Gene Gm960	Gm960 predicted gene 960	NM_001033447.3
25	Gene Sptbn2	KIAA0302, MG spectrin beta, non-erythrocytic 2	NM_021287.1
25	Gene Rbm4b	Rbm4b, Lark2, RNA binding motif protein 4B	NM_025717.3
26	Gene Actn3	Actn3, MGC13 actinin alpha 3	NM_013456.1
26	Gene Zdhhc24	5730496N17Ri zinc finger, DHHC domain containing 24	NM_027476.3, NM
26	Gene Bbs1	Bbs1, AI45124 Bardet-Biedl syndrome 1 (human)	NM_001033128.3
26	Gene Peli3	A930011L17, E pellino 3	NM_172835.3
37	Gene Slc29a2	Ent2, Der12, H solute carrier family 29 (nucleoside transporters), m	NM_007854.3

37	Gene B3gnt1	B3gnt1, iGNT, UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyl	NM_175383.2
37	Gene Brms1	AV003220, AV breast cancer metastasis-suppressor 1	NM_134155.1
30	Gene Cd248	Cd164l1, 2610 CD248 antigen, endosalin	NM_054042.2
30	Gene Tmem15	Tmem151, Tm transmembrane protein 151A	NM_001001885.1
25	Gene Cnih2	MGC118475, C cornichon homolog 2 (Drosophila)	NM_009920.3
25	Gene Rab1b	1110011F09Ri RAB1B, member RAS oncogene family	NM_029576.3
32	Gene Klc2	KLC-2, Klc2, 80 kinesin light chain 2	NM_008451.2, NR
31	Gene Pacs1	AI325977, Pac: phosphofurin acidic cluster sorting protein 1	NM_153129.2
31	Gene Sf3b2	SF3b1, Sf3b2, splicing factor 3b, subunit 2	NM_030109.2
24	Gene Gal3st3	Gal3st3	NM_001024717.2
34	Gene Banf1	Banf1, Bcrp1, barrier to autointegration factor 1	NM_011793.2, NM
34	Gene Eif1ad	2010003J03Ri eukaryotic translation initiation factor 1A domain co	NM_027236.2
35	Gene Sart1	Sart1, U5-110k squamous cell carcinoma antigen recognized by T ce	NM_016882.3
35	Gene D33005	D330050I16Ri RIKEN cDNA D330050I16 gene	NR_033224.1
35	Gene Tsga10i	1810013N20Ri testis specific 10 interacting protein	XM_003085377.2,
32	Gene 4930481	4930481A15Ri RIKEN cDNA 4930481A15 gene	NR_015545.1, NR_
32	Gene Drap1	2310074H19Ri Dr1 associated protein 1 (negative cofactor 2 alpha)	NM_024176.1
32	Gene AI83718	Bles03, N2817 expressed sequence AI837181	NM_134149.2, NM
37	Gene Fosl1	Fra1, fra-1, AV fos-like antigen 1	NM_010235.2
37	Gene Ccdc85b	MGC67311, AI coiled-coil domain containing 85B	NM_001243307.1
37	Gene Fibp	3010027N18Ri fibroblast growth factor (acidic) intracellular binding	NM_001253832.1
37	Gene Ctsw	lymphopain, C cathepsin W	NM_009985.4
40	Gene Efemp2	Fbln4, MBP1, epidermal growth factor-containing fibulin-like extr	NM_021474.3, NM
40	Gene Mus81	AW045863, M MUS81 endonuclease homolog (yeast)	NM_027877.3
40	Gene Cfl1	AA959946, Colcofilin 1, non-muscle	NM_007687.5
40	Gene Snx32	B930037P14Ri sorting nexin 32	NM_001024560.2
20	Gene Ovol1	Ovo1, Ovol1, nOVO homolog-like 1 (Drosophila)	NM_019935.3
20	Gene Ap5b1	Ap5b1, Gm962 adaptor-related protein complex 5, beta 1 subunit	NM_001033448.2
32	Gene Rnaseh2	1500026D16Ri ribonuclease H2, subunit C	NM_026616.2
32	Gene Kat5	AI839539, Tip5K(lysine) acetyltransferase 5	NM_178637.2, NM
25	Gene Rela	Rela, p65 v-rel reticuloendotheliosis viral oncogene homolog	NM_009045.4
21	Gene Sipa1	Spa1, KIAA407 signal-induced proliferation associated gene 1	NM_001164568.1
30	Gene Pcnxl3	Pcnxl3, mKIAA pecanex-like 3 (Drosophila)	NM_144868.3
30	Gene Map3k1	PTK1, 2610017 mitogen-activated protein kinase kinase kinase 11	NM_022012.3
40	Gene Ehbp1l1	Ehbp1l1, G430 EH domain binding protein 1-like 1	NM_053252.3, NM
40	Gene Fam89b	Fam89b, 1110 family with sequence similarity 89, member B	NM_181452.2, NM
40	Gene Ssca1	C184L, 150001 Sjogren's syndrome/scleroderma autoantigen 1 hon	NM_020491.4
40	Gene Gm1081	Gm10815, ENS predicted gene 10815	XR_141499.1, XR_
30	Gene Ltbp3	Ltbp2, mFLJ00 latent transforming growth factor beta binding prot	NM_008520.2
16	Gene Scyl1	mdf, C85140, SCY1-like 1 (S. cerevisiae)	NM_023912.2
33	Gene Malat1	NEAT2, AI6479 metastasis associated lung adenocarcinoma transcri	NR_002847.2
28	Gene Cdc42ep	Cep2, Cdc42ep CDC42 effector protein (Rho GTPase binding) 2	NM_026772.2
22	Gene Capn1	Capa1, mu-calpain 1	NM_007600.3, NM
22	Gene Gm1081	ENSMUSG000 predicted gene 10814	NR_045783.1
28	Gene Gm8034	Gm8034, EG66 thymosin, beta 10 pseudogene	
43	Gene Syvn1	1200010C09Ri synovial apoptosis inhibitor 1, synoviolin	NM_028769.5, NM
43	Gene Mrpl49	Mrpl49, Nof1, mitochondrial ribosomal protein L49	NM_026246.3

43	Gene Fau	MNSFbeta, Fa Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV	NM_001160239.2
43	Gene Znhit2	Znhit2-ps, Znh zinc finger, HIT domain containing 2	NM_013859.2
43	Gene Tm7sf2	C14SR, 311004transmembrane 7 superfamily member 2	NM_028454.2
43	Gene Vps51	1110014N23Rivacuolar protein sorting 51 homolog (S. cerevisiae)	NM_001081041.1
26	Gene BC048609	BC048609 cDNA sequence BC048609	NM_001111317.1
26	Gene Zfp1	1500015B20Ri zinc finger like protein 1	NM_024231.2
26	Gene Cdca5	AL024086, Cdc cell division cycle associated 5	NM_026410.3
32	Gene Arl2	Arl2, AW5533:ADP-ribosylation factor-like 2	NM_019722.3
16	Gene Gpha2	Gpha2, zsig51, glycoprotein hormone alpha 2	NM_130453.3
38	Gene Ppp2r5b	Ppp2r5b, B'bet protein phosphatase 2, regulatory subunit B (B56), t	NM_198168.3
38	Gene Atg2a	Atg2a, A830054M12, MGC67447, 1810013C15Rik, mKIAA0404, BC	NM_194348.3
51	Gene Ehd1	Ehd1, RME-1, IEH-domain containing 1	NM_010119.5
22	Gene Cdc42bp	Cdc42bpg, BC CDC42 binding protein kinase gamma (DMPK-like)	NM_001033342.1
22	Gene Men1	Men1, AW045 multiple endocrine neoplasia 1	NM_001168488.1
22	Gene Map4k2	Map4k2, MGC mitogen-activated protein kinase kinase kinase kina	NM_009006.2
32	Gene Sf1	WBP4, BB0947splicing factor 1	NM_011750.2, NM
26	Gene Nrxn2	mKIAA0921, 6. neurexin II	NM_001205234.1
23	Gene Rps6ka4	90kDa, 111006 ribosomal protein S6 kinase, polypeptide 4	NM_019924.1
23	Gene Mir5046	mu-mir-5046, microRNA 5046	NR_039555.1
23	Gene Ccdc88b	Ccdc88b, 2610 coiled-coil domain containing 88B	NM_001081291.1
30	Gene Tex40	MLZ-622, A43(testis expressed 40	NM_001039494.2
33	Gene Kcnk4	MGC144821, Potassium channel, subfamily K, member 4	NM_008431.2
33	Gene Gpr137	Gpr137, AI428 G protein-coupled receptor 137	NM_001177360.1
33	Gene Bad	Bbc2, AI32500 BCL2-associated agonist of cell death	NM_007522.2
23	Gene Plcb3	Plcb3, mKIAA4 phospholipase C, beta 3	NM_008874.3
23	Gene Ppp1r14	PHI-1, PLCB3N protein phosphatase 1, regulatory (inhibitor) subuni	NM_008889.2
23	Gene Fkbp2	13kDa, Fkbp2, FK506 binding protein 2	NM_008020.3, NM
23	Gene Vegfb	VEGF-B, Vrf, Vascular endothelial growth factor B	NM_001185164.1,
22	Gene Dnajc4	Hspf2, Dnajc4, DnaJ (Hsp40) homolog, subfamily C, member 4	NM_020566.1
22	Gene Nudt22	0610006K04Ri nudix (nucleoside diphosphate linked moiety X)-type	NM_026675.2
22	Gene Trpt1	MGC41710, Trp tRNA phosphotransferase 1	NM_153597.2, NR
24	Gene Macrodom	D930010J01Ril MACRO domain containing 1	NM_134147.4
24	Gene Otub1	AI850305, Otu OTU domain, ubiquitin aldehyde binding 1	NM_134150.2
24	Gene Cox8a	COX8L, Cox8a	NM_007750.2
34	Gene Naa40	AU023197, 49: N(alpha)-acetyltransferase 40, NatD catalytic subuni	NM_027643.1
24	Gene Rcor2	Rcor, 1A13, AV REST corepressor 2	NM_054048.3
24	Gene Mark2	mKIAA4207, P: MAP/microtubule affinity-regulating kinase 2	NM_001080388.1
33	Gene AI84614	1700105P06Ri expressed sequence AI846148	NM_001033139.3
33	Gene 1700105	1700105P06Ri RIKEN cDNA 1700105P06 gene	NR_045703.1
31	Gene 2700081	AI848741, AW RIKEN cDNA 2700081O15 gene	NM_175381.6
31	Gene Rtn3	RTN3-A1, AW5 reticulon 3	NM_001003933.1
26	Gene Slc3a2	Ly-m10, 4F2, N solute carrier family 3 (activators of dibasic and neu	NM_001161413.1
32	Gene Snhg1	Snhg1 small nucleolar RNA host gene (non-protein coding)	NR_002896.3
32	Gene Snord22	U22, Snord22, small nucleolar RNA, C/D box 22	NR_004445.1
32	Gene Wdr74	Wdr74, AA407 WD repeat domain 74	NM_134139.1
32	Gene 1700092	1700092M07R RIKEN cDNA 1700092M07 gene	NM_001177347.1
34	Gene Stx5a	Stx5, Stx5a, 06 syntaxin 5A	NM_019829.4, NM

36	Gene Nxf1	Mex67, Mvb1, Nxf1, Tap	NM_016813.2
36	Gene Tmem22	0610006I08Rik transmembrane protein 223	NM_025791.1
36	Gene Tmem17	MGC151338, C transmembrane protein 179B	NM_026325.3, NR
36	Gene Taf6l	Paf65a, PAF65, TAF6-like RNA polymerase II, p300/CBP-associated f	NM_001177798.1,
24	Gene 5730408	5730408K05Ri RIKEN cDNA 5730408K05 gene	NR_027866.1
24	Gene Mir5136	mu-mir-5136, microRNA 5136	NR_039598.1
24	Gene 1810009	1810009A15Ri RIKEN cDNA 1810009A15 gene	NM_025463.2
24	Gene Ints5	Ints5, 1110055 integrator complex subunit 5	NM_176843.3
24	Gene Ganab	G2an, GluII, M alpha glucosidase 2 alpha neutral subunit	NM_008060.1
24	Gene B3gat3	2810405M13R beta-1,3-glucuronyltransferase 3 (glucuronosyltrans	NM_024256.2
24	Gene Rom1	Rgsc1156, M1(rod outer segment membrane protein 1	NM_009073.4
34	Gene Eml3	BC022146, MGechinoderm microtubule associated protein like 3	NM_144872.1
34	Gene Mta2	Mta1l1, Mata1 metastasis-associated gene family, member 2	NM_011842.3
25	Gene Tut1	Rbm21, Tut1, 3-terminal uridylyl transferase 1, U6 snRNA-specific	NM_197993.2
25	Gene Eef1g	AA407312, EF1eukaryotic translation elongation factor 1 gamma	NM_026007.4
19	Gene Ahnak	1110004P15Ri AHNAK nucleoprotein (desmoyokin)	NM_009643.1, NM
27	Gene Incenp	Incenp, AU019 inner centromere protein	NM_016692.3
41	Gene Fth1	HfT, AL033366 ferritin heavy chain 1	NM_010239.1
41	Gene Best1	Bmd, Best1, m bestrophin 1	NM_011913.2
22	Gene Rab3il1	Rab3ail1, AI11 RAB3A interacting protein (rabin3)-like 1	NM_144538.2
22	Gene Fads3	AI464531, Fad fatty acid desaturase 3	NM_021890.3
25	Gene Fads2	Fads2, Fadsd2, fatty acid desaturase 2	NM_019699.1
32	Gene Fads1	AI317215, DSC fatty acid desaturase 1	NM_146094.2
30	Gene Dagla	Nsddr, Dagla, I diacylglycerol lipase, alpha	NM_198114.2
25	Gene Syt7	Syt7, AI851541 synaptotagmin VII	NM_173068.2, NM
25	Gene Lrrc10b	Gm705, Lrrc10 leucine rich repeat containing 10B	NM_001111140.2
29	Gene Sdhaf2	AW049997, M succinate dehydrogenase complex assembly factor 2	NM_025333.4
29	Gene Cpsf7	MGC46982, AI cleavage and polyadenylation specific factor 7	NM_172302.3, NM
17	Gene Tmem21	4921533J23Ri transmembrane protein 216	NM_026798.2
19	Gene Tmem13	2900055D14Ri transmembrane protein 138	NM_028411.3
19	Gene Cyb561a	BC065078, Cyt cytochrome b561 family, member A3	NM_201351.1
22	Gene Dak	BC021917, Dal dihydroxyacetone kinase 2 homolog (yeast)	NM_145496.1
22	Gene Ddb1	Ddb1, AA4085 damage specific DNA binding protein 1	NM_015735.1
25	Gene Vps37c	Vps37c, AU042 vacuolar protein sorting 37C (yeast)	NM_181403.2
18	Gene Tmem10	C77652, 1110C transmembrane protein 109	NM_134142.1
32	Gene Prpf19	AL024362, Sne PRP19/PSO4 pre-mRNA processing factor 19 homolog	NM_001253843.1
26	Gene Gpr44	MGC130436, CG protein-coupled receptor 44	NM_009962.2
26	Gene Ccdc86	4933411H20Ri coiled-coil domain containing 86	NM_023731.3
35	Gene Dtx4	RNF155, Dtx4, deltex 4 homolog (Drosophila)	NM_172442.3
16	Gene Fam111	Fam111a, AW4 family with sequence similarity 111, member A	NM_026640.2
16	Gene A33004	A330040F15Ri RIKEN cDNA A330040F15 gene	NR_015503.1
16	Gene Gm4952	Gm4952, EG24 predicted gene 4952	NM_001013762.2,
24	Gene Tle4	Bce1, ESTM13, transducin-like enhancer of split 4, homolog of Dros	NM_011600.2
23	Gene Psat1	D8Erd814e, P phosphoserine aminotransferase 1	NM_177420.2, NM
24	Gene Cep78	5730599I05Ri centrosomal protein 78	NM_198019.2
24	Gene C13006	C130060C02Ri RIKEN cDNA C130060C02 gene	NR_045355.1
36	Gene Gnaq	Gq, Galphaq, A guanine nucleotide binding protein, alpha q polypep	NM_008139.5

22	Gene Gna14	Gna14, AU023 guanine nucleotide binding protein, alpha 14	NM_008137.4
22	Gene Vps13a	4930516E05Ri vacuolar protein sorting 13A (yeast)	NM_173028.4
23	Gene Rfk	Rfk, KOI-4, 061 riboflavin kinase	NM_019437.3
22	Gene Pcsk5	PC6, SPC6, PC5 proprotein convertase subtilisin/kexin type 5	NM_001163144.1
29	Gene Ostf1	SH3P2, Sh3d3, osteoclast stimulating factor 1	NM_017375.3
29	Gene Nmrk1	AA408380, BC016495, Nr1, D630020N23Rik, MGC25909, Nmrk1	NM_145497.2
23	Gene 2410127	2410127L17Ril RIKEN cDNA 2410127L17 gene	NM_026120.4, XM
23	Gene D030056	D030056L22Ri RIKEN cDNA D030056L22 gene	NM_177640.4
29	Gene LOC101056249	uncharacterized LOC101056249	XM_003945593.1
29	Gene Zfand5	Zfp216, 58304 zinc finger, AN1-type domain 5	NM_009551.5
20	Gene 1110059	1110059E24Ri RIKEN cDNA 1110059E24 gene	NM_025423.2
20	Gene Abhd17b	Abhd17b, Fam abhydrolase domain containing 17B	NM_146096.3
24	Gene Tmem2	Tmem2, MGC1transmembrane protein 2	NM_001033759.1
31	Gene Klf9	Bteb1, 231005 Kruppel-like factor 9	NM_010638.4
31	Gene Mir1192	Mir1192, mmu microRNA 1192	NR_035423.1
20	Gene Smc5	Smc5, MGC30 structural maintenance of chromosomes 5	NM_001252684.1
21	Gene Ptar1	Ptar1, 170008 protein prenyltransferase alpha subunit repeat cont	NM_028208.1
26	Gene Apba1	Apba1, X11alp amyloid beta (A4) precursor protein binding, family	NM_177034.3
32	Gene Pip5k1b	Pipk5b, Pipk5a phosphatidylinositol-4-phosphate 5-kinase, type 1 b	NM_008846.2
32	Gene Fam122	2900009I07Rik family with sequence similarity 122, member A	NM_026520.3
25	Gene Kank1	A930031B09Ri KN motif and ankyrin repeat domains 1	NM_181404.5
21	Gene Dmrt1	Dmrt1 doublesex and mab-3 related transcription factor 1	NM_015826.5
20	Gene Dmrt3	Dmrt3 doublesex and mab-3 related transcription factor 3	NM_177360.3
25	Gene Smarca2	brm, SNF2alph SWI/SNF related, matrix associated, actin dependen	NM_026003.2, NM
25	Gene Rfx3	C230093O12Ri regulatory factor X, 3 (influences HLA class II expres	NM_011265.3, NM
21	Gene Glis3	E230012L24, G GLIS family zinc finger 3	NM_175459.5
21	Gene D930032	D930032P07Ri RIKEN cDNA D930032P07 gene	NR_045330.1
25	Gene Cdc37l1	2700033A15Ri cell division cycle 37-like 1	NM_025950.2
30	Gene Rcl1	C76567, Rnac, RNA terminal phosphate cyclase-like 1	NM_021525.2
27	Gene A930007	A930007I19Ril RIKEN cDNA A930007I19 gene	NR_015567.2
27	Gene C030046	C130057E09Ri RIKEN cDNA C030046E11 gene	NM_001081319.1
34	Gene 9930021	9930021J03Ril RIKEN cDNA 9930021J03 gene	NM_172836.3
34	Gene Ranbp6	FLJ11120, C63 RAN binding protein 6	NM_177721.4
33	Gene Uhrf2	AW214556, 23 ubiquitin-like, containing PHD and RING finger doma	NM_144873.2
28	Gene Sgms1	Sor1, Mob, MC sphingomyelin synthase 1	NM_144792.4, NM
28	Gene 2700046	2700046G09Ri RIKEN cDNA 2700046G09 gene	NR_033198.1
24	Gene Minpp1	Minpp1, AA40 multiple inositol polyphosphate histidine phosphata	NM_010799.2
23	Gene Atad1	Thorase, AW1 ATPase family, AAA domain containing 1	NM_026487.3
28	Gene Pten	AI463227, Pter phosphatase and tensin homolog	NM_008960.2
31	Gene Stambpl	ALMalpha, Sta STAM binding protein like 1	NM_029682.4
29	Gene Pank1	5430426F23Ril pantothenate kinase 1	NM_023792.1, NM
21	Gene Hectd2	A630025O09R HECT domain containing 2	NM_001163471.1
29	Gene Tnks2	Tank2, AI6624 tankyrase, TRF1-interacting ankyrin-related ADP-rib	NM_001163635.1
38	Gene Fgfbp3	Fgfbp3, 26103 fibroblast growth factor binding protein 3	NM_028263.1
38	Gene Btaf1	Btaf1, AI4145C BTA1 RNA polymerase II, B-TFIID transcription fact	NM_001080706.1
26	Gene Cpeb3	Cpeb3, 48314 cytoplasmic polyadenylation element binding protei	NM_198300.2
26	Gene A330032	A330032B11Ri RIKEN cDNA A330032B11 gene	NR_045329.1

25	Gene March5	5730499H23Ri	membrane-associated ring finger (C3HC4) 5	NM_027314.3, NM
42	Gene Kif11	Kif11, Kif8,	Kif1 kinesin family member 11	NM_010615.1
17	Gene Exoc6	4833405E05Ri	exocyst complex component 6	NM_175353.2
26	Gene I830134I	I830134H01Ri	RIKEN cDNA I830134H01 gene	XR_105963.2
26	Gene Cep55	2700032M20R	centrosomal protein 55	NM_028760.2, NM
29	Gene Tbc1d12	BC033574, MC	TBC1D12: TBC1 domain family, member 12	NM_145952.3
20	Gene Hells	LSH, Hells,	E13 helicase, lymphoid specific	NM_008234.3
26	Gene Cc2d2b	Cc2d2b, EG66	coiled-coil and C2 domain containing 2B	XM_001000795.4,
26	Gene Ccnj	D430039C20Ri	cyclin J	NM_172839.4
23	Gene Zfp518a	2810401C22Ri	zinc finger protein 518A	NM_028319.1
27	Gene Tm9sf3	Tm9sf3, Smbp,	transmembrane 9 superfamily member 3	NM_133352.2
27	Gene Pik3ap1	Pik3ap1, 1810	(phosphoinositide-3-kinase adaptor protein 1	NM_031376.3
26	Gene Frat1	Frat1, AW060	frequently rearranged in advanced T cell lymphoma:	NM_008043.3
23	Gene Frat2	Frat2, MGC37	frequently rearranged in advanced T cell lymphoma:	NM_177603.3
30	Gene Rrp12	mKIAA0690, Rr	ribosomal RNA processing 12 homolog (S. cerevisiae	NM_199447.2
24	Gene Pgam1	Pgam1, MGC1	phosphoglycerate mutase 1	NM_023418.2
42	Gene Exosc1	AI447561, 261	exosome component 1	NM_025644.4, NM
42	Gene Zdhhc16	1500015N03Ri	zinc finger, DHHC domain containing 16	NM_023740.2
42	Gene Mms19	C86341, AI316	MMS19 (MET18 S. cerevisiae)	NM_028152.3
31	Gene Ubtd1	BC016129, MC	ubiquitin domain containing 1	NM_145500.3
38	Gene Marveld	MGC62793, AI	MARVEL (membrane-associating) domain containing	NM_183195.2
25	Gene Golga7b	AI839934, 493	golgi autoantigen, golgin subfamily a, 7B	NM_027694.2, NM
23	Gene R3hcc1l	C10orf28, D19	R3H domain and coiled-coil containing 1 like	NM_177464.4
21	Gene Nkx2-3	tinman, Nkx2-	NK2 transcription factor related, locus 3 (Drosophila	NM_008699.2
22	Gene Entpd7	Entpd7, LALP1	ectonucleoside triphosphate diphosphohydrolase 7	NM_053103.5
25	Gene Cox15	Cox15, 290002	cytochrome c oxidase assembly protein 15	NM_144874.4
25	Gene Cutc	AI326282, 231	cutC copper transporter homolog (E.coli)	NM_025530.3, NM
19	Gene Dnmbp	2410003L07Ri	dynamin binding protein	NM_028029.3
32	Gene Erlin1	2810439N09Ri	ER lipid raft associated 1	NM_145502.3, NM
32	Gene Chuk	Fbx24, Ikka, Fb	conserved helix-loop-helix ubiquitous kinase	NM_007700.2, NM
29	Gene Cwf19l1	AI854304, AV3	CWF19-like 1, cell cycle control (S. pombe)	NM_001081077.1
19	Gene Pax2	Pax-2, Pax2, O	paired box gene 2	NM_011037.4
19	Gene 1700039	1700039E22Ri	RIKEN cDNA 1700039E22 gene	NR_045315.1
32	Gene Fam178:	Fam178a, AU0	family with sequence similarity 178, member A	NM_001081225.1
36	Gene Sema4g	AW554132, AI	sema domain, immunoglobulin domain (Ig), transme	NM_011976.1
36	Gene Mrpl43	bMRP36a, Mr	mitochondrial ribosomal protein L43	NM_053164.3
36	Gene Peo1	Twinkl, PEO, M	(progressive external ophthalmoplegia 1 (human)	NM_153796.3
36	Gene Lzts2	MGC7094, LAF	leucine zipper, putative tumor suppressor 2	NM_145503.2, NM
36	Gene Kazald1	Bono1, IGFBP-	Kazal-type serine peptidase inhibitor domain 1	NM_178929.4
19	Gene Lbx1	Lbx1, Lbx1h	ladybird homeobox homolog 1 (Drosophila)	NM_010691.5
24	Gene Fbxw4	Fbw4, SHSF3,	F-box and WD-40 domain protein 4	NM_013907.2
29	Gene Fgf8	Fgf8, MGC596:	fibroblast growth factor 8	NM_010205.2, NM
29	Gene Npm3	Npm3, Nub1	nucleoplasmin 3	NM_008723.1
30	Gene Mgea5	mKIAA0679, 2:	meningioma expressed antigen 5 (hyaluronidase)	NM_023799.3
30	Gene Kcnip2	Kcnip2, KChIP2	Kv channel-interacting protein 2	NM_030716.2, NM
21	Gene 9130011	AI431055, 913	RIKEN cDNA 9130011E15 gene	NM_198296.2
21	Gene Hps6	Hps6, BLOC2, I	Hermansky-Pudlak syndrome 6	NM_176785.3

24	Gene Ldb1	Ldb1, CLIM2, LIM domain binding 1	NM_010697.1, NM
61	Gene Pprc1	MGC12121, PF peroxisome proliferative activated receptor, gamma	NM_001081214.1
22	Gene Nolc1	mKIAA0035, A nucleolar and coiled-body phosphoprotein 1	NM_001039351.1
26	Gene Elovl3	CIN-2, Elovl3, (elongation of very long chain fatty acids (FEN1/Elo2,	NM_007703.2
26	Gene Pitx3	ak, Pitx3, Ptx3 paired-like homeodomain transcription factor 3	NM_008852.4
20	Gene Gbf1	AI035702, Gbf golgi-specific brefeldin A-resistance factor 1	NM_178930.3
35	Gene 4833438	4833438C02Ri RIKEN cDNA 4833438C02 gene	XR_107188.1, XR_
35	Gene Nfkb2	NF-kappaB2, p nuclear factor of kappa light polypeptide gene enha	NM_001177369.1
35	Gene Psd	Efa6a, mKIAA2 pleckstrin and Sec7 domain containing	NM_028627.2
29	Gene Fbxl15	0710008C12Ri F-box and leucine-rich repeat protein 15	NM_133694.2
29	Gene Cuedc2	Cuedc2, 30100 CUE domain containing 2	NM_001164290.1
29	Gene Mir146b	Mir146b, Mirn microRNA 146b	NR_030468.1
29	Gene 2310034	2310034G01Ri RIKEN cDNA 2310034G01 gene	NR_040418.1
29	Gene Tmem18	Tmem180, 49% transmembrane protein 180	NM_029186.2
49	Gene Trim8	Trim8, AA408% tripartite motif-containing 8	NM_053100.2
22	Gene Arl3	Arl3	NM_019718.2
22	Gene Sfxn2	C79732, F6301 sideroflexin 2	NM_053196.3
20	Gene Nt5c2	Gmp, 2010002 5'-nucleotidase, cytosolic II	NM_001164363.1
20	Gene Ina	NF-66, Ina, AVI internexin neuronal intermediate filament protein, %	NM_146100.4
30	Gene Taf5	6330528C20Ri TAF5 RNA polymerase II, TATA box binding protein (	NM_177342.3
22	Gene Gm6970	Gm6970, EG62 histone cluster 1, H1b pseudogene	
26	Gene Neurl1a	Rnf67, AI4509: neuralized homolog 1A (Drosophila)	NM_021360.4, NM
26	Gene Sh3pxd2	AI413738, AA5 SH3 and PX domains 2A	NM_008018.4, NM
21	Gene Sfr1	Sfr1, Meir5, 63 SWI5 dependent recombination repair 1	NM_026377.2
21	Gene Wdr96	AI429486, FLJ2WD repeat domain 96	NM_027559.2
21	Gene Gsto1	AU018802, GS glutathione S-transferase omega 1	NM_010362.2
21	Gene Gsto2	Gsto2, 170002 glutathione S-transferase omega 2	NM_026619.2, NM
27	Gene Itrip1	mKIAA1754, It inositol 1,4,5-triphosphate receptor interacting prot	NM_001001738.2
36	Gene Xpnpep1	sAMP, Xpnpep X-prolyl aminopeptidase (aminopeptidase P) 1, solu	NM_133216.2
20	Gene Add3	R75380, AI463 adducin 3 (gamma)	NM_013758.3, NM
43	Gene Mxi1	ENSMUSG000(Max interacting protein 1	NM_001008542.2
24	Gene Smndc1	4933440I19Rik survival motor neuron domain containing 1	NM_172429.2
31	Gene Dusp5	Dusp5, Gm337 dual specificity phosphatase 5	NM_001085390.1
31	Gene Smc3	HCAP, SmcD, S structural maintenance of chromosomes 3	NM_007790.3
22	Gene Rbm20	Rbm20, 20100 RNA binding motif protein 20	NM_001170847.1
31	Gene Pdcd4	Pdcd4, Ma3, D programmed cell death 4	NM_011050.4, NM
31	Gene Gm1978	Gm19788 predicted gene, 19788	XR_105988.1
24	Gene Adra2a	alpha(2A)AR, A adrenergic receptor, alpha 2a	NM_007417.4
26	Gene Gpat	GPAT1, GPAT, glycerol-3-phosphate acyltransferase, mitochondrial	NM_008149.3
29	Gene Zdhhc6	C77369, AI462 zinc finger, DHHC domain containing 6	NM_025883.3, NM
29	Gene Vti1a	Vti1-rp2, MVti vesicle transport through interaction with t-SNAREs	NM_016862.3
21	Gene Tcf7l2	Tcf-4, Tcf7l2, n transcription factor 7 like 2, T cell specific, HMG box	NM_009333.3, NM
27	Gene Dclre1a	SNM1, mKIAA(DNA cross-link repair 1A, PSO2 homolog (S. cerevisia	NM_018831.4
27	Gene Nhlrc2	1200003G01Ri NHL repeat containing 2	NM_025811.3
31	Gene A630007	Otg1, AI15970 RIKEN cDNA A630007B06 gene	NM_170757.1
31	Gene Tdrd1	Tdrd1, MTR-1 tudor domain containing 1	NM_031387.3, NM
25	Gene Afap1l2	C86904, KIAA1 actin filament associated protein 1-like 2	NM_001177796.1,

31	Gene B230217B230217O12R RIKEN cDNA B230217O12 gene	NR_040316.1
31	Gene Fam160l Al450540, mKl family with sequence similarity 160, member B1	NM_145505.4
32	Gene Atrnl1 Al504415, Atrr attractin like 1	NM_181415.4
18	Gene Hspa12a 1700063D12Ri heat shock protein 12A	NM_175199.3
30	Gene Pdzd8 Pdzd8, AW228 PDZ domain containing 8	NM_001033222.3
24	Gene Emx2os Emx2os EMX2 opposite strand/antisense RNA (non-protein c	NR_002863.2
24	Gene Emx2 Pdo, Emx2 empty spiracles homeobox 2	NM_010132.2
26	Gene Rab11fip2 Rab11fip2, 49E RAB11 family interacting protein 2 (class I)	NM_001033172.3
26	Gene 493047C4930470F04Ri RIKEN cDNA 4930470F04 gene	XM_003945592.1,
29	Gene D19ErtD19ErtD737e, DNA segment, Chr 19, ERATO Doi 737, expressed	NM_029648.6
18	Gene Prlhr Gpr10, Gm339 prolactin releasing hormone receptor	NM_201615.2
24	Gene Cacul1 2700078E11Ri CDK2 associated, cullin domain 1	NM_001172096.1
25	Gene Nanos1 Nanos1 nanos homolog 1 (Drosophila)	NM_178421.3
33	Gene Eif3a Eif3a, Eif3, mK eukaryotic translation initiation factor 3, subunit A	NM_010123.3
20	Gene Fam171a Fam171a1, 96E family with sequence similarity 171, member A1	NM_001081161.1
34	Gene Nmt2 hNMT-2, Al60E N-myristoyltransferase 2	NM_008708.1
24	Gene Suv39h2 D030054H19R suppressor of variegation 3-9 homolog 2 (Drosophila)	NM_022724.4, NR
26	Gene Hspa14 NST-1, Hspa14 heat shock protein 14	NM_015765.2
26	Gene LOC100861945 uncharacterized LOC100861945	XM_003688773.1,
26	Gene Cdnf Cdnf, 9330140 cerebral dopamine neurotrophic factor	NM_177647.4
21	Gene Camk1d A630059D12Ri calcium/calmodulin-dependent protein kinase ID	NM_177343.3
29	Gene Taf3 mTAFII140, TA TAF3 RNA polymerase II, TATA box binding protein (	NM_027748.3
29	Gene Atp5c1 1700094F02Ri ATP synthase, H+ transporting, mitochondrial F1 cor	NM_020615.4, NM
25	Gene Kin Kin, Kin17 antigenic determinant of rec-A protein	NM_025280.2
29	Gene Pfkfb3 iPFK-2, E330016-phosphofructo-2-kinase/fructose-2,6-biphosphata	NM_001177752.1
20	Gene Rbm17 Rbm17, 27000 RNA binding motif protein 17	NM_152824.1
28	Gene Fbxo18 Fbx18, Fbxo18 F-box protein 18	NM_015792.1
28	Gene Ankrd16 D430029B21Ri ankyrin repeat domain 16	NM_177268.4
44	Gene Vim MGC102095, vimentin	NM_011701.4
17	Gene St8sia6 Siat8f, Al3144E ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltran	NM_145838.1
31	Gene Ptpla Ptpla, HACD1 protein tyrosine phosphatase-like (proline instead o	NM_001012396.2,
25	Gene 492153C4921530L18Ri RIKEN cDNA 4921530L18 gene	NR_038162.1
25	Gene Stam STAM1, Stam signal transducing adaptor molecule (SH3 domain ar	NM_011484.2
25	Gene Cacnb2 Cchb2, MGC12 calcium channel, voltage-dependent, beta 2 subunit	NM_001252533.1,
23	Gene Nsun6 Nsun6, 493341NOL1/NOP2/Sun domain family member 6	NM_028950.4, NM
23	Gene Arl5b Arl5b, 493058E ADP-ribosylation factor-like 5B	NM_029466.4
16	Gene Pldc2 AU022916, AlE plexin domain containing 2	NM_026162.5
22	Gene A930004 AU022051, A9 RIKEN cDNA A930004D18 gene	NR_028376.1, NR_
22	Gene Gm1776 Gm17762 predicted gene, 17762	NR_028378.1
19	Gene Skida1 2810030E01Ri SKI/DACH domain containing 1	NM_028317.2
26	Gene Mllt10 B130021D15Ri myeloid/lymphoid or mixed-lineage leukemia (trithc	NM_001252560.1
26	Gene LOC101055966 uncharacterized LOC101055966	XM_003945326.1,
25	Gene Dnajc1 Dnajl1, Dnajc1 DnaJ (Hsp40) homolog, subfamily C, member 1	NM_001190817.1
21	Gene Commd3 Bup, AW55081COMM domain containing 3	NM_147778.3
26	Gene Bmi1 Pcgf4, Bmi-1, Bmi1 polycomb ring finger oncogene	NM_007552.4
26	Gene LOC101055977 uncharacterized LOC101055977	XM_003945327.1
26	Gene BC061195 BC061194	NM_001001334.2

26	Gene Gm3363	Gm3363	predicted gene 3363	XM_003945325.1
29	Gene Pip4k2a	AW742916,	Pip phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	NM_008845.4
29	Gene 4930426	4930426L09Ril	RIKEN cDNA 4930426L09 gene	NR_024323.1
21	Gene Gm3230	Gm3230	predicted gene 3230	NR_033642.1
21	Gene Otud1	Otud1, 493342	OTU domain containing 1	NM_027715.1
28	Gene Arhgap2	Arhgap21, 553	Rho GTPase activating protein 21	NM_001128084.2
28	Gene Gm1337	Gm13375,	OTU predicted gene 13375	NR_033225.1
27	Gene Abi1	E3B1, Ssh3bp1	abl-interactor 1	NM_001077190.1
26	Gene Ehmt1	D330003E03,	euchromatic histone methyltransferase 1	NM_001109686.1
26	Gene Arrdc1	BC004091,	Arr arrestin domain containing 1	NM_001162485.1
38	Gene Zmynd1	2700064H14Ri	zinc finger, MYND domain containing 19	NM_026021.3
32	Gene Wdr85	Wdr85, AW061	WD repeat domain 85	NM_026044.3
32	Gene Mrpl41	Mrpl41, Rpml2	mitochondrial ribosomal protein L41	NM_001031808.2
32	Gene Pnpla7	MGC6929,	Nre patatin-like phospholipase domain containing 7	NM_146251.4
26	Gene Nsmf	Jacob, Nelf, Ns	NMDA receptor synaptonuclear signaling and neuro	NM_001039387.1
36	Gene Nrarp	Nrarp, 270005	Notch-regulated ankyrin repeat protein	NM_025980.2
29	Gene Ndor1	NR1, Ndor1,	N NADPH dependent diflavin oxidoreductase 1	NM_001082476.2
29	Gene Tmem20	Hbebp1, Tmen	transmembrane protein 203	NM_177344.3
29	Gene Tprn	C87750,	RP23- taperin	NM_175286.4
29	Gene Ssna1	NA14, Ssna1,	Sjogren's syndrome nuclear autoantigen 1	NM_023464.2
29	Gene Anapc2	Imi4, Apc2, 92	anaphase promoting complex subunit 2	NM_175300.4
28	Gene Dpp7	Dpp2, DPPII,	D dipeptidylpeptidase 7	NM_031843.2
43	Gene Uap1l1	Uap1l1, 57304	UDP-N-acetylglucosamine pyrophosphorylase 1-like	NM_001033293.2
43	Gene Sapcd2	AL033337, 603	suppressor APC domain containing 2	NM_001081085.1
23	Gene Entpd2	Entpd2, Cd391	ectonucleoside triphosphate diphosphohydrolase 2	NM_009849.2
23	Gene Npdc1	NPDC-1, Npdc	neural proliferation, differentiation and control 1	NM_008721.3
23	Gene Lcn12	MGC130532,	lipocalin 12	NM_029958.1
23	Gene C8g	1700013L23Ril	complement component 8, gamma polypeptide	NM_027062.1
23	Gene Fbxw5	AI159739,	Fbw F-box and WD-40 domain protein 5	NM_013908.4
24	Gene Traf2	AI325259,	Traf TNF receptor-associated factor 2	NM_009422.2
28	Gene Edf1	Edf1, 0610008	endothelial differentiation-related factor 1	NM_021519.1
31	Gene Mamdc4	Mamdc4, Gm9	MAM domain containing 4	NM_001081199.1
31	Gene Phpt1	Phpt1, Php14,	phosphohistidine phosphatase 1	NM_029293.2
31	Gene Gm996	Gm996, MGC6	predicted gene 996	NM_001005424.2
31	Gene Rabl6	Rbel1, parf,	Rb RAB, member of RAS oncogene family-like 6	NM_001024616.1
31	Gene 4921530	4921530D09Rik,	Kiaa1984	NM_029859.1
21	Gene Camsap1	PRO2405, 9531	calmodulin regulated spectrin-associated protein 1	NM_001115076.1
19	Gene C330006	AI551216, C33	RIKEN cDNA C330006A16 gene	NM_001256521.1
39	Gene Qsox2	Qsox2, SOXN,	quiescin Q6 sulfhydryl oxidase 2	NM_153559.2
39	Gene C030048	C030048H21Ri	RIKEN cDNA C030048H21 gene	XM_003945328.1
30	Gene Gpsm1	Gpsm1, 18100	G-protein signalling modulator 1 (AGS3-like, C. elegans)	NM_153410.5, NM
29	Gene Dnlz	D2Bwg1335e,	DNL-type zinc finger	NM_026828.3, NM
29	Gene Card9	Card9, Gm782	caspase recruitment domain family, member 9	NM_001037747.1
29	Gene Snapc4	MGC59524,	Sn small nuclear RNA activating complex, polypeptide 4	NM_172339.4, NR
24	Gene Sdccag3	C330016H24Ri	serologically defined colon cancer antigen 3	NM_001085408.1
24	Gene Pmpca	P-55, 1200002	peptidase (mitochondrial processing) alpha	NM_173180.3
24	Gene Inpp5e	72kDa, Inpp5e	inositol polyphosphate-5-phosphatase E	NM_033134.2

34	Gene Sec16a	Sec16a, MGC3 SEC16 homolog A (<i>S. cerevisiae</i>)	NM_153125.2
34	Gene 0610009	0610009E02Ri RIKEN cDNA 0610009E02 gene	XR_140496.1, XR_
40	Gene Notch1	N1, lin-12, Tan1, 9930111A19Rik, Mis6, Notch1	NM_008714.3
33	Gene Agpat2	Agpat2, AV00C 1-acylglycerol-3-phosphate O-acyltransferase 2 (<i>lysc</i>	NM_026212.1
25	Gene Fam69b	AW209000, AE family with sequence similarity 69, member B	NM_019833.3
25	Gene Snhg7	2610002F03Ri small nucleolar RNA host gene (non-protein coding)	NR_024068.2
25	Gene Snora43	ACA43, Snora4 small nucleolar RNA, H/ACA box 43	NR_028572.1
25	Gene Snora17	ACA17, Snora1 small nucleolar RNA, H/ACA box 17	NR_028571.1
25	Gene 5730588	5730588L14Ri RIKEN cDNA 5730588L14 gene	XR_104657.3, XR_
25	Gene Gm2240	Gm2240 predicted gene 2240	XM_001472904.2,
61	Gene Surf6	Surf6, Surf-6, I surfeit gene 6	NM_009298.3
61	Gene Med22	AW212655, Su mediator complex subunit 22	NM_011513.2, NM
61	Gene Rpl7a	Surf3, Rpl7a, N ribosomal protein L7A	NM_013721.3
61	Gene Surf1	Surf-1, Surf1, C surfeit gene 1	NM_013677.2
61	Gene Surf2	Surf2, Surf-2 surfeit gene 2	NM_013678.2
61	Gene Surf4	AL033340, ALC surfeit gene 4	NM_011512.3
23	Gene Gm711	Sgk071, Gm71 predicted gene 711	NM_198628.2
24	Gene Adams1	Gm710, Adam a disintegrin-like and metallopeptidase (reprolysin t	NM_001001322.2
24	Gene Cacfd1	5930434B04Ri calcium channel flower domain containing 1	NM_001243239.1
39	Gene Vav2	2810040F13Ri vav 2 oncogene	NM_009500.1
33	Gene Brd3	RINGL3, 2410C bromodomain containing 3	NM_001113573.1
29	Gene Wdr5	AA960360, 24: WD repeat domain 5	NM_080848.2
28	Gene Rxra	RXRalpha1, Rx retinoid X receptor alpha	NM_011305.3
26	Gene Col5a1	Col5a1, AI4135 collagen, type V, alpha 1	NM_015734.2
25	Gene 1700007	1700007K13Ri RIKEN cDNA 1700007K13 gene	NM_027040.1
25	Gene Mrps2	Mrps2, 15000: mitochondrial ribosomal protein S2	NM_080452.3, NM
22	Gene Gbgt1	Fs, Gbgt1, MG globoside alpha-1,3-N-acetylgalactosaminyltransfer:	NM_139197.2
22	Gene Ralgds	Rgds, mKIAA13: ral guanine nucleotide dissociation stimulator	NM_009058.2, NM
18	Gene Tsc1	mKIAA0243, T: tuberous sclerosis 1	NM_022887.3
42	Gene Gtf3c4	AI426938, Gtf: general transcription factor IIIC, polypeptide 4	NM_172977.3, NM
42	Gene Ddx31	5830444G11Ri DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 31	NM_001033294.3
22	Gene Barhl1	MBH2, Dres11 BarH-like 1 (<i>Drosophila</i>)	NM_019446.4, NM
22	Gene 1700101	Gm823, 17001 RIKEN cDNA 1700101E01 gene	NM_001085514.2,
22	Gene Ttf1	Ttf1, AV24572: transcription termination factor, RNA polymerase I	NM_009442.2
17	Gene Ntng2	Lmnt2, Ntng2, netrin G2	NM_133500.1, NM
17	Gene 6530402	mKIAA1857, 6: RIKEN cDNA 6530402F18 gene	NR_029460.1
21	Gene Med27	D2Erd434e, C mediator complex subunit 27	NM_026896.4
19	Gene 2600006	2600006K01Ri RIKEN cDNA 2600006K01 gene	XR_107356.1, XR_
39	Gene Cercam	AL024097, Cer cerebral endothelial cell adhesion molecule	NM_207298.2
39	Gene Odf2	MMTEST29, AI outer dense fiber of sperm tails 2	NM_013615.3, NM
34	Gene Gle1	4933405K21Ri GLE1 RNA export mediator (yeast)	NM_028923.3
31	Gene Sptan1	Spna2, Spna-2, spectrin alpha, non-erythrocytic 1	NM_001076554.2
37	Gene Wdr34	Wdr34, MGC1: WD repeat domain 34	NM_001008498.2
30	Gene Set	2610030F17Ri SET nuclear oncogene	NM_023871.4, NM
30	Gene Pkn3	BC034126, AW protein kinase N3	NM_153805.1
27	Gene 1700084	1700084E18Ri RIKEN cDNA 1700084E18 gene	NR_028299.1
27	Gene Lrrc8a	MGC61242, Lr leucine rich repeat containing 8A	NM_177725.4

30	Gene Phyh1	Phyh1, MGC4phytanoyl-CoA dioxygenase domain containing 1	NM_001252568.1
30	Gene Dolk	BC026973, Tm dolichol kinase	NM_177648.3
30	Gene Nup188	mKIAA0169, B nucleoporin 188	NM_198304.2
30	Gene Crat	AW107812, Cr carnitine acetyltransferase	NM_007760.3
30	Gene Ppp2r4	PR53, MGC712 protein phosphatase 2A, regulatory subunit B (PR 53	NM_138748.5
46	Gene Ier5l	2610524G09Ri immediate early response 5-like	NM_030244.3
24	Gene Gm1448	Gm14486, OT predicted gene 14486	XM_991478.2, XM
21	Gene Gm1448	Gm14488, OT predicted gene 14488	XR_140500.1
21	Gene Mir3089	mmu-mir-3089 microRNA 3089	NR_037272.1
19	Gene LOC101055740	uncharacterized LOC101055740	XM_003945332.1,
28	Gene Tor1b	DQ1, Tor1b, t torsin family 1, member B	NM_133673.3
28	Gene Tor1a	Dyt1, torsinA, t torsin family 1, member A (torsin A)	NM_144884.2
28	Gene BC00562	BC005624, RP cDNA sequence BC005624	NM_144885.2
29	Gene Fnbp1	Fnbp1, 221001 formin binding protein 1	NM_001038700.2
29	Gene D33002	D330023K18Ri RIKEN cDNA D330023K18 gene	NR_040334.1
29	Gene Gpr107	mKIAA1624, A G protein-coupled receptor 107	NM_178760.4
25	Gene Ncs1	NCS-1, AI8366 neuronal calcium sensor 1	NM_019681.3
20	Gene Hmcn2	Hmcn2, D0300 hemicentin 2	XM_003084486.2,
20	Gene Ass1	Ass1, MGC103 argininosuccinate synthetase 1	NM_007494.3
22	Gene Fubp3	FBP3, A330051 far upstream element (FUSE) binding protein 3	NM_001033389.3
21	Gene Exosc2	Exosc2, Rrp4, l exosome component 2	NM_144886.2
21	Gene Abl1	c-Abl, MGC117 c-abl oncogene 1, non-receptor tyrosine kinase	NM_009594.3, NM
23	Gene Fam78a	A130092J06Ri family with sequence similarity 78, member A	NM_175511.4
25	Gene Prcc2b	Bat2l1, Bat2l, l proline-rich coiled-coil 2B	NM_172661.3, NM
30	Gene Dnm1	KIAA4093, mKl dynamin 1	NM_010065.2
30	Gene Ciz1	LSFR1, 290005 CDKN1A interacting zinc finger protein 1	NM_001252534.1,
26	Gene 1110008	C79326, 11100 RIKEN cDNA 1110008P14 gene	NM_198001.2
26	Gene Lcn2	Lcn2, AW2122 lipocalin 2	NM_008491.1
32	Gene Fam102	Eeig1, AI42646 family with sequence similarity 102, member A	NM_153560.4
22	Gene St6galna	Siat7d, MGC10 ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-	NM_011373.2
22	Gene St6galna	Siat7f, St6galn: ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-	NM_001025311.1
17	Gene Eng	CD105, AI5286 endoglin	NM_007932.2, NM
20	Gene Fpgs	Fpgs, AA40818 folylpolyglutamyl synthetase	NM_010236.2
30	Gene Cdk9	PITALRE, Cdk9 cyclin-dependent kinase 9 (CDC2-related kinase)	NM_130860.3
30	Gene Mir2861	Mir2861, mmu microRNA 2861	NR_037217.1
30	Gene Mir3960	Mir3960, mmu microRNA 3960	NR_039536.1
30	Gene Sh2d3c	Chat, Shep1, N SH2 domain containing 3C	NM_001252547.1
27	Gene Tor2a	Tor2a, Prosalu torsin family 2, member A	NM_152800.3, NR
27	Gene Ttc16	Ttc16, 120000: tetratricopeptide repeat domain 16	NM_177384.2
21	Gene Stxbp1	Sxtbp1, Unc18 syntaxin binding protein 1	NM_009295.2, NM
33	Gene Fam129	9130404D14Ri family with sequence similarity 129, member B	NM_146119.2
50	Gene Lrsam1	Lrsam1, MGC5 leucine rich repeat and sterile alpha motif containin	NM_199302.2
50	Gene Rpl12	MGC102182, R ribosomal protein L12	NM_009076.3
50	Gene Snora65	Snora65, MBII- small nucleolar RNA, H/ACA box 65	NR_002898.2
50	Gene Slc2a8	GLUT8, GlutX1 solute carrier family 2, (facilitated glucose transport	NM_019488.4
29	Gene Garnl3	Garnl3, AW120 GTPase activating RANGAP domain-like 3	NM_178888.4
23	Gene Zbtb34	Zbtb34, mKIAA zinc finger and BTB domain containing 34	NM_001085507.1

28	Gene Zbtb43	Zbtb43, 17000 zinc finger and BTB domain containing 43	NM_001025594.1
30	Gene Mvb12b	Fam125b, Mvb12b, 2610200014Rik, 2610528K11Rik, AI414895	NM_175184.4
32	Gene Pbx3	Pbx3 pre B cell leukemia homeobox 3	NM_016768.1
26	Gene Fbxw2	Fwd2, MD6, 27F-box and WD-40 domain protein 2	NM_013890.4, NM
33	Gene Psmd5	KIAA0072, AW proteasome (prosome, macropain) 26S subunit, non	NM_080554.2
33	Gene D730039	D730039F16Rik	NM_030021.2
35	Gene Rab14	D030017L14Ri RAB14, member RAS oncogene family	NM_026697.3
26	Gene Dab2ip	2310011D08Ri disabled 2 interacting protein	NM_001001602.2
25	Gene Ttl11	D2Ert624e, T tubulin tyrosine ligase-like family, member 11	NM_029774.1, NM
27	Gene Ndufa8	0610033L03Ri NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_026703.2
27	Gene Morn5	1700010A17Ri MORN repeat containing 5	NM_029309.2
24	Gene Rc3h2	Rc3h2, 943001 ring finger and CCCH-type zinc finger domains 2	NM_001100591.1
24	Gene Zbtb6	A830092L04Ri zinc finger and BTB domain containing 6	NM_146253.5
24	Gene Zbtb26	A630026F21Ri zinc finger and BTB domain containing 26	NM_199025.2
17	Gene Rabgap1	mKIAA4104, N RAB GTPase activating protein 1	NM_146121.2, NM
24	Gene Dennd1a	6030446I19Rik DENN/MADD domain containing 1A	NM_146122.3
20	Gene Nek6	Nek6, 1300007NIMA (never in mitosis gene a)-related expressed ki	NM_021606.3, NM
39	Gene Nr5a1	MGC124278, F nuclear receptor subfamily 5, group A, member 1	NM_139051.3
26	Gene Nr6a1	Nr6a1, NCNF, I nuclear receptor subfamily 6, group A, member 1	NM_010264.4, NM
26	Gene Olfml2a	mFLJ00237, OI olfactomedin-like 2A	NM_172854.2
32	Gene Wdr38	Wdr38, 17001.WD repeat domain 38	NM_029687.3
32	Gene Rpl35	Rpl35, 241003 ribosomal protein L35	NM_025592.3
32	Gene Arpc5l	2010015J01Ri actin related protein 2/3 complex, subunit 5-like	NM_028809.1
40	Gene Golga1	0710001G09Ri golgi autoantigen, golgin subfamily a, 1	NM_029793.1
40	Gene Scai	AI662729, Scai suppressor of cancer cell invasion	NM_178778.3
29	Gene Ppp6c	2310003C10Ri protein phosphatase 6, catalytic subunit	NM_024209.2
28	Gene Acvr2a	Actr1la, Acvr2, activin receptor IIA	NM_007396.4
26	Gene Epc2	D2Ert694e, E enhancer of polycomb homolog 2 (Drosophila)	NM_172663.4
18	Gene Kif5c	NKHC, Khc, KIN kinesin family member 5C	NM_008449.2
18	Gene Lypd6	Lypd6, E13011 LY6/PLAUR domain containing 6	NM_177139.5, NR
23	Gene Mmadhc	2010311D03Ri methylmalonic aciduria (cobalamin deficiency) cbID	NM_133839.2
23	Gene Gm1348	Gm13483, OT1 predicted gene 13483	NR_040361.1, NR_
29	Gene Rnd3	Arhe, 2610017 Rho family GTPase 3	NM_028810.2
23	Gene Rif1	5730435J01Ri Rap1 interacting factor 1 homolog (yeast)	NM_175238.5
32	Gene Arl5a	Arl5a, 2410015 ADP-ribosylation factor-like 5A	NM_182994.2
32	Gene A430018	A430018G15R RIKEN cDNA A430018G15 gene	XR_168390.1, XR_
32	Gene Cacnb4	MGC31529, I calcium channel, voltage-dependent, beta 4 subunit	NM_001037099.1
31	Gene Stam2	Stam2, 12000C signal transducing adaptor molecule (SH3 domain ar	NM_019667.2
34	Gene Fmnl2	5430425K04Ri formin-like 2	NM_172409.2
24	Gene Prpf40a	FBP11, Prpf40: PRP40 pre-mRNA processing factor 40 homolog A (y	NM_018785.2
24	Gene Arl6ip6	2310057C01Ri ADP-ribosylation factor-like 6 interacting protein 6	NM_022989.4
26	Gene Nr4a2	TINOR, Nr4a2, nuclear receptor subfamily 4, group A, member 2	NM_013613.2, NM
23	Gene BB55794	BB557941 expressed sequence BB557941	NR_040356.1
26	Gene A930012	A930012O16R RIKEN cDNA A930012O16 gene	XR_107388.3, XR_
26	Gene Gpd2	Gpd-m, TISP38 glycerol phosphate dehydrogenase 2, mitochondrial	NM_010274.3, NM
19	Gene Acvr1c	ALK7, Acvr1c, (activin A receptor, type IC	NM_001033369.3
28	Gene Acvr1	D330013D15R activin A receptor, type 1	NM_007394.3, NM

46	Gene Pkp4	MGC100358, F plakophilin 4	NM_175464.2, NM
24	Gene Tanc1	mKIAA1728, 1: tetratricopeptide repeat, ankyrin repeat and coiled-	NM_198294.2
25	Gene Wdsub1	2610014F08Ri| WD repeat, SAM and U-box domain containing 1	NM_028118.2, NM
17	Gene Baz2b	D2Erd794e, B bromodomain adjacent to zinc finger domain, 2B	NM_001001182.3
26	Gene LOC100505179	uncharacterized LOC100505179	XR_107405.1, XR_
26	Gene March7	Axo, Gtrge017 membrane-associated ring finger (C3HC4) 7	NM_020575.2
20	Gene Rbms1	MSSP-1, MSSP RNA binding motif, single stranded interacting prote	NM_020296.2, NM
18	Gene Gm1358	OTTMUSG000| predicted gene 13582	NR_045335.1
19	Gene Tank	Tank, E430026 TRAF family member-associated Nf-kappa B activatc	NM_011529.2, NM
21	Gene Psm14	3200001M20R| proteasome (prosome, macropain) 26S subunit, non	NM_021526.2
21	Gene Tbr1	Tbr1	NM_009322.3
29	Gene Cobll1	Cobll1, 181004| Cobl-like 1	NM_177025.5, NM
17	Gene Galnt3	Galnt3 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N	NM_015736.2
26	Gene Stk39	Stk39, RF005, SPAK, AW227544, AW556857, DCHT, Rnl5	NM_016866.2
33	Gene Cers6	Cers6, AW544719, 4732462C07Rik, Lass6, T1L, CerS6	NM_172856.3
22	Gene Lrp2	D230004K18Ri| low density lipoprotein receptor-related protein 2	NM_001081088.1
30	Gene Bbs5	1700049I01Rik| Bardet-Biedl syndrome 5 (human)	NM_028284.2
25	Gene Fastkd1	5330408N05Ri| FAST kinase domains 1	NM_177244.3
25	Gene Ppig	B230312B02Ri| peptidyl-prolyl isomerase G (cyclophilin G)	NM_001081086.1
18	Gene Phospho	AU021728, Ph| phosphatase, orphan 2	NM_028521.2
21	Gene Ssb	SS-B, MGC118| Sjogren syndrome antigen B	NM_009278.4, NM
21	Gene Mettl5	2810410A08Ri| methyltransferase like 5	NM_029280.3
38	Gene 493055C	4930550G17Ri| RIKEN cDNA 4930550G17 gene	XR_168391.1, XR_
38	Gene Ubr3	AA422631, AU ubiquitin protein ligase E3 component n-recogin 3	NM_177783.5, NM
31	Gene Gorasp2	2410043M02R| golgi reassembly stacking protein 2	NM_027352.4, NR
18	Gene Tlk1	Tlk1, 4930545| tousled-like kinase 1	NM_172664.3
25	Gene Mettl8	MGC67805, M methyltransferase like 8	NM_145524.3, NM
25	Gene Dcaf17	2810055O12Ri| DDB1 and CUL4 associated factor 17	NM_198005.2, NM
31	Gene Dync1i2	Dncic2, Dync1i| dynein cytoplasmic 1 intermediate chain 2	NM_010064.4, NM
25	Gene Hat1	Hat1, 2410071| histone aminotransferase 1	NM_026115.4
26	Gene Metap1c	3110033D18Ri| methionyl aminopeptidase type 1D (mitochondrial)	NM_025633.3
19	Gene Itga6	Itga6, 5033401| integrin alpha 6	NM_008397.3
31	Gene Pdk1	D530020C15Ri| pyruvate dehydrogenase kinase, isoenzyme 1	NM_172665.4
21	Gene B23012C	MLTK, MLTKa| RIKEN cDNA B230120H23 gene	NM_001164791.1
28	Gene Cdca7	Cdca7, JPO1, 2 cell division cycle associated 7	NM_025866.3
31	Gene Sp3	D130027J01Ri| trans-acting transcription factor 3	NM_001018042.3
31	Gene 1700011	1700011J10Ri| RIKEN cDNA 1700011J10 gene	NR_045269.2
24	Gene Ola1	2810405J23Ri| Olg-like ATPase 1	NM_025942.2, NM
19	Gene Sp9	Sp9	NM_001005343.2
19	Gene Cir1	Cir1, Cicr, Cir, | corepressor interacting with RBPJ, 1	NM_025854.3, XM
21	Gene Chn1	1700112L09Ri| chimerin (chimaerin) 1	NM_029716.3, NM
27	Gene Gm1082	Gm10822, ENS| predicted gene 10822	XR_140550.1, XR_
27	Gene Atp5g3	MGC124584, | ATP synthase, H+ transporting, mitochondrial FO cor	NM_175015.2
34	Gene Lnp	2310011O18Ri| limb and neural patterns	NM_027133.3, NM
21	Gene Evx2	Evx2, Evx-2 even skipped homeotic gene 2 homolog	NM_007967.2
21	Gene Hoxd13	Hox-4.8, Hoxd: homeobox D13	NM_008275.3
21	Gene Hoxd12	Hox-4.7, Hoxd: homeobox D12	NM_008274.3

21	Gene Hoxd11	Hox-5.5, Hox-5 homeobox D11	NR_073086.1, NM
36	Gene Hoxd10	AI385591, AI8 homeobox D10	NM_013554.5
36	Gene Hoxd9	Hox-4.4, Hox-5 homeobox D9	NM_013555.4
36	Gene Hoxd8	Hox-5.4, Hoxd homeobox D8	NM_008276.2
17	Gene 1700109	1700109F18Ri RIKEN cDNA 1700109F18 gene	NR_027899.1
19	Gene Hoxd3	Hox-5.5, Hox-4 homeobox D3	NM_010468.2
17	Gene Hoxd4	Hox-4.2, Hoxd homeobox D4	NM_010469.2
17	Gene Mir10b	Mirn10b, mmu microRNA 10b	NR_029566.1
19	Gene 6720416	6720416L17Ri RIKEN cDNA 6720416L17 gene	XR_104751.2, XR_
23	Gene Hoxd1	Hox-4.9, Hoxd homeobox D1	NM_010467.2
31	Gene Mtx2	1500012G02Ri metaxin 2	NM_016804.4
24	Gene Hnrnpa3	Hnrnpa3, 241C heterogeneous nuclear ribonucleoprotein A3	NM_198090.2, NM
35	Gene Nfe2l2	AI194320, Nfe nuclear factor, erythroid derived 2, like 2	NM_010902.3
35	Gene E030042	E030042O20Ri RIKEN cDNA E030042O20 gene	XR_107435.1, XR_
24	Gene Cyct	T-Cc, Cyct cytochrome c, testis	NM_009989.2
24	Gene Rbm45	Rbm45, Drb1, RNA binding motif protein 45	NM_153405.2
24	Gene Osbp16	ORP-6, AI5964 oxysterol binding protein-like 6	NM_145525.2
44	Gene Ssfa2	5730488C15Ri sperm specific antigen 2	NM_080558.4
29	Gene Dnajc10	D2ErtD706e, D DnaJ (Hsp40) homolog, subfamily C, member 10	NM_024181.2
20	Gene Nckap1	Nckap1, C793C NCK-associated protein 1	NM_016965.2
27	Gene Dusp19	C79103, Dusp1 dual specificity phosphatase 19	NM_024438.4
27	Gene Gm1369	OTTMUSG000I SMT3 suppressor of mif two 3 homolog 2 pseudogene	
27	Gene Mir684	Mirn684-1, Mi microRNA 684-1	NR_030454.1
27	Gene Nup35	MP44, NO44, I nucleoporin 35	NM_001190179.1
31	Gene Zc3h15	2610312B22Ri zinc finger CCCH-type containing 15	NM_026934.3
16	Gene Itgav	Itgav, D43004C integrin alpha V	NM_008402.2
19	Gene Zdhhc5	AI451382, 111 zinc finger, DHHC domain containing 5	NM_144887.4
19	Gene Clp1	Clp1, Heab, AI CLP1, cleavage and polyadenylation factor I subunit	NM_133840.2
29	Gene Ypel4	Ypel4 yippee-like 4 (Drosophila)	NM_001005342.2
29	Gene Mir130a	Mir130a, Mirn microRNA 130a	NR_029544.1
29	Gene Gm1942	Gm19426 predicted gene, 19426	XR_107441.1, XR_
20	Gene Timm10	Timm13a, Tim translocase of inner mitochondrial membrane 10	NM_013899.2
20	Gene Slc43a1	Lat3, PB39, 26 solute carrier family 43, member 1	NM_001083809.1,
20	Gene Rtn4rl2	Ngr13, Ngr2, Nr reticulon 4 receptor-like 2	NM_199223.1
17	Gene P2rx3	MGC28163, P2 purinergic receptor P2X, ligand-gated ion channel, 3	NM_145526.2
17	Gene LOC100862344	uncharacterized LOC100862344	XR_140553.1, XR_
18	Gene Ssrp1	C81323, Hmg1 structure specific recognition protein 1	NM_182990.3, NM
18	Gene Tnks1bp	Tab182, mKIA tankyrase 1 binding protein 1	NM_001081260.2
26	Gene C1qtnf4	C1qtnf4, CTRP, C1q and tumor necrosis factor related protein 4	NM_026161.3
29	Gene Ndufs3	0610010M09R NADH dehydrogenase (ubiquinone) Fe-S protein 3	NM_026688.2
29	Gene Kbtbd4	Kbtbd4, 25100 kelch repeat and BTB (POZ) domain containing 4	NM_025991.3
29	Gene Ptpmt1	1110001D10Ri protein tyrosine phosphatase, mitochondrial 1	NM_025576.2
27	Gene Celf1	NAB50, CUGBF CUGBP, Elav-like family member 1	NM_001244891.1
22	Gene Slc39a13	Slc39a13, ZIP1 solute carrier family 39 (metal ion transporter), men	NM_026721.2
23	Gene Madd	Madd, 963005 MAP-kinase activating death domain	NM_001177719.1
23	Gene Nr1h3	Nr1h3, LXR, Ur nuclear receptor subfamily 1, group H, member 3	NM_001177730.1,
24	Gene Lrp4	D230026E03, r low density lipoprotein receptor-related protein 4	NM_172668.3, NM

20	Gene Gm1377	Gm13770, OTI predicted gene 13770	XM_884324.2, XM
18	Gene Atg13	D2ErtD391e, H autophagy related 13	NM_145528.3
19	Gene Harbi1	Harbi1, D2300 harbinger transposase derived 1	NM_178724.4
19	Gene Ambra1	Ambra1, AV02 autophagy/beclin 1 regulator 1	NM_001080754.1,
25	Gene Chrm4	M4, Chrm4, Cf cholinergic receptor, muscarinic 4	NM_007699.2
25	Gene Mdk	Mdk, MK, Mek midkine	NM_001012336.1
25	Gene Dgkz	E130307B02Ri diacylglycerol kinase zeta	NM_138306.2, NM
17	Gene Creb3l1	Creb3l1, Oasis, cAMP responsive element binding protein 3-like 1	NM_011957.2
25	Gene Phf21a	D030065N23R PHD finger protein 21A	NM_138755.2, NM
25	Gene Gylt1b	Largel, Gylt1b glycosyltransferase-like 1B	NM_172670.2, NM
25	Gene Pex16	Pex16	NM_145122.2, NR
45	Gene Cry2	AV006279, Cry cryptochrome 2 (photolyase-like)	NM_009963.4, NM
45	Gene D930015	D930015M05F RIKEN cDNA D930015M05 gene	NR_040621.1
37	Gene Slc35c1	fuct1, E430007 solute carrier family 35, member C1	NM_211358.2, NM
25	Gene Trp53i11	Trp53i11, Tp53 transformation related protein 53 inducible protein	NM_001025246.1
29	Gene Tspan18	Tspan18, 2610 tetraspanin 18	NM_183180.2
26	Gene Gm1388	OTTMUSG000I predicted gene 13889	NM_001145034.1
22	Gene Ttc17	D2Bwg1005e, tetratricopeptide repeat domain 17	NM_183106.2
22	Gene 2810002	2810002D19Ri RIKEN cDNA 2810002D19 gene	NR_027831.1
30	Gene Api5	Api5, AI19645: apoptosis inhibitor 5	NM_007466.2
25	Gene Traf6	C630032O20Ri TNF receptor-associated factor 6	NM_009424.2
37	Gene Trim44	MGC102054, M tripartite motif-containing 44	NM_020267.2
38	Gene Fjx1	Fjx1 four jointed box 1 (Drosophila)	NM_010218.2
32	Gene Abtb2	Abtb2, AW539 ankyrin repeat and BTB (POZ) domain containing 2	NM_178890.3
27	Gene Nat10	MGC25461, N: N-acetyltransferase 10	NM_153126.2
44	Gene Caprin1	P137, Caprin1, cell cycle associated protein 1	NM_016739.3, NM
44	Gene 4930547	4930547E08Ri RIKEN cDNA 4930547E08 gene	NR_040514.1
17	Gene D430041	9630056G07Ri RIKEN cDNA D430041D05 gene	NM_001033347.2
34	Gene Hipk3	FIST3, DYRK6, homeodomain interacting protein kinase 3	NM_010434.2, NM
18	Gene Cstf3	CstF-77, C7953 cleavage stimulation factor, 3' pre-RNA, subunit 3	NM_177253.4, NM
20	Gene Qser1	AI502974, Qse glutamine and serine rich 1	NM_001123327.1
20	Gene 2310047	AV090227, 23: RIKEN cDNA 2310047K21 gene	XM_003945352.1,
28	Gene Eif3m	MGC118449, Eukaryotic translation initiation factor 3, subunit M	NM_145380.2
40	Gene AI31483	6030498F17, A expressed sequence AI314831	NR_015462.1
40	Gene Wt1	D630046I19Ri Wilms tumor 1 homolog	NM_144783.2
24	Gene Rcn1	Rcn, Rcn1 reticulocalbin 1	NM_009037.2
17	Gene Bdnf	Bdnf brain derived neurotrophic factor	NM_001048139.1
23	Gene Gm1393	Gm13939, OTI predicted gene 13939	NR_033473.1
23	Gene Lgr4	Gpr48, A3301C leucine-rich repeat-containing G protein-coupled re	NM_172671.2
29	Gene Nutm1	4932438M10, NUT midline carcinoma, family member 1	NM_172521.1
29	Gene Nop10	Nola3, 111003 NOP10 ribonucleoprotein	NM_025403.3
29	Gene Slc12a6	KCC3, 9530023 solute carrier family 12, member 6	NM_133649.2, NM
29	Gene E330013	E330013P08Ri RIKEN cDNA E330013P08 gene	XR_168396.1, XR_
30	Gene Katnbl1	2410042D21Ri katanin p80 subunit B like 1	NM_024254.3
20	Gene Grem1	Id, Drm, Grem: gremlin 1	NM_011824.4
18	Gene Meis2	Stra10, A4301C Meis homeobox 2	NM_010825.3, NM
18	Gene 2700033	2700033N17Ri RIKEN cDNA 2700033N17 gene	XR_107390.1, XR_

18	Gene Spred1	AL024345, Spr sprouty protein with EVH-1 domain 1, related sequence	NM_033524.2
22	Gene Fam98b	2610510H03Ri family with sequence similarity 98, member B	NM_026620.3
27	Gene Eif2ak4	2610011M03, eukaryotic translation initiation factor 2 alpha kinase	NM_001177806.1
24	Gene Srp14	AW536328, Srp signal recognition particle 14	NM_009273.4
34	Gene Bub1b	Bub1b, BUBR1 budding uninhibited by benzimidazoles 1 homolog, l	NM_009773.3
28	Gene Pak6	Pak6, 4732456p21 protein (Cdc42/Rac)-activated kinase 6	NM_001033254.3
28	Gene Ankrd63	Gm1337, Ankr ankyrin repeat domain 63	NM_001081971.1
28	Gene Plcb2	B230205M18R phospholipase C, beta 2	NM_177568.2
22	Gene 5430417	5430417L22Ri RIKEN cDNA 5430417L22 gene	NR_030716.1
25	Gene A430105	Gm353, A4301 RIKEN cDNA A430105I19 gene	NM_001001982.2
21	Gene Bahd1	Gm117, Bahd1 bromo adjacent homology domain containing 1	NM_001045523.1
25	Gene Ccdc32	Ccdc32, MGC6 coiled-coil domain containing 32	NM_199310.2
33	Gene Rpsd2	BB231107, 96S RNA pseudouridylation synthase domain containing 2	NM_173450.3
33	Gene Casc5	MGC91208, 23 cancer susceptibility candidate 5	NM_029617.2
30	Gene Rad51	Reca, Rad51, Rad51a, AV304093	NM_011234.4
26	Gene Rmdn3	mRMD-3, Rmd regulator of microtubule dynamics 3	NM_001033136.3
18	Gene Gchfr	Gchfr, 201032: GTP cyclohydrolase I feedback regulator	NM_177157.4
18	Gene Dnajc17	1700025B16Ri DnaJ (Hsp40) homolog, subfamily C, member 17	NM_139139.2
18	Gene Gm1413	Gm14137, OTI predicted gene 14137	NM_001039223.3
22	Gene Ppp1r14	Ppp1r14, Ppp1 protein phosphatase 1, regulatory (inhibitor) subunit	NM_028104.3
22	Gene Spint1	Spint1, HAI-1 serine protease inhibitor, Kunitz type 1	NM_016907.3
24	Gene Gm1420	OTTMUSG000I predicted gene 14207	NR_030683.1
24	Gene Dll4	Delta4, Dll4 delta-like 4 (Drosophila)	NM_019454.3
31	Gene Ino80	Ino80, 463240 INO80 homolog (S. cerevisiae)	NM_026574.3
24	Gene Chp1	Sid470p, AA96 calcineurin-like EF hand protein 1	NM_019769.3
24	Gene 1700020	AI585852, AI4: RIKEN cDNA 1700020I14 gene	NR_015473.1, NR_
30	Gene H3f3c	H3f3c, OTTMUH3 histone, family 3C	XM_889893.6
30	Gene Rtf1	AW553985, 29 Rtf1, Paf1/RNA polymerase II complex component, l	NM_030112.2
22	Gene Itpka	Itpka, MGC285 inositol 1,4,5-trisphosphate 3-kinase A	NM_146125.2
22	Gene Ltk	Ltk	NM_008523.2, NM
27	Gene Tyro3	Tyro3, Dtk, Etk TYRO3 protein tyrosine kinase 3	NM_019392.2
37	Gene 6330405	6330405D24Ri RIKEN cDNA 6330405D24 gene	XR_168398.1, XR_
27	Gene Mga	C80739, C130C MAX gene associated	NM_013720.2, NM
26	Gene Zfp106	Znf106, Sh3bp zinc finger protein 106	NM_011743.2
26	Gene Snap23	Syndet, 23kDa synaptosomal-associated protein 23	NM_009222.3, NM
35	Gene Cdan1	AW492297, CD congenital dyserythropoietic anemia, type I (human	NM_026891.2
35	Gene Ttbk2	Ttbk, KIAA084: tau tubulin kinase 2	NM_001024856.2
31	Gene AV03930	AV039307 expressed sequence AV039307	NR_038349.1, NR_
31	Gene Ubr1	Ubr1, AI50473 ubiquitin protein ligase E3 component n-recogin 1	NM_009461.2
31	Gene Lcmt2	Lcmt2, D33002 leucine carboxyl methyltransferase 2	NM_177846.3
31	Gene Adal	Adal, MGC624 adenosine deaminase-like	NM_029475.1
27	Gene Zscan29	Zscan29, AW1: zinc finger SCAN domains 29	NM_178889.4
27	Gene Tubgcp4	76p, MGC2808 tubulin, gamma complex associated protein 4	NM_153387.2
44	Gene Catsper2	Catsper2	NM_153075.3
44	Gene Pdia3	ERp61, Pdia3, protein disulfide isomerase associated 3	NM_007952.2
32	Gene Ell3	MGC31450, Ell elongation factor RNA polymerase II-like 3	NM_145973.2
32	Gene Serf2	Msmac1l, C80C small EDRK-rich factor 2	NM_011354.2

32	Gene Serinc4	Serinc4, RP23- serine incorporator 4	NM_001025371.2
32	Gene Hypk	RP23-433P19.1 huntingtin interacting protein K	NM_026318.3
23	Gene Casc4	D130060C09Ri cancer susceptibility candidate 4	NM_177054.5, NM
20	Gene Mageb3	Mage-ps1, Ma melanoma antigen, family B, 3	NM_008545.2
20	Gene Ctdspl2	D2Ert485e, C CTD (carboxy-terminal domain, RNA polymerase II, p	NM_212450.3
22	Gene Eif3j1	1810016104Ri eukaryotic translation initiation factor 3, subunit J1	NM_144545.3
29	Gene Spg11	Spg11, A33001 spastic paraplegia 11	NM_145531.2
29	Gene Patl2	Pat1a, Patl2, 4 protein associated with topoisomerase II homolog 2	NM_026251.2
28	Gene Duox1	LNOX2, Duox1 dual oxidase 1	NM_001099297.1
28	Gene Shf	Shf	NM_001013829.2
38	Gene Spata5l1	C130039A10Ri spermatogenesis associated 5-like 1	NM_001033256.2
38	Gene AA46719	MGC58382, Nr expressed sequence AA467197	NM_001004174.1
38	Gene Mir147	Mirn147, mmu microRNA 147	NR_030547.1
23	Gene Slc30a4	Znt4, Slc30a4, solute carrier family 30 (zinc transporter), member 4	NM_011774.2
19	Gene Bloc1s6	pa, Stx13bp1, l biogenesis of organelles complex-1, subunit 6, pallid	NM_019788.3
25	Gene Sema6d	Sema6D-1, AA sema domain, transmembrane domain (TM), and cy	NM_172537.3, NM
24	Gene Dut	D2Bwg0749e, deoxyuridine triphosphatase	NM_023595.6, NM
41	Gene Fbn1	AI536462, B43 fibrillin 1	NM_007993.2
29	Gene Secisbp2	Secisbp2l, AI5 SECIS binding protein 2-like	NM_177608.3
25	Gene Cops2	Trip15, AI3157 COP9 (constitutive photomorphogenic) homolog, su	NM_009939.2
25	Gene Galk2	Gk2, 2810017l galactokinase 2	NM_175154.2
34	Gene Fam227l	Fam227b, 493l family with sequence similarity 227, member B	NM_029455.2
34	Gene Dtw1	Dtw1, 18100:DTW domain containing 1	NM_026981.2
25	Gene Slc27a2	Vlacc, Slc27a2, solute carrier family 27 (fatty acid transporter), men	NM_011978.2
35	Gene Gabpb1	GABPB1-1, GA GA repeat binding protein, beta 1	NM_010249.1, NM
31	Gene Trpm7	TRPPLIK, 2310l transient receptor potential cation channel, subfami	NM_021450.2, NM
27	Gene Snrnp20	U5-200KD, U5- small nuclear ribonucleoprotein 200 (U5)	NM_177214.4
27	Gene Ciao1	Ciao1, Wdr39, cytosolic iron-sulfur protein assembly 1	NM_025296.4
34	Gene Tmem127	Tmem127, 231 transmembrane protein 127	NM_175145.3
34	Gene Gm1076	Gm10766, ENS predicted gene 10766	XM_003945353.1,
34	Gene Stard7	Stard7, AL022 START domain containing 7	NM_139308.2
21	Gene Kcnip3	AI413860, Kcn Kv channel interacting protein 3, calsenilin	NM_019789.3, NM
30	Gene Zfp661	2810405K07Ri zinc finger protein 661	NM_028141.3, NM
30	Gene Mrps5	AI850294, Mrp mitochondrial ribosomal protein S5	NM_029963.2
29	Gene Bub1	C80208, D2Xrf budding uninhibited by benzimidazoles 1 homolog (	NM_001113179.1
32	Gene Acox1	Acox1, AV0256 acyl-Coenzyme A oxidase-like	NM_028765.3
32	Gene Bcl2l11	Bcl2l11, Bod, 1 BCL2-like 11 (apoptosis facilitator)	NM_207680.2, NM
19	Gene Anapc1	2610021O03Ri anaphase promoting complex subunit 1	NM_008569.2
25	Gene Mertk	Eyk, Mertk, Mlc-mer proto-oncogene tyrosine kinase	NM_008587.1, NM
28	Gene Tmem87	AU014804, Tm transmembrane protein 87B	NM_028248.2
26	Gene Zc3h8	Zc3hdc8, Zc3h zinc finger CCCH type containing 8	NM_020594.2
20	Gene Gm1402	OTTMUSG000l predicted gene 14025	XM_001004454.1,
34	Gene Gm1402	OTTMUSG000l predicted gene 14022	XR_104719.3, XR_
34	Gene Ttl	AI848570, 270 tubulin tyrosine ligase	NM_027192.2
26	Gene Slc20a1	Glvr-1, AI6078 solute carrier family 20, member 1	NM_015747.2, NM
21	Gene Ckap2l	2610318C08Ri cytoskeleton associated protein 2-like	NM_181589.3
21	Gene Gm1402	OTTMUSG000l predicted gene 14023	NR_040371.1

21	Gene Il1a	Il-1a, Il1a	interleukin 1 alpha	NM_010554.4
30	Gene 4932416	4932416H05Ri	RIKEN cDNA 4932416H05 gene	NR_029452.1
30	Gene Stk35	Stk35, 170005	serine/threonine kinase 35	NM_001038635.2
44	Gene Snrpb	SM11, AU0188	small nuclear ribonucleoprotein B	NM_009225.2
33	Gene Tmc2	Tmc2, CWEA2	transmembrane channel-like gene family 2	NM_138655.1
33	Gene Nop56	2310044F10Ri	NOP56 ribonucleoprotein	NM_024193.2
33	Gene Snord11	Snord110, MBI	small nucleolar RNA, C/D box 110	NR_028547.1
33	Gene Snord57	Snord57, MBI	small nucleolar RNA, C/D box 57	NR_028528.1
33	Gene Idh3b	Idh3b, C78231	isocitrate dehydrogenase 3 (NAD+) beta	NM_130884.4
24	Gene Ebf4	O/E-4, Ebf3, O	early B cell factor 4	NM_001110513.1
31	Gene Ptptra	Ptptra, Ptpalph	protein tyrosine phosphatase, receptor type, A	NM_008980.2, NM
31	Gene 4930473	4930473A02Ri	RIKEN cDNA 4930473A02 gene	NR_040348.1
31	Gene Mrps26	MRP-S26, MRF	mitochondrial ribosomal protein S26	NM_207207.1
22	Gene Ubox5	C330018L13Ri	U box domain containing 5	NM_001255993.1
22	Gene Fastkd5	MGC60835, C7	FAST kinase domains 5	NM_198176.2, NM
22	Gene Lzts3	Lzts3, Prosapif	leucine zipper, putative tumor suppressor family me	NM_197945.3
19	Gene Slc4a11	NaBC1, BTR1, s	solute carrier family 4, sodium bicarbonate transpor	NM_001081162.1
29	Gene A730017	A730017L22Ri	RIKEN cDNA A730017L22 gene	NR_015523.2
29	Gene Atrn	mg, AW55801	attractin	NM_009730.2
24	Gene Hspa12b	2700081N06Ri	heat shock protein 12B	NM_028306.3
24	Gene 1700037	1700037H04Rik		NM_026091.2
44	Gene Spef1	4931426K16Ri	sperm flagellar 1	NM_027641.2
44	Gene Cenpb	Cenpb		NM_007682.2
44	Gene Cdc25b	AI604853, Cdc25b		NM_001111075.4
21	Gene Pank2	4933409I19Rik, Pank2, MGC118448, AI642621		NM_153501.2
22	Gene Rnf24	D2ErtD504e, A	ring finger protein 24	NM_178607.4
26	Gene Smox	Smox, PAO, SM	spermine oxidase	NM_001177833.1
21	Gene Prnp	PrPSc, Prn-p, C	prion protein	NM_011170.2
18	Gene Rassf2	Rassf2, 383043	Ras association (RalGDS/AF-6) domain family memb	NM_175445.4
23	Gene Slc23a2	SVCT2, YSPL3, s	solute carrier family 23 (nucleobase transporters), n	NM_018824.2
31	Gene Pcna	Pcna	proliferating cell nuclear antigen	NM_011045.2
31	Gene Cds2	5730460C18Ri	CDP-diacylglycerol synthase (phosphatidate cytidyly	NM_138651.6
22	Gene Gpcpd1	2310004G06Ri	glycerophosphocholine phosphodiesterase GDE1 ho	NM_028802.2, NM
30	Gene Trmt6	mKIAA1153, T1	tRNA methyltransferase 6	NM_175113.3
30	Gene Mcm8	5730432L01Ri	minichromosome maintenance deficient 8 (S. cerevi	NM_025676.3
18	Gene Lrrn4	B430119L13Ri	leucine rich repeat neuronal 4	NM_177303.4
19	Gene Bmp2	Bmp2a, Bmp2, b	bone morphogenetic protein 2	NM_007553.2
18	Gene Plcb1	3110043I21Rik	phospholipase C, beta 1	NM_019677.2, NM
25	Gene Jag1	Jag1, Ser-1, Ht	jagged 1	NM_013822.5
19	Gene Ism1	Ism1, Ism, Isth	isthmin 1 homolog (zebrafish)	NM_001126490.1
22	Gene Bfsp1	Bfsp1		NM_009751.2
26	Gene Dstn	sid23p, Dstn, 2	destrin	NM_019771.2
30	Gene Rrbp1	p180, 573046E	ribosome binding protein 1	NM_024281.2, NM
42	Gene Snx5	0910001N05Ri	sorting nexin 5	NM_001199188.1
42	Gene Snord17	Snord17, MBI-	small nucleolar RNA, C/D box 17	NR_030762.1
42	Gene Mgme1	8430406I07Rik	mitochondrial genome maintainance exonuclease 1	NM_028984.4
26	Gene Sec23b	Sec23b		NM_001252543.1

26	Gene Gm561	Gm561	predicted gene 561	NM_001033297.2
26	Gene Dtd1	Dtd1, Hars2,	0610006H08Rik	NM_025314.3
37	Gene Naa20	MGC144325, N(alpha)-acetyltransferase 20,	NatB catalytic subunit	NM_026425.3, NM
31	Gene Crnkl1	Crnkl1, crn,	57 Crn, crooked neck-like 1 (Drosophila)	NM_025820.3
31	Gene 4930529	MGC129508, 4	RIKEN cDNA 4930529M08 gene	NM_175280.3
19	Gene Insm1	IA-1, Insm1	insulinoma-associated 1	NM_016889.3
36	Gene Xrn2	Xrn2	5'-3' exoribonuclease 2	NM_011917.2
17	Gene Foxa2	HNF3beta, HN	forkhead box A2	NM_010446.2
24	Gene Sstr4	sst4, Smstr4,	S somatostatin receptor 4	NM_009219.3
24	Gene Thbd	CD141, TM,	Th thrombomodulin	NM_009378.3
23	Gene Nxt1	1110001N02Ri	NTF2-related export protein 1	NM_019761.6, NM
23	Gene Gzf1	Gzf1, Zfp336,	xi GDNF-inducible zinc finger protein 1	NM_028986.3
26	Gene Cst3	CysC, Cst3	cystatin C	NM_009976.3
25	Gene Syndig1	Syndig1,	OTTM synapse differentiation inducing 1	NM_001085521.2
25	Gene Apmap	2310001A20Ri	adipocyte plasma membrane associated protein	NM_027977.2
25	Gene Acss1	AceCS2, Acss1,	acyl-CoA synthetase short-chain family member 1	NM_080575.2
18	Gene E130215	E130215H24Ri	RIKEN cDNA E130215H24 gene	NR_040331.1
32	Gene Pygb	MGC36329,	Py brain glycogen phosphorylase	NM_153781.1
24	Gene Ninl	mKIAA0980,	4' ninein-like	NM_207204.2
31	Gene Fkbp1a	FKBP12-T1,	FK FK506 binding protein 1a	NM_008019.2
33	Gene Psmf1	AW048666,	Ps proteasome (prosome, macropain) inhibitor subunit	NM_212446.1
33	Gene 4930556	1700020P01Ri	RIKEN cDNA 4930556L07 gene	XR_107453.1, XR_
27	Gene Scrt2	Scrt2, AW0606	scratch homolog 2, zinc finger protein (Drosophila)	NM_001160410.1
25	Gene Srxn1	Srxn1, Npn3,	S sulfiredoxin 1 homolog (S. cerevisiae)	NM_029688.5
30	Gene Csnk2a1	MGC102141,	C casein kinase 2, alpha 1 polypeptide	NM_007788.3
17	Gene Tbc1d20	2810442O16Ri	TBC1 domain family, member 20	NM_024196.3
21	Gene Rbck1	HOIL-1L, HOIL-	RanBP-type and C3HC4-type zinc finger containing 1	NM_019705.3, NM
21	Gene Trib3	SKIP3, TRB-3,	tribbles homolog 3 (Drosophila)	NM_175093.2
36	Gene Sox12	Sox12, 201020	SRY-box containing gene 12	NM_011438.2
33	Gene Zcchc3	Zcchc3, 281041	zinc finger, CCHC domain containing 3	NM_175126.4
33	Gene 6820408	6820408C15Rik		NM_177656.3
21	Gene Defb25	Defb25,	OTTM defensin beta 25	NM_001039122.1
25	Gene Rem1	Rem, E030011	rad and gem related GTP binding protein 1	NM_009047.5
48	Gene H13	1200006O09Ri	histocompatibility 13	NM_010376.4, NM
39	Gene Id1	Idb1, Id1,	D2W inhibitor of DNA binding 1	NM_010495.2
24	Gene Bcl2l1	BclX, MGC1131	BCL2-like 1	NM_009743.4
21	Gene Tpx2	Tpx2, REPP86,	TPX2, microtubule-associated protein homolog (Xen	NM_001141975.1
24	Gene Mylk2	9830004H17Ri	myosin, light polypeptide kinase 2, skeletal muscle	NM_001081044.2
29	Gene Foxs1	FREAC10,	Fkh3 forkhead box S1	NM_010226.2
29	Gene Dusp15	AI851682,	T-D' dual specificity phosphatase-like 15	NM_145744.2, NM
36	Gene Ttl9	Ttl9, 4930509	tubulin tyrosine ligase-like family, member 9	NM_001083618.1
36	Gene Pdrgr1	Pdrgr, 1110004	p53 and DNA damage regulated 1	NM_178939.2
26	Gene Xkr7	Xkr7, AY53425	X Kell blood group precursor related family member	NM_001011732.1
27	Gene Kif3b	Kif3b, AI85431	kinesin family member 3B	NM_008444.4
31	Gene 2500004	2500004C02Ri	RIKEN cDNA 2500004C02 gene	NR_040318.1
31	Gene Asxl1	Asxl1, mKIAA0978,	DKFZp434N0535	NM_001039939.1
31	Gene 8430427	8430427H17Ri	RIKEN cDNA 8430427H17 gene	NM_001134300.2

23	Gene 7530422 Gm563, 75304 RIKEN cDNA 7530422B04 gene	XM_003945357.1,
23	Gene Dnmt3b MGC124407, DNA methyltransferase 3B	NM_001003961.3
22	Gene Snta1 Snt1, AW2289: syntrophin, acidic 1	NM_009228.2
19	Gene Cbfa2t2 C330013D05Ri core-binding factor, runt domain, alpha subunit 2, tr	NM_172860.2, NM
19	Gene Necab3 Apba2bp, XB5: N-terminal EF-hand calcium binding protein 3	NM_021546.3
19	Gene E2f1 mKIAA4009, E: E2F transcription factor 1	NM_007891.4
24	Gene Pxmp4 Pmp24, 30100 peroxisomal membrane protein 4	NM_021534.3
24	Gene Zfp341 MGC73471, Zn zinc finger protein 341	NM_199304.1
16	Gene Chmp4b Snf7-2, C7684 charged multivesicular body protein 4B	NM_029362.3
39	Gene Raly Merc, AI66384 hnRNP-associated with lethal yellow	NM_023130.3, NM
28	Gene Eif2s2 AA571381, 38l eukaryotic translation initiation factor 2, subunit 2 (l	NM_026030.2
27	Gene Itch C230047C07Ri itchy, E3 ubiquitin protein ligase	NM_001243712.1
31	Gene Trp53inr 1110029F20Ri transformation related protein 53 inducible nuclear	NM_178111.3
31	Gene Ncoa6 ASC2, ASC-2, N nuclear receptor coactivator 6	NM_001242558.1
29	Gene Trpc4ap 4833429F06Ri transient receptor potential cation channel, subfam	NM_019828.2, NM
29	Gene Edem2 9530090G24Ri ER degradation enhancer, mannosidase alpha-like 2	NM_145537.2
19	Gene Mmp24 Mmp24, MT5- matrix metalloproteinase 24	NM_010808.3
19	Gene BC02972 BC029722 cDNA sequence BC029722	NR_015528.1
19	Gene Eif6 CAB, AA40889 eukaryotic translation initiation factor 6	NM_010579.2
19	Gene Fam83c Fam83c, MGC: family with sequence similarity 83, member C	NM_027788.2
30	Gene Cep250 AW490617, Ce centrosomal protein 250	NM_008383.3, NM
26	Gene Spag4 MGC130280, M sperm associated antigen 4	NM_139151.4
26	Gene Cpne1 mKIAA4108, 1: copine I	NM_170588.3, NM
23	Gene Rbm12 AI852903, 943 RNA binding motif protein 12	NM_029397.3, NM
43	Gene Nfs1 m-Nfs1, m-Nfs1 nitrogen fixation gene 1 (S. cerevisiae)	NM_010911.2
43	Gene Romo1 Romo1, 20101 reactive oxygen species modulator 1	NM_001164216.1
43	Gene Rbm39 2310040E03Ri RNA binding motif protein 39	NM_133242.2
41	Gene LOC101055858 uncharacterized LOC101055858	XM_003946106.1,
37	Gene Phf20 Phf20, 682040 PHD finger protein 20	NM_172674.2
30	Gene Scand1 2310003H23Ri SCAN domain-containing 1	NM_020255.3
30	Gene Cnbd2 4921517L17Ri cyclic nucleotide binding domain containing 2	NM_027585.2
30	Gene Gm1425 OTTMUSG000i predicted gene 14251	
29	Gene Gm1417 OTTMUSG000i ribosomal protein L37a pseudogene	
29	Gene Epb4.111 mKIAA0338, E erythrocyte protein band 4.1-like 1	NM_013510.3, NM
17	Gene Gm1416 OTTMUSG000i predicted gene 14169	NR_040372.1
26	Gene Dlgap4 KIAA0964, MG discs, large homolog-associated protein 4 (Drosophi	NM_001042487.1
26	Gene 4930405 4930405A21Ri RIKEN cDNA 4930405A21 gene	NR_040505.1
32	Gene Gm1423 Gm14230, OTI predicted gene 14230	XR_107459.1, XR_
32	Gene Tgif2 C80753, 49215 TGFB-induced factor homeobox 2	NM_173396.2
28	Gene 5430405 2610307N17Ri RIKEN cDNA 5430405H02 gene	NR_015591.1, NR_
28	Gene 4930518 4930518I15Ri RIKEN cDNA 4930518I15 gene	XR_104749.2
28	Gene 1110008 1110008F13Ri RIKEN cDNA 1110008F13 gene	NM_026124.3
28	Gene Sla2 SLAP2, A9300 Src-like-adaptor 2	NM_029983.5
30	Gene Dsn1 Dsn1, AW5524 DSN1, MIND kinetochore complex component, hom	NM_025853.3
30	Gene Soga1 Soga, D43003 suppressor of glucose, autophagy associated 1	NM_001164663.1
25	Gene Tlhc2 Gm1332, Tlhc2 TBC/LysM associated domain containing 2	NM_001177439.1
26	Gene Samhd1 E330031J07Ri SAM domain and HD domain, 1	NM_018851.3, NM

23	Gene Rbl1	PRB1, p107, A1 retinoblastoma-like 1 (p107)	NM_011249.2, NM
36	Gene Mroh8	Mroh8, 492251 maestro heat-like repeat family member 8	NM_001039557.3
36	Gene Rpn2	AV261018, 13(ribophorin II	NM_019642.4
24	Gene Manbal	AI836500, 181 mannosidase, beta A, lysosomal-like	NM_026968.3
35	Gene Blcap	MGC102074, E bladder cancer associated protein homolog (human)	NM_016916.3
35	Gene Nnat	Nnat, Peg5, AV neuronatin	NM_010923.2, NM
30	Gene 9430008	9430008C03Ri RIKEN cDNA 9430008C03 gene	NR_015463.1, NR_
25	Gene Ralgapb	AI507211, mKI Ral GTPase activating protein, beta subunit (non-cat	NM_177658.3
37	Gene Ppp1r16	TIMAP, Ppp1r1 protein phosphatase 1, regulatory (inhibitor) subuni	NM_153089.4, NM
37	Gene Fam83d	BB104611, Far family with sequence similarity 83, member D	NM_027975.2
24	Gene Mafb	Mafb, Krml1, kv-maf musculoaponeurotic fibrosarcoma oncogene	NM_010658.3
33	Gene Top1	Top-1, Top1, D topoisomerase (DNA) I	NM_009408.2
33	Gene Plcg1	Plcg1, AI89414 phospholipase C, gamma 1	NM_021280.3
27	Gene Zhx3	9530010N21Ri zinc fingers and homeoboxes 3	NM_177263.3
27	Gene Lpin3	AA438110, KIA lipin 3	NM_001199118.1,
25	Gene Emilin3	EMILIN-T, 111(elastin microfibril interfacer 3	NM_182840.1
36	Gene Srsf6	Srsf6, AW1461 serine/arginine-rich splicing factor 6	NM_026499.4
26	Gene Sgk2	Sgkl, AI098171 serum/glucocorticoid regulated kinase 2	NM_013731.2
26	Gene Ift52	MGC47065, BC intraflagellar transport 52	NM_172150.4
25	Gene Mybl2	Mybl2, B-Myb, myeloblastosis oncogene-like 2	NM_008652.2
36	Gene 3230401	3230401D17Ri RIKEN cDNA 3230401D17 gene	NM_025699.2
48	Gene Fitm2	Fit2, Fitm2, D9 fat storage-inducing transmembrane protein 2	NM_173397.4
48	Gene 2310001	2310001K24Ri RIKEN cDNA 2310001K24 gene	NR_028122.1
29	Gene Serinc3	TMS-1, DIFF33 serine incorporator 3	NM_012032.4
29	Gene 0610039	0610039K10Ri RIKEN cDNA 0610039K10 gene	NR_028113.1
29	Gene Ywhab	Ywhab, 13000(tyrosine 3-monooxygenase/tryptophan 5-monooxyg	NM_018753.6
34	Gene Tomm34	TOM34, 26101 translocase of outer mitochondrial membrane 34	NM_025996.4
34	Gene Stk4	AU020804, Ysk serine/threonine kinase 4	NM_021420.3
20	Gene Kcns1	Kv9.1, Kcns1 K+ voltage-gated channel, subfamily S, 1	NM_008435.2
20	Gene Wfdc5	Prg5, PRG5, BC WAP four-disulfide core domain 5	NM_145369.3
16	Gene Sdc4	Sdc4, Synd4, A syndecan 4	NM_011521.2
30	Gene Sys1	2610042O14Ri SYS1 Golgi-localized integral membrane protein hon	NM_025575.3
30	Gene Trp53tg5	Trp53tg5, 170(transformation related protein 53 target 5	XR_033202.2, XR_
32	Gene Dnbdd2	1110017A21Ri dysbindin (dystrobrevin binding protein 1) domain c	NM_001048227.1
32	Gene Pigt	2510012P17Ri phosphatidylinositol glycan anchor biosynthesis, cla	NM_133779.2
25	Gene Wfdc3	1700127F16Ri WAP four-disulfide core domain 3	NM_027961.1
25	Gene LOC101055924	uncharacterized LOC101055924	XM_003945346.1,
25	Gene Dnttip1	6430706C13Ri deoxynucleotidyltransferase, terminal, interacting p	NM_133763.1
32	Gene Tnnc2	Tnncs, Tnnc2 troponin C2, fast	NM_009394.2
32	Gene Snx21	AI481716, 573 sorting nexin family member 21	NM_133924.3
32	Gene Acot8	PTE-2, Acot8, Facyl-CoA thioesterase 8	NM_133240.2
32	Gene Zswim1	Zswim1, 2410(zinc finger SWIM-type containing 1	NM_028028.2
32	Gene Spata25	1700020C07Ri spermatogenesis associated 25	NM_029370.1
32	Gene Neurl2	Neurl2, Ozz-E3 neuralized-like 2 (Drosophila)	NM_001082974.2
32	Gene Ctsa	Ctsa, Ppgb, AU cathepsin A	NM_001038492.1,
32	Gene Pltp	Bpife, Pltp, OD phospholipid transfer protein	NM_011125.2
37	Gene Pcif1	MGC25976, C2 PDX1 C-terminal inhibiting factor 1	NM_146129.3

32	Gene Zfp335	Nif1, 1810045, zinc finger protein 335	NM_199027.2
32	Gene Gm1145	Gm11458, OT predicted gene 11458	XR_107466.1, XR_107467.1
18	Gene Slc12a5	KCC2, mKIAA1 solute carrier family 12, member 5	NM_020333.2
37	Gene Ncoa5	Ncoa5, CIA, M nuclear receptor coactivator 5	NM_144892.1
27	Gene Slc35c2	CGI-15, D2Wsu solute carrier family 35, member C2	NM_001252573.1
27	Gene Elmo2	Elmo2, CED-12 engulfment and cell motility 2	NM_080287.2, NM_080288.2
22	Gene Slc13a3	SDCT2, NaDC3 solute carrier family 13 (sodium-dependent dicarboxylate)	NM_054055.2
23	Gene Ncoa3	Rac3, Actr, 201 nuclear receptor coactivator 3	NM_008679.3
25	Gene Sulf2	Sulf2, AU0202, sulfatase 2	NM_001252578.1
23	Gene Prex1	G630042G04, phosphatidylinositol-3,4,5-trisphosphate-dependent phosphatase	NM_177782.3
19	Gene Trp53rk	Nori-2, MGC28568, transformation related protein 53 regulating kinase	NM_023815.4
37	Gene Arfgef2	AI463430, ArfG ADP-ribosylation factor guanine nucleotide-exchange factor 2	NM_001085495.2
37	Gene Cse1l	Capt5, Cse1l, A chromosome segregation 1-like (<i>S. cerevisiae</i>)	NM_023565.3
18	Gene Stau1	AW549911, 58stauden (RNA binding protein) homolog 1 (<i>Drosophila</i>)	NM_011490.3, NM_011491.3
28	Gene Ddx27	C86129, Ddx27 DEAD (Asp-Glu-Ala-Asp) box polypeptide 27	NM_153065.3
22	Gene Znfx1	Znfx1, AI4811C zinc finger, NFX1-type containing 1	NM_001033196.2
22	Gene 1500012	1500012F01Ri RIKEN cDNA 1500012F01 gene	NM_001081005.1
22	Gene Snord12	Snord12, MBII small nucleolar RNA, C/D box 12	NR_028540.1
29	Gene Kcnb1	Kcnb1, Kv2.1, potassium voltage gated channel, Shab-related subfamily B	NM_008420.4
24	Gene Ptgis	Pgis, Cyp8, Cy prostaglandin I2 (prostacyclin) synthase	NM_008968.3
32	Gene Spata2	MGC38980, AI spermatogenesis associated 2	NM_170756.2
32	Gene Rnf114	1110008J21Ri ring finger protein 114	NM_030743.5
31	Gene Snai1	Snai1, Sna, Sna snail homolog 1 (<i>Drosophila</i>)	NM_011427.2
17	Gene Ube2v1	AI256840, 061 ubiquitin-conjugating enzyme E2 variant 1	NM_023230.2
23	Gene Tmem18	Kua, Tmem18 transmembrane protein 189	NM_145538.2
29	Gene Cebpb	NF-IL6, Nfil6, IICCAAT/enhancer binding protein (C/EBP), beta	NM_009883.3
29	Gene A530013	A530013C23Ri RIKEN cDNA A530013C23 gene	NR_015500.2
19	Gene Ptpn1	PTP-1B, PTP1B protein tyrosine phosphatase, non-receptor type 1	NM_011201.3
26	Gene Pard6b	AV025615, Par par-6 (partitioning defective 6) homolog beta (<i>C. elegans</i>)	NM_021409.2
24	Gene Adnp	AA589558, Ad activity-dependent neuroprotective protein	NM_009628.2
38	Gene Dpm1	AI194292, AI1 dolichol-phosphate (beta-D) mannosyltransferase 1	NM_010072.3
38	Gene Mocs3	1700020H17Ri molybdenum cofactor synthesis 3	NM_001160330.1
23	Gene Zfp64	Zfp64 zinc finger protein 64	NM_009564.2
26	Gene Tshz2	KIAA4248, Sdc teashirt zinc finger family member 2	NM_080455.2
21	Gene Pfdn4	C-1, C1, 18100 prefoldin 4	NM_001110152.2
21	Gene Gm1679	Gm16796 predicted gene, 16796	NR_040367.1
25	Gene Cbln4	AI848962, Cblr cerebellin 4 precursor protein	NM_175631.3
25	Gene Fam210l	AV108736, AI4 family with sequence similarity 210, member B	NM_025912.4
29	Gene Bmp7	Bmp7, OP1 bone morphogenetic protein 7	NM_007557.2
26	Gene Spo11	AI449549, Spo SPO11 meiotic protein covalently bound to DSB homolog	NM_001083960.1
34	Gene Rae1	3230401112Ri RAE1 RNA export 1 homolog (<i>S. pombe</i>)	NM_175112.5
34	Gene Rbm38	Seb4l, Seb4, R RNA binding motif protein 38	NM_019547.2
26	Gene Rab22a	Rab22a, Rab22 RAB22A, member RAS oncogene family	NM_024436.3
26	Gene Vapb	Vamp33b, Vap vesicle-associated membrane protein, associated protein	NM_019806.5
23	Gene Stx16	AI648908, Stx1 syntaxin 16	NM_172675.4, NM_172676.4
38	Gene Gnas	GPSA, Gnas1, IGNAS (guanine nucleotide binding protein, alpha subunit)	NM_019690.2, NM_019691.2
36	Gene Ctsz	D2Wsu143e, A cathepsin Z	NM_022325.4

30	Gene Sycp2	3830402K23Ri synaptonemal complex protein 2	NM_177191.3
30	Gene Ppp1r3d	Gm359, Ppp1r protein phosphatase 1, regulatory subunit 3D	NM_001085501.1
30	Gene Fam217l	9030418K01Ri family with sequence similarity 217, member B	NM_001081289.1
30	Gene Taf4a	Taf4a, AI45031TAF4A RNA polymerase II, TATA box binding protein	NM_001081092.1
30	Gene 4921531	4921531C22Ri RIKEN cDNA 4921531C22 gene	NR_033782.1
45	Gene Lsm14b	Lsm14b, 9430(LSM14 homolog B (SCD6, <i>S. cerevisiae</i>))	NM_177727.4
45	Gene PsmA7	PsmA7, C6-I proteasome (prosome, macropain) subunit, alpha type	NM_011969.1
45	Gene Ss18l1	CREST, Ss18l1, synovial sarcoma translocation gene on chromosome	NM_178750.5
28	Gene Osbpl2	KIAA0772, mKl oxysterol binding protein-like 2	NM_144500.3
20	Gene Adrm1	AA408205, AU adhesion regulating molecule 1	NM_019822.3
20	Gene Lama5	laminin-511, A laminin, alpha 5	NM_001081171.2
24	Gene Mrgbp	Mrgbp, AW06(MRG/MORF4L binding protein)	NM_028479.1
24	Gene Ogfr	Ogfr, 2010013 opioid growth factor receptor	NM_031373.3
24	Gene Dido1	Datf1, DIO-1, r death inducer-obliterator 1	NM_011805.2, NM
24	Gene Gid8	2310003C23Ri GID complex subunit 8 homolog (<i>S. cerevisiae</i>)	NM_029607.1
20	Gene Bhlhe23	A930001L02Ri basic helix-loop-helix family, member e23	NM_080641.5
22	Gene Ythdf1	2210410K23Ri YTH domain family 1	NM_173761.3
22	Gene Birc7	E130019N06, Ibaculoviral IAP repeat-containing 7 (livin)	NM_001163247.1
24	Gene Arfgap1	Arfgap1, AI115ADP-ribosylation factor GTPase activating protein 1	NM_001177706.1
28	Gene Pdpf	2610317A05Ri pancreatic progenitor cell differentiation and proliferation	NM_025598.2
28	Gene Ptk6	Sik, BRK, Tksk, PTK6 protein tyrosine kinase 6	NM_009184.2
23	Gene Rtel1	Rtel1, AW5404 regulator of telomere elongation helicase 1	NM_001001882.3
23	Gene Arfrp1	1500006I01Ri ADP-ribosylation factor related protein 1	NM_029702.4, NM
23	Gene Zgpat	1500006I01Ri zinc finger, CCCH-type with G patch domain	NM_001048148.1
43	Gene Zbtb46	BZEL, Zbtb46, I zinc finger and BTB domain containing 46	NM_027656.2, NM
23	Gene Abhd16k	BC050777, 17(abhydrolase domain containing 16B)	NM_183181.2
32	Gene Tpd52l2	D54, AU01653 tumor protein D52-like 2	NM_025482.2
32	Gene Dnajc5	Dnajc5, 26103 DnaJ (Hsp40) homolog, subfamily C, member 5	NM_016775.2
42	Gene Uckl1	1110007H10Ri uridine-cytidine kinase 1-like 1	NM_026765.3
42	Gene Gm1611	Gm16119, OTI predicted gene 16119	NR_027289.1, NR_
42	Gene Znf512b	Gm632, Znf51: zinc finger protein 512B	NM_001164597.1
26	Gene Sox18	Sox18, Ra, Rag SRY-box containing gene 18	NM_009236.2
26	Gene Tcea2	Tcea2, SII-T1, I transcription elongation factor A (SII), 2	NM_009326.2
23	Gene Rgs19	Rgs19, GAIP, A regulator of G-protein signaling 19	NM_026446.3
20	Gene 4930526	Gm692, 49305 RIKEN cDNA 4930526D03 gene	NM_199023.3
31	Gene Pex2	D3ErtD138e, Pxmp3, Pex2, PMP35, 35kDa	NM_001163301.2
21	Gene Pkia	PKIalpha, AI41 protein kinase inhibitor, alpha	NM_008862.3
27	Gene Tpd52	mD52, AI0430: tumor protein D52	NM_001025261.1
26	Gene Zbtb10	RINZF, AU0211: zinc finger and BTB domain containing 10	NM_177660.3
23	Gene Pag1	Pag1, F730007 phosphoprotein associated with glycosphingolipid r	NM_053182.5, NM
27	Gene Impa1	2610002K09Ri inositol (myo)-1(or 4)-monophosphatase 1	NM_018864.5
27	Gene Slc10a5	Gm405, mP5, I solute carrier family 10 (sodium/bile acid cotranspor	NM_001010834.2
27	Gene Zfand1	2310008M20R zinc finger, AN1-type domain 1	NM_025512.2
17	Gene Raly	0710005M24R RALY RNA binding protein-like	NM_178631.4, NM
35	Gene Lrrcc1	AI447421, Lrrc leucine rich repeat and coiled-coil domain containin	NM_028915.3, NM
35	Gene E2f5	E2f5, AU02467 E2F transcription factor 5	NM_007892.2
39	Gene Ythdf3	Ythdf3, 91300: YTH domain family 3	NM_172677.3, NM

33	Gene Pde7a	AW047537, Al phosphodiesterase 7A	NM_008802.2, NM
27	Gene Hps3	Hps3, coa Hermansky-Pudlak syndrome 3 homolog (human)	NM_080634.4, NM
19	Gene Gyg	Gyg, AU01766 glycogenin	NM_013755.2
21	Gene 2810416	2810416G20Ri RIKEN cDNA 2810416G20 gene	XM_003945668.1
21	Gene Tbl1xr1	DC42, TBLR1, β transducin (beta)-like 1X-linked receptor 1	NM_030732.3
40	Gene Ect2	Ect2, KIAA403 ect2 oncogene	NM_001177625.1
40	Gene 1700125	1700125G22Ri RIKEN cDNA 1700125G22 gene	NR_040548.1
34	Gene Fncl3b	AW550168, Kl fibronectin type III domain containing 3B	NM_173182.2
22	Gene Tnik	MGC189859, 4TRAF2 and NCK interacting kinase	NM_026910.1, NM
21	Gene Eif5a2	MGC124093, Eukaryotic translation initiation factor 5A2	NM_177586.5
30	Gene Sec62	HTP1, 310000:SEC62 homolog (S. cerevisiae)	NM_027016.2
18	Gene Gpr160	Gpr160, 1700G G protein-coupled receptor 160	NM_001134385.1,
34	Gene Phc3	Edr3, Hph3, EC polyhomeotic-like 3 (Drosophila)	NM_153421.2, NM
27	Gene Prkci	Prkci, KIAA416 protein kinase C, iota	NM_008857.3
24	Gene Skil	Skil, sno-dE3, ϵ SKI-like	NM_011386.2, NM
21	Gene Zfp639	ANC-2H01, ZAN zinc finger protein 639	NM_144519.4, NM
21	Gene Mfn1	KIAA4032, mKl mitofusin 1	NM_024200.4
33	Gene Actl6a	Actl6, C79802, actin-like 6A	NM_019673.2
19	Gene Usp13	ISOT3, AI8480 ubiquitin specific peptidase 13 (isopeptidase T-3)	NM_001013024.2
30	Gene Ttc14	AW561908, Tt tetratricopeptide repeat domain 14	NM_025978.3, NM
19	Gene Sox2ot	Sox2ot, B2302 SOX2 overlapping transcript (non-protein coding)	NR_015580.1
19	Gene Sox2	ysb, Sox2, lcc, SRY-box containing gene 2	NM_011443.3
27	Gene Mccc1	1810045E08Ri methylcrotonoyl-Coenzyme A carboxylase 1 (alpha)	NM_023644.4
27	Gene A330050	A330050B17Ri RIKEN cDNA A330050B17 gene	NR_029456.1
27	Gene Ccdc144	Ccdc144b, MG coiled-coil domain containing 144B	NM_178418.4
19	Gene Acad9	4732402K02, 2 acyl-Coenzyme A dehydrogenase family, member 9	NM_172678.3
37	Gene Exosc9	PM/Scl-75, Pm exosome component 9	NM_019393.2
37	Gene Ccna2	Ccna2, Ccn-1, cyclin A2	NM_009828.2
37	Gene Bbs7	8430406N16Ri Bardet-Biedl syndrome 7 (human)	NM_027810.3
27	Gene Nudt6	Asfgf2b, MGC2 nudix (nucleoside diphosphate linked moiety X)-type	NM_153561.2
27	Gene Spata5	Spaf, 2510048 spermatogenesis associated 5	NM_021343.2, NM
32	Gene Spry1	Spry1, sprouty sprouty homolog 1 (Drosophila)	NM_011896.2
25	Gene Ankrd50	AI662170, mKl ankyrin repeat domain 50	NM_001167883.1
28	Gene Fat4	9430004M15, FAT tumor suppressor homolog 4 (Drosophila)	NM_183221.3
28	Gene Hspa4l	APG-1, MGC11 heat shock protein 4 like	NM_011020.3
28	Gene Plk4	AI385771, Plk4, Sak, Stk18, 1700028H20	NM_011495.2, NM
17	Gene Lar1b	4933421B21Ri La ribonucleoprotein domain family, member 1B	NM_001040399.1
37	Gene Pgrmc2	DG6, PMBP, P ϵ progesterone receptor membrane component 2	NM_027558.1
31	Gene Phf17	Jade1, AU0414 PHD finger protein 17	NM_172303.4, NM
35	Gene Ccrn4l	nocturnin, AU(CCR4 carbon catabolite repression 4-like (S. cerevisiae)	NM_009834.2
28	Gene Elf2	BB183398, NEI E74-like factor 2	NM_023502.1
28	Gene 4930577	4930577N17Ri RIKEN cDNA 4930577N17 gene	XM_003945364.1,
24	Gene Ndufc1	2310016K22Ri NADH dehydrogenase (ubiquinone) 1, subcomplex c	NM_025523.1
24	Gene Naa15	MGC29428, tu N(alpha)-acetyltransferase 15, NatA auxiliary subuni	NM_053089.3
34	Gene Setd7	H3K4MT, KMT SET domain containing (lysine methyltransferase) 7	NM_080793.5
34	Gene 5031434	Gm2370, AI48 RIKEN cDNA 5031434O11 gene	NR_033624.1
33	Gene Mam13	Mam-2, KIAA1 mastermind like 3 (Drosophila)	NM_001004176.2

34	Gene Foxo1	AI876417, FKH forkhead box O1	NM_019739.3
23	Gene Lhfp	AI194968, Lhf lipoma HMGIC fusion partner	NM_175386.3
18	Gene Nhlrc3	mKIAA4083, N NHL repeat containing 3	NM_172501.2
18	Gene Proser1	Proser1, 2810(proline and serine rich 1	NM_173382.1
19	Gene Frem2	nv1, 6030440F Fras1 related extracellular matrix protein 2	NM_172862.3
28	Gene Ufm1	1810045K17Ri ubiquitin-fold modifier 1	NM_026435.5
28	Gene Exosc8	KIAA4013, mKl exosome component 8	NM_001163570.1
28	Gene Alg5	AV170001, AV asparagine-linked glycosylation 5 (dolichyl-phosphat	NM_025442.3
18	Gene Ccna1	Ccna1, MGC15 cyclin A1	NM_007628.3
18	Gene 4931419	4931419H13Ri RIKEN cDNA 4931419H13 gene	NR_040593.1
27	Gene Nbea	mKIAA1544, L neurobeachin	NM_030595.1
19	Gene Mab211	AW047968, M mab-21-like 1 (C. elegans)	NM_010750.3
18	Gene Wwtr1	Wwtr1, Taz, C WW domain containing transcription regulator 1	NM_133784.3, NM
28	Gene Pfn2	Pfn, Pfn2 profilin 2	NM_019410.3
44	Gene Tsc22d2	Tsc22d2, 1810 TSC22 domain family, member 2	NM_001081229.1
35	Gene Serp1	D3Ucla1, Serp: stress-associated endoplasmic reticulum protein 1	NM_030685.3
35	Gene Eif2a	Eif2a, D030048D22, MGC105246, D3Ertd194e	NM_001005509.2
24	Gene 2810407	SelT, 2810407(RIKEN cDNA 2810407C02 gene	NM_001040396.2
22	Gene Siah2	AA415433, Sia seven in absentia 2	NM_009174.3
22	Gene 4930593	4933440I01Rik RIKEN cDNA 4930593A02 gene	NR_045167.1
31	Gene Med12l	A130035F20, M mediator of RNA polymerase II transcription, subuni	NM_177855.3
23	Gene Mbnl1	Mbnl, Mbnl1, muscleblind-like 1 (Drosophila)	NM_020007.3, NM
19	Gene P2ry1	P2ry1, P2Y1 purinergic receptor P2Y, G-protein coupled 1	NM_008772.4
29	Gene Rap2b	AA408554, 40: RAP2B, member of RAS oncogene family	NM_028712.4
26	Gene Arhgef2	8430436L14Ril Rho guanine nucleotide exchange factor (GEF) 26	NM_001081295.1
20	Gene Mme	Mme, C85356, membrane metallo endopeptidase	NM_008604.3
25	Gene E130311	E130311K13Ri RIKEN cDNA E130311K13 gene	NM_177856.4
31	Gene Gmps	AI047208, Gmps, AA591640	NM_001033300.2
24	Gene Ssr3	Ssr3, AW5538: signal sequence receptor, gamma	NM_026155.3
37	Gene 4931440	4931440P22Ri RIKEN cDNA 4931440P22 gene	NR_027955.1
37	Gene Tiparp	ARTD14, PARP TCDD-inducible poly(ADP-ribose) polymerase	NM_178892.5
23	Gene Lekr1	Gm6534, EG54 leucine, glutamate and lysine rich 1	NM_001166659.1,
38	Gene Ccnl1	Ccnl, AU01849 cyclin L1	NM_019937.3
20	Gene Rarres1	5430417P09Ri retinoic acid receptor responder (tazarotene induce	NM_001164763.1
19	Gene Gm2194	lqj-schip1, Gn predicted gene, 21949	NM_001113419.2
19	Gene Schip1	Nf2ip, Schip-1 schwannomin interacting protein 1	NM_001113420.1,
26	Gene 1110032	AI115547, 111 RIKEN cDNA 1110032F04 gene	NM_001167996.1
35	Gene lft80	mKIAA1374, lft80, Wdr56, 4921524P20Rik	NM_026641.2
35	Gene Smc4	SMC-4, Smc4l1 structural maintenance of chromosomes 4	NM_133786.3
35	Gene Mir15b	mmu-mir-15b, microRNA 15b	NR_029529.1
35	Gene Mir16-2	mir-16-2, Mir1 microRNA 16-2	NR_029735.1
25	Gene Trim59	2700022F13Ri tripartite motif-containing 59	NM_025863.3
33	Gene Kpna4	Kpna4, 111005 karyopherin (importin) alpha 4	NM_008467.4
33	Gene Gm1647	Gm1647 predicted gene 1647	NM_001243000.1
27	Gene Ppm1l	3222401G13, P protein phosphatase 1 (formerly 2C)-like	NM_178726.3
27	Gene Nmd3	Nmd3, C87860 NMD3 homolog (S. cerevisiae)	NM_133787.2
25	Gene Golim4	GPP130, GIMP golgi integral membrane protein 4	NM_175193.5

18	Gene Fnip2	Fnip2, D63002 folliculin interacting protein 2	NM_001162999.2
18	Gene 4930589	4930589L23Ril RIKEN cDNA 4930589L23 gene	XR_140605.1
25	Gene Ppid	CYP-40, Ppid, 4 peptidylprolyl isomerase D (cyclophilin D)	NM_026352.3
29	Gene Pdgfc	1110064L01Ril platelet-derived growth factor, C polypeptide	NM_019971.2
22	Gene Sfrp2	AI851596, Sdf: secreted frizzled-related protein 2	NM_009144.2
27	Gene D930015	Kiaa0922, D93 RIKEN cDNA D930015E06 gene	NM_172681.4
21	Gene Fhdc1	Gm126, Fhdc1 FH2 domain containing 1	NM_001033301.4
27	Gene Arfip1	AW123087, Ar ADP-ribosylation factor interacting protein 1	NM_001081093.1
26	Gene Fbxw7	Fbwd6, Fbxw7 F-box and WD-40 domain protein 7	NM_001177773.1
38	Gene Rps3a1	MGC102469, Ribosomal protein S3A1	NM_016959.4
38	Gene Snord73	U73a, Rnu73a, small nucleolar RNA, C/D box U73A	NR_004417.1
38	Gene Rnu73b	Rnu73b, U73b U73B small nuclear RNA	NR_004418.1
24	Gene Lrba	Lab300, Lba, D LPS-responsive beige-like anchor	NM_001077687.1
19	Gene Dclk2	CL2, Dclk2, Clic doublecortin-like kinase 2	NM_001195496.1
25	Gene Etv3	AI414410, Etv: ets variant gene 3	NM_001083318.1
19	Gene Arhgef1	MGC90827, m Rho guanine nucleotide exchange factor (GEF) 11	NM_001003912.1
19	Gene Prcc	Prcc papillary renal cell carcinoma (translocation-associated)	NM_033573.2
28	Gene Hdgf	Hdgf, AI11807 hepatoma-derived growth factor	NM_008231.4
22	Gene Mrpl24	2810470K06Ri mitochondrial ribosomal protein L24	NM_026591.3
22	Gene Rrnad1	Rrnad1, BC023 ribosomal RNA adenine dimethylase domain contain	NM_153562.4
22	Gene Isg20l2	Isg20l2, 49304 interferon stimulated exonuclease gene 20-like 2	NM_177663.4
23	Gene Nes	Nes, C78523, Nestin	NM_016701.3
21	Gene Bcan	Bcan, Cspg7 brevican	NM_007529.2, NM
18	Gene Hapln2	Bral1, 4930401 hyaluronan and proteoglycan link protein 2	NM_022031.2
27	Gene Gm1943	Gm19439 predicted gene, 19439	XR_107508.1, XR_
28	Gene Gpatch4	2610029K21Ri G patch domain containing 4	NM_025663.3, NM
28	Gene Apoa1b	ESTM37, AI-BP apolipoprotein A-I binding protein	NM_144897.3
24	Gene Ttc24	MGC58815, A4 tetratricopeptide repeat domain 24	NM_172526.3
24	Gene Iqgap3	Iqgap3, AI5934 IQ motif containing GTPase activating protein 3	NM_001033484.1
38	Gene Gm1945	Gm19451 predicted gene, 19451	XR_107509.1, XR_
38	Gene Mef2d	MGC31718, C8 myocyte enhancer factor 2D	NM_133665.3
18	Gene Gm3764	Gm3759, Gm3 predicted gene 3764	XR_168410.1
22	Gene Pmf1	AW060657, 26 polyamine-modulated factor 1	NM_025928.3
22	Gene Slc25a4	6720482A19, E solute carrier family 25, member 44	NM_178696.4, NM
29	Gene Lmna	Lmna, Dhe	NM_019390.2, NM
27	Gene Mex3a	Rkhd4, AA387: mex3 homolog A (C. elegans)	NM_001029890.2
27	Gene Mir1905	Mir1905, Mirn microRNA 1905	NR_035434.1
28	Gene Rab25	Rab25, AV012: RAB25, member RAS oncogene family	NM_016899.4
28	Gene Lamtor2	Lamtor2, Rab2 late endosomal/lysosomal adaptor, MAPK and MTO	NM_031248.3
28	Gene Ubqln4	Ubqln4, CIP75, ubiquilin 4	NM_033526.2
23	Gene Arhgef2	GEFH1, Lbcl1, rho/rac guanine nucleotide exchange factor (GEF) 2	NM_008487.3, NM
29	Gene 2810403	AI451678, 281 RIKEN cDNA 2810403A07 gene	NM_028814.3
26	Gene Dap3	DAP-3, 492151 death associated protein 3	NM_022994.3, NM
26	Gene Ash1l	Ash1, E430018 ash1 (absent, small, or homeotic)-like (Drosophila)	NM_138679.5
26	Gene Rusc1	2210403N08Ri RUN and SH3 domain containing 1	NM_001083807.1
26	Gene Fdps	MGC107162, r farnesyl diphosphate synthetase	NM_001253751.1
22	Gene Clk2	AU041688, Tu: CDC-like kinase 2	NM_007712.3, NM

22	Gene Scamp3	Scamp3, TU52, secretory carrier membrane protein 3	NM_011886.2
22	Gene Fam189l	1110013L07Ril family with sequence similarity 189, member B	NM_001014995.1
31	Gene Gba	Gba1, GC, Gba glucosidase, beta, acid	NM_001077411.1,
31	Gene Mtx1	Mtx, Gcap6, Mmetaxin 1	NM_013604.2, NM
31	Gene Thbs3	Thbs3, Thbs-3, thrombospondin 3	NM_013691.2
25	Gene Dpm3	Dpm3, 111000 dolichyl-phosphate mannosyltransferase polypeptid	NM_026767.3
25	Gene Slc50a1	MmSWEET1, R solute carrier family 50 (sugar transporter), member	NM_009057.3
27	Gene Efna1	Efna1, B61, Ep ephrin A1	NM_010107.4, NM
24	Gene Efna3	MGC129300, Ephrin A3	NM_010108.1
24	Gene Gm1599	ENSMUSG000 (predicted gene 15998)	XR_104847.1
24	Gene Efna4	LERK-4, Efna4, ephrin A4	NM_007910.2
24	Gene 4731419	ENSMUSG000 (RIKEN cDNA 4731419I09 gene)	XR_168404.1, XR_
24	Gene Adam15	Adam15, meta a disintegrin and metallopeptidase domain 15 (meta	NM_001037722.2
17	Gene Zbtb7b	Zfp67, Zbtb7b, zinc finger and BTB domain containing 7B	NM_009565.4
17	Gene Gm1541	ENSMUSG000 (predicted gene 15417)	NR_040403.1, NR_
17	Gene Lenep	Lep503, AU018 lens epithelial protein	NM_020517.4
33	Gene Shc1	Shc, p66, Shc1, src homology 2 domain-containing transforming pro	NM_011368.5, NM
33	Gene Pygo2	Pygo2, 119000 pygopus 2	NM_026869.2
33	Gene Pbxip1	4732463H20Ri pre B cell leukemia transcription factor interacting p	NM_146131.2
20	Gene Kcnn3	Kcnn3, SK3, M potassium intermediate/small conductance calcium	NM_080466.2
22	Gene Adar	Adar, AV24245 adenosine deaminase, RNA-specific	NM_001146296.1
36	Gene Chrnb2	C030030P04Ri cholinergic receptor, nicotinic, beta polypeptide 2 (r	NM_009602.4
36	Gene Ube2q1	Ube2q, PRO30 ubiquitin-conjugating enzyme E2Q (putative) 1	NM_027315.4
17	Gene She	She, MGC1304 src homology 2 domain-containing transforming pro	NM_172530.3
25	Gene Il6ra	CD126, IL-6R, I interleukin 6 receptor, alpha	NM_010559.2
19	Gene Atp8b2	Id, Atp8b2 ATPase, class I, type 8B, member 2	NM_001081182.2
34	Gene Mir190b	Mir190b, Mirn microRNA 190b	NR_030543.1
34	Gene Tpm3	Tpm-5, MGC16 tropomyosin 3, gamma	NM_001253738.1
27	Gene Crtc2	Crtc2, mTORC2 CREB regulated transcription coactivator 2	NM_028881.2
27	Gene Dennd4l	mKIAA0476, B DENN/MADD domain containing 4B	NM_201407.3
37	Gene Slc27a3	FATP3, Acsvl3, solute carrier family 27 (fatty acid transporter), men	NM_011988.2
37	Gene Ints3	Ints3, C77668 integrator complex subunit 3	NM_145540.3, NM
35	Gene Npr1	Npr1, GC-A, Pr natriuretic peptide receptor 1	NM_008727.5
38	Gene Ilf2	Ilf2, TEG-267, I interleukin enhancer binding factor 2	NM_026374.3
38	Gene Snapin	Bloc1s7, AA40 SNAP-associated protein	NM_133854.3
38	Gene Chtop	C81330, Srag, I chromatin target of PRMT1	NM_023215.5
24	Gene S100a1	AI266795, S10 S100 calcium binding protein A1	NM_011309.3
24	Gene S100a13	S100a13 S100 calcium binding protein A13	NM_009113.4
20	Gene C2cd4d	C2cd4d, Gm65 C2 calcium-dependent domain containing 4D	NM_001136117.1
20	Gene Rorc	Nr1f3, TOR, RC RAR-related orphan receptor gamma	NM_011281.2
27	Gene Snx27	ESTM45, R754 sorting nexin family member 27	NM_029721.1, NM
25	Gene Pogz	AU044539, 95: pogo transposable element with ZNF domain	NM_172683.3, NM
25	Gene Psmb4	Pros-27, Psmb4	NM_008945.3
30	Gene Pi4kb	Pi4kb, AA4378 phosphatidylinositol 4-kinase, catalytic, beta polype	NM_175356.2
20	Gene Pip5k1a	Pipk5b, Pipk5a phosphatidylinositol-4-phosphate 5-kinase, type 1 a	NM_008847.2
20	Gene Vps72	YL-1, Vps72, T vacuolar protein sorting 72 (yeast)	NM_009336.2
30	Gene Sema6c	Semay, mKIAA sema domain, transmembrane domain (TM), and cy	NM_011351.1

23	Gene Gabpb2	Gabpb2, AV05 GA repeat binding protein, beta 2	NM_172512.2, NM
32	Gene Mllt11	Zfp692, AI8395 myeloid/lymphoid or mixed-lineage leukemia (tritho	NM_019914.4
32	Gene Cdc42se	AW558204, Cc CDC42 small effector 1	NM_001038708.2
32	Gene Gm128	Ment, Gm128, pmis1	NM_001024841.3
25	Gene Anxa9	Anxa9, 231006 annexin A9	NM_023628.2, NM
25	Gene 6330562	6330562C20Ri RIKEN cDNA 6330562C20 gene	XR_140571.1, XR_
25	Gene Cers2	Cers2, 0610013117Rik, AI225939, Lass2, TRH3, CerS2	NM_029789.1
25	Gene Setdb1	ESET, MGC906 SET domain, bifurcated 1	NM_018877.3, NM
27	Gene Gm4349	Gm4349 SET domain, bifurcated 1 pseudogene	NR_033637.1
27	Gene Arnt	Hif1b, Arnt, mIaryl hydrocarbon receptor nuclear translocator	NM_001037737.2
37	Gene Mcl1	Mcl1, Mcl-1, A myeloid cell leukemia sequence 1	NM_008562.3
20	Gene Anp32e	CPD1, LANP-L, acidic (leucine-rich) nuclear phosphoprotein 32 fami	NM_023210.4, NM
22	Gene Gm9054	Gm9054, EG66 predicted gene 9054	NR_045872.1
22	Gene Plekho1	Plekho1, 2810 pleckstrin homology domain containing, family O me	NM_023320.2
22	Gene Vps45	AI462172, mV1 vacuolar protein sorting 45 (yeast)	NM_013841.3
27	Gene Otud7b	4930463P07Ri OTU domain containing 7B	NM_001025614.1
21	Gene Hist2h2a	H2a-613a, Hist histone cluster 2, H2ab	NM_178213.3
21	Gene Hist2h2a	Hist2h2ac, H2a histone cluster 2, H2ac	NM_175662.1
21	Gene Hist2h2b	H2b-613, T256 histone cluster 2, H2be	NM_178214.3
23	Gene Gm1544	Gm15441, ENS predicted gene 15441	NR_040409.1
23	Gene Txnip	THIF, 1200008 thioredoxin interacting protein	NM_001009935.2
38	Gene Lix1l	Lix1l, D130027 Lix1-like	NM_001163170.1
38	Gene Rbm8a	Rbm8a, 23100 RNA binding motif protein 8a	NM_025875.2, NM
38	Gene Pex11b	PEX11beta, Pe peroxisomal biogenesis factor 11 beta	NM_011069.3, NM
38	Gene Itga10	A630048L14, I integrin, alpha 10	NM_001081053.1
23	Gene Ankrd35	4732436F15Ri ankyrin repeat domain 35	NM_001081139.1
23	Gene Pias3	Pias3l, MGC27 protein inhibitor of activated STAT 3	NM_146135.2, NM
23	Gene Nudt17	Nudt17, 2410C nudix (nucleoside diphosphate linked moiety X)-type	NM_030094.1, NM
25	Gene Polr3c	RPC3, RPC62, I polymerase (RNA) III (DNA directed) polypeptide C	NM_028925.1
25	Gene Rnf115	Zfp364, 26100 ring finger protein 115	NM_026406.3
22	Gene Gpr89	Gpr89a, SH12C G protein-coupled receptor 89	NM_026229.4
21	Gene Acp6	mPACPL1, AUC acid phosphatase 6, lysophosphatidic	NM_019800.4
20	Gene Chd1l	Chd1l, Alc1, 44 chromodomain helicase DNA binding protein 1-like	NM_026539.2
26	Gene Pde4dip	C87016, D130C phosphodiesterase 4D interacting protein (myomeg	NM_177145.3, NM
29	Gene Sec22b	AA517334, Sec SEC22 vesicle trafficking protein homolog B (S. cerev	NM_011342.4
30	Gene Notch2	N2, AI853703, Notch2	NM_010928.2
26	Gene Zfp697	AI467503, 943 zinc finger protein 697	NM_172863.4
20	Gene Wars2	AI413375, Wai tryptophanyl tRNA synthetase 2 (mitochondrial)	NM_027462.4
27	Gene Wdr3	AW546279, DCWD repeat domain 3	NM_175552.4
27	Gene Gdap2	Gdap2, D3Ert ganglioside-induced differentiation-associated-prote	NM_010269.2
18	Gene Fam46c	AI449797, 493 family with sequence similarity 46, member C	NM_001142952.1
18	Gene Gm1247	OTTMUSG000I predicted gene 12474	XR_168411.1, XR_
27	Gene Man1a2	AI528764, AI4: mannosidase, alpha, class 1A, member 2	NM_010763.2
22	Gene Ptgfrn	4833445A08Ri prostaglandin F2 receptor negative regulator	NM_011197.3
32	Gene Atp1a1	Atp1a1, BC01C ATPase, Na+/K+ transporting, alpha 1 polypeptide	NM_144900.2
25	Gene Slc22a15	2610034P21Ri solute carrier family 22 (organic anion/cation transp	NM_001039371.2
21	Gene Vangl1	Vangl1, Stbm, vang-like 1 (van gogh, Drosophila)	NM_177545.4, NM

34	Gene Sike1	Sikeb, AI83986 suppressor of IKBKE 1	NM_025679.3
28	Gene Ampd1	Ampd-1, AI553 adenosine monophosphate deaminase 1	NM_001033303.2
27	Gene Trim33	ectodermin, Ti tripartite motif-containing 33	NM_053170.2, NM
19	Gene Hipk1	1110062K04Ri homeodomain interacting protein kinase 1	NM_010432.2
21	Gene Dclre1b	mSNM1B, Apo DNA cross-link repair 1B, PSO2 homolog (S. cerevisiae)	NM_001025312.1,
21	Gene Gm1547	OTTMUSG000i predicted gene 15471	NR_040412.1
21	Gene Ap4b1	Ap4b1, AV004 adaptor-related protein complex AP-4, beta 1	NM_026193.2, NM
33	Gene Ptpn22	70zpep, PEP, P protein tyrosine phosphatase, non-receptor type 22	NM_008979.1
35	Gene Rsbn1	Rsbn, C230004 rosbin, round spermatid basic protein 1	NM_172684.2
35	Gene A130049	A130049A11Ri RIKEN cDNA A130049A11 gene	NR_030676.1
35	Gene Phtf1	AU041898, Ph putative homeodomain transcription factor 1	NM_013629.2, NM
24	Gene Magi3	Magi3, 473249 membrane associated guanylate kinase, WW and PDZ domain containing 3	NM_001159354.1
28	Gene Lrig2	BB096938, Lrig leucine-rich repeats and immunoglobulin-like domains 2	NM_001025067.1
25	Gene Slc16a1	AL022710, Mc solute carrier family 16 (monocarboxylic acid transporters) member 1	NM_009196.3
19	Gene Ppm1j	2310008J22Ri protein phosphatase 1J	NM_027982.2
19	Gene Rhoc	AI324259, Arh ras homolog gene family, member C	NM_007484.2
31	Gene Mov10	Mov10, Mov-1 Moloney leukemia virus 10	NM_008619.2, NM
31	Gene Capza1	CAPZ, CAZ1, C capping protein (actin filament) muscle Z-line, alpha 1	NM_009797.2
27	Gene St7l	MGC130399, S suppression of tumorigenicity 7-like	NM_001253702.1
19	Gene Wnt2b	Wnt2b, Wnt13 wingless related MMTV integration site 2b	NM_009520.3
21	Gene 1700095	1700095B22Ri RIKEN cDNA 1700095B22 gene	NR_040759.1
21	Gene Kcnd3	Kv4.3, Kcnd3, I potassium voltage-gated channel, Shal-related family 3	NM_019931.1, NM
38	Gene Ddx20	MGC159174, c DEAD (Asp-Glu-Ala-Asp) box polypeptide 20	NM_017397.3
21	Gene Cept1	BB118941, 993 choline/ethanolamine phosphotransferase 1	NM_133869.3
21	Gene Dram2	2010305N14Ri DNA-damage regulated autophagy modulator 2	NM_026013.2, NM
19	Gene Kcna3	Mk-3, Kca1-3, potassium voltage-gated channel, shaker-related subfamily 3	NM_008418.2
19	Gene AI50443	A230102G19, expressed sequence AI504432	NR_033498.1
31	Gene Lamtor5	Lamtor5, 1110 late endosomal/lysosomal adaptor, MAPK and MTOC organizer 5	NM_026774.2
22	Gene Kcnc4	Kv3.4, Kcr2-4, potassium voltage gated channel, Shaw-related subfamily 4	NM_145922.2
22	Gene Slc6a17	Slc6a17, D130i solute carrier family 6 (neurotransmitter transporters) member 17	NM_172271.2
29	Gene Strip1	6530401O14Ri striatin interacting protein 1	NM_153563.2
22	Gene Csf1	Csfm, op, Csf1, colony stimulating factor 1 (macrophage)	NM_007778.4, NM
34	Gene Ampd2	AI552571, 120 adenosine monophosphate deaminase 2	NM_028779.4
34	Gene Gnat2	AW490837, Tc guanine nucleotide binding protein, alpha transducin 2	NM_008141.2
26	Gene 1700013	1700013F07Rik	NM_029314.1
26	Gene Scarna2	MBII-382, Scar small Cajal body-specific RNA 2	NR_028538.1
26	Gene Tmem16f	2010200O16Ri transmembrane protein 167B	NM_026198.2
28	Gene Taf13	2010309N11Ri TAF13 RNA polymerase II, TATA box binding protein 13	NM_025444.2
28	Gene Wdr47	1810073M12RWD repeat domain 47	NM_181400.3
28	Gene Clcc1	Mclc, Clcc1 chloride channel CLIC-like 1	NM_001177770.1
32	Gene Stxbp3a	MGC86097, St syntaxin binding protein 3A	NM_011504.1
32	Gene Prpf38b	Prpf38b, AU01 PRP38 pre-mRNA processing factor 38 (yeast) domain 2	NM_025845.2
18	Gene LOC101055747	uncharacterized LOC101055747	XM_003946122.1,
18	Gene Henmt1	MGC117573, 4HEN1 methyltransferase homolog 1 (Arabidopsis)	NM_001078646.1
25	Gene Fam102l	B430201A12Ri family with sequence similarity 102, member B	NM_001163567.1
22	Gene Vav3	AA986410, Idd vav 3 oncogene	NM_146139.2, NM
47	Gene Prmt6	BB233495, AW protein arginine N-methyltransferase 6	NM_178891.4, NR

21	Gene Slc30a7	1810059J10Ri	solute carrier family 30 (zinc transporter), member 7	NM_023214.7
21	Gene Extl2	AW146439,	3C exostosins (multiple)-like 2	NM_021388.4, NM
21	Gene Gpr88	Gpr88,	AW061 G-protein coupled receptor 88	NM_022427.2
34	Gene Cdc14a	CDC14a1,	A83 CDC14 cell division cycle 14A	NM_001080818.2,
26	Gene Trmt13	A930028L21Ri	tRNA methyltransferase 13	NM_030016.2
26	Gene Sass6	2810453L12Ri	spindle assembly 6 homolog (C. elegans)	NM_028349.2
25	Gene Hiat1	MGC144858,	H hippocampus abundant gene transcript 1	NM_008246.2
25	Gene Slc35a3	2310050P13Ri	solute carrier family 35 (UDP-N-acetylglucosamine (1	NM_144902.3
27	Gene Cnn3	Cnn3,	C85854, calponin 3, acidic	NM_028044.2
30	Gene F3	AA409063,	F3 coagulation factor III	NM_010171.3
25	Gene Abcd3	PMP70,	AI313 ATP-binding cassette, sub-family D (ALD), member 3	NM_008991.2
16	Gene Arhgap2	Parg1,	C76601 Rho GTPase activating protein 29	NM_172525.2
22	Gene Gclm	Gclr,	AI64939: glutamate-cysteine ligase, modifier subunit	NM_008129.3
30	Gene Dnttip2	AA408582,	AU deoxynucleotidyltransferase, terminal, interacting p	NM_153806.1
30	Gene Mir760	mmu-mir-760,	microRNA 760	NR_030439.1
26	Gene Fnbp1l	AW548221,	Fn formin binding protein 1-like	NM_153118.2, NM
24	Gene Pde5a	Pde5,	Pde5a, C phosphodiesterase 5A, cGMP-specific	NM_153422.2
37	Gene Usp53	AA939927,	Sp ubiquitin specific peptidase 53	NM_133857.3
20	Gene Prss12	Bssp-3,	Prss12, protease, serine, 12 neurotrypsin (motopsin)	NM_008939.2
20	Gene Tram1l1	MGC38777,	A translocation associated membrane protein 1-like 1	NM_146140.3
33	Gene Camk2d	2810011D23Ri	calcium/calmodulin-dependent protein kinase II, del	NM_023813.3, NM
30	Gene Larp7	Larp7,	D3Wsu: La ribonucleoprotein domain family, member 7	NM_138593.2
30	Gene Mir302b	Mir302b,	Mir microRNA 302b	NR_030403.1
30	Gene Mir302c	Mir302c,	Mir microRNA 302c	NR_030404.1
30	Gene Mir302a	Mir302a,	Mir microRNA 302a	NR_029653.1
30	Gene Mir302d	Mir302d,	Mir microRNA 302d	NR_030405.1
30	Gene Mir367	Mir367,	Mir3 microRNA 367	NR_030268.1
30	Gene 4930422	4930422G04Ri	RIKEN cDNA 4930422G04 gene	NM_197997.2
23	Gene Ap1ar	C78909,	Gadki adaptor-related protein complex 1 associated regul	NM_145964.2
20	Gene Pitx2	Brx1b,	Pitx2, P paired-like homeodomain transcription factor 2	NM_011098.3, NM
22	Gene Elov16	LCE,	FAE, Elov1 ELOVL family member 6, elongation of long chain fai	NM_130450.2
57	Gene Rrh	Rrh	retinal pigment epithelium derived rhodopsin homo	NM_009102.3
57	Gene Gar1	Gar1,	AA4098: GAR1 ribonucleoprotein homolog (yeast)	NM_026578.3
57	Gene Cfi	Cfi	complement component factor i	NM_007686.2
50	Gene Rpl34	1100001I22Ri	ribosomal protein L34	NM_026724.1, NM
15	Gene Lef1	3000002B05,	Lymphoid enhancer binding factor 1	NM_010703.3
26	Gene Hadh	AW742602,	A hydroxyacyl-Coenzyme A dehydrogenase	NM_008212.3
20	Gene Dkk2	Dkk2	dickkopf homolog 2 (Xenopus laevis)	NM_020265.4
20	Gene Aimp1	EMAPII,	Scye1, aminoacyl tRNA synthetase complex-interacting mu	NM_007926.2
20	Gene Tbck	C030007I09Ri	TBC1 domain containing kinase	NM_001163455.1
27	Gene Gstcd	Gstcd,	MGC74 glutathione S-transferase, C-terminal domain contai	NM_026231.2
27	Gene Ints12	Ints12,	493052 integrator complex subunit 12	NM_027927.3
28	Gene Cenpe	AU019344,	31: centromere protein E	NM_173762.4
30	Gene 4930539	4930539J05Ri	RIKEN cDNA 4930539J05 gene	NR_030689.1
30	Gene Ube2d3	9430029A22Ri	, AA414951, 1100001F19Ri, Ube2d3	NM_025356.4
22	Gene Manba	B930014J03Ri	mannosidase, beta A, lysosomal	NM_027288.3
17	Gene Nfkb1	NF-KB1,	p50, N nuclear factor of kappa light polypeptide gene enha	NM_008689.2

42	Gene Ppp3ca	Caln, AI841391	protein phosphatase 3, catalytic subunit, alpha isofo	NM_008913.4
24	Gene LOC101055801		uncharacterized LOC101055801	XM_003945377.1
24	Gene H2afz	H2A.Z, H2afz	H2A histone family, member Z	NM_016750.2
24	Gene Dnajb14	5730496F10Ri	DnaJ (Hsp40) homolog, subfamily B, member 14	NM_001033155.1
25	Gene Metap1	KIAA0094, Me	methionyl aminopeptidase 1	NM_175224.4
24	Gene Eif4e	MGC103177, E	eukaryotic translation initiation factor 4E	NM_007917.3
24	Gene Mir1956	mmu-mir-1956	microRNA 1956	NR_035481.1
22	Gene Tspan5	2810455A09Ri	tetraspanin 5	NM_019571.4
27	Gene Rap1gds	GDS1, Rap1gd	RAP1, GTP-GDP dissociation stimulator 1	NM_001040690.1
21	Gene Gm1568	OTTMUSG0001	predicted gene 15688	XM_003946125.1,
21	Gene Unc5c	B130051O18R	unc-5 homolog C (C. elegans)	NM_009472.3
32	Gene Gtf2b	MGC6859, Gtf	general transcription factor IIB	NM_145546.1
20	Gene Pkn2	Pkn2, Prkcl2,	P protein kinase N2	NM_178654.4
20	Gene 9530052	9530052C20Ri	RIKEN cDNA 9530052C20 gene	XR_107559.1, XR_
22	Gene Lmo4	A730077C12Ri	LIM domain only 4	NM_010723.3, NM
27	Gene Hs2st1	AW214369, Hs	heparan sulfate 2-O-sulfotransferase 1	NM_011828.3
27	Gene Sep15	Sep15, 943001	selenoprotein	NM_053102.2
33	Gene Znhit6	2410019A14Ri	zinc finger, HIT type 6	NM_001081094.1
26	Gene Cyr61	Cyr61, AI3250	cysteine rich protein 61	NM_010516.2
26	Gene Gm1750	Gm17501	predicted gene, 17501	XR_107563.1, XR_
26	Gene Ddah1	Ddah1, AW05	dimethylarginine dimethylaminohydrolase 1	NM_026993.3
31	Gene Bcl10	CIPER, ME10,	B cell leukemia/lymphoma 10	NM_009740.1
27	Gene 2410004	2410004B18Ri	RIKEN cDNA 2410004B18 gene	NM_025555.4
29	Gene Syde2	Syde2, C43001	synapse defective 1, Rho GTPase, homolog 2 (C. eleg	NM_001166064.1
19	Gene Spata1	4921536121Ri	spermatogenesis associated 1	NM_027617.3
19	Gene Gng5	G(y)5, Gng5	guanine nucleotide binding protein (G protein), gam	NM_010318.2
19	Gene Rpf1	Bxdc5, Rpf1,	M ribosome production factor 1 homolog (S. cerevisiae	NM_027371.3, NM
15	Gene Ttl7	1110049N09Ri	tubulin tyrosine ligase-like family, member 7	NM_027594.1
38	Gene Dnajb4	1700029A20Ri	DnaJ (Hsp40) homolog, subfamily B, member 4	NM_027287.3, NM
38	Gene Fubp1	Fubp4, Fubp,	F far upstream element (FUSE) binding protein 1	NM_057172.3
21	Gene Fam73a	Fam73a, A930	family with sequence similarity 73, member A	NM_174868.4, NM
31	Gene Usp33	Vdu1, 983016	ubiquitin specific peptidase 33	NM_001076676.2
31	Gene Zzz3	AA408566, AV	zinc finger, ZZ domain containing 3	NM_198416.2, NM
36	Gene Tyw3	Tyw3, 523040	(tRNA-yW synthesizing protein 3 homolog (S. cerevis	NM_001168358.1
36	Gene Cryz	Cryz, Sez9	crystallin, zeta	NM_009968.3
24	Gene Ptger3	Ptger3, EP3, P	prostaglandin E receptor 3 (subtype EP3)	NM_011196.2
24	Gene Ankrd13	AU022220, An	ankyrin repeat domain 13c	NM_001013806.1
25	Gene Srsf11	2610019N13Ri	serine/arginine-rich splicing factor 11	NM_001093753.1
25	Gene Lrrc40	2610040E16Ri	leucine rich repeat containing 40	NM_024194.5
28	Gene Rps20	4632426K06Ri	ribosomal protein S20	NM_026147.5
32	Gene Plag1	Plag1		NM_019969.3
32	Gene Chchd7	1810049H20Ri	coiled-coil-helix-coiled-coil-helix domain containing	NM_001190322.1,
29	Gene Impad1	AL022796, gP	inositol monophosphatase domain containing 1	NM_177730.3
31	Gene Sdcbp	Sdcbp, MDA-9,	syndecan binding protein	NM_016807.2, NM
24	Gene Rab2a	Rab2a, Rab2,	RAB2A, member RAS oncogene family	NM_021518.3
27	Gene Asph	AI848629, 231	aspartate-beta-hydroxylase	NM_133723.2, NM
18	Gene Gdf6	BMP13, Gdf6,	growth differentiation factor 6	NM_013526.1

31	Gene 26103012610301B20Ri	RIKEN cDNA 2610301B20 gene	NM_026005.3
20	Gene Plekhf2	1110070J07Ri|pleckstrin homology domain containing, family F (wi	NM_175175.4
28	Gene Ndufaf6	2310030N02Ri|NADH dehydrogenase (ubiquinone) complex I, asser	NM_001085493.1
38	Gene Trp53inç	SIP18, SIP, Trp|transformation related protein 53 inducible nuclear	NM_021897.3, NM
44	Gene Ccne2	Ccne2	NM_001037134.1
44	Gene Ints8	2810013E07Ri|integrator complex subunit 8	NM_178112.5, NM
18	Gene Dpy19l4	Dpy19l4, Narg|dpy-19-like 4 (C. elegans)	NM_001081201.1
18	Gene Esrp1	Rbm35a, 2210 epithelial splicing regulatory protein 1	NM_194055.2
34	Gene Pdp1	Gm1024, Ppm|pyruvate dehydrogenase phosphatase catalytic subur	NM_001033453.3
34	Gene 1700123	1700123M08R|RIKEN cDNA 1700123M08 gene	NR_040577.1
26	Gene Fam92a	Fam92a, 6720|family with sequence similarity 92, member A	NM_026558.4
19	Gene Runx1t1	ETO, MTG8, Ct|runt-related transcription factor 1; translocated to,	NM_009822.2, NM
37	Gene Tmem64	AI790744, 963|transmembrane protein 64	NM_181401.3
29	Gene Nbn	Nbs1, Nbn|nibrin	NM_013752.3
24	Gene Osgin2	C230027H09Ri|oxidative stress induced growth inhibitor family mer	NM_145950.4
25	Gene Ripk2	D4Bwg0615e, receptor (TNFRSF)-interacting serine-threonine kina	NM_138952.3
25	Gene A530072	A530072M11R|RIKEN cDNA gene A530072M11	NR_045765.2
25	Gene Wwp1	Tiul1, Wwp1, ε|WW domain containing E3 ubiquitin protein ligase 1	NM_177327.4
17	Gene 4930480	4930480G23Ri|RIKEN cDNA 4930480G23 gene	NR_040768.1
17	Gene Ttpa	Ttpa, alpha-TT|tocopherol (alpha) transfer protein	NM_015767.3
19	Gene Nkain3	E130310K16Ri|Na ⁺ /K ⁺ transporting ATPase interacting 3	NM_172987.2
24	Gene Prdm13	Prdm13|PR domain containing 13	NM_001080771.1
21	Gene Ccnc	Ccnc, AI45100|cyclin C	NM_016746.3, NM
23	Gene Fbxl4	FBL4, 4732456|F-box and leucine-rich repeat protein 4	NM_172988.3
24	Gene Mms22l	F730047E07Ri|MMS22-like, DNA repair protein	NM_199467.2
23	Gene Ndufaf4	Ndufaf4, AW2|NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_026742.4
16	Gene Fut9	AI746471, mFl|fucosyltransferase 9	NM_010243.3
21	Gene Manea	4932703L02Ri|mannosidase, endo-alpha	NM_172865.2
25	Gene Epha7	Hek11, Ehk3, E|Eph receptor A7	NM_010141.3, NM
22	Gene Map3k7	B430101B05, (|mitogen-activated protein kinase kinase kinase 7	NM_009316.1, NM
22	Gene LOC101056168	uncharacterized LOC101056168	XM_003945750.1,
22	Gene D130062	D130062J21Ri|RIKEN cDNA D130062J21 gene	XR_140638.1, XR_
24	Gene Casp8ap	AA387232, FL|caspase 8 associated protein 2	NM_011997.2, NM
24	Gene Mdn1	Mdn1, Gm135|midasin homolog (yeast)	NM_001081392.1
28	Gene Rragd	AI467523, Rraç|Ras-related GTP binding D	NM_027491.2
28	Gene 4933421	4933421O10Ri|RIKEN cDNA 4933421O10 gene	NR_036602.1
28	Gene Ube2j1	NCUBE-1, Ncu|ubiquitin-conjugating enzyme E2J 1	NM_019586.3
22	Gene Srsf12	B830039L16, Srrp, Sfrs13b, Srsf13b, Srsf12	NM_177774.4
38	Gene Pnrc1	PRR2, B4-2, Pn|proline-rich nuclear receptor coactivator 1	NM_001033225.2
26	Gene Cnr1	Cnr1, CB1, CB1|cannabinoid receptor 1 (brain)	NM_007726.3
38	Gene Orc3	Orc3, Orc3l|origin recognition complex, subunit 3	NM_015824.4, NM
38	Gene Rars2	1500002I10Ri|arginyl-tRNA synthetase 2, mitochondrial	NM_181406.3
21	Gene Slc35a1	AI314851, Slc3|solute carrier family 35 (CMP-sialic acid transporter)	NM_011895.3
29	Gene Zfp292	5730450D02Ri|zinc finger protein 292	NM_013889.2
30	Gene Topors	TP53BPL, AW1|topoisomerase I binding, arginine/serine-rich	NM_134097.3
30	Gene 2010003	2010003O02Ri|RIKEN cDNA 2010003O02 gene	NR_045265.1
30	Gene Ndufb6	Gm137, Ndufb|NADH dehydrogenase (ubiquinone) 1 beta subcomp	NM_001033305.2

41	Gene Gm6297	Gm6297	predicted gene 6297	XR_107582.1, XR_
41	Gene Dnaja1	Hsj2, Nedd7, D DnaJ (Hsp40) homolog, subfamily A, member 1		NM_001164671.1
41	Gene Mir207	mmu-mir-207, microRNA 207		NR_029594.1
27	Gene Smu1	2600001O03Rismu-1 suppressor of mec-8 and unc-52 homolog (C.		NM_021535.4
30	Gene B4galt1	Ggtb2, Ggtb, A UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase		NM_022305.3
30	Gene Mir5123	mu-mir-5123, microRNA 5123		NR_039584.1
44	Gene Chmp5	AW545668, 2210412K09Rik, Chmp5		NM_029814.1
44	Gene Nfx1	NFX.1, TEG-42, nuclear transcription factor, X-box binding 1		NM_023739.3
32	Gene Dcaf12	5830424K06Ri DDB1 and CUL4 associated factor 12		NM_026893.3
21	Gene Kif24	Kif24, 4933425 kinesin family member 24		NM_024241.2
21	Gene Nudt2	AA939917, Nu nudix (nucleoside diphosphate linked moiety X)-type		NM_025539.2
23	Gene AI46413	Gm762, MGC1 expressed sequence AI464131		NM_001085515.2
23	Gene 1110017	Smrp1, smrp1, RIKEN cDNA 1110017D15 gene		NM_028624.1, NM
16	Gene Fam219	2310028H24Ri family with sequence similarity 219, member A		NM_001159583.1
16	Gene Dnaic1	Dnai1, BB1246 dynein, axonemal, intermediate chain 1		NM_175138.4
20	Gene Rpp25l	Rppl25, AW98 ribonuclease P/MRP 25 subunit-like		NM_027278.3
20	Gene Dctn3	Dctn3, p24 dynactin 3		NM_016890.4, NM
20	Gene Arid3c	OTTMUSG000i AT rich interactive domain 3C (BRIGHT-like)		NM_001017362.2,
26	Gene Galt	AW553376, G galactose-1-phosphate uridyl transferase		NM_016658.2
26	Gene Il11ra1	NR1, GP130, Il interleukin 11 receptor, alpha chain 1		NM_010549.3, NM
33	Gene Vcp	p97, p97/VCP, valosin containing protein		NM_009503.4
33	Gene Fancg	AU041407, Xrc Fanconi anemia, complementation group G		NM_053081.2, NM
28	Gene Unc13b	Unc13h1, Mun unc-13 homolog B (C. elegans)		NM_001081413.1
21	Gene Atp8b5	4930417M19RATPase, class I, type 8B, member 5		NM_177195.3
21	Gene Rusc2	AI840675, Rus RUN and SH3 domain containing 2		NM_001037709.1
19	Gene Fam166l	4833436C18Ri family with sequence similarity 166, member B		NM_177377.5, NM
20	Gene Car9	CAIX, MN/CA9 carbonic anhydrase 9		NM_139305.2
20	Gene Tpm2	Trop-2, Tpm-2, tropomyosin 2, beta		NM_009416.3
21	Gene Tln1	Tln, Tln1 talin 1		NM_011602.5
21	Gene Creb3	AW538053, C cAMP responsive element binding protein 3		NM_013497.3
28	Gene Gba2	F630034E04, G glucosidase beta 2		NM_172692.3
28	Gene Rgp1	mKIAA0258, 1: RGP1 retrograde golgi transport homolog (S. cerevis		NM_172866.3
28	Gene Msmpl	Psmpl, OTTMU microseminoprotein, prostate associated		NM_001099314.1
28	Gene Gm1247	OTTMUSG000i predicted gene 12472		XR_168658.1, XR_
24	Gene Npr2	mNPR-B, GC-B natriuretic peptide receptor 2		NM_173788.3
21	Gene Spag8	Spag8, MH-SP, sperm associated antigen 8		NM_001007463.1
21	Gene Hint2	Hint2, 119000i histidine triad nucleotide binding protein 2		NM_026871.1
21	Gene Fam221l	RP23-191F22.1 family with sequence similarity 221, member B		NM_175517.3
21	Gene Gm1248	Gm12481, OTTsmall EDRK-rich factor 2 pseudogene		
22	Gene Reck	MGC169689, S reversion-inducing-cysteine-rich protein with kazal r		NM_016678.2
31	Gene Clta	Clta, AV02655i clathrin, light polypeptide (Lca)		NM_001080384.1
33	Gene Gne	Gne, NM, Uae: glucosamine (UDP-N-acetyl)-2-epimerase/N-acetyl		NM_015828.3, NM
22	Gene Rnf38	1700065B19Ri ring finger protein 38		NM_175201.5, NM
22	Gene Pax5	Pax5, KLP, EBB paired box gene 5		NM_008782.2
22	Gene 5730488	5730488B01Ri RIKEN cDNA 5730488B01 gene		XM_003945753.1,
28	Gene Gm1246	Gm12463, OTTaurora kinase C pseudogene		
28	Gene Zcchc7	D4Wsu132e, Z zinc finger, CCHC domain containing 7		NM_138590.4

28	Gene	Grhpr	1110059D05Ri glyoxylate reductase/hydroxypyruvate reductase	NM_080289.1
28	Gene	Zbtb5	mKIAA0354, Zinc finger and BTB domain containing 5	NM_173399.3, NM
26	Gene	1700055	1700055D18Ri RIKEN cDNA 1700055D18 gene	XR_035212.1, XR_
26	Gene	Polr1e	53kDa, D0300: polymerase (RNA) I polypeptide E	NM_022811.2
16	Gene	Fbxo10	Fbxo10, Gm63 F-box protein 10	NM_001024142.1
36	Gene	Tomm5	Tom5, Tomm5 translocase of outer mitochondrial membrane 5 hor	NM_001099675.1,
31	Gene	Trmt10b	2610042J10Ri tRNA methyltransferase 10B	NM_027266.4
31	Gene	Exosc3	Rrp40, 231000 exosome component 3	NM_025513.3
30	Gene	Dcaf10	Wdr32, Dcaf10 (DDB1 and CUL4 associated factor 10	NM_153167.2
26	Gene	Shb	Shb, BC028832 src homology 2 domain-containing transforming pro	NM_001033306.1
36	Gene	Tstd2	3010020C06, Thiolsulfate sulfurtransferase (rhodanese)-like domai	NM_173033.3
36	Gene	Ncbp1	AW538051, A nuclear cap binding protein subunit 1	NM_001033201.3
22	Gene	Xpa	Xpac, AI57386: xeroderma pigmentosum, complementation group /	NM_011728.2
27	Gene	Anp32b	Ssp29, Anp32: acidic (leucine-rich) nuclear phosphoprotein 32 fami	NM_130889.2
30	Gene	Nans	Sas, 4632418E N-acetylneuraminic acid synthase (sialic acid syntha	NM_053179.3
30	Gene	Trim14	5830400N10Ri tripartite motif-containing 14	NM_029077.3
22	Gene	Tbc1d2	Gm1037, PARI TBC1 domain family, member 2	NM_198664.3
21	Gene	Col15a1	Col15a1	NM_009928.3
23	Gene	Tgfbr1	Alk-5, TbetaR-I transforming growth factor, beta receptor I	NM_009370.2
30	Gene	Alg2	ALPG2, 11100: asparagine-linked glycosylation 2 (alpha-1,3-manno	NM_019998.3
30	Gene	Sec61b	AI326121, 119 Sec61 beta subunit	NM_024171.2
24	Gene	LOC101055654	uncharacterized LOC101055654	XM_003946131.1,
24	Gene	Nr4a3	CHN, TEC, Nor nuclear receptor subfamily 4, group A, member 3	NM_015743.2
28	Gene	Tex10	Tex10, MGC11 testis expressed gene 10	NM_172304.3
23	Gene	Tmeff1	A830033E11, T transmembrane protein with EGF-like and two follis	NM_021436.2
21	Gene	Tmem24	Tmem246, 281 transmembrane protein 246	NM_025944.3
24	Gene	2700081	2700081L22Ri RIKEN cDNA 2700081L22 gene	NR_045175.1
24	Gene	Smc2	SMC-2, Smc2, structural maintenance of chromosomes 2	NM_008017.3
19	Gene	Abca1	Abca1, Abc1 ATP-binding cassette, sub-family A (ABC1), member	NM_013454.3
18	Gene	Slc44a1	AW547365, CT solute carrier family 44, member 1	NM_133891.3, NM
18	Gene	Fsd1l	Fsd1l, Csdufd1 fibronectin type III and SPRY domain containing 1-lik	NM_176966.4, NM
17	Gene	Fktn	Fktn, D830030 fukutin	NM_139309.4
21	Gene	Tmem38	D4Ert89e, 16 transmembrane protein 38B	NM_028053.2
21	Gene	Gm8364	EG666920, Grr predicted gene 8364	XR_168828.1, XR_
21	Gene	Zfp462	Zfp462, 94300 zinc finger protein 462	NM_172867.3
25	Gene	Rad23b	0610007D13Ri RAD23b homolog (S. cerevisiae)	NM_009011.4
26	Gene	Klf4	Klf4, Gklf, Zie, Kruppel-like factor 4 (gut)	NM_010637.3
33	Gene	Ikbkap	Ikbkap, 60304: inhibitor of kappa light polypeptide enhancer in B ce	NM_026079.3
33	Gene	BC02659	Fam206a, BC026590	NM_001081420.1
33	Gene	Cttnl1	Catnal1, AW54 catenin (cadherin associated protein), alpha-like 1	NM_018761.3
27	Gene	Tmem24	D730040F13Rik, A630051L19Rik, AI957324, Tmem245	NM_175518.5
20	Gene	Ptpn3	Ptpn3, PTP-H1 protein tyrosine phosphatase, non-receptor type 3	NM_011207.2
23	Gene	Gm1253	OTTMUSG000i predicted gene 12538	XM_908951.4, XM
31	Gene	Lpar1	vzg-1, AI32630 lysophosphatidic acid receptor 1	NM_010336.2, NM
31	Gene	AI31418	mKIAA0368, A expressed sequence AI314180	NM_172381.2
33	Gene	Dnajc25	Dnajc25, 2010 DnaJ (Hsp40) homolog, subfamily C, member 25	NM_001033165.3
28	Gene	Ptbp3	AI462022, AA4 polypyrimidine tract binding protein 3	NM_178164.3, NM

30	Gene Hsd12	Hsd12, 261020 hydroxysteroid dehydrogenase like 2	NM_024255.3
30	Gene E130308	E130308A19Ri RIKEN cDNA E130308A19 gene	NM_001015681.1
30	Gene Snx30	Snx30, MGC10 sorting nexin family member 30	NM_172468.2
29	Gene Alad	Lv, Alad aminolevulinate, delta-, dehydratase	NM_008525.3
29	Gene Pole3	Pole3, 181003 polymerase (DNA directed), epsilon 3 (p17 subunit)	NM_021498.2
29	Gene 493343C	4933430I17Rik RIKEN cDNA 4933430I17 gene	NM_177607.3
19	Gene Rgs3	C2PA-RGS3, P1 regulator of G-protein signaling 3	NM_001081650.1
27	Gene Col27a1	5730512J02Rik collagen, type XXVII, alpha 1	NM_025685.3
35	Gene Whrn	AW122018, A1 whirlin	NM_001008791.1
26	Gene Atp6v1g	AA960677, VA ATPase, H+ transporting, lysosomal V1 subunit G1	NM_024173.2
18	Gene Pappa	IGFBP-4ase, P2 pregnancy-associated plasma protein A	NM_021362.1
27	Gene Megf9	4933405H16Rik multiple EGF-like-domains 9	NM_172694.2
33	Gene Tle1	Estm14, Grg1, transducin-like enhancer of split 1, homolog of Dros	NM_011599.4
33	Gene C630043	AI851307, C63 RIKEN cDNA C630043F03 gene	NR_027923.1
36	Gene Kdm4c	2410141F18Rik lysine (K)-specific demethylase 4C	NM_001172095.1
22	Gene Ptprd	3000002J10Rik protein tyrosine phosphatase, receptor type, D	NM_011211.2, NM
20	Gene Lurap1l	D4Bwg0951e, bM350F23.1, AV175137, AV077978, WI-13707, 1110	NM_026821.5
31	Gene Nfib	6720429L07Rik nuclear factor I/B	NM_008687.5, NM
28	Gene Snapc3	4930558A07Rik small nuclear RNA activating complex, polypeptide 3	NM_029949.3
30	Gene Psip1	Dfs70, Ledgfa, PC4 and SFRS1 interacting protein 1	NM_133948.4
25	Gene Ccdc171	A330015D16Rik coiled-coil domain containing 171	NM_001081012.1
22	Gene Bnc2	8430420F16Rik basонуclin 2	NM_172870.4
23	Gene Cntlh	Cntlh, AI44809 centlein, centrosomal protein	NM_177385.3, NM
40	Gene Rraga	RAGA, FIP-1, A Ras-related GTP binding A	NM_178376.3
40	Gene Haus6	6230416J20Rik HAUS augmin-like complex, subunit 6	NM_173400.2
56	Gene Dennd4c	1700065A05Rik DENN/MADD domain containing 4C	NM_001081014.1
56	Gene Rps6	Rps6, S6R, MG ribosomal protein S6	NM_009096.3
22	Gene Acer2	CRG-L1, Acer2, alkaline ceramidase 2	NM_139306.2
17	Gene Slc24a2	2810021B17Rik solute carrier family 24 (sodium/potassium/calcium	NM_172426.2, NM
18	Gene Mllt3	3830408D16Rik myeloid/lymphoid or mixed-lineage leukemia (trithc	NM_029931.2, NM
31	Gene Kih19	Kih19, 8030469P05, mKIAA1354, C530050O22Rik, KIAA1354, ENSM	NM_172871.2
28	Gene Mtap	1300019I21Rik methylthioadenosine phosphorylase	NM_024433.2
24	Gene Cdkn2a	Arf, p16INK4a, cyclin-dependent kinase inhibitor 2A	NM_009877.2, NM
19	Gene Elavl2	Hub, Elavl2, m ELAV (embryonic lethal, abnormal vision, Drosophila	NM_010486.2, NM
21	Gene Tusc1	TSG-9, Tusc1, 2 tumor suppressor candidate 1	NM_026954.1
27	Gene Caap1	Caap1, 5830433M19Rik, AI536248, CAAP	NM_026368.2
27	Gene Plaa	AU018445, 24 phospholipase A2, activating protein	NM_172695.2
22	Gene Gm1265	OTTMUSG000I predicted gene 12657	NM_001081019.1
32	Gene Mym1	C130067A03Rik myb-like, SWIRM and MPN domains 1	NM_177239.2
59	Gene Gm1270	OTTMUSG000I predicted gene 12703	XR_168412.1, XR_
59	Gene Jun	Jun, AP-1, Junc Jun oncogene	NM_010591.2
20	Gene Nfia	9430022M17R nuclear factor I/A	NM_001122952.1
27	Gene Inadl	Inadl, MGC176 InaD-like (Drosophila)	NM_001005787.1
26	Gene Usp1	MGC25559, U2 ubiquitin specific peptidase 1	NM_146144.3
36	Gene Atg4c	Atg4cl, Atg4c, 1 autophagy related 4C, cysteine peptidase	NM_175029.3, NM
21	Gene Itgb3bp	Itgb3bp, 49304 integrin beta 3 binding protein (beta3-endonexin)	NM_026348.3
21	Gene Efcab7	mKIAA1799, N EF-hand calcium binding domain 7	NM_145549.1

17	Gene Ror1	mRor1, 28104I	receptor tyrosine kinase-like orphan receptor 1	NM_013845.4
36	Gene Cachd1	B430218L07Ri	cache domain containing 1	NM_198037.1
14	Gene Raver2	A430091O22R	ribonucleoprotein, PTB-binding 2	NM_183024.1
39	Gene Jak1	MGC37919,	Ja Janus kinase 1	NM_146145.2
24	Gene E130102	E130102H24Ri	RIKEN cDNA E130102H24 gene	NR_040708.1
24	Gene Mir101a	miR-101,	Mir1 microRNA 101a	NR_029537.1
24	Gene 0610043	0610043K17Ri	RIKEN cDNA 0610043K17 gene	NR_040640.1
24	Gene Dnajc6	Dnajc6,	28100.DnaJ (Hsp40) homolog, subfamily C, member 6	NM_198412.2, NM
24	Gene Leprot	Obrgrp,	OB-RG leptin receptor overlapping transcript	NM_175036.4
21	Gene Wdr78	MGC31722,	W WD repeat domain 78	NM_146254.4
21	Gene Mier1	4933425I22Ri	mesoderm induction early response 1 homolog (Xer NM_001039081.1	
31	Gene Slc35d1	AI834976,	KIA solute carrier family 35 (UDP-glucuronic acid/UDP-N NM_177732.4	
33	Gene Ppap2b	Ppap2b,	2610C phosphatidic acid phosphatase type 2B	NM_080555.2
32	Gene Usp24	B130021E18,	2 ubiquitin specific peptidase 24	NM_183225.2
26	Gene Dhcr24	Dhcr24,	23100 24-dehydrocholesterol reductase	NM_053272.2
27	Gene Ssbp3	AW551939,	57 single-stranded DNA binding protein 3	NM_023672.2, NM
30	Gene Tceanc2	2210010B22Ri	transcription elongation factor A (SII) N-terminal anc NM_025617.2	
30	Gene Tmem59	Tmem59,	111C transmembrane protein 59	NM_029565.3
31	Gene Yip1	Yip1,	C030002 Yip1 domain family, member 1	NM_145550.3, NM
31	Gene Tmem48	2810475A17Ri	transmembrane protein 48	NM_028355.3
21	Gene Glis1	Glis1,	Gli5, GliI GLIS family zinc finger 1	NM_147221.2
20	Gene Lrp8	Lrp8,	AI848122 low density lipoprotein receptor-related protein 8, a NM_001080926.1	
20	Gene B230314	B230314M03Ri	RIKEN cDNA B230314M03 gene	XR_107608.1, XR_
19	Gene Zyg11a	Zyg11a,	BC022 zyg-11 family member A, cell cycle regulator	NM_001167936.1
22	Gene Zyg11b	FLJ13456,	111(zyg-II family member B, cell cycle regulator	NM_001033634.3
24	Gene Orc1	MmORC1,	Orc1I, AA545195, Orc1	NM_011015.2
24	Gene Cc2d1b	A830039B04Ri	coiled-coil and C2 domain containing 1B	NM_177045.3
34	Gene 3110021	3110021N24Ri	RIKEN cDNA 3110021N24 gene	NM_001254730.1
47	Gene Txndc12	0610040B21Ri	thioredoxin domain containing 12 (endoplasmic reti NM_025334.3	
47	Gene Kti12	Kti12,	AU0147 KTI12 homolog, chromatin associated (S. cerevisiae) NM_029571.2	
29	Gene Osbp19	Osbp19,	26000 oxysterol binding protein-like 9	NM_001134791.2
25	Gene Eps15	2410112D09Ri	epidermal growth factor receptor pathway substrat NM_007943.3, NM	
30	Gene 9630013	9630013D21Ri	RIKEN cDNA 9630013D21 gene	XR_107609.1, XR_
30	Gene Cdkn2c	p18,	C77269, I cyclin-dependent kinase inhibitor 2C (p18, inhibits C NM_007671.2	
30	Gene Faf1	AA408698,	Dff Fas-associated factor 1	NM_007983.2
21	Gene Elavl4	Hud,	Elav, Elav ELAV (embryonic lethal, abnormal vision, Drosophila NM_001038698.1	
27	Gene Spata6	1700062C23Ri	spermatogenesis associated 6	NM_026470.3
22	Gene Trabd2b	OTTMUSG000I	TraB domain containing 2B	NM_001085549.1
21	Gene Foxd2	Foxd2,	AI4267 forkhead box D2	NM_008593.3
21	Gene 9130206	9130206I24Ri	RIKEN cDNA 9130206I24 gene	NR_030721.1
19	Gene Foxe3	FREAC8,	Foxe3 forkhead box E3	NM_015758.2
33	Gene Cmpk1	0610011D08Ri	cytidine monophosphate (UMP-CMP) kinase 1	NM_025647.3
28	Gene Stil	Sil,	Stil Scl/Tal1 interrupting locus	NM_009185.3
21	Gene Tal1	tal-1,	bHLHa17T cell acute lymphocytic leukemia 1	NM_011527.2
25	Gene Efcab14	KIAA0494,	473 EF-hand calcium binding domain 14	NM_172698.2
20	Gene Faah	AW412498,	Fa fatty acid amide hydrolase	NM_010173.4
30	Gene Uqcrh	2310021J10Ri	ubiquinol-cytochrome c reductase hinge protein	NM_025641.3

30	Gene Lrrc41	MUF1, D73002 leucine rich repeat containing 41	NM_153521.1
25	Gene Lurap1	1520402A15Rik, Lurap1, Lrp35a	NM_026547.1
25	Gene Pomgnt1	Pomgnt1, O61 (protein O-linked mannose beta1,2-N-acetylglucosaminyltransferase 1)	NM_029786.2, NM
25	Gene Tmem69	MGC118424, T transmembrane protein 69	NM_177670.4
25	Gene Gbbp1l1	5330440M15R GC-rich promoter binding protein 1-like 1	NM_029868.2
37	Gene Nasp	AI317140, 503 nuclear autoantigenic sperm protein (histone-binding protein)	NM_016777.3, NM
37	Gene Akr1a1	Akr1a1, Akr1a4, 2610201A18Rik	NM_021473.3
38	Gene AV051173	AV051173 expressed sequence AV051173	NR_040442.1
38	Gene Prdx1	TPxA, prx1, Prx peroxiredoxin 1	NM_011034.4
26	Gene Zswim5	mKIAA1511, A zinc finger SWIM-type containing 5	NM_001029912.2
26	Gene Urod	Urod, Uro-d, A uroporphyrinogen decarboxylase	NM_009478.3
26	Gene Hectd3	AI467540, 170 HECT domain containing 3	NM_175244.3
29	Gene Eif2b3	Eif2b3, 11900C eukaryotic translation initiation factor 2B, subunit 3	NM_001111277.1
24	Gene Ptch2	ptc2, Ptch2 patched homolog 2	NM_008958.2
17	Gene Btdb19	Btdb19, 95300 BTB (POZ) domain containing 19	NR_024078.1
17	Gene Tctex1d4	4833401D15Ri Tctex1 domain containing 4	NM_175030.2
17	Gene Plk3	Plk3, PRK, Fnk, Cnk	NM_013807.2
75	Gene Gm1301	OTTMUSG000I polymerase (RNA) II (DNA directed) polypeptide L pseudogene	
75	Gene Rps8	Rps8, MGC107 ribosomal protein S8	NM_009098.2
75	Gene Snord38	MBII-329, Snor small nucleolar RNA, C/D box 38A	NR_028524.1
75	Gene Snord55	Snord55 small nucleolar RNA, C/D box 55	NR_030704.1
75	Gene Kif2c	MGC11883, ES kinesin family member 2C	NM_134471.4
15	Gene Rnf220	4931406I20Rik ring finger protein 220	NM_025739.2
29	Gene Eri3	Prnpip1, Eri3, Ixoribonuclease 3	NM_080469.3
46	Gene Slc6a9	Glyt1, Slc6a9, (solute carrier family 6 (neurotransmitter transporter) member 9)	NM_008135.4
39	Gene B4galt2	Ggtb2, B4galt2 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase	NM_001253381.1
39	Gene Atp6v0b	Atp6f, VMA16, ATPase, H+ transporting, lysosomal V0 subunit B	NM_033617.3
39	Gene Dph2	Dph2I2, 91300 DPH2 homolog (S. cerevisiae)	NM_026344.3
39	Gene lpo13	MGC18698, Ka importin 13	NM_146152.3
24	Gene St3gal3	ST3N, St3gal3, ST3 beta-galactoside alpha-2,3-sialyltransferase 3	NM_009176.4, NM
24	Gene Kdm4a	mKIAA0677, D lysine (K)-specific demethylase 4A	NM_172382.2, NM
31	Gene Ptpfr	LAR, AA59103I protein tyrosine phosphatase, receptor type, F	NM_011213.2
33	Gene Szt2	MGC69654, Szt2, 6430407N22, BC059842, ENSMUSG00000058432	NM_198170.4
33	Gene Med8	AB041805, 22: mediator of RNA polymerase II transcription, subunit 8	NM_020000.2, NM
34	Gene Elovl1	Elovl1, Ssc1, B1 elongation of very long chain fatty acids (FEN1/Elo2, FEN1)	NM_019422.2, NM
34	Gene Cdc20	C87100, 2310C cell division cycle 20	NM_023223.2
34	Gene Mpl	TPO-R, Mpl, c- myeloproliferative leukemia virus oncogene	NM_010823.2, NM
28	Gene Slc2a1	Glut-1, Glut1, (solute carrier family 2 (facilitated glucose transporter) member 1)	NM_011400.3
17	Gene Ermap	AA409279, Err erythroblast membrane-associated protein	NM_013848.2
17	Gene Ccdc23	Ccdc23, AI851: coiled-coil domain containing 23	NM_024462.2, NM
17	Gene 4930538	4930538K18Rik	NM_029198.3
38	Gene AU022252	AU022252, AI4 expressed sequence AU022252	NM_001012400.2
38	Gene Lepre1	2410024C15Ri leprecan 1	NM_019783.2, NM
19	Gene Cldn19	Cldn19, MGC1. claudin 19	NM_001038590.1
28	Gene Ybx1	YB-1, 1700102 Y box protein 1	NM_011732.2
31	Gene Ppih	1100001J08RiI peptidyl prolyl isomerase H	NM_028677.4, NM
32	Gene Ccdc30	1700111D19Ri coiled-coil domain containing 30	NM_001270446.1

32	Gene Ppcs	Ppcs, AI79043: phosphopantothencysteine synthetase	NM_026494.3
32	Gene Zmynd1	Zmynd12, AI41: zinc finger, MYND domain containing 12	NM_001014900.2
30	Gene AA4153	MGC73851, A: expressed sequence AA415398	NM_001004178.1
30	Gene Foxj3	Fhd6, mKIAA1: forkhead box J3	NM_172699.2
27	Gene LOC101055647	uncharacterized LOC101055647	XM_003945386.1,
27	Gene Foxo6	Foxo6	NM_194060.1
28	Gene Scmh1	AI315320, Scm sex comb on midleg homolog 1	NM_013883.2, NM
26	Gene Ctps	Ctps1, Ctps cytidine 5'-triphosphate synthase	NM_016748.2
23	Gene Cited4	AW742964, Cii Cbp/p300-interacting transactivator, with Glu/Asp-r	NM_019563.2
30	Gene Nfyc	Nfyc	NM_001048168.1,
18	Gene Exo5	3110037116Rik exonuclease 5	NM_028457.2, NM
18	Gene Zfp69	Gm1029, Krab. zinc finger protein 69	NM_001005788.3
29	Gene Smap2	Smap1l, 18100 stromal membrane-associated GTPase-activating pr	NM_133716.3
21	Gene Mycl1	L-myc, AW536 v-myc myelocytomatosis viral oncogene homolog 1,	NM_008506.2
38	Gene Trit1	MOD5, Trit1, A: tRNA isopentenyltransferase 1	NM_025873.2
35	Gene Macf1	mACF7, MACF, microtubule-actin crosslinking factor 1	NM_001199136.1
35	Gene D830031	mKIAA0754, KIRIKEN cDNA D830031N03 gene	NM_001167918.1
32	Gene Akirin1	Akirin1, 63304 akirin 1	NM_023423.3
23	Gene Gm1057	Gm10572, ENS predicted gene 10572	XR_140667.1, XR_
27	Gene Mycbp	Mycbp, AW74: c-myc binding protein	NM_019660.3
27	Gene Rragc	RAGC, Gtr2, YC Ras-related GTP binding C	NM_017475.2
22	Gene Pou3f1	Oct6, Otf-6, Sc POU domain, class 3, transcription factor 1	NM_011141.2
25	Gene Utp11l	Utp11l, 27000: UTP11-like, U3 small nucleolar ribonucleoprotein, (y	NM_026031.3
25	Gene Fhl3	SLIM2, Fhl3	NM_010213.3
23	Gene Sf3a3	Sf3a3, 60kDa, , splicing factor 3a, subunit 3	NM_029157.3
31	Gene Inpp5b	Inpp5b, 75kDa inositol polyphosphate-5-phosphatase B	NM_008385.3
31	Gene Mtf1	Thyls, MTF-1, I metal response element binding transcription factor	NM_008636.4
31	Gene 1110065	C530005M16R RIKEN cDNA 1110065P20 gene	NM_001142727.1
31	Gene Yrdc	MGC38336, A: yrdC domain containing (E.coli)	NM_153566.2
31	Gene Maneal	Gm50, Maneal mannosidase, endo-alpha-like	NM_001007573.2
30	Gene Cdca8	DasraB, BOR, I cell division cycle associated 8	NM_026560.4
30	Gene 9930104	MGC107426, S RIKEN cDNA 9930104L06 gene	NM_177573.3
33	Gene Dnali1	Dnali1, AW04: dynein, axonemal, light intermediate polypeptide 1	NM_175223.4
33	Gene Snip1	Snip1, 241013: Smad nuclear interacting protein 1	NM_175246.4
32	Gene Csf3r	Cd114, Csfgr, C colony stimulating factor 3 receptor (granulocyte)	NM_001252651.1
32	Gene Mrps15	2410002B11Ri mitochondrial ribosomal protein S15	NM_025544.2
19	Gene Oscp1	1810007P19Ri organic solute carrier partner 1	NM_172701.2
30	Gene Lsm10	Lsm10	NM_138721.2, NM
42	Gene Stk40	Stk40, 231000: serine/threonine kinase 40	NM_028800.3, NM
42	Gene Eva1b	2610027C15Ri eva-1 homolog B (C. elegans)	NM_172145.3
42	Gene Sh3d21	AU019788, 17: SH3 domain containing 21	NM_001162533.1
28	Gene Thrp3	MGC116673, I thyroid hormone receptor associated protein 3	NM_146153.3
32	Gene Map7d1	MGC28498, B: MAP7 domain containing 1	NM_144941.3, NM
32	Gene Trappc3	AI835942, Tra: trafficking protein particle complex 3	NM_013718.2
41	Gene Col8a2	MGC90765, AI collagen, type VIII, alpha 2	NM_199473.2
41	Gene Adprhl2	Adprhl2, AI83: ADP-ribosylhydrolase like 2	NM_133883.2
41	Gene Tekt2	Tekt2, tektin-t, tektin 2	NM_011902.2

41	Gene Gm1294	Gm12945, ENS predicted gene 12945	XR_107629.2, XR_
30	Gene Ago3	AW048688, C1 argonaute RISC catalytic subunit 3	NM_153402.2
30	Gene Ago1	Ago1, Eif2c1 argonaute RISC catalytic subunit 1	NM_153403.2
21	Gene 5730409	AI849033, 753 RIKEN cDNA 5730409E04Rik gene	NM_001013755.3,
24	Gene Tfp2e	AP-2e, Tcfap2e transcription factor AP-2, epsilon	NM_198960.2
27	Gene Ncdn	MMS10-AE, m neurochondrin	NM_011986.4
27	Gene AU0403	AU040320, A7 expressed sequence AU040320	NM_133886.2, NM
28	Gene Sfpq	2810416M14R splicing factor proline/glutamine rich (polypyrimidin	NM_023603.3, NR
32	Gene Dlgap3	BC058433, DA discs, large (Drosophila) homolog-associated protein	NM_198618.4
32	Gene Smim12	Smim12, BC00 small integral membrane protein 12	NM_030252.2
16	Gene Phc2	D4Ert810e, D polyhomeotic-like 2 (Drosophila)	NM_018774.4, NM
42	Gene Trim62	6330414G21Ri tripartite motif-containing 62	NM_178110.2
25	Gene Adc	Azi2, AZIN2, Ac arginine decarboxylase	NM_172875.2
36	Gene 1700086	1700086P04Ri RIKEN cDNA 1700086P04 gene	XR_107631.1, XR_
36	Gene Rnf19b	4930555L03Ri ring finger protein 19B	NM_029219.1
33	Gene S100pbp	S100pbp, AI85 S100P binding protein	NM_029036.2
33	Gene Yars	AL024047, Yar tyrosyl-tRNA synthetase	NM_134151.4
30	Gene Rbbp4	mRbAp48, RbL retinoblastoma binding protein 4	NM_009030.3
30	Gene Zbtb8os	2010001H09Ri zinc finger and BTB domain containing 8 opposite st	NM_025970.3
26	Gene Marcks1	F52, Macs2, M MARCKS-like 1	NM_010807.4
26	Gene Hdac1	MGC102534, Histone deacetylase 1	NM_008228.2
33	Gene Eif3i	Eif3s2, 36kDa, eukaryotic translation initiation factor 3, subunit I	NM_018799.2
33	Gene Tmem23	1500002D11Rik, 4933407D05Rik, 2510006D16Rik, Tmem234	NM_029748.2
33	Gene Dcdc2b	Gm1366, Gm1 doublecortin domain containing 2b	NM_001195730.1
30	Gene Kpna6	IPOA7, NPI-2, I karyopherin (importin) alpha 6	NM_008468.4
30	Gene Tmem39	Tmem39b, BC transmembrane protein 39b	NM_199305.1
37	Gene Khdrbs1	Khdrbs1, p62, KH domain containing, RNA binding, signal transduc	NM_011317.4, NR
32	Gene Ptp4a2	Ptp4a2, Prl-2, I protein tyrosine phosphatase 4a2	NM_008974.4, NM
18	Gene Spocd1	Spocd1, OTTM SPOC domain containing 1	XM_003085429.3,
18	Gene 1700003	1700003M07R RIKEN cDNA 1700003M07 gene	NR_040647.1, NR_
21	Gene Bai2	Bai2	NM_001199696.1
19	Gene Col16a1	2700007F12Ri collagen, type XVI, alpha 1	NM_028266.5
31	Gene Pum1	Pumm, AA517, pumilio 1 (Drosophila)	NM_030722.2, NM
28	Gene Ptpu	R-PTP-U, Ptpu, protein tyrosine phosphatase, receptor type, U	NM_011214.2, NM
28	Gene Mecr	Mecr, AI19583 mitochondrial trans-2-enoyl-CoA reductase	NM_025297.2
30	Gene Gm1299	OTTMUSG000I predicted gene 12992	XR_107635.1, XR_
30	Gene Tmem20	EG623230, Tm transmembrane protein 200B	NM_001201367.1
30	Gene Epb4.1	KIAA4056, D4E erythrocyte protein band 4.1	NM_183428.3, NM
22	Gene LOC101056016	uncharacterized LOC101056016	XM_003945765.1,
34	Gene Ythdf2	Ythdf2, NY-REI YTH domain family 2	NM_145393.4
34	Gene Rps15a	Gm13253, OTT ribosomal protein S15A, pseudogene 4	NR_036572.1
34	Gene Gmeb1	AI481278, Gm glucocorticoid modulatory element binding protein	NM_001122992.1
27	Gene Rcc1	Chc1, AI32687 regulator of chromosome condensation 1	NM_001197082.1
23	Gene Snhg3	Snhg3, U17HG small nucleolar RNA host gene (non-protein coding)	NR_003270.2
23	Gene Snora73	U17B, Snora73 small nucleolar RNA, H/ACA box 73b	NR_028513.1
23	Gene Snora73	E1, E1b, E1-7, I small nucleolar RNA, H/ACA box 73a	NR_028512.1
28	Gene Phactr4	3110001B12Ri phosphatase and actin regulator 4	NM_175306.4, NM

30	Gene Med18	Med18, 28100 mediator of RNA polymerase II transcription, subunit 18	NM_026039.3
33	Gene Sesn2	Sesn2, MGC11 sestrin 2	NM_144907.1
28	Gene Atpif1	Atpif1, If1, AtpATPase inhibitory factor 1	NM_007512.3
28	Gene Dnajc8	Dnajc8, 20100 DnaJ (Hsp40) homolog, subfamily C, member 8	NM_172400.3
35	Gene Eya3	Eya3, AI84463 eyes absent 3 homolog (Drosophila)	NM_010166.2, NM
35	Gene Xkr8	Gm1031, MGCX Kell blood group precursor related family member 8	NM_201368.1
35	Gene Smpdl3b	Smpdl3b, 111C sphingomyelin phosphodiesterase, acid-like 3B	NM_133888.2
28	Gene Rpa2	AI325195, AUC replication protein A2	NM_011284.3
39	Gene Fam76a	Fam76a, MGC: family with sequence similarity 76, member A	NM_145553.2, NM
28	Gene Fgr	Fgr Gardner-Rasheed feline sarcoma viral (Fgr) oncogene	NM_010208.4
31	Gene Ahdc1	MGC29331, A1 AT hook, DNA binding motif, containing 1	NM_146155.3
32	Gene Wasf2	D4Ert13e, W1 WAS protein family, member 2	NM_153423.6
23	Gene Map3k6	Ask2, MGC159 mitogen-activated protein kinase kinase kinase 6	NM_016693.5
18	Gene Syt11	Syt11, 9030417 synaptotagmin-like 1	NM_031393.2
21	Gene Tmem22	AA409341, 57: transmembrane protein 222	NM_025667.3
27	Gene Nudc	Silg92, SIG-92, nuclear distribution gene C homolog (Aspergillus)	NM_010948.3
27	Gene Nr0b2	SHP, Shp1, SHF nuclear receptor subfamily O, group B, member 2	NM_011850.2
29	Gene Gpatch3	D930035B09R1 G patch domain containing 3	NM_172876.2
29	Gene Gpn2	Atpbd1b, R74E GPN-loop GTPase 2	NM_133884.2
35	Gene Pigv	B330013B03, I phosphatidylinositol glycan anchor biosynthesis, class I	NM_178698.5, NM
37	Gene Arid1a	1110030E03R1 AT rich interactive domain 1A (SWI-like)	NM_001080819.1
26	Gene Hmgn2	MGC102472, F high mobility group nucleosomal binding domain 2	NM_016957.3
26	Gene Dhdds	CIT, DS, Dhdds dehydrolipoyl dihydrolipoamide S-transferase	NM_026144.4
37	Gene Cnksr1	Cnksr1, BC037 connector enhancer of kinase suppressor of Ras 1	NM_001081047.1
37	Gene Zfp593	AV062409, Zfp zinc finger protein 593	NM_024215.2
37	Gene E130218	E130106C14R1 RIKEN cDNA E130218I03 gene	NR_040435.1, NR
37	Gene Grp1	2810043G13R1 glycine/arginine rich protein 1	NM_001099296.1
33	Gene Pdik1l	MGC36635, st1 PDLIM1 interacting kinase 1 like	NM_146156.3, NM
31	Gene Stmn1	Smn, Pp17, P1 stathmin 1	NM_019641.4
35	Gene Mtrf1l	Fam54b, AI48C mitochondrial fission regulator 1-like	NM_001256112.1
35	Gene Sepn1	Sepn1, AI4144 selenoprotein N, 1	NM_029100.2
35	Gene Man1c1	Man1c1, AI59E mannosidase, alpha, class 1C, member 1	NM_207237.3
25	Gene Ldlrap1	Arh, AA69126C low density lipoprotein receptor adaptor protein 1	NM_145554.2
36	Gene Tmem57	Tmem57, AI31 transmembrane protein 57	NM_025382.6
56	Gene Tmem50	Smp1, Tmem5 transmembrane protein 50A	NM_027935.2
56	Gene D4Wsu5	2700043I21R1 DNA segment, Chr 4, Wayne State University 53, ex1	NM_023665.3
56	Gene Syf2	Ntc31, p29, Sy SYF2 homolog, RNA splicing factor (S. cerevisiae)	NM_026780.3
35	Gene Clic4	mc3s5, Clic4, I chloride intracellular channel 4 (mitochondrial)	NM_013885.2
19	Gene Srrm1	Srrm1, AA407E serine/arginine repetitive matrix 1	NM_016799.3, NM
31	Gene Srsf10	SRrp40, Srsf10 serine/arginine-rich splicing factor 10	NM_001080387.1
26	Gene Cnr2	Cnr2, CB2-R, C cannabinoid receptor 2 (macrophage)	NM_009924.3
26	Gene Fuca1	Afuc, 9530055 fucosidase, alpha-L- 1, tissue	NM_024243.4
34	Gene Hmgcl	AW476067, H1 3-hydroxy-3-methylglutaryl-Coenzyme A lyase	NM_008254.2
34	Gene Gale	2310002A12R1 galactose-4-epimerase, UDP	NM_178389.3
34	Gene Lypla2	Lypla2, Lysol1 lysophospholipase 2	NM_011942.1
34	Gene Pithd1	Trp26, AA4081PITH (C-terminal proteasome-interacting domain of	NM_025411.4
19	Gene Tceb3	AA408125, Tce transcription elongation factor B (SIII), polypeptide 3	NM_013736.4

51	Gene Rpl11	Rpl11, 201020 ribosomal protein L11	NM_025919.2
33	Gene Id3	bHLHb25, Idb3 inhibitor of DNA binding 3	NM_008321.2
37	Gene E2f2	E2f2, 9230110. E2F transcription factor 2	NM_177733.6
26	Gene Zfp46	Zfp-46, Znf436 zinc finger protein 46	NM_009557.3
33	Gene Hnrnpr	2610003J05Ri heterogeneous nuclear ribonucleoprotein R	NM_028871.1
24	Gene Luzp1	Luzp1, MGC16 leucine zipper protein 1	NM_024452.2
23	Gene Lactbl1	Lactbl1, BC029684	NM_001243262.1
35	Gene Ephb2	Tyro5, Erk, Drt Eph receptor B2	NM_010142.2
32	Gene Zbtb40	MGC62412, m zinc finger and BTB domain containing 40	NM_198248.1
30	Gene Wnt4	Wnt4, MGC12: wingless-related MMTV integration site 4	NM_009523.2
20	Gene Cdc42	Cdc42, AI747189, AU018915	NM_001243769.1
19	Gene Rpl31-ps	OTTMUSG000I ribosomal protein L31, pseudogene 10	
34	Gene Hspg2	Hspg2, per, Plc perlecan (heparan sulfate proteoglycan 2)	NM_008305.3
24	Gene Usp48	AI115503, 281 ubiquitin specific peptidase 48	NM_130879.2
24	Gene Rap1gap	1300019I11Rik Rap1 GTPase-activating protein	NM_001081155.2
26	Gene Alpl	AP-TNAP, Alpl, alkaline phosphatase, liver/bone/kidney	NM_007431.2
26	Gene Ece1	ECE-1b, AW32. endothelin converting enzyme 1	NM_199307.2
46	Gene Eif4g3	eIF4GIII, G1-41: eukaryotic translation initiation factor 4 gamma, 3	NM_001256195.1
46	Gene Hp1bp3	Hp1bp74, Hp1 heterochromatin protein 1, binding protein 3	NM_010470.2, NM
32	Gene Pink1	AU042772, 11: PTEN induced putative kinase 1	NM_026880.2
26	Gene Fam43b	Fam43b, OTTM family with sequence similarity 43, member B	NM_001081672.2
25	Gene Camk2n	1810006K23Ri calcium/calmodulin-dependent protein kinase II inh	NM_025451.2
28	Gene Otud3	Otud3, 311003: OTU domain containing 3	NM_028453.1
22	Gene Rnf186	Rnf186, 91300 ring finger protein 186	NM_025786.3
22	Gene Tmco4	AI430825, Tmc transmembrane and coiled-coil domains 4	NM_029857.3
27	Gene Nbl1	DAN, MGC123 neuroblastoma, suppression of tumorigenicity 1	NM_008675.2
44	Gene Minos1	Minos1, 23100 mitochondrial inner membrane organizing system 1	NM_001163006.2
18	Gene Capzb	1700120C01Ri capping protein (actin filament) muscle Z-line, beta	NM_001037761.1
38	Gene Pqlc2	MGC38094, BC PQ loop repeat containing 2	NM_145384.2
38	Gene Akr7a5	0610025K21Ri aldo-keto reductase family 7, member A5 (aflatoxin	NM_025337.3
29	Gene Iffo2	MGC36549, C7 intermediate filament family orphan 2	NM_183148.3, NM
19	Gene Crocc	Crocc, KIAA04: ciliary rootlet coiled-coil, rootletin	NM_172122.2, NM
26	Gene Necap2	C78898, Neca: NECAP endocytosis associated 2	NM_025383.3
26	Gene Spata21	4933414G08, 5 spermatogenesis associated 21	NM_177867.3
35	Gene Szrd1	Szrd1, 111002: SUZ RNA binding domain containing 1	NM_001025608.1
35	Gene Fbxo42	6720460I06Rik F-box protein 42	NM_172518.3
29	Gene EphA2	Sek2, AW5452 Eph receptor A2	NM_010139.3
29	Gene Gm694	Gm694 predicted gene 694	NM_001033374.3
29	Gene Zbtb17	Zbtb17, Miz1, zinc finger and BTB domain containing 17	NM_009541.2
35	Gene Spen	Mint, mKIAA0: SPEN homolog, transcriptional regulator (Drosophila	NM_019763.2
35	Gene Gm4123	Gm4123 predicted gene 4123	XR_168665.1
35	Gene B330016	B330016D10Ri RIKEN cDNA B330016D10 gene	NR_030695.1
18	Gene Fblim1	2410043F08Ri filamin binding LIM protein 1	NM_133754.5, NM
17	Gene Tmem82	Tmem82, MGC transmembrane protein 82	NM_145987.2
17	Gene Slc25a34	Slc25a34, Gm1 solute carrier family 25, member 34	NM_001013780.1
21	Gene Plekhm2	mKIAA0842, A pleckstrin homology domain containing, family M (w	NM_001033150.1
19	Gene Ddi2	AI604911, 913 DNA-damage inducible protein 2	NM_001017966.2

31	Gene Dnajc16	D030060M24, DnaJ (Hsp40) homolog, subfamily C, member 16	NM_172338.2
31	Gene Casp9	AW493809, C/caspase 9	NM_015733.4
33	Gene Efhd2	2600015J22Ri EF hand domain containing 2	NM_025994.3
23	Gene Tmem51	BC003277, FLJ transmembrane protein 51	NM_145402.3
23	Gene Tmem51	Tmem51as1, E Tmem51 antisense RNA 1	NR_027137.1
24	Gene Kazn	2310007B04Ri kazrin, periplakin interacting protein	NM_144531.3, NM
32	Gene Prdm2	Znfpr1c1, Riz1, PR domain containing 2, with ZNF domain	NM_001081355.3
22	Gene Lrrc38	Lrrc38, A2300 leucine rich repeat containing 38	NM_001162983.1
17	Gene Dhrr3	Rsd1, retSDR1 dehydrogenase/reductase (SDR family) member 3	NM_001172424.1,
32	Gene Vps13d	BC037490, C8 vacuolar protein sorting 13 D (yeast)	NM_001128198.1
21	Gene Gm1313	Gm13139, MG predicted gene 13139	NM_001083918.1
25	Gene Plod1	AI854890, 241 procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1	NM_011122.3
25	Gene 2510039	2510039O18Ri, Kiaa2013	NM_029841.3
26	Gene Agtrap	3300002E14Ri angiotensin II, type I receptor-associated protein	NM_009642.4
26	Gene Draxin	2610109H07Ri dorsal inhibitory axon guidance protein	NM_027426.3
30	Gene Mtor	RAFT1, AI3270 mechanistic target of rapamycin (serine/threonine k	NM_020009.2
42	Gene Exosc10	p4, Exosc10, R exosome component 10	NM_016699.2
42	Gene Srm	SpdSy, AA407 spermidine synthase	NM_009272.4
35	Gene Tardbp	TDP-43, Tardbp, TAR DNA binding protein	NM_145556.4, NM
19	Gene Pex14	Pex14p, R7513 peroxisomal biogenesis factor 14	NM_019781.2
19	Gene Dffa	ICAD-S, ICAD, DNA fragmentation factor, alpha subunit	NM_001025296.1,
26	Gene Apitd1	2810407L01Ri apoptosis-inducing, TAF9-like domain 1	NM_027263.2
33	Gene Pgd	Pgd, AU01987 phosphogluconate dehydrogenase	NM_001081274.1
33	Gene Kif1b	A530096N05R kinesin family member 1B	NM_008441.2, NM
31	Gene Ube4b	4930551119Ri ubiquitination factor E4B, UFD2 homolog (S. cerevisi	NM_022022.3
29	Gene Nmnat1	nmnat, 57304 nicotinamide nucleotide adenyltransferase 1	NM_133435.1
29	Gene Lzic	AW047580, 18 leucine zipper and CTNNBIP1 domain containing	NM_026963.5
37	Gene Slc25a33	Slc25a33, Pnc1 solute carrier family 25, member 33	NM_027460.2, XM
33	Gene Spsb1	Spsb1, MGC10 sPLA/ryanodine receptor domain and SOCS box cont	NM_029035.2
28	Gene H6pd	G6pd1, Gpd1, hexose-6-phosphate dehydrogenase (glucose 1-deh	NM_173371.3
33	Gene Gpr157	Gpr157, F7301 G protein-coupled receptor 157	NM_177366.3
20	Gene Rere	ARP, AW74257 arginine glutamic acid dipeptide (RE) repeats	NM_001085492.1
23	Gene 1700045	1700045H11Ri RIKEN cDNA 1700045H11 gene	NR_040649.1
23	Gene Errfi1	AI788755, 130 ERBB receptor feedback inhibitor 1	NM_133753.1
18	Gene Park7	Park7, Dj1, DJ- Parkinson disease (autosomal recessive, early onset	NM_020569.3
27	Gene Per3	2810049O06Ri period circadian clock 3	NM_011067.2
27	Gene Vamp3	Vamp3, ceb, D vesicle-associated membrane protein 3	NM_009498.4
28	Gene Camta1	AI316882, mKl calmodulin binding transcription activator 1	NM_001081557.3
28	Gene 9230110	9230110K08Ri RIKEN cDNA 9230110K08 gene	XM_003945766.1,
39	Gene Dnajc11	E030019A03Ri DnaJ (Hsp40) homolog, subfamily C, member 11	NM_172704.3
37	Gene Thap3	2210418H06Ri THAP domain containing, apoptosis associated prot	NM_175152.4, NM
37	Gene Phf13	SPOC1, Phf13, PHD finger protein 13	NM_172705.2
46	Gene Kihl21	1810045K06Ri, Kihl21, mKIAA0469, D330008A20	NM_001033352.3
46	Gene Zbtb48	AI327031, Zbt zinc finger and BTB domain containing 48	NM_133879.2
48	Gene Tas1r1	TR1, Gpr70, T1 taste receptor, type 1, member 1	NM_031867.2
48	Gene Nol9	MGC159135, Nucleolar protein 9	NM_028727.2, NM
25	Gene Plekhg5	BC023181, mK pleckstrin homology domain containing, family G (w	NM_001004156.2

25	Gene Tnfrsf25	WSL-1, Wsl, TNF tumor necrosis factor receptor superfamily, member 25	NM_033042.3
25	Gene Espn	je, Espn, espin	NM_207688.2, NM_207688.2
17	Gene Gm2037	Gm20377, OTI predicted gene, 20377	
17	Gene Hes2	Hes2, HES-2, hairy and enhancer of split 2 (Drosophila)	NM_008236.4
23	Gene Acot7	Act, Ach1, AUC acyl-CoA thioesterase 7	NM_133348.2, NM_133348.2
21	Gene Gpr153	1110065N12Ri G protein-coupled receptor 153	NM_178406.2
36	Gene Hes3	MGC144657, hairy and enhancer of split 3 (Drosophila)	NM_008237.4
36	Gene Icmt	OTTMUSG000i isoprenylcysteine carboxyl methyltransferase	NM_133788.2, NR_133788.2
36	Gene Rnf207	D330010C22Ri ring finger protein 207	NM_001033489.2
27	Gene Rpl22	2700038K18Ri ribosomal protein L22	NM_009079.2
21	Gene Ajap1	Gm573, Ajap1 adherens junction associated protein 1	NM_001099299.1
27	Gene BC039966	BC039966 cDNA sequence BC039966	NR_040670.1
27	Gene A430005	A430005L14Ri RIKEN cDNA A430005L14 gene	NM_175287.4, NM_175287.4
34	Gene Dffb	DFF40, 40kDa, DNA fragmentation factor, beta subunit	NM_007859.4
34	Gene Cep104	BC046331, Kia centrosomal protein 104	NM_177673.2
30	Gene Lrrc47	mKIAA1185, 2-leucine rich repeat containing 47	NM_201226.1
30	Gene Smim1	0610011H04Ri small integral membrane protein 1	NM_001163721.1, NM_001163721.1
26	Gene Wrap73	5330425N03Ri WD repeat containing, antisense to Trp73	NM_021499.2
26	Gene Tprgl	RP23-254N4.1 transformation related protein 63 regulated like	NM_026388.2
25	Gene Megf6	2600001P17Ri multiple EGF-like-domains 6	NM_001162977.1
18	Gene Prdm16	5730557K01Ri PR domain containing 16	NM_027504.3, NM_027504.3
18	Gene 5930403	5930403L14Ri RIKEN cDNA 5930403L14 gene	NR_045643.1
18	Gene Gm1311	Gm13111, OTI predicted gene 13111	XR_104909.2
26	Gene Hes5	bHLHb38, Hes, hairy and enhancer of split 5 (Drosophila)	NM_010419.4
26	Gene Pank4	D030031I12Ri pantothenate kinase 4	NM_172990.4
42	Gene Rer1	Rer1, 5830454 RER1 retention in endoplasmic reticulum 1 homolog	NM_026395.1
42	Gene Morn1	2900057D20Ri MORN repeat containing 1	NM_001081100.1
58	Gene Ski	BC004088, 231ski sarcoma viral oncogene homolog (avian)	NM_011385.2
58	Gene Gm1931	Gm19313 predicted gene, 19313	XR_140669.1, XR_140669.1
24	Gene 2610002	2610002J02Ri, Faap20	NM_001190445.1
24	Gene Prkcz	zetaPKC, R749 protein kinase C, zeta	NM_008860.2, NM_008860.2
32	Gene Gnb1	Gnb-1, C77571 guanine nucleotide binding protein (G protein), beta	NM_008142.4, NM_008142.4
28	Gene Cdk11b	Cdc11b, Cdk11 cyclin-dependent kinase 11B	NM_007661.3
28	Gene Mmp23	MGC130335, C matrix metalloproteinase 23	NM_011985.2
28	Gene Mib2	skd, Mib2, 221 mindbomb homolog 2 (Drosophila)	NM_001256107.1
42	Gene B930041	B930041F14Ri RIKEN cDNA B930041F14 gene	NM_178699.4
42	Gene Ssu72	Ssu72, 261010 Ssu72 RNA polymerase II CTD phosphatase homolog	NM_026899.3
41	Gene Atad3a	KIAA1273, Tob ATPase family, AAA domain containing 3A	NM_179203.3
41	Gene 2610204	2610204G22Ri RIKEN cDNA 2610204G22 gene	NR_027971.1, NR_027971.1
41	Gene Vwa1	Vwa1, WARP, von Willebrand factor A domain containing 1	NM_147776.4
29	Gene Tmem88	A230069A22Ri transmembrane protein 88B	NM_001033394.3
29	Gene Ankrd65	Gm439, Gm45 ankyrin repeat domain 65	XM_003086419.1, XM_003086419.1
37	Gene Mrpl20	4930425I20Ri mitochondrial ribosomal protein L20	NM_025570.2
37	Gene Ccnl2	2010319M22R cyclin L2	NM_207678.1
32	Gene Aurkaip1	Akip, Aurkaip1 aurora kinase A interacting protein 1	NM_025338.4
32	Gene Mxra8	Asp3, Mxra8, 1 matrix-remodelling associated 8	NM_024263.4
32	Gene Dvl1	KIAA4029, Dvl, dishevelled, dsh homolog 1 (Drosophila)	NM_010091.3

30	Gene Tas1r3	Sac, T1r3, Tas1 taste receptor, type 1, member 3	NM_031872.2
30	Gene Gltpd1	RP23-242K15.1 glycolipid transfer protein domain containing 1	NM_024472.4
36	Gene Cpsf3l	Cpsf3l, 24100C cleavage and polyadenylation specific factor 3-like	NM_028020.3
36	Gene Pusl1	2810021111Rik pseudouridylate synthase-like 1	NM_001033490.1
36	Gene Acap3	Centb5, mKIAA ArfGAP with coiled-coil, ankyrin repeat and PH domain	NM_207223.1
34	Gene Ube2j2	5730472G04Rik ubiquitin-conjugating enzyme E2J 2	NM_001039157.1
49	Gene B3galt6	BB129894, Gal UDP-Gal:betaGal beta 1,3-galactosyltransferase, pol	NM_080445.4
49	Gene Sdf4	Cab45, Sdf4 stromal cell derived factor 4	NM_011341.4
24	Gene Agrn	nmf380, Agrin, agrin	NM_021604.3
24	Gene Isg15	MGC130321, IISG15 ubiquitin-like modifier	NM_015783.3
24	Gene AW0117	AW011738 expressed sequence AW011738	NR_030671.1
24	Gene Plekhn1	Plekhn1, BC02 pleckstrin homology domain containing, family N member	NM_001008233.3
24	Gene Khlh17	AL022703, Khlh kelch-like 17	NM_198305.2
24	Gene Noc2l	Noc2l, NIR, AA nucleolar complex associated 2 homolog (S. cerevisiae)	NM_021303.2
23	Gene Cdk6	Cdk6, 5830411 cyclin-dependent kinase 6	NM_009873.2
33	Gene Ankib1	MGC90780, 46 ankyrin repeat and IBR domain containing 1	NM_001003909.3
33	Gene Krit1	AA432855, 20: KRIT1, ankyrin repeat containing	NM_001170552.1
20	Gene Akap9	Akap9, AKAP4: A kinase (PRKA) anchor protein (yotiao) 9	NM_194462.2
35	Gene Cyp51	Ldm, P450LI, A cytochrome P450, family 51	NM_020010.2
26	Gene Fzd1	AW227548, FZ frizzled homolog 1 (Drosophila)	NM_021457.3
21	Gene Steap1	2410007B19Rik six transmembrane epithelial antigen of the prostate	NM_027399.3
17	Gene Dbf4	AA545217, Asf DBF4 homolog (S. cerevisiae)	NM_001190717.1
17	Gene Slc25a4c	B230315F11Rik solute carrier family 25, member 40	NM_178766.4
19	Gene Rundc3t	Gm440, MGC6 RUN domain containing 3B	NM_198620.1
20	Gene Crot	Crot, 1200003 carnitine O-octanoyltransferase	NM_023733.3
21	Gene Tmem24	Tmem243, 49E transmembrane protein 243, mitochondrial	NM_001081029.1
20	Gene Dmtf1	Dmtf1, Dimp, I cyclin D binding myb-like transcription factor 1	NM_011806.3, NM
20	Gene Gm1773	Gm17739, E03 predicted gene, 17739	XR_141471.2, XR_
25	Gene Sema3d	4631426B19Rik sema domain, immunoglobulin domain (Ig), short b	NM_028882.4
19	Gene Pclo	Pclo, mKIAA05 piccolo (presynaptic cytomatrix protein)	NM_011995.4, NM
30	Gene Gnai1	Gialpha1, Gnaiguanine nucleotide binding protein (G protein), alpha	NM_010305.1
19	Gene 4921504	4921504A21Rik RIKEN cDNA 4921504A21 gene	XR_106346.2, XR_
19	Gene Magi2	Magi2, mKIAA membrane associated guanylate kinase, WW and P	NM_015823.3, NM
32	Gene Rsbn1l	Rsbn1l, AI4474 round spermatid basic protein 1-like	NM_001080977.1
32	Gene A630072	A630072M18R RIKEN cDNA A630072M18 gene	NR_030699.1
39	Gene Ptpn12	PTP-PEST, PTP protein tyrosine phosphatase, non-receptor type 12	NM_011203.2
37	Gene Dnajc2	Zrf2, MIDA1, A DnaJ (Hsp40) homolog, subfamily C, member 2	NM_009584.4
37	Gene Psmc2	Psmc2 proteasome (prosome, macropain) 26S subunit, ATP	NM_011188.3
34	Gene 5031425	5031425E22Rik RIKEN cDNA 5031425E22 gene	NR_040469.1
34	Gene Mll5	9530077A04Rik myeloid/lymphoid or mixed-lineage leukemia 5	NM_026984.1
37	Gene AI50681	AI506816 expressed sequence AI506816	NR_015554.2, NR_
37	Gene LOC101056102	envelope glycoprotein-like	XM_003945671.1
37	Gene Mir3096	Mir3096, mmu microRNA 3096	NR_037279.1
26	Gene Pus7	C330017115Rik pseudouridylate synthase 7 homolog (S. cerevisiae)	NM_178403.4
26	Gene Rint1	Rint-1, MGC18 RAD50 interactor 1	NM_177323.3
43	Gene Fam126c	Drctnbn1a, AB family with sequence similarity 126, member A	NM_053090.2
28	Gene Khlh7	Klh7, D5Ert363e, SBBI26, 2700038B03Rik	NM_026448.3, NM

28	Gene Nupl2	Nlp1, Nupl2, N nucleoporin like 2	NM_153092.4
29	Gene Kcnh2	Merg1, merg1|potassium voltage-gated channel, subfamily H (eag-	NM_013569.2
21	Gene Nos3	eNOS, Nos-3, ε nitric oxide synthase 3, endothelial cell	NM_008713.4
21	Gene Atg9b	Apg9l2, Atg9b, autophagy related 9B	NM_001002897.3
21	Gene Abcb8	4833412N02Ri ATP-binding cassette, sub-family B (MDR/TAP), mem	NM_029020.2
28	Gene Fastk	0610011K02Ri Fas-activated serine/threonine kinase	NM_023229.2
28	Gene Tmub1	Tmub1, AB030 transmembrane and ubiquitin-like domain containin	NM_022418.3
28	Gene Agap3	Agap3, MRIP-1ArfGAP with GTPase domain, ankyrin repeat and PH	NM_139153.2, NM
29	Gene Abcf2	Drr3, E430001 ATP-binding cassette, sub-family F (GCN20), membe	NM_001190443.1
29	Gene Gm1022	Gm10221, ENS ATP synthase, H+ transporting, mitochondrial F0 complex, subunit g ps	
29	Gene Chpf2	AW060945, Chondroitin polymerizing factor 2	NM_133913.2
29	Gene Mir671	Mirn671, mmu microRNA 671	NR_030423.1
29	Gene Smarcd3	1500001J14Ri SWI/SNF related, matrix associated, actin dependen	NM_025891.3
27	Gene Wdr86	Wdr86, BC059 WD repeat domain 86	NM_001081441.1
35	Gene Rheb	Rheb	NM_053075.3
23	Gene Prkag2	AAKG2, Prkag2 protein kinase, AMP-activated, gamma 2 non-cataly	NM_145401.2, NM
23	Gene 2900005	2900005J15Ri RIKEN cDNA 2900005J15 gene	NR_027851.1
38	Gene Mll3	HALR, KIAA15C myeloid/lymphoid or mixed-lineage leukemia 3	NM_001081383.1
38	Gene 483144C	4831440E17Ri RIKEN cDNA 4831440E17 gene	NR_030700.1
27	Gene 1700096	1700096K18Ri RIKEN cDNA 1700096K18 gene	NR_027388.1
17	Gene Gm2167	Gm21671 predicted gene, 21671	XM_003688807.1
27	Gene Paxip1	PTIP, Paxip1, PAX interacting (with transcription-activation domai	NM_018878.2
30	Gene Insig1	Insig-1, Insig1, insulin induced gene 1	NM_153526.5
18	Gene En2	BB131122, En2 engrailed 2	NM_010134.3
33	Gene Rbm33	Rbm33, 32000 RNA binding motif protein 33	NM_028234.1
20	Gene Lmbr1	1110048D14Ri limb region 1	NM_020295.3
20	Gene 4632411	4632411P08Ri RIKEN cDNA 4632411P08 gene	XR_107686.1, XR_
24	Gene Ube3c	Ube3c, AI8535 ubiquitin protein ligase E3C	NM_133907.3
27	Gene Gm5129	EG332993, Gr predicted gene 5129	NR_028426.1
27	Gene Dnajb6	Mrj, Dnajb6, r DnaJ (Hsp40) homolog, subfamily B, member 6	NM_001037940.4
25	Gene Hadha	C77020, Mtpa, hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacy	NM_178878.2
25	Gene Hadhb	4930479F15Ri hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacy	NM_145558.1
22	Gene Gm9899	ENSMUSG000 (predicted gene 9899	NR_040427.1
22	Gene Kcnk3	TASK, Kcnk3, c potassium channel, subfamily K, member 3	NM_010608.2
26	Gene Slc35f6	Slc35f6, 49304 solute carrier family 35, member F6	NM_175675.3
26	Gene Cenpa	Cenp-A, Cenpa centromere protein A	NM_007681.2
30	Gene Mapre3	EB2, AI790651 microtubule-associated protein, RP/EB family, mem	NM_133350.1
24	Gene Gm1940	Gm19409 predicted gene, 19409	XR_140702.1, XR_
30	Gene Tmem21	FLJ20254, 111 (transmembrane protein 214	NM_144525.3
25	Gene Agbl5	9430057O19Ri ATP/GTP binding protein-like 5	NM_001048192.2,
25	Gene Ost4	2310016E02Ri oligosaccharyltransferase 4 homolog (S. cerevisiae)	NM_024460.3, NM
25	Gene Emilin1	5830419M17R elastin microfibril interfacer 1	NM_133918.2
19	Gene Khk	Khk ketohexokinase	NM_008439.3
27	Gene Trim54	MURF, MGC13 tripartite motif-containing 54	NM_021447.2
27	Gene Ucn	Ucn1, MGC151 urocortin	NM_021290.2
27	Gene Mpv17	Tg.Mpv17, Mp MpV17 mitochondrial inner membrane protein	NM_008622.5
25	Gene Eif2b4	Eif2b4, Eif2b eukaryotic translation initiation factor 2B, subunit 4	NM_010122.2, NM

25	Gene Snx17	Snx17, mKIAA(sorting nexin 17	NM_153680.2
25	Gene Zfp513	AW990386, D ⁴ zinc finger protein 513	NM_001177901.1,
35	Gene Ppm1g	Ppm1g, Fin13, protein phosphatase 1G (formerly 2C), magnesium-c	NM_008014.3
27	Gene Nrbp1	B230344L17Ri nuclear receptor binding protein 1	NM_147201.2
19	Gene Krtcap3	Kcp3, MGC129 keratinocyte associated protein 3	NM_027221.3
21	Gene Ift172	wim, 4930553i intraflagellar transport 172	NM_026298.5
21	Gene Fndc4	AW487863, FR fibronectin type III domain containing 4	NM_022424.5
21	Gene Gckr	MGC19300, Gc glucokinase regulatory protein	NM_144909.1
29	Gene Mrpl33	Mrpl33, 06100 mitochondrial ribosomal protein L33	NM_025796.3
35	Gene Rbks	RBSK, 523040C ribokinase	NM_153196.1
35	Gene Bre	6030405P19Ri brain and reproductive organ-expressed protein	NM_144541.1, NM
34	Gene Gm1046	Gm10463, ENS predicted gene 10463	XR_140699.1, XR_
34	Gene Fosl2	Fosl2, Fra-2 fos-like antigen 2	NM_008037.4
29	Gene Yes1	Yes1, Yes, A132 Yamaguchi sarcoma viral (v-yes) oncogene homolog	NM_009535.3, NM
23	Gene Pisd	9030221M09R phosphatidylserine decarboxylase	NM_177298.3
29	Gene Prr14l	6030436E02Ri proline rich 14-like	NM_194340.2
29	Gene Depdc5	Depdc5, KIAAC DEP domain containing 5	NM_001170567.1
20	Gene Ywhah	Ywhah tyrosine 3-monooxygenase/tryptophan 5-monooxyg	NM_011738.2
31	Gene Maea	Maea, EMP, 11 macrophage erythroblast attacher	NM_021500.2
38	Gene Slbp	Slbp	NM_009193.1
38	Gene Tmem12	AA409575, Tm transmembrane protein 129	NM_026698.2
38	Gene Tacc3	Aint, Eric1, Tac transforming, acidic coiled-coil containing protein 3	NM_001040435.2
23	Gene Fgfr3	CD333, sam3, fibroblast growth factor receptor 3	NM_001163215.2
27	Gene Letm1	Letm1	NM_019694.1
42	Gene Nelfa	Whsc2, Whsc2 negative elongation factor complex member A, Whs	NM_011914.2
23	Gene Gm1673	Gm1673	NM_001033458.3
18	Gene Nat8l	Nat8l, Shati, 1: N-acetyltransferase 8-like	NM_001001985.3
18	Gene Poln	POL4P, Poln DNA polymerase N	NM_181857.3
23	Gene Zfyve28	mKIAA1643, G zinc finger, FYVE domain containing 28	NM_001015039.1
25	Gene Gm2144	Gm21446 predicted gene, 21446	XM_003688815.1,
25	Gene Rnf4	AU018689, Gt ring finger protein 4	NM_011278.4
36	Gene Tnip2	1810020H16Ri TNFAIP3 interacting protein 2	NM_139064.2
19	Gene Sh3bp2	3BP2, Sh3bp2 SH3-domain binding protein 2	NM_001136088.1,
29	Gene Add1	A1256389, Add adducin 1 (alpha)	NM_013457.3, NM
29	Gene Mfsd10	Mfsd10, Tetra major facilitator superfamily domain containing 10	NM_026660.2
29	Gene Nop14	2610033H07Ri NOP14 nucleolar protein	NM_029278.2
19	Gene Htt	A1256365, C43 huntingtin	NM_010414.2
19	Gene Msantd1	Gm144, A930C Myb/SANT-like DNA-binding domain containing 1	NM_207277.1
26	Gene Rgs12	Rgs12, 120001 regulator of G-protein signaling 12	NM_173402.2, NM
19	Gene E130018	E130018O15Ri RIKEN cDNA E130018O15 gene	XR_107675.1, XR_
19	Gene Hmx1	Nkx5-3, Hmx1 H6 homeobox 1	NM_010445.2
27	Gene Trmt44	2310079F23Ri tRNA methyltransferase 44	NM_030208.3
27	Gene 4931431	4931431C16Ri RIKEN cDNA 4931431C16 gene	NR_045807.1
27	Gene Acox3	Acox3, EST-s55 acyl-Coenzyme A oxidase 3, pristanoyl	NM_030721.2
25	Gene Htra3	9530081K03Ri HtrA serine peptidase 3	NM_001042615.1
16	Gene Sh3tc1	MGC67153, BCSH3 domain and tetratricopeptide repeats 1	NM_194344.2
25	Gene Ablim2	C230091L11, A actin-binding LIM protein 2	NM_001177696.1

25	Gene Afap1	AI848729, 260 actin filament associated protein 1	NM_027373.2
33	Gene Sorcs2	mKIAA1329, N sortilin-related VPS10 domain containing receptor 2	NM_030889.2
37	Gene Grpel1	mt-GrpE#1, AA GrpE-like 1, mitochondrial	NM_024478.2
37	Gene Tada2b	Gm145, Tada2 transcriptional adaptor 2B	NM_001170454.1
37	Gene Ccdc96	Ccdc96, 49215 coiled-coil domain containing 96	NM_025725.2
37	Gene Tbc1d14	D5Erd110e, C TBC1 domain family, member 14	NM_133910.3, NM
33	Gene Bloc1s4	Blos4, Cno, 26: biogenesis of organelles complex-1, subunit 4, capping	NM_133724.3
21	Gene Mrfap1	9130413122Rik Morf4 family associated protein 1	NM_026242.3
26	Gene Man2b2	mKIAA0935, M mannosidase 2, alpha B2	NM_008550.2
16	Gene Crmp1	Ulip3, DRP-1, C collapsin response mediator protein 1	NM_007765.3, NM
27	Gene Evc	Evc Ellis van Creveld gene syndrome	NM_021292.2
27	Gene Evc2	Lbn, Evc2, limit Ellis van Creveld syndrome 2	NM_145920.3
19	Gene Msx1	AI324650, msh homeobox, msh-like 1	NM_010835.2
19	Gene Msx1as	Msx1as homeobox, msh-like 1 antisense	NR_027920.1
24	Gene Stx18	AU041562, 18: syntaxin 18	NM_026959.2
20	Gene Nsg1	p21, Neep21, r neuron specific gene family member 1	NM_010942.3
21	Gene Zbtb49	Znf509, Zfp509 zinc finger and BTB domain containing 49	NM_029162.2
21	Gene Lyar	Lyar, MLZ-264	NM_025281.3
18	Gene Tmem12	2810021014Rik transmembrane protein 128	NM_025480.3
22	Gene Wdr1	D5Wsu185e, r WD repeat domain 1	NM_011715.2
23	Gene Zfp518b	AI661722, AA4 zinc finger protein 518B	NM_001081144.2,
30	Gene Rab28	Rab28, MGC8C RAB28, member RAS oncogene family	NM_027295.2
21	Gene Bod1l	mKIAA1327, A biorientation of chromosomes in cell division 1-like	NM_001081422.2
33	Gene Gm7854	ENSMUSG000 (predicted gene 7854)	NR_028417.1
33	Gene Cpeb2	Cpe-bp2, A630 cytoplasmic polyadenylation element binding protei	NM_001177379.1
32	Gene Fbxl5	Fbl4, Fbxl5, Fir F-box and leucine-rich repeat protein 5	NM_178729.4, NM
29	Gene Lap3	Peps, Lapep, P leucine aminopeptidase 3	NM_024434.6
29	Gene Med28	magicin, Med2 mediator of RNA polymerase II transcription, subuni	NM_025895.4
29	Gene Fam184l	9630031F12Rik family with sequence similarity 184, member B	NM_021416.3
33	Gene 1600023	AV119442, 16 (RIKEN cDNA 1600023N17 gene	XM_003945390.1,
33	Gene Ncapg	5730507H05Rik non-SMC condensin I complex, subunit G	NM_019438.1
32	Gene Lcorl	Mlr1, Lcorl ligand dependent nuclear receptor corepressor-like	NM_172153.3, NM
20	Gene Slit2	Slit2, KIAA414: slit homolog 2 (Drosophila)	NM_178804.3
39	Gene Gpr125	AU044632, 38: G protein-coupled receptor 125	NM_133911.1
24	Gene Dhx15	DBP1, Dhx15, IDEAH (Asp-Glu-Ala-His) box polypeptide 15	NM_007839.2, NM
24	Gene 9230114	9230114K14Rik RIKEN cDNA 9230114K14 gene	NR_015537.2
24	Gene C130083	C130083M11R RIKEN cDNA C130083M11 gene	NR_040717.1
27	Gene Sepsecs	SecS, AA98671 Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tR	NM_172490.3
23	Gene Rbpj	CBF1, Rbpsuh, recombination signal binding protein for immunogl	NM_001080928.1
20	Gene Stim2	Stim2 stromal interaction molecule 2	NM_001081103.2
18	Gene 4932441	4932441J04Rik RIKEN cDNA 4932441J04 gene	NR_015588.2
18	Gene Pcdh7	Pcdh7	NM_001122758.1
30	Gene Rell1	AA536743, Rel RELT-like 1	NM_145923.4
25	Gene Tbc1d1	MGC144097, r TBC1 domain family, member 1	NM_019636.2
27	Gene Gm2003	Gm20033 predicted gene, 20033	XM_003084622.2
27	Gene Klf3	MGC151315, S Kruppel-like factor 3 (basic)	NM_008453.5
27	Gene Tlr6	Tlr6 toll-like receptor 6	NM_011604.3

27	Gene Fam114	MGC117924, F family with sequence similarity 114, member A1	NM_026667.3
27	Gene Mir574	Mir574, Mirn5 microRNA 574	NR_030577.1
30	Gene Rfc1	Recc1, Alp145, replication factor C (activator 1) 1	NM_011258.2
58	Gene Klb	AV071179, Klb klotho beta	NM_031180.2
58	Gene Rpl9	MGC102393, Ribosomal protein L9	NM_011292.2
58	Gene Lias	Lias, 7a5ex, C7 lipoic acid synthetase	NM_024471.4
24	Gene Ugdh	Udpgdh, Ugdh UDP-glucose dehydrogenase	NM_009466.2
30	Gene Smim14	Smim14, 5430.small integral membrane protein 14	NM_133697.3
23	Gene Ube2k	Ube2k, D5Ertd601e, AW492011, E2-25k, Hypg, Lig, Hip2	NM_016786.3
21	Gene Pds5a	E230024D05Ri PDS5, regulator of cohesion maintenance, homolog	NM_001081321.1
22	Gene N4bp2	Gm1791, Gm8 NEDD4 binding protein 2	NM_001024917.1
34	Gene Apbb2	Apbb2, FE65L1 amyloid beta (A4) precursor protein-binding, family	NM_009686.1, NM
21	Gene Limch1	3732412D22Ri LIM and calponin homology domains 1	NM_001001980.2
23	Gene Tmem33	5430406L04Ri transmembrane protein 33	NM_028975.3, NM
21	Gene Slc30a9	GAC63, HUEL, solute carrier family 30 (zinc transporter), member 9	NM_178651.3
20	Gene Shisa3	Shisa3, mShisa shisa homolog 3 (Xenopus laevis)	NM_001033415.3
20	Gene Atp8a1	Atp8a1, AW74 ATPase, aminophospholipid transporter (APLT), clas	NM_001038999.1
17	Gene Kctd8	A730087N02R potassium channel tetramerisation domain containi	NM_175519.5
28	Gene Nfxl1	TCF9, Nfxl1, G1 nuclear transcription factor, X-box binding-like 1	NM_133921.2
31	Gene Slain2	5033405K12Ri SLAIN motif family, member 2	NM_153567.2, NM
18	Gene Slc10a4	Slc10a4, E130E solute carrier family 10 (sodium/bile acid cotranspor	NM_173403.2
27	Gene Fryl	Fryl, 9030227C furry homolog-like (Drosophila)	NM_028194.2
28	Gene Dcun1d4	AI836376, Dcu DCN1, defective in cullin neddylation 1, domain con	NM_001190733.1,
19	Gene Usp46	2410018I08Ri ubiquitin specific peptidase 46	NM_177561.3
31	Gene Dancr	Dancr, 270002 differentiation antagonizing non-protein coding RNA	NR_015531.1
31	Gene Snora26	Snora26, MBI-small nucleolar RNA, H/ACA box 26	NR_031758.1
41	Gene Rasl11b	1190017B18Ri RAS-like, family 11, member B	NM_026878.1
53	Gene Scfd2	E430013M20R Sec1 family domain containing 2	NM_178672.6, NM
53	Gene Fip111	1300019H17Ri FIP1 like 1 (S. cerevisiae)	NM_001159573.1
20	Gene Chic2	BTL, 4930502K cysteine-rich hydrophobic domain 2	NM_028850.4
26	Gene Gm1958	Gm19583 predicted gene, 19583	NR_045792.1
26	Gene Pdgfra	Pdgfra, Pdgr-2 platelet derived growth factor receptor, alpha polyp	NM_001083316.1
20	Gene Kdr	6130401C07, s kinase insert domain protein receptor	NM_010612.2
32	Gene Srd5a3	AW987574, Sr steroid 5 alpha-reductase 3	NM_020611.4
19	Gene Tmem16	pFT27, Tparl, T transmembrane protein 165	NM_011626.2
23	Gene Clock	Clock, bHLHe8 circadian locomotor output cycles kaput	NM_007715.5
23	Gene Gm7467	Gm7467, EG6E predicted gene 7467	XR_107695.1, XR_
23	Gene Pdcl2	1700010B22Ri phosducin-like 2	NM_023508.6
20	Gene Nmu	Nmu neuromedin U	NM_019515.1
25	Gene Cep135	Gm1044, BC0E centrosomal protein 135	NM_199032.2
25	Gene A730089	A730089K16Ri RIKEN cDNA A730089K16 gene	XR_035383.2, XR_
30	Gene Paics	ADE2H1, PAIS, phosphoribosylaminoimidazole carboxylase, phosph	NM_025939.2
30	Gene Srp72	72kDa, Srp72, signal recognition particle 72	NM_025691.1
30	Gene Rest	MGC150099, 2RE1-silencing transcription factor	NM_011263.2
30	Gene Mir5098	Mir5098, mmu microRNA 5098	NR_039557.1
31	Gene Igfbp7	Fstl2, Igfbp7, insulin-like growth factor binding protein 7	NM_008048.3, NM
23	Gene Lphn3	CIRL-3, Gm137 latrophilin 3	NM_198702.2

24	Gene Ythdc1	A730098D12Ri YTH domain containing 1	NM_177680.3
27	Gene Utp3	C87704, Crlz1, UTP3, small subunit (SSU) processome component,	NM_023054.1
19	Gene Grsf1	B130010H02, (G-rich RNA sequence binding factor 1	NM_178700.4, NM
28	Gene Mob1b	B230364F10, MOB kinase activator 1B	NM_026735.2
19	Gene Adamts3	Adamts3, 110C a disintegrin-like and metallopeptidase (reprolysin t	NM_001081401.2,
33	Gene Ankrd17	A130069E23Ri ankyrin repeat domain 17	NM_198010.2, NM
33	Gene Gm9958	ENSMUSG000(predicted gene 9958	NR_045618.1
26	Gene Rchy1	Pirh2, Rchy1, ring finger and CHY zinc finger domain containing 1	NM_026557.3
38	Gene G3bp2	KIAA0660, AA'GTPase activating protein (SH3 domain) binding pro	NM_001080794.1
28	Gene Uso1	115kDa, Uso1, USO1 vesicle docking factor	NM_019490.1
28	Gene Gm1571	Gm15710, OTI ribosomal protein L13 pseudogene	
28	Gene Sdad1	4931421J16, S SDA1 domain containing 1	NM_172713.2
28	Gene Nup54	Nup54, 31100' nucleoporin 54	NM_183392.2
28	Gene Scarb2	LGP85, MLGP8 scavenger receptor class B, member 2	NM_007644.3
20	Gene Sowahb	Ankrd56, 5730 sosondowah ankyrin repeat domain family member	NM_175270.4
28	Gene Sept11	D5Ertd606e, A septin 11	NM_001009818.1
27	Gene Ccni	Ccni cyclin I	NM_017367.3
27	Gene 2010109	2010109A12Ri RIKEN cDNA 2010109A12 gene	NM_029363.1
39	Gene Ccng2	MGC113793, C cyclin G2	NM_007635.4
22	Gene Cnot6l	Cnot6l, 49324' CCR4-NOT transcription complex, subunit 6-like	NM_144910.1, NM
21	Gene Fras1	Fras1, mKIAA1 Fraser syndrome 1 homolog (human)	NM_175473.3
23	Gene Gm9484	Gm9484 predicted gene 9484	XM_003945654.1,
23	Gene Bmp2k	4933417M22R BMP2 inducible kinase	NM_080708.1
16	Gene Paqr3	AY424292, Pac progestin and adipoQ receptor family member III	NM_198422.2
17	Gene Naa11	Ard2, C80008, N(alpha)-acetyltransferase 11, NatA catalytic subuni	NM_001033191.2
17	Gene 4930467	BB013444, 49' RIKEN cDNA 4930467D21 gene	NR_045981.1
18	Gene Antxr2	2310046B19Ri anthrax toxin receptor 2	NM_133738.1
21	Gene Fgf5	Fgf5, go, angor fibroblast growth factor 5	NM_010203.4
22	Gene 1700007	4930428O21Ri RIKEN cDNA 1700007G11 gene	NM_001024614.1
35	Gene Rasgef1l	Gpig4, Rasgef1 RasGEF domain family, member 1B	NM_145839.2, NM
21	Gene A930011	A930011G23R RIKEN cDNA A930011G23 gene	NR_030692.1
28	Gene Hnrnpd	Auf1, Hnrnpd, heterogeneous nuclear ribonucleoprotein D	NM_001077265.1
28	Gene LOC101055652	uncharacterized LOC101055652	XM_003946175.1,
50	Gene Hnrpd	JKTBP, hnRNP- heterogeneous nuclear ribonucleoprotein D-like	NM_016690.4
50	Gene Enoph1	2310057D15Ri enolase-phosphatase 1	NM_026421.3, NM
43	Gene Sec31a	ABP125, HSPC: Sec31 homolog A (S. cerevisiae)	NM_026969.1
43	Gene 5430416	100041797, Gr RIKEN cDNA 5430416N02 gene	NR_034038.1
26	Gene Helq	MGC105224, helicase, POLQ-like	NM_001081107.1
26	Gene Mrps18c	Mrps18c, 111C mitochondrial ribosomal protein S18C	NM_026826.1
26	Gene Fam175	AV118690, Ccc family with sequence similarity 175, member A	NM_172405.3
27	Gene Wdfy3	Ggtb3, Bchs, B WD repeat and FYVE domain containing 3	NM_172882.3
27	Gene LOC101055666	uncharacterized LOC101055666	XM_003945656.1,
25	Gene Aff1	Mllt2h, Af4, A\AF4/FMR2 family, member 1	NM_133919.3, NM
16	Gene Klhl8	D5Ert431e, MGC102224, 2310001P09Rik, Klhl8	NM_178741.3
23	Gene Pkd2	PC2, C030034F polycystic kidney disease 2	NM_008861.3
29	Gene Lrrc8c	fad158, Lrrc8c, leucine rich repeat containing 8 family, member C	NM_133897.2
26	Gene Lrrc8d	4930525N13Ri leucine rich repeat containing 8D	NM_178701.3, NM

22	Gene Zfp644	Zep-2, 111006: zinc finger protein 644	NM_026856.2
22	Gene LOC100504779	uncharacterized LOC100504779	XR_107723.1, XR_
27	Gene Cdc7	muCdc7, AI597: cell division cycle 7 (<i>S. cerevisiae</i>)	NM_009863.2
27	Gene Tgfbr3	TBRIII, AU0156: transforming growth factor, beta receptor III	NM_011578.3
18	Gene Evi5	Evi5, NB45 ecotropic viral integration site 5	NM_007964.2
55	Gene Rpl5	MGC117998, Ribosomal protein L5	NM_016980.2
55	Gene Fam69a	Fam69a, MGC: family with sequence similarity 69, member A	NM_026062.4
31	Gene Dr1	NC2, 1700121: down-regulator of transcription 1	NM_026106.4
18	Gene Gm1041	Gm10419, 633 predicted gene 10419	XR_168625.1, XR_
24	Gene Gak	MGC31204, G ₁ cyclin G associated kinase	NM_153569.1
24	Gene Tmem17	AI504381, Tm ϵ transmembrane protein 175	NM_028223.3, NM
22	Gene Idua	Idua, 6030426 iduronidase, alpha-L-	NM_008325.3
22	Gene Fgfr1	FGFR5beta, FG fibroblast growth factor receptor-like 1	NM_054071.2, NM
25	Gene Plcx1	Gm576, Plcx1 phosphatidylinositol-specific phospholipase C, X dor	NM_207279.2, NR
25	Gene Gtpbp6	PgbpII, Gtpbp6 GTP binding protein 6 (putative)	NM_145147.5
25	Gene Zfp605	MGC7438, A8 ϵ : zinc finger protein 605	NM_001163996.1
38	Gene Golga3	Mea-2, 53304: golgi autoantigen, golgin subfamily a, 3	NM_008146.3
38	Gene Ankle2	D5Ert585e, A ankyrin repeat and LEM domain containing 2	NM_001253814.1
42	Gene Pgam5	Pgam5, 26105: phosphoglycerate mutase family member 5	NM_028273.3, NM
42	Gene Pxmp2	22kDa, Pxmp2 peroxisomal membrane protein 2	NM_008993.2
31	Gene Lrcol1	Gm1679, ClpsI leucine rich colipase-like 1	NM_001033459.3
31	Gene Fbrs1	Fbrs1, AI4675: fibrosin-like 1	NM_028596.2, NM
40	Gene Noc4l	AI326906, MG nucleolar complex associated 4 homolog (<i>S. cerevisi</i>	NM_153570.2
40	Gene Ddx51	2310061004Ri DEAD (Asp-Glu-Ala-Asp) box polypeptide 51	NM_027156.3
40	Gene Ep400	p400, AU0234: E1A binding protein p400	NM_029337.2, NM
40	Gene Gm1555	OTTMUSG000i predicted gene 15559	XR_168628.1, XR_
40	Gene Pus1	A730013B20Ri pseudouridine synthase 1	NM_001025562.2
27	Gene Ulk1	Unc51.1, Ulk1, unc-51 like kinase 1	NM_009469.3
18	Gene Chek2	Rad53, Cds1, HUCDS1, CHK2, Chek2	NM_016681.3
25	Gene Ttc28	2310015L07Ril tetratricopeptide repeat domain 28	NM_001267622.1
24	Gene Pitpnb	AU040890, Pit phosphatidylinositol transfer protein, beta	NM_019640.4
35	Gene Mn1	AA009236, Mr meningioma 1	NM_001081235.1
24	Gene Crybb1	BB1CRY, Crybb1 crystallin, beta B1	NM_023695.2
24	Gene Tpst2	Tpst2, grm, D5 protein-tyrosine sulfotransferase 2	NM_009419.3
37	Gene Ttip11	TIP33, AW046: tuftelin interacting protein 11	NM_018783.4
19	Gene Tmem21	Tmem211, Gm transmembrane protein 211	NM_001033428.2
16	Gene Cmlr1	DEZ, Cmlr1, G chemokine-like receptor 1	NM_008153.3
33	Gene Sart3	Sart3, mKIAA0 squamous cell carcinoma antigen recognized by T ce	NM_016926.1
33	Gene Gm3511	Gm3511 40S ribosomal protein S28 pseudogene	
33	Gene Iscu	2310020H20Ri IscU iron-sulfur cluster scaffold homolog (<i>E. coli</i>)	NM_025526.4
26	Gene Coro1c	AW548837, M coronin, actin binding protein 1C	NM_011779.3
33	Gene Usp30	D5Ert483e, 6 ubiquitin specific peptidase 30	NM_001033202.3
33	Gene Alkbh2	Alkbh2, mABH alkB, alkylation repair homolog 2 (<i>E. coli</i>)	NM_175016.2
33	Gene Ung	UNG2, Ung, Uf uracil DNA glycosylase	NM_011677.2, NM
27	Gene Kctd10	MGC11654, Kc potassium channel tetramerisation domain containi	NM_026145.4, NM
27	Gene Ube3b	AI449831, Ube ubiquitin protein ligase E3B	NM_054093.2
28	Gene Mmab	Mmab, ATR, 9: methylmalonic aciduria (cobalamin deficiency) type	NM_029956.3

28	Gene Mvk	AI414037, MK, mevalonate kinase	NM_023556.2
51	Gene Fam222i	BC057022, MG family with sequence similarity 222, member A	NM_001004180.1
32	Gene Git2	Git2, 6430510IG protein-coupled receptor kinase-interactor 2	NM_001077359.1
32	Gene 4930515	4930515G01RI RIKEN cDNA 4930515G01 gene	NR_027872.1
32	Gene Ankrd13	AU046136, 11ankyrin repeat domain 13a	NM_026718.2
32	Gene Gm1934	Gm19344 predicted gene, 19344	XR_140745.1, XR_
30	Gene 1500011	1500011B03RI RIKEN cDNA 1500011B03 gene	NR_027817.1, NR_
30	Gene 2610524	2610524H06Rik	NM_181075.3
32	Gene Sppl3	Usmg3, 48334 signal peptide peptidase 3	NM_029012.2
33	Gene Acads	SCAD, AI1960C acyl-Coenzyme A dehydrogenase, short chain	NM_007383.2
33	Gene Unc119k	AA407659, Un unc-119 homolog B (C. elegans)	NM_175352.4
30	Gene Mlec	Mlec, ESTM19, malectin	NM_175403.3
30	Gene Cabp1	Cabp1, calden calcium binding protein 1	NM_013879.2
34	Gene Pop5	1500019J17Ril processing of precursor 5, ribonuclease P/MRP fami	NM_026398.4
39	Gene Rnf10	RIE2, Rnf10, m ring finger protein 10	NM_016698.2
39	Gene Coq5	1810014G04Ricoenzyme Q5 homolog, methyltransferase (yeast)	NM_026504.2
38	Gene Dynll1	Dlc8, Dynll1, P dynein light chain LC8-type 1	NM_019682.4
33	Gene Srsf9	Sfrs9, SRp30c, serine/arginine-rich splicing factor 9	NM_025573.3, NR
33	Gene Gatc	Gatc, 2010003 glutamyl-tRNA(Gln) amidotransferase, subunit C hor	NM_029645.3
33	Gene Triap1	Triap1, AU020:TP53 regulated inhibitor of apoptosis 1	NM_026933.2
33	Gene Cox6a1	Cox6a1, VlaL cytochrome c oxidase subunit VIa polypeptide 1	NM_007748.3
24	Gene Msi1	Msi1h, Musahi musashi RNA-binding protein 1	NM_008629.1
24	Gene 4930430	4930430O22RI RIKEN cDNA 4930430O22 gene	XR_168858.1, XR_
36	Gene Pxn	Pxn, AW12323 paxillin	NM_011223.2, NM
31	Gene Rplp0	MGC107166, Ribosomal protein, large, P0	NM_007475.5
31	Gene Gcn1l1	mKIAA0219, G GCN1 general control of amino-acid synthesis 1-like	NM_172719.2
26	Gene 1110006	1110006O24RI RIKEN cDNA 1110006O24 gene	NR_027810.1
26	Gene Rab35	9530019H02RIRAB35, member RAS oncogene family	NM_198163.1
33	Gene Prkab1	Prkab1, E4300 protein kinase, AMP-activated, beta 1 non-catalytic	NM_031869.2
33	Gene Gm1384	OTTMUSG000(predicted gene 13842	XR_107734.1, XR_
24	Gene Suds3	AU067672, Sursuppressor of defective silencing 3 homolog (S. cere	NM_178622.4, NM
24	Gene Taok3	Taok3, A4301C TAO kinase 3	NM_001081308.2
43	Gene Gm1039	ENSMUSG000(predicted gene 10399	XR_168605.1, XR_
43	Gene Vsig10	Vsig10, BC023 V-set and immunoglobulin domain containing 10	NM_001033311.3
30	Gene Wsb2	WSB-2, Swip2, WD repeat and SOCS box-containing 2	NM_021539.4
24	Gene Rfc5	MGC113787, 2 replication factor C (activator 1) 5	NM_028128.1
39	Gene Fbxo21	Fbxo21, AU01F-box protein 21	NM_145564.3
26	Gene Tesc	2410011K10Ri tescalcin	NM_021344.3
28	Gene Fbxw8	FBW6, Fbxw8, F-box and WD-40 domain protein 8	NM_172721.2
17	Gene Med13l	Trap240L, 903mediator complex subunit 13-like	NM_172424.4
17	Gene Tbx3	D5Ert189e, T T-box 3	NM_011535.2, NM
24	Gene Plbd2	P76, AU01981phospholipase B domain containing 2	NM_023625.4
24	Gene Slc24a6	AF261233, NCl solute carrier family 24 (sodium/potassium/calcium	NM_133221.2, NM
24	Gene Tpcn1	5730403B01Ri two pore channel 1	NM_145853.2
24	Gene Iqcd	4933433C09RI IQ motif containing D	NM_029408.2
30	Gene Dtx1	KIAA4160, Dtx deltex 1 homolog (Drosophila)	NM_008052.3
21	Gene Ptpn11	SH-PTP2, 2700 protein tyrosine phosphatase, non-receptor type 11	NM_011202.3, NM

38	Gene Rpl6	Rpl6, Taxreb1C ribosomal protein L6	NM_011290.5
23	Gene Gm1580	Gm15800, BCC predicted gene 15800	NM_181421.4
32	Gene Naa25	Mdm20, C330N(alpha)-acetyltransferase 25, NatB auxiliary subunit	NM_172722.3
43	Gene Erp29	Erp31, Erp28, endoplasmic reticulum protein 29	NM_026129.2
43	Gene Tmem114	930513P12Ri transmembrane protein 116	NM_029912.2, NM
17	Gene Mapkap1	Mapkapk5, MAP kinase-activated protein kinase 5	NM_010765.2
35	Gene Aldh2	Ahd5, Ahd-5, aldehyde dehydrogenase 2, mitochondrial	NM_009656.3
35	Gene Acad12	Acad12, 93301 acyl-Coenzyme A dehydrogenase family, member 12	NM_178799.3
20	Gene Acad10	2410021P16Ri acyl-Coenzyme A dehydrogenase family, member 10	NM_028037.4
20	Gene Brap	3010002G07Ri BRCA1 associated protein	NM_028227.2
20	Gene Atxn2	AW544490, At ataxin 2	NM_009125.2
30	Gene Sh2b3	Lnk, A1429800, SH2B adaptor protein 3	NM_008507.3
22	Gene Fam109	Ses1, A230106 family with sequence similarity 109, member A	NM_175474.3
22	Gene Cux2	1700051K22Ri cut-like homeobox 2	NM_007804.2
25	Gene Ppp1cc	dis2m1, Ppp1c protein phosphatase 1, catalytic subunit, gamma isoform	NM_013636.3
26	Gene Tctn1	Tctn1, G73003 tectonic family member 1	NM_001039153.2
25	Gene Pptc7	AA672638, TA-PTC7 protein phosphatase homolog (<i>S. cerevisiae</i>)	NM_177242.4
24	Gene Rad9b	A630082N15Rik, BC021784, Rad9b, MGC28469	NM_144912.3
30	Gene Vps29	AW049835, Vps29 vacuolar protein sorting 29 (<i>S. pombe</i>)	NM_019780.1
30	Gene Fam216	1500011H22Ri family with sequence similarity 216, member A	NM_026883.3
30	Gene Gpn3	D5Ert708e, A GPN-loop GTPase 3	NM_024216.1
20	Gene Arpc3	p21-Ar, Arpc3, actin related protein 2/3 complex, subunit 3	NM_019824.3
22	Gene Anapc7	APC7, Anapc7, anaphase promoting complex subunit 7	NM_019805.4
28	Gene Atp2a2	D5Wsu150e, AATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch	NM_009722.3, NM
30	Gene Camkk2	AW061083, Ca calcium/calmodulin-dependent protein kinase kinase 2	NM_145358.2, NM
43	Gene Anapc5	Anpc5, Anapc5 anaphase-promoting complex subunit 5	NM_021505.2, NM
27	Gene Rnf34	BC004042, MCRing finger protein 34	NM_030564.1
21	Gene Kdm2b	Cxxc2, Kdm2b, lysine (K)-specific demethylase 2B	NM_001003953.1,
17	Gene A930024	A930024E05Ri RIKEN cDNA A930024E05 gene	NR_045820.1
22	Gene Gm2479	Gm2479 predicted gene 2479	XR_168860.1, XR_
22	Gene Orai1	Tmem142a, DORAI calcium release-activated calcium modulator 1	NM_175423.3
30	Gene Tmem12	Tmem120b transmembrane protein 120B	NM_001039723.2
37	Gene Rhof	Rhof, A184505 ras homolog gene family, member f	NM_175092.3
37	Gene 4932422	4932422M17R RIKEN cDNA 4932422M17 gene	XR_140744.2, XR_
37	Gene Setd1b	KMT2G, Setd1 SET domain containing 1B	NM_001040398.2
28	Gene Psmc9	Bridge-1, Psmc proteasome (prosome, macropain) 26S subunit, non-ATPase	NM_026000.2
23	Gene Bcl7a	Bcl7a, A144831B cell CLL/lymphoma 7A	NM_029850.3
37	Gene Diablo	AU040403, 17L diablo homolog (<i>Drosophila</i>)	NM_023232.3
37	Gene Vps33a	AW554476, 38 vacuolar protein sorting 33A (yeast)	NM_029929.3
33	Gene Clip1	mKIAA4046, CLIP-GLY domain containing linker protein 1	NM_019765.4
24	Gene Rsrc2	1500011J06Ri arginine/serine-rich coiled-coil 2	NM_025438.1, NM
24	Gene Kntc1	Kntc1, D33001 kinetochore associated 1	NM_001042421.1
29	Gene Denr	1500003K04Ri density-regulated protein	NM_026603.4
23	Gene Vps37b	A1415429, 230 vacuolar protein sorting 37B (yeast)	NM_177876.4
27	Gene Ogfod2	AW552395, A12-oxoglutarate and iron-dependent oxygenase domain	NM_025671.2
27	Gene Arl6ip4	AA408365, AA-ADP-ribosylation factor-like 6 interacting protein 4	NM_144509.2
27	Gene Pitpm2	Pitpm2, Rdg phosphatidylinositol transfer protein, membrane-associated	NM_011256.2

22	Gene Mphosp	MPP9, MPP-9, M-phase phosphoprotein 9	NM_001081323.1
22	Gene Cdk2ap1	ST19, Cdkap1, CDK2 (cyclin-dependent kinase 2)-associated protein	NM_013812.2
27	Gene Sbno1	MGC28589, 93sno, strawberry notch homolog 1 (Drosophila)	NM_001081203.1
43	Gene Rilpl1	GOSPEL, Rilpl1 Rab interacting lysosomal protein-like 1	NM_021430.2
43	Gene Tmed2	1110032D12Ri transmembrane emp24 domain trafficking protein 2	NM_019770.2
26	Gene Ddx55	Ddx55, mKIAA DEAD (Asp-Glu-Ala-Asp) box polypeptide 55	NM_001190795.1
24	Gene Tctn2	4432405B04Ri tectonic family member 2	NM_026486.3
24	Gene Atp6v0a	8430408C20Ri ATPase, H+ transporting, lysosomal V0 subunit A2	NM_011596.4
31	Gene Ccdc92	D5Bwg0834e, coiled-coil domain containing 92	NM_144819.2
31	Gene Zfp664	D930038J03Ri zinc finger protein 664	NM_001081750.1
30	Gene Ncor2	N-CoR, SMRTe nuclear receptor co-repressor 2	NM_001253904.1
32	Gene Scarb1	Cd361, SRBI, scavenger receptor class B, member 1	NM_016741.2, NM
39	Gene Ubc	2700054O04Ri ubiquitin C	NM_019639.4
18	Gene Tmem13	Tmem132c, 28 transmembrane protein 132C	NM_175432.3
30	Gene Slc15a4	PHT1, C13006, solute carrier family 15, member 4	NM_133895.1
43	Gene Ran	Ran	NM_009391.3
29	Gene Sfwap	SWAP, AW212 splicing factor, suppressor of white-apricot homolog	NM_172276.3
18	Gene Mmp17	Mmp17, MT4- matrix metalloproteinase 17	NM_011846.4
25	Gene Sept14	Sept14, 17000 septin 14	NM_028826.1
25	Gene Mrps17	Mprs17, Mrps: mitochondrial ribosomal protein S17	NM_025450.4
25	Gene Gbas	Gbas, Nipsnap glioblastoma amplified sequence	NM_008095.4
32	Gene Psph	Psph, PSPase, phosphoserine phosphatase	NM_133900.4
32	Gene Cct6a	Cct6a, Cct6, Cc chaperonin containing Tcp1, subunit 6a (zeta)	NM_009838.1
32	Gene Snora15	MBI-79, Snora small nucleolar RNA, H/ACA box 15	NR_003681.1
22	Gene Phkg1	Phkg1, Phkg phosphorylase kinase gamma 1	NM_011079.2
22	Gene Chchd2	Chchd2, AL033 coiled-coil-helix-coiled-coil-helix domain containing	NM_024166.6
22	Gene 2410018	2410018M08R RIKEN cDNA 2410018M08 gene	NM_183088.2
28	Gene Rabgef1	Rabgef1, Rabe RAB guanine nucleotide exchange factor (GEF) 1	NM_019983.2, NM
28	Gene Tmem24	AW557951, A930023A16Rik, G430067H08Rik, 0610007L01Rik, Tme	NM_001081394.1
28	Gene Sbds	CGI-97, AI836C Shwachman-Bodian-Diamond syndrome homolog (f	NM_023248.1
28	Gene Tyw1	Rsafd1, AW12, tRNA-yW synthesizing protein 1 homolog (S. cerevis	NM_178897.4, NM
27	Gene Auts2	Auts2, A73001 autism susceptibility candidate 2	NM_177047.3
19	Gene Gatsl2	7530428J21Ri GATS protein-like 2	NM_030719.3
30	Gene Wbscr16	Wbscr16, AU0 Williams-Beuren syndrome chromosome region 16	NM_033572.2
30	Gene Gtf2ird2	1700012P16Ri GTF2I repeat domain containing 2	NM_053266.1
20	Gene Gtf2i	TFII-I, 6030441 general transcription factor II I	NM_001080748.1
26	Gene Clip2	Cyln2, mKIAA0 CAP-GLY domain containing linker protein 2	NM_001039162.1
26	Gene Syna	syncytin-A, Gr syncytin a	NM_001013751.2
33	Gene Eif4h	Wscr1, AU018, eukaryotic translation initiation factor 4H	NM_033561.1
24	Gene Limk1	Limk1 LIM-domain containing, protein kinase	NM_010717.2
24	Gene Gm1036	ENSMUSG000 (predicted gene 10369	XR_140754.1, XR_
19	Gene Stx1a	Stx1a, HPC-1 syntaxin 1A (brain)	NM_016801.3
33	Gene Wbscr22	MGC144443, 1 Williams Beuren syndrome chromosome region 22	NM_025375.3
33	Gene Dnajc30	Wbscr18, Dnaj DnaJ (Hsp40) homolog, subfamily C, member 30	NM_025362.3
33	Gene Vps37d	Wbscr24, Vps vacuolar protein sorting 37D (yeast)	NM_001199677.1
23	Gene Mlxip	ChREBP, Mlxip MLX interacting protein-like	NM_021455.4
32	Gene Tbl2	C76179, WS-b transducin (beta)-like 2	NM_013763.2

46	Gene Bcl7b	Bcl7b	B cell CLL/lymphoma 7B	NM_009745.2
46	Gene Baz1b	WSTF, Baz1b,	(bromodomain adjacent to zinc finger domain, 1B	NM_011714.2
33	Gene Fzd9	Fzd9, mzf9	frizzled homolog 9 (Drosophila)	NM_010246.1
17	Gene Pom121	mKIAA0618,	C nuclear pore membrane protein 121	NM_148932.2
18	Gene Hip1	MGC27616,	A huntingtin interacting protein 1	NM_146001.2
29	Gene Por	CYPOR,	49334:P450 (cytochrome) oxidoreductase	NM_008898.1
29	Gene Tmem12	Tmem120a,	2C transmembrane protein 120A	NM_172541.2
29	Gene Styx1	Dusp24,	1700C serine/threonine/tyrosine interacting-like 1	NM_029659.4
22	Gene Mdh2	MDH, Mdh2,	1 malate dehydrogenase 2, NAD (mitochondrial)	NM_008617.2
23	Gene Ywhag	14-3-3gamma,	tyrosine 3-monooxygenase/tryptophan 5-monooxyg	NM_018871.3
28	Gene Sh2b2	Aps, Sh2b2	SH2B adaptor protein 2	NM_018825.3
29	Gene Cux1	KIAA4047,	Cux cut-like homeobox 1	NM_198602.2, NM
17	Gene Col26a1	Col26a,	9430032K24Rik, MGC7475, Col26a1, Emid2, BC002218	NM_024474.2
25	Gene Rabl5	3110017O03Ri	RAB, member of RAS oncogene family-like 5	NM_026073.3
26	Gene Znhit1	2700001K05Ri	zinc finger, HIT domain containing 1	NM_027318.3
26	Gene Plod3	AI414586,	Ploc procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3	NM_011962.3
26	Gene Mir702	mmu-mir-702,	microRNA 702	NR_030483.1
21	Gene Vgf	Gm1052,	Vgf VGF nerve growth factor inducible	NM_001039385.1
21	Gene Ap1s1	Ap1s1, AP19	adaptor protein complex AP-1, sigma 1	NM_007457.2
23	Gene Ache	mE1b,	mE1c-lc acetylcholinesterase	NM_009599.3
23	Gene Ufsp1	Ufsp1,	270003 UFM1-specific peptidase 1	NM_027356.2
23	Gene Srrt	Ars2, Asr2,	281 serrate RNA effector molecule homolog (Arabidopsi	NM_031405.2, NM
23	Gene Trip6	Trip6		NM_011639.3
23	Gene Slc12a9	Slc12a9,	CIP1 solute carrier family 12 (potassium/chloride transpo	NM_031406.3
25	Gene Ephb4	Tyro11,	Ephb4 Eph receptor B4	NM_010144.6, NM
22	Gene Pop7	AI852017,	061 processing of precursor 7, ribonuclease P family, (S.	NM_028753.2
33	Gene Gigyf1	KIAA4110,	mKI GRB10 interacting GYF protein 1	NM_031408.2
33	Gene Gnb2	Gnb-2,	Gnb2 guanine nucleotide binding protein (G protein), beta	NM_010312.4
30	Gene Fbxo24	Fbx24,	Fbxo24 F-box protein 24	NM_027708.1
30	Gene Lrch4	LRN,	LRRN4, Lr leucine-rich repeats and calponin homology (CH) do	NM_146164.2, NM
30	Gene Gm2060	Lrch4-sap25,	C predicted gene 20605	NR_033148.1
24	Gene Nyap1	NYAP1,	64305! neuronal tyrosine-phosphorylated phosphoinositide	NM_175521.3
24	Gene Tsc22d4	1700023B23Ri	TSC22 domain family, member 4	NM_023910.6, NM
30	Gene Ppp1r35	2010011D20Ri	protein phosphatase 1, regulatory subunit 35	NM_027242.4
30	Gene Mepce	Bcdin3,	MGC2 methylphosphate capping enzyme	NM_144913.3
30	Gene Zcwpw1	Gm1053,	MGC zinc finger, CW type with PWWP domain 1	NM_001005426.2
27	Gene Zkscan1	PHZ-37,	AI646: zinc finger with KRAB and SCAN domains 1	NM_029869.1, NM
36	Gene Cops6	VIP/MOV34,	C COP9 (constitutive photomorphogenic) homolog, su	NM_012002.3
36	Gene Mcm7	Mcm7,	AI7475 minichromosome maintenance deficient 7 (S. cerevi	NM_008568.2
36	Gene Mir25	Mir25,	Mirn25 microRNA 25	NR_029787.1
36	Gene Mir93	Mirn93,	Mir93 microRNA 93	NR_029749.1
36	Gene Mir106b	Mirn106b,	Mir microRNA 106b	NR_029658.1
36	Gene Ap4m1	4930443L05Ri	l adaptor-related protein complex AP-4, mu 1	NM_021392.4
36	Gene Taf6	Taf2e,	TAFII70, TAF6 RNA polymerase II, TATA box binding protein (	NM_009315.3
22	Gene Lamtor4	0910001L09Ri	late endosomal/lysosomal adaptor, MAPK and MTO	NM_001081108.2
22	Gene BC03703	MGC47434,	BC cDNA sequence BC037034	NM_153161.3
22	Gene 6330418	6330418K02Ri	RIKEN cDNA 6330418K02 gene	NR_045821.1

22	Gene Gal3st4	1500031A01Ri galactose-3-O-sulfotransferase 4	NM_001033416.2
22	Gene Gpc2	2410016G05Ri glypican 2 (cerebroglycan)	NM_172412.2
27	Gene Zfp157	2610020C11Ri zinc finger protein 157	NM_028130.3
32	Gene Fam20c	DMP4, GEF-CK family with sequence similarity 20, member C	NM_030565.6
30	Gene Pdgfa	Pdgfa	NM_008808.3
31	Gene Heatr2	C76907, MGC6 HEAT repeat containing 2	NM_001081265.1
43	Gene Sun1	Sun1, KIAA081 Sad1 and UNC84 domain containing 1	NM_001256115.1
15	Gene Cyp2w1	Cyp2w1, Gm4 cytochrome P450, family 2, subfamily w, polypeptid	NM_001160265.1
38	Gene 3110082	AW411904, 31 RIKEN cDNA 3110082I17 gene	NM_028469.3
38	Gene Mir339	Mir339, Mirn3 microRNA 339	NR_029768.1
38	Gene D830046	D830046C22Ri RIKEN cDNA D830046C22 gene	NR_033147.1
38	Gene Gpr146	BC003323, PGIG protein-coupled receptor 146	NM_030258.4, NM
23	Gene Zfand2a	Airap, Zfand2a zinc finger, AN1-type domain 2A	NM_133349.3, NM
21	Gene 4930500	4930500L23Ri RIKEN cDNA 4930500L23 gene	NR_040701.1
21	Gene Uncx	Chx4, Uncx, Ur UNC homeobox	NM_013702.3
25	Gene Ints1	1110015K06Ri integrator complex subunit 1	NM_026748.2
29	Gene Mafk	Mafk, AW0610 v-maf musculoaponeurotic fibrosarcoma oncogene	NM_010757.2
20	Gene Tmem18	MGC37596, Sc transmembrane protein 184a	NM_144914.3, NM
23	Gene Psmg3	4930403H09Ri proteasome (prosome, macropain) assembly chaper	NM_025604.3
18	Gene Eln1	Elf1, A93001 leucine rich repeat and fibronectin type III, extracell	NM_175522.3
20	Gene Mad1l1	AW550425, AI MAD1 mitotic arrest deficient 1-like 1	NM_010752.3
20	Gene Ftsj2	2310037B18Ri FtsJ homolog 2 (E. coli)	NM_026510.1
20	Gene Nudt1	Mth1, Nudt1 nudix (nucleoside diphosphate linked moiety X)-type	NM_008637.1
31	Gene Eif3b	EIF3-P116, EIF eukaryotic translation initiation factor 3, subunit B	NM_133916.2
37	Gene Lfng	AW061165, Lfi LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyl	NM_008494.3
37	Gene Gm1009	ENSMUSG000 (predicted gene 10091	XR_140758.1, XR_
35	Gene Ttyh3	AI414930, 290 tweety homolog 3 (Drosophila)	NM_175274.4
36	Gene Iqce	mKIAA1023, Iq IQ motif containing E	NM_028833.3
36	Gene Brat1	Brat1, AA8814 BRCA1-associated ATM activator 1	NM_181066.2, NM
27	Gene Gna12	AI504261, Gna guanine nucleotide binding protein, alpha 12	NM_010302.2
40	Gene Foxk1	A630048H08R forkhead box K1	NM_199068.2
40	Gene Ap5z1	KIAA0415, C33 adaptor-related protein complex 5, zeta 1 subunit	NM_172725.2
34	Gene Radil	AI536456, Rad Ras association and DIL domains	NM_178702.3
51	Gene Tnrc18	EG381742, Zfp trinucleotide repeat containing 18	NM_178242.2, NM
40	Gene Fbxl18	C330021B20Ri F-box and leucine-rich repeat protein 18	NM_001033312.3
40	Gene Actb	Actb, E430023 actin, beta	NM_007393.3
55	Gene Fscn1	Fan1, Fscn1, A fascin homolog 1, actin bundling protein (Strongyloc	NM_007984.2
27	Gene Zfp12	Zfp-12, Znf12, zinc finger protein 12	NM_177681.3
27	Gene Zfp316	Znf316, Emzf1, zinc finger protein 316	NM_017467.3
20	Gene Zfp853	Zfp853, Gm79 zinc finger protein 853	XM_001479487.3,
35	Gene E130309	A630028N22, RIKEN cDNA E130309D02 gene	NM_172726.4
35	Gene Zdhhc4	1810021D01Ri zinc finger, DHHC domain containing 4	NM_028379.5
30	Gene 0610040	0610040B10Ri RIKEN cDNA 0610040B10 gene	NR_027874.1
33	Gene Kdelr2	1110007A14Ri KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum prote	NM_025841.4
30	Gene Rac1	D5Ert559e, A RAS-related C3 botulinum substrate 1	NM_009007.2
32	Gene Cyth3	KIAA4241, ARN cytohesin 3	NM_011182.4, NM
20	Gene Ccz1	MGC56855, AI CCZ1 vacuolar protein trafficking and biogenesis ass	NM_177682.3

20	Gene Ocm	Ocm	NM_033039.3
28	Gene Lmtk2	KPI-2, BREK, Lr lemur tyrosine kinase 2	NM_001081109.1
21	Gene Bri3	Bri3, I3 brain protein I3	NM_018772.4, NM
21	Gene Baiap2l1	1300006M19R BAI1-associated protein 2-like 1	NM_025833.3
20	Gene 4930568	4930568B11Ri RIKEN cDNA 4930568B11 gene	XM_003945396.1
20	Gene Nptx2	Narp, np2, Npt neuronal pentraxin 2	NM_016789.3
28	Gene Tmem13	C130036G08, T transmembrane protein 130	NM_177735.4
28	Gene Trrap	Trrap, AI4815C transformation/transcription domain-associated pro	NM_001081362.1
22	Gene Smurf1	mKIAA1625, 4 SMAD specific E3 ubiquitin protein ligase 1	NM_029438.3, NM
30	Gene Arpc1a	1110030K07Ri actin related protein 2/3 complex, subunit 1A	NM_019767.2
30	Gene Arpc1b	41kDa, AA408 actin related protein 2/3 complex, subunit 1B	NM_023142.2
36	Gene Pdap1	HASPP28, PAP, PDGFA associated protein 1	NM_001033313.3
36	Gene Bud31	G10, EDG-2, EI BUD31 homolog (yeast)	NM_001008705.1
36	Gene Ptdc1	1110069M14R pentatricopeptide repeat domain 1	NM_133735.2
18	Gene Cpsf4	MGC36996, C cleavage and polyadenylation specific factor 4	NM_178576.2
27	Gene Zkscan5	AI326970, Zksc zinc finger with KRAB and SCAN domains 5	NM_016683.2, NM
27	Gene Zfp655	mKIAA4222, K zinc finger protein 655	NM_028298.3, NM
32	Gene Zscan25	EG666311, Zsc zinc finger and SCAN domain containing 25	NM_001081431.1
25	Gene Rnf6	1200013I08Ri ring finger protein (C3H2C3 type) 6	NM_001256085.1
25	Gene Cdk8	Cdk8, MGC371 cyclin-dependent kinase 8	NM_153599.3
38	Gene Rpl21	MGC107587, L ribosomal protein L21	NM_019647.6
24	Gene Gtf3a	5330403M05R general transcription factor III A	NM_025652.3
24	Gene Mtif3	Mtif3, 281001 mitochondrial translational initiation factor 3	NM_001256100.1
26	Gene Lnx2	Ln timer, 9630046 ligand of numb-protein X 2	NM_080795.4
26	Gene Polr1d	Rpo1-3, MGC1 polymerase (RNA) I polypeptide D	NM_009087.1, NM
26	Gene D5Ert6	D5Ert605e, G DNA segment, Chr 5, ERATO Doi 605, expressed	NR_033625.1
26	Gene Pan3	2700050F09Ri PAN3 polyA specific ribonuclease subunit homolog (	NM_028291.4
16	Gene Flt1	Flt-1, sFlt1, AI3 FMS-like tyrosine kinase 1	NM_010228.3
29	Gene Pomp	2510048O06Ri proteasome maturation protein	NM_025624.2
41	Gene Slc7a1	Slc7a1, Cat1, R solute carrier family 7 (cationic amino acid transport	NM_007513.4
31	Gene Katnal1	MGC40859, K katanin p60 subunit A-like 1	NM_153572.2
25	Gene Hmgb1	MGC117896, H high mobility group box 1	NM_010439.3
22	Gene 2310047	2310047D07Ri RIKEN cDNA 2310047D07 gene	XR_107763.1, XR_
29	Gene Hsp1	Hsp105, Hsp11 heat shock 105kDa/110kDa protein 1	NM_013559.2
29	Gene Gm2000	Gm20005 predicted gene, 20005	XR_107764.1, XR_
20	Gene Gm5566	Gm5566, EG4 predicted pseudogene 5566	XM_975873.3, XM
20	Gene B3galt1	B3galt1, Gm10 beta 1,3-galactosyltransferase-like	NM_001081204.1
20	Gene N4bp2l1	AI428195, 241 NEDD4 binding protein 2-like 1	NM_133898.4
25	Gene N4bp2l2	zag1, 2700092 NEDD4 binding protein 2-like 2	NM_201369.3
25	Gene Pds5b	Aprin, AS3, AV PDS5, regulator of cohesion maintenance, homolog	NM_175310.6
26	Gene Kl	alpha-kl, Kl klotho	NM_013823.2
19	Gene Casd1	Cas1, MGC684 CAS1 domain containing 1	NM_145398.2
26	Gene Gm9835	ENSMUSG000 predicted pseudogene 9835	XM_003086510.1,
26	Gene Ppp1r9a	5330407E15, P protein phosphatase 1, regulatory (inhibitor) subuni	NM_181595.3
24	Gene Slc25a13	Ctrn, Slc25a13 solute carrier family 25 (mitochondrial carrier, aden	NM_001177572.1,
24	Gene LOC101056138	uncharacterized LOC101056138	XM_003945398.1,
19	Gene Dlx5	Dlx5, AI385752 distal-less homeobox 5	NM_010056.2, NM

34	Gene Mios	Mios, MGC255 missing oocyte, meiosis regulator, homolog (Drosop	NM_145374.2
18	Gene Phf14	5730446A07Ri PHD finger protein 14	NM_001168382.1
18	Gene Tmem106B	AI661344, 643 transmembrane protein 106B	NM_027992.3
36	Gene Tmem168	8430437G11Ri transmembrane protein 168	NM_028990.4
18	Gene Gpr85	2900026B03Ri G protein-coupled receptor 85	NM_145066.4
21	Gene Foxp2	Foxp2, 281004 forkhead box P2	NM_212435.1, NM
22	Gene Mdfic	Mdfic, Mdfid, IMyoD family inhibitor domain containing	NM_175088.5
22	Gene Gm1547	OTTMUSG000I predicted gene 15473	XR_107770.1, XR_
22	Gene Tes	testin2, Tes2, I testis derived transcript	NM_207176.3
21	Gene Ctnnbp2	ORF4, AU0408 cortactin binding protein 2	NM_080285.1
19	Gene Kcnd2	Kcnd2, mKIAA: potassium voltage-gated channel, Shal-related famil	NM_019697.3
25	Gene Wasl	Wasl, 2900021Wiskott-Aldrich syndrome-like (human)	NM_028459.2, NM
18	Gene Tmem229a	Tmem229a, 63 transmembrane protein 229A	NM_177013.3
18	Gene Gpr37	Gpr37, Pael-R, G protein-coupled receptor 37	NM_010338.2
25	Gene Zfp800	Znf800, AA407 zinc finger protein 800	NM_001081678.1
24	Gene Snd1	Snd1, AL03331 staphylococcal nuclease and tudor domain containir	NM_019776.2
24	Gene Lrrc4	Lrrc4, Nag14, I leucine rich repeat containing 4	NM_138682.2
20	Gene Rbm28	AI503051, MG RNA binding motif protein 28	NM_133925.2
20	Gene Prrt4	D330027H18R proline-rich transmembrane protein 4	NM_001101443.1
34	Gene Ccdc136	MGC8047, Ccd coiled-coil domain containing 136	NM_001201378.1
34	Gene Flnc	1110055E19Ri filamin C, gamma	NM_001081185.1
24	Gene Irf5	mirf5, Irf5, AW interferon regulatory factor 5	NM_001252382.1,
29	Gene Smo	smoothened, S smoothened homolog (Drosophila)	NM_176996.4
20	Gene Ahcyl2	KIAA0828, AI2: S-adenosylhomocysteine hydrolase-like 2	NM_001171001.1
18	Gene Nrf1	C87038, D6Ert nuclear respiratory factor 1	NM_001164226.1
18	Gene Ube2h	Ubc8, 1500009 ubiquitin-conjugating enzyme E2H	NM_009459.3, NM
27	Gene Mest	Mest, AI25674 mesoderm specific transcript	NM_001252292.1
27	Gene Mir335	mmu-mir-335, microRNA 335	NR_029900.1
27	Gene Copg2	AW227625, Cc coatomer protein complex, subunit gamma 2	NM_017478.2
22	Gene Klf14	5330411L03Ril Kruppel-like factor 14	NM_001135093.1
23	Gene Gm1384	OTTMUSG000I predicted gene 13845	NR_040300.1
23	Gene Mkn1	Mkn1, AU015I muskelin 1, intracellular mediator containing kelch r	NM_013791.2
22	Gene Podxl	PC, Ly102, AW podocalyxin-like	NM_013723.3
33	Gene Slc35b4	AW494345, AE solute carrier family 35, member B4	NM_021435.3
30	Gene Akr1b3	Akr1b1, Aldr1, aldo-keto reductase family 1, member B3 (aldose re	NM_009658.3
23	Gene Cald1	MGC30319, Cα caldesmon 1	NM_145575.3
23	Gene Agbl3	Agbl3, 653040 ATP/GTP binding protein-like 3	NM_178630.3
29	Gene Nup205	mKIAA0225, 3I nucleoporin 205	NM_027513.1
32	Gene Mtpn	Mtpn, Gcdp, V myotrophin	NM_008098.4
37	Gene Creb3l2	BBF2H7, Creb3 cAMP responsive element binding protein 3-like 2	NM_178661.4
31	Gene Trim24	TIF1, D430004 tripartite motif-containing 24	NM_145076.3
31	Gene Zc3hav1	E430016P22Ri zinc finger CCCH-type, antiviral 1-like	NM_172467.3
36	Gene Zc3hav1	ARTD13, Zc3hα zinc finger CCCH type, antiviral 1	NM_028864.2, NM
36	Gene Ttc26	9430097H08Ri tetratricopeptide repeat domain 26	NM_153600.2
36	Gene Ubn2	mKIAA2030, D ubinuclein 2	NM_177185.4
21	Gene Klrg2	Klrg2, 231002C killer cell lectin-like receptor subfamily G, member 2	NM_001033171.2
29	Gene Hipk2	B230339E18Ri homeodomain interacting protein kinase 2	NM_010433.2, NM

21	Gene Parp12	Zc3hdc1, ARTC poly (ADP-ribose) polymerase family, member 12	NM_172893.3
21	Gene 4930599	4930599N23Ri RIKEN cDNA 4930599N23 gene	NR_045813.1
32	Gene Jhdm1d	BB041802, EN: jumonji C domain-containing histone demethylase 1	NM_001033430.4
24	Gene Slc37a3	Slc37a3, 26105 solute carrier family 37 (glycerol-3-phosphate transp	NM_028123.3
24	Gene Rab19	Rab19 RAB19, member RAS oncogene family	NM_011226.1
31	Gene Mkrn1	RFP, Mkrn1 makorin, ring finger protein, 1	NM_018810.2
18	Gene Dennd2a	C130031G22, r DENN/MADD domain containing 2A	NM_172477.4
16	Gene Braf	Braf2, Braf, C8 Braf transforming gene	NM_139294.5
32	Gene Zyx	9530098H06Ri zyxin	NM_011777.2
32	Gene Epha1	Eph, 5730453L Eph receptor A1	NM_023580.4
23	Gene A930035	A930035D04Ri RIKEN cDNA A930035D04 gene	XM_003945405.1,
23	Gene Cul1	Cul1	NM_012042.3
23	Gene Ezh2	Ezh2, Enx-1, Kl enhancer of zeste homolog 2 (Drosophila)	NM_007971.2, NM
32	Gene Zfp786	Zfp786, A7300 zinc finger protein 786	NM_177882.4
32	Gene Zfp398	6430539K21, Z zinc finger protein 398	NM_027477.3, NM
19	Gene Zfp282	E430019K09Ri zinc finger protein 282	NM_146175.3
34	Gene Zfp212	Zfp212, Znf212 Zinc finger protein 212	NM_145576.2, NM
26	Gene Zfp783	A230106D06Ri zinc finger protein 783	NR_027963.1
26	Gene Zfp956	AI894139, Zfp9 zinc finger protein 956	NM_178898.4
32	Gene Zfp777	2500002G23Ri zinc finger protein 777	NM_001081382.1
25	Gene Zfp467	MNCb-3350, 1 zinc finger protein 467	NM_001085417.1
25	Gene Sspo	Scospondin, C:SCO-spondin	NM_173428.3
29	Gene Gm5111	EG330305, M: predicted gene 5111	NM_183309.3
29	Gene Repin1	Ap4, AI425994 replication initiator 1	NM_001079901.1
33	Gene Malsu1	Malsu1, 24100 mitochondrial assembly of ribosomal large subunit 1	NM_029353.1
23	Gene Igf2bp3	MGC61294, A: insulin-like growth factor 2 mRNA binding protein 3	NM_023670.3
31	Gene Tra2a	mAWMS1, G4: transformer 2 alpha homolog (Drosophila)	NM_198102.2
20	Gene Osbpl3	1200014M06R oxysterol binding protein-like 3	NM_027881.3, NM
19	Gene 5430402	5430402O13Ri RIKEN cDNA 5430402O13 gene	NR_015581.1, NR_
19	Gene 4921507	TISP74, 4921507Ri RIKEN cDNA 4921507P07 gene	NM_027564.3
40	Gene Mir148a	Mirn148a, Mir microRNA 148a	NR_029719.1
19	Gene Nfe2l3	Nrf3, Nfe2l3 nuclear factor, erythroid derived 2, like 3	NM_010903.1
21	Gene Hoxa1	Hoxa1, Hox-1.1 homeobox A1	NM_010449.4
21	Gene Gm1505	Gm15051, OT: predicted gene 15051	XR_107796.1, XR_
21	Gene Hoxa2	MGC151482, H homeobox A2	NM_010451.1
21	Gene LOC100503966	uncharacterized LOC100503966	XM_003084645.2,
22	Gene Hoxa3	Hoxa3, Mo-10, homeobox A3	NM_010452.3
22	Gene 2700086	2700086A05Ri RIKEN cDNA 2700086A05 gene	NR_015611.2
22	Gene Hoxa5	Hox-1.3, Hoxa5 homeobox A5	NM_010453.5
22	Gene Hoxa6	Hox-1.2, Hoxa6 homeobox A6	NM_010454.1
22	Gene Mira	Mira mistral long non-coding RNA	NR_045199.1
22	Gene Hoxa7	AV118143, Ho: homeobox A7	NM_010455.2
22	Gene Hoxa9	Hoxa9, D6a9, H homeobox A9	NM_010456.2
22	Gene Mir196b	Mirn196b, Mir microRNA 196b	NR_029912.1
22	Gene Hoxa10	Hox-1.8, Hoxa10 homeobox A10	NM_008263.3, NM
16	Gene Hoxa11	Hoxa11, Hox-1 homeobox A11	NM_010450.2
30	Gene Hibadh	AI265272, Hib: 3-hydroxyisobutyrate dehydrogenase	NM_145567.1

32	Gene Tax1bp1	1200003J11Ri	Tax1 (human T cell leukemia virus type I) binding pr	NM_025816.3
36	Gene Tril	mKIAA0644,	A TLR4 interactor with leucine-rich repeats	NM_025817.4
18	Gene Chn2	1700026N20Ri	chimerin (chimaerin) 2	NM_023543.2, NM
27	Gene 9130019	OTTMUSG000i	RIKEN cDNA 9130019P16 gene	NR_033635.1
17	Gene Scrn1	mKIAA0193,	Klsecernin 1	NM_027268.2
27	Gene Fkbp14	BC029109,	Fkl FK506 binding protein 14	NM_153573.1
27	Gene Plekha8	Fapp-2,	Plekha pleckstrin homology domain containing, family A (pl	NM_001001335.2
20	Gene Nod1	Card4,	Nlrc1, C nucleotide-binding oligomerization domain containi	NM_172729.3, NM
34	Gene Gars	Sgrp23,	Nmf24glycyl-tRNA synthetase	NM_180678.3
26	Gene Adcyap1	PAC1,	AI84659adenylate cyclase activating polypeptide 1 receptor	NM_007407.3, NM
27	Gene Avl9	D730049P16Ri	AVL9 homolog (S. cerevisiae)	NM_030235.1
27	Gene Nt5c3	3110004A18Ri	5'-nucleotidase, cytosolic III	NM_026004.3, NM
17	Gene Herc3	MGC30404,	m hect domain and RLD 3	NM_028705.3
20	Gene Smarcd	D6Pas1,	mKIA/SWI/SNF-related, matrix-associated actin-dependen	NM_007958.1, NM
25	Gene Ndnf	epidermacan,	A930038C07Rik, Ndnf	NM_172399.3
33	Gene 4930597	4930597O21Ri	RIKEN cDNA 4930597O21 gene	XM_989547.2
33	Gene Gng12	Gng12,	AI8427guanine nucleotide binding protein (G protein), gam	NM_001177556.1
31	Gene Gadd45	AA545191,	Dd growth arrest and DNA-damage-inducible 45 alpha	NM_007836.1
31	Gene E230016	E230016M11R	RIKEN cDNA E230016M11 gene	NR_040278.1
37	Gene Serbp1	9330147J08Ri	serpine1 mRNA binding protein 1	NM_025814.2, NM
25	Gene Rmnd5a	1110007A06Ri	required for meiotic nuclear division 5 homolog A (S	NM_024288.2
27	Gene Rnf103	AW146237,	kf: ring finger protein 103	NM_009543.2
21	Gene Chmp3	9130011K15Rik,	4921505F14Rik, CGI-49, 25.1, D6Ertd286e, Vps24,	NM_025783.3
27	Gene Kdm3a	Jmjd1a,	Tsga, r lysine (K)-specific demethylase 3A	NM_001038695.2
21	Gene Reep1	C87808,	D6Ert receptor accessory protein 1	NM_178608.4
29	Gene St3gal5	3S-T,	Siat9, [a] ST3 beta-galactoside alpha-2,3-sialyltransferase 5	NM_001035228.1,
31	Gene Atoh8	Atoh8,	493342atonal homolog 8 (Drosophila)	NM_153778.3
28	Gene Usp39	Usp39,	CGI-21, ubiquitin specific peptidase 39	NM_138592.4
28	Gene 0610030	1500031N04Ri	RIKEN cDNA 0610030E20 gene	NM_026696.1
28	Gene Tmem15	MGC25977,	Tr transmembrane protein 150A	NM_144916.3
19	Gene Rnf181	C77350,	2500C ring finger protein 181	NM_025607.3
19	Gene Vamp5	Camp,	AF1193 vesicle-associated membrane protein 5	NM_016872.4, NM
17	Gene Vamp8	AU041171,	en vesicle-associated membrane protein 8	NM_016794.3
42	Gene Ggcx	Ggcx		NM_019802.4
42	Gene Mat2a	Mat2a,	MGC6: methionine adenosyltransferase II, alpha	NM_145569.4
42	Gene 4930414	4930414L22Ri	RIKEN cDNA 4930414L22 gene	NR_046011.1
30	Gene Tcf7l1	Tcf7l1,	Tcf-3, b transcription factor 7 like 1 (T cell specific, HMG box	NM_009332.2, NM
30	Gene Kcmf1	Kcmf1,	170009 potassium channel modulatory factor 1	NM_019715.2
29	Gene Tmsb10	TB10,	Ptmb10, thymosin, beta 10	NM_001039392.2
28	Gene Hk2	AI642394,	Hk2 hexokinase 2	NM_013820.3
32	Gene Loxl3	Lor2,	Loxl3, Lo lysyl oxidase-like 3	NM_013586.4
32	Gene Htra2	Htra2,	AI48171HtrA serine peptidase 2	NM_019752.3
32	Gene Aup1	AA589454,	Au ancient ubiquitous protein 1	NM_007517.3
32	Gene Dqx1	Dqx1,	2310066 DEAQ RNA-dependent ATPase	NM_033606.3
16	Gene Tlx2	Ncx1,	Tlx1l1, HT cell leukemia, homeobox 2	NM_009392.2
16	Gene Pcgf1	2010002K04Ri	polycomb group ring finger 1	NM_197992.1
32	Gene Ccdc142	A230058J24Ri	coiled-coil domain containing 142	NM_001081266.1

32	Gene Mrpl53	Mrpl53, 11100 mitochondrial ribosomal protein L53	NM_026744.3
30	Gene Mogs	Mogs, Gcs1, 1 β mannosyl-oligosaccharide glucosidase	NM_020619.2
30	Gene Wbp1	Wbp1, AI2551: WW domain binding protein 1	NM_001083923.1,
30	Gene Ino80b	Papa1, Ino80b INO80 complex subunit B	NM_023547.1
22	Gene Rtkn	Rtkn rhotekin	NM_133641.2, NM
19	Gene Wdr54	1700030E05Ri WD repeat domain 54	NM_023790.2
19	Gene 1700003	AU041756, MCRIKEN cDNA 1700003E16 gene	NM_027948.1
19	Gene Dctn1	AL022633, Dct dynactin 1	NM_007835.2, NM
34	Gene Mthfd2	Mthfd2, AW55 methylenetetrahydrofolate dehydrogenase (NAD+ d	NM_008638.2
34	Gene Mob1a	Mobkl1b, Mob MOB kinase activator 1A	NM_145571.2
21	Gene Bola3	Bola3, 181005 bolA-like 3 (E. coli)	NM_175277.4
30	Gene Tet3	BC037432, D2: tet methylcytosine dioxygenase 3	NM_183138.2
30	Gene B230319	B230319C09Ri RIKEN cDNA B230319C09 gene	NR_028382.1
20	Gene Cyp26b1	P450RAI-2, Cyp cytochrome P450, family 26, subfamily b, polypeptic	NM_001177713.1,
34	Gene Exoc6b	4930569O18Ri exocyst complex component 6B	NM_177077.2
24	Gene Sfxn5	C230001H08Ri sideroflexin 5	NM_178639.4
34	Gene Rab11fip	9130206P09Ri RAB11 family interacting protein 5 (class I)	NM_001003955.2
24	Gene Mir705	Mirn705, Mir7 microRNA 705	NR_030486.1
31	Gene Noto	MmNot, Flh, N notochord homolog (Xenopus laevis)	NM_001007472.2
31	Gene Smyd5	NN8-4AG, Rrg: SET and MYND domain containing 5	NM_144918.2
21	Gene Fbxo41	Fbxo41, 96300 F-box protein 41	NM_001001160.2
21	Gene Egr4	pAT133, Egr4, early growth response 4	NM_020596.2
18	Gene Alms1	bbb, Alms1	NM_145223.2
20	Gene Figla	bHLHc8, Figla folliculogenesis specific basic helix-loop-helix	NM_012013.1
22	Gene Tgfa	wa1, Tgfa, wa- transforming growth factor alpha	NM_031199.3
29	Gene Fam136	2010309E21Ri family with sequence similarity 136, member A	NM_025591.2
29	Gene Snrpg	AL022803, 281small nuclear ribonucleoprotein polypeptide G	NM_026506.2
38	Gene Pcyox1	AI115532, AI4: prenylcysteine oxidase 1	NM_025823.4
38	Gene Tia1	AI256674, 231 cytotoxic granule-associated RNA binding protein 1	NM_011585.4, NM
31	Gene Pcbp1	[a]CP-1, Pcbp1 poly(rC) binding protein 1	NM_011865.3
31	Gene 1600020	1600020E01Ri RIKEN cDNA 1600020E01 gene	NR_037960.1, NR_
37	Gene Gmcl1	Gcl, mgcl-1, Gr germ cell-less homolog 1 (Drosophila)	NM_011818.3
37	Gene Anxa4	Xanx-4, AI265: annexin A4	NM_013471.2
24	Gene Gfpt1	AI324119, GFA glutamine fructose-6-phosphate transaminase 1	NM_013528.3
28	Gene Gm1961	Gm19618 predicted gene, 19618	XM_003086534.1,
28	Gene Efcc1	Ccdc48, Efcc1 EF hand and coiled-coil domain containing 1	NM_001159697.1
33	Gene Rab43	1810048P08Ri RAB43, member RAS oncogene family	NM_133717.2, NM
33	Gene Isy1	AI181014, AUC ISY1 splicing factor homolog (S. cerevisiae)	NM_133934.4
26	Gene Copg1	Copg, MGC66965, Copg1, D6Wsu16e, BC056168, D6Ert71e, AU01	NM_201244.1, NM
26	Gene 8430410	8430410A17Ri RIKEN cDNA 8430410A17 gene	NM_173737.2
33	Gene H1fx	Gm461, H1X, FH1 histone family, member X	NM_198622.1
33	Gene Gm5577	EG434064, Gr predicted gene 5577	NR_026990.1
36	Gene Rpn1	Rpn1, Rpn-1, A ribophorin I	NM_133933.4
22	Gene Kbtbd12	4933428M03R kelch repeat and BTB (POZ) domain containing 12	NM_029013.2, NM
27	Gene Mgl1	AA589436, Ma monoglyceride lipase	NM_001166249.1
38	Gene Mcm2	Mcmd2, mKIA: minichromosome maintenance deficient 2 mitotin (	NM_008564.2
38	Gene Tpra1	Gpr175, 40kDa: transmembrane protein, adipocyte associated 1	NM_011906.2

24	Gene Plxna1	PlexA1, Plxna1 plexin A1	NM_008881.2
22	Gene Txnrd3	Tgr, A196535, thioredoxin reductase 3	NM_153162.3, NM
37	Gene Uroc1	A1265605, MG urocanase domain containing 1	NM_144940.2
37	Gene Zxdc	B930086F11Ri ZXD family zinc finger C	NM_030260.3, NM
29	Gene Klf15	KKLF, AV04813 Kruppel-like factor 15	NM_023184.3
28	Gene Iqsec1	BRAG2, D6Ertc IQ motif and Sec7 domain 1	NM_001134383.1
20	Gene Nup210	gp210, Pom21 nucleoporin 210	NM_018815.2
32	Gene Slc6a6	AA589629, Tau solute carrier family 6 (neurotransmitter transporter	NM_009320.4
24	Gene 9530026	B430306B02, RIKEN cDNA 9530026P05 gene	NR_015530.2
22	Gene Slc25a2	Slc25a6, AW5E solute carrier family 25 (mitochondrial carrier, phos	NM_026255.5
36	Gene Lrig1	Img, Lrig1, D6E leucine-rich repeats and immunoglobulin-like domain	NM_008377.2
27	Gene Kbtbd8	SSEC-51, mKIAA kelch repeat and BTB (POZ) domain containing 8	NM_001008785.4
27	Gene Suclg2	AW556404, Succinate-Coenzyme A ligase, GDP-forming, beta subunit	NM_011507.2
21	Gene Eogt	Eogt, A144749 EGF domain-specific O-linked N-acetylglucosamine (	NM_175313.4
28	Gene Tmf1	Gm153, Tmf1 TATA element modulatory factor 1	NM_001081111.2
28	Gene Uba3	Uba3, Ube1c, ubiquitin-like modifier activating enzyme 3	NM_011666.2, NM
24	Gene Frmd4b	GRSP1, 60304 FERM domain containing 4B	NM_145148.2
25	Gene Eif4e3	A1451927, Eif4 eukaryotic translation initiation factor 4E member 3	NM_025829.4
19	Gene Gpr27	Gpr27	NM_008158.1
22	Gene Rybp	YEA1, MGC62 RING1 and YY1 binding protein	NM_019743.3
36	Gene Shq1	Grim-1, Shq1, SHQ1 homolog (S. cerevisiae)	NM_181590.4
25	Gene Pdzn3	SEMAD3, Pc PDZ domain containing RING finger 3	NM_018884.2
32	Gene Trnt1	2410043H24Ri tRNA nucleotidyl transferase, CCA-adding, 1	NM_001242360.1
32	Gene Crbn	Crbn, AW1082 cereblon	NM_175357.2, NM
31	Gene Sumf1	Sumf1, A18515 sulfatase modifying factor 1	NM_145937.3
35	Gene Arl8b	gie1, 2610313 ADP-ribosylation factor-like 8B	NM_026011.3
35	Gene Edem1	Edem1, mKIAA ER degradation enhancer, mannosidase alpha-like 1	NM_138677.2
24	Gene Oxtr	Oxtr, OTR oxytocin receptor	NM_001081147.1
35	Gene Thumpd	AW556087, Gt THUMP domain containing 3	NM_008188.2
35	Gene Gt(ROSA)	Gtrgeo26, Gt(F gene trap ROSA 26, Philippe Soriano	NR_027008.1, NR_
35	Gene Setd5	MGC90828, Se SET domain containing 5	NM_028385.1
24	Gene Cpne9	mKIAA4217, A copine family member IX	NM_170673.3
24	Gene Brpf1	4833438B11Ri bromodomain and PHD finger containing, 1	NM_030178.1
27	Gene Ogg1	Mmh, Ogg1 8-oxoguanine DNA-glycosylase 1	NM_010957.4
27	Gene Camk1	CaMKIalpha, D calcium/calmodulin-dependent protein kinase I	NM_133926.2
26	Gene Cidec	CIDE-3, Cidec, cell death-inducing DFFA-like effector c	NM_178373.3
26	Gene Jagn1	AW146438, Jajagunal homolog 1 (Drosophila)	NM_001205025.1
27	Gene Il17rc	Gm19850, Il17 interleukin 17 receptor C	NM_134159.4, NM
27	Gene Creld1	A1843811, Crel cysteine-rich with EGF-like domains 1	NM_133930.1
24	Gene Prrt3	6330505P20, E proline-rich transmembrane protein 3	NM_172487.3
28	Gene Emc3	Emc3, Tmem111, 0610039A15Rik, AW260416, Pob, A1225901	NM_175101.3
28	Gene Fancd2	FACD, Fancd2, Fanconi anemia, complementation group D2	NM_001033244.3
23	Gene Fancd2o	4931417G12Ri Fancd2 opposite strand	NM_027633.3
34	Gene Brk1	AW011779, 67BRICK1, SCAR/WAVE actin-nucleating complex subu	NM_133937.1
34	Gene Vhl	Vhl, Vhlh von Hippel-Lindau tumor suppressor	NM_009507.3
32	Gene Irak2	A1649099, MG interleukin-1 receptor-associated kinase 2	NM_172161.4, NM
32	Gene Tatdn2	KIAA0218, Tat TatD DNase domain containing 2	NM_001033463.3

32	Gene Raf1	AA990557, Raf v-raf-leukemia viral oncogene 1	NM_029780.3
61	Gene Cand2	2210404G23Ri cullin-associated and neddylation-dissociated 2 (put	NM_025958.2
61	Gene Rpl32	AU020185, Rp ribosomal protein L32	NM_172086.2
61	Gene Snora7a	MBI-141, Snor. small nucleolar RNA, H/ACA box 7A	NR_028546.1
61	Gene Efcab12	Efcab12, MGC1 EF-hand calcium binding domain 12	NM_001110506.1
42	Gene Plxnd1	Plxnd1, 62304: plexin D1	NM_026376.3
19	Gene Tmcc1	mKIAA0779, 3l transmembrane and coiled coil domains 1	NM_177412.1
19	Gene Gm8213	EG666648, Grr predicted pseudogene 8213	XM_003086526.1,
32	Gene Zfand4	AV260042, Zfa zinc finger, AN1-type domain 4	NM_001081317.1
32	Gene March8	1300017E09Ri membrane-associated ring finger (C3HC4) 8	NM_027920.4
27	Gene Cxcl12	Tlsfa, Sdf1a, Sc chemokine (C-X-C motif) ligand 12	NM_021704.3, NM
41	Gene Hnrnpf	AA407306, MC heterogeneous nuclear ribonucleoprotein F	NM_133834.2, NM
22	Gene Bms1	Bms1, BC0309 BMS1 homolog, ribosome assembly protein (yeast)	NM_194339.1
22	Gene Zfp248	2810037F07Ri zinc finger protein 248	NM_028335.2
31	Gene Cacna1c	Cacna1c, Cchl1 calcium channel, voltage-dependent, L type, alpha 1	NM_009781.3, NM
31	Gene Dcp1b	B930050E02Ri DCP1 decapping enzyme homolog B (S. cerevisiae)	NM_001033379.3
55	Gene Wnt5b	Wnt-5b, Wnt5 wingless-related MMTV integration site 5B	NM_009525.3
55	Gene Fbx14	Fbx14l, AW32: F-box and leucine-rich repeat protein 14	NM_133940.3
28	Gene Erc1	9630025C19Ri ELKS/RAB6-interacting/CAST family member 1	NM_178085.3, NM
28	Gene 3110021	3110021A11Ri RIKEN cDNA 3110021A11 gene	NR_030776.1
42	Gene Wnk1	mKIAA0344, W WNK lysine deficient protein kinase 1	NM_001185020.1
42	Gene Mir706	mir-706, mmu. microRNA 706	NR_030487.1
18	Gene B4galnt3	B4galnt3, C33(beta-1,4-N-acetyl-galactosaminyl transferase 3	NM_198884.1
23	Gene Ccdc77	2400002C23Ri coiled-coil domain containing 77	NM_026028.5, NR
23	Gene Kdm5a	RBP2, Jarid1a, lysine (K)-specific demethylase 5A	NM_145997.2
22	Gene Il17ra	Il17ra, Il17r, VI interleukin 17 receptor A	NM_008359.2
29	Gene Cecr5	Cecr5, A93000 cat eye syndrome chromosome region, candidate 5	NM_144815.2
19	Gene Cecr2	KIAA1740, Cec cat eye syndrome chromosome region, candidate 2	NM_001128151.1
33	Gene Atp6v1e	E2, D6Ert d385: ATPase, H+ transporting, lysosomal V1 subunit E1	NM_007510.2
21	Gene Bid	AU022477, Bic BH3 interacting domain death agonist	NM_007544.3
33	Gene Mical3	Mical3, KIAA08 microtubule associated monooxygenase, calponin a	NM_001270475.1
22	Gene Necap1	AI747569, FLJ1 NECAP endocytosis associated 1	NM_026267.2
21	Gene Pex5	Pex5, ESTM1, p peroxisomal biogenesis factor 5	NM_175933.2, NM
33	Gene Lpcat3	Oact5, Lpcat3, lysophosphatidylcholine acyltransferase 3	NM_145130.2
33	Gene Emg1	Emg1, Grcc2f, EMG1 nucleolar protein homolog (S. cerevisiae)	NM_013536.2
33	Gene Phb2	AU044498, RE. prohibitin 2	NM_007531.2
33	Gene Mir141	Mirn141, Mir1 microRNA 141	NR_029554.1
33	Gene Mir200c	Mir200c, Mirn. microRNA 200c	NR_029792.1
33	Gene Ptpn6	Ptp1C, Hcph, P protein tyrosine phosphatase, non-receptor type 6	NM_013545.2, NM
21	Gene Grcc10	2310033H05Ri gene rich cluster, C10 gene	NM_013535.1
21	Gene Rnu7	Rnu7 U7 small nuclear RNA	NR_024201.3
21	Gene Atn1	Atr1, Drpla, atratrophin 1	NM_007881.4
23	Gene Spsb2	Grcc9, Spsb2, s splA/ryanodine receptor domain and SOCS box cont	NM_013539.1
23	Gene Tpi1	Tpi1, Tpi, AI25: triosephosphate isomerase 1	NM_009415.2
23	Gene Usp5	ISOT, ISOT-1, U ubiquitin specific peptidase 5 (isopeptidase T)	NM_013700.1
27	Gene Lag3	LAG-3, CD223, lymphocyte-activation gene 3	NM_008479.2
27	Gene Ptms	Ptms, 2610009 parathyrosin	NM_026988.2

34	Gene A230083	A230083G16R RIKEN cDNA A230083G16 gene	XR_107824.1, XR_
34	Gene Mlf2	C77284, A1256 myeloid leukemia factor 2	NM_145385.2, NM
25	Gene Cops7a	Cops7a, D6Ert COP9 (constitutive photomorphogenic) homolog, su	NM_012003.2, NM
17	Gene Pianp	A1255183, AUC PILR alpha associated neural protein	NM_175696.4, NM
36	Gene Chd4	AA617397, KIA chromodomain helicase DNA binding protein 4	NM_145979.2
30	Gene Nop2	Nop2, 120kDa, NOP2 nucleolar protein	NM_138747.2
26	Gene Iffo1	HOM-TES-103, intermediate filament family orphan 1	NM_178787.5, NM
26	Gene Gapdh	MGC105239, glyceraldehyde-3-phosphate dehydrogenase	NM_008084.2
26	Gene Ncapd2	CAP-D2, KIAA0 non-SMC condensin I complex, subunit D2	NM_146171.1
18	Gene Vamp1	Syb1, Syb-1, le vesicle-associated membrane protein 1	NM_009496.3, NM
18	Gene Tapbpl	MGC27679, TaTAP binding protein-like	NM_145391.2
26	Gene Ltbr	LTbetaR, A1256 lymphotoxin B receptor	NM_010736.3
26	Gene Scnn1a	mENaC, SCNEA sodium channel, nonvoltage-gated 1 alpha	NM_011324.2
17	Gene Cd9	Tspan29, Cd9 CD9 antigen	NM_007657.3
34	Gene Rad51ap	2510006L10Ril RAD51 associated protein 1	NM_009013.3
34	Gene D6Wsu1	C12orf4, D6W: DNA segment, Chr 6, Wayne State University 163, e	NM_138594.3
21	Gene Fgf23	Fgf23 fibroblast growth factor 23	NM_022657.3
21	Gene 9630033	AI595337, C79 RIKEN cDNA 9630033F20 gene	NM_177003.5
29	Gene Ccnd2	2600016F06Ril cyclin D2	NM_009829.3
29	Gene 9330179	9330179D12Ril RIKEN cDNA 9330179D12 gene	NR_040273.1, NR_
24	Gene Tspan9	Tspan9, AU018 tetraspanin 9	NM_175414.4
33	Gene Tulp3	Tulp3, 231002 tubby-like protein 3	NM_011657.2
33	Gene LOC101055755	uncharacterized LOC101055755	XM_003945402.1
33	Gene Rhno1	5930416I19Ril RAD9-HUS1-RAD1 interacting nuclear orphan 1	NR_027359.1, NR_
33	Gene Foxm1	Foxm1b, AW5: forkhead box M1	NM_008021.4
31	Gene Fkbp4	Fkbp4, p59, 59 FK506 binding protein 4	NM_010219.3
31	Gene Gm1006	Gm10069, ENS predicted gene 10069	NR_028592.1, NR_
28	Gene Etv6	Etv6, Tel, AW1 ets variant gene 6 (TEL oncogene)	NM_007961.3
19	Gene Lrp6	Cd, C030016K1 low density lipoprotein receptor-related protein 6	NM_008514.4
21	Gene Crebl2	Crebl2, MGC1: cAMP responsive element binding protein-like 2	NM_177687.3
29	Gene Cdkn1b	p27Kip1, Kip1, cyclin-dependent kinase inhibitor 1B	NM_009875.4
29	Gene 1190002	1190002F15Ril RIKEN cDNA 1190002F15 gene	NR_037955.1, NR_
24	Gene Apold1	Gm1075, Apol: apolipoprotein L domain containing 1	NM_001109914.1
25	Gene Gm1943	Gm19434 predicted gene, 19434	NR_040296.1
25	Gene 8430419	Kiaa1467, 843 RIKEN cDNA 8430419L09 gene	NM_028982.4
34	Gene Hist4h4	Hist1h4j, Hist4 histone cluster 4, H4	NM_175652.2
34	Gene H2afj	MGC118637, H2A histone family, member J	NM_177688.4
34	Gene Wbp11	Wbp11, Npwb WW domain binding protein 11	NM_021714.4
19	Gene Rerg	Rerg RAS-like, estrogen-regulated, growth-inhibitor	NM_181988.2, NM
16	Gene Eps8	Eps8, AW2617 epidermal growth factor receptor pathway substrate	NM_007945.2
20	Gene Plekha5	MGC38455, Gt pleckstrin homology domain containing, family A me	NM_144920.3
38	Gene Aebp2	B230313N05Ril AE binding protein 2	NM_001005605.1
28	Gene Pde3a	A930022O17R phosphodiesterase 3A, cGMP inhibited	NM_018779.1
30	Gene Pyroxd1	Pyroxd1 pyridine nucleotide-disulphide oxidoreductase dom:	NM_183165.3
30	Gene Recq1	RecQ1, A19572 RecQ protein-like	NM_023042.3, NM
30	Gene Golt1b	AA407874, Go golgi transport 1 homolog B (S. cerevisiae)	NM_025872.4
23	Gene Ldhb	A1790582, Ldh lactate dehydrogenase B	NM_008492.2

18	Gene Cmas	D6Bwg0250e, cytidine monophospho-N-acetylneuraminic acid syn	NM_009908.2
15	Gene St8sia1	Sia-T, Siat8a, S ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltran	NM_011374.2
28	Gene C2cd5	C030008B15Ri C2 calcium-dependent domain containing 5	NM_029081.2, NM
28	Gene Etnk1	D6Ert3e, 493 ethanolamine kinase 1	NM_029250.2
19	Gene Bcat1	BCATc, Bcat1, branched chain aminotransferase 1, cytosolic	NM_001024468.3
19	Gene Kras	Ki-ras, K-ras, rαv-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	NM_021284.6
19	Gene Gm1570	Gm15706, OT1 predicted gene 15706	NR_045598.1
26	Gene Bhlhe41	6430520M22R basic helix-loop-helix family, member e41	NM_024469.1
24	Gene Itpr2	Itpr2, Ip3r2, In inositol 1,4,5-triphosphate receptor 2	NM_010586.1, NM
27	Gene Tm7sf3	Tm7sf3, 2010C transmembrane 7 superfamily member 3	NM_026281.2
27	Gene Med21	Surb7, D19234 mediator complex subunit 21	NM_025315.3
31	Gene Stk38l	Ndr54, 493047 serine/threonine kinase 38 like	NM_172734.3
24	Gene Ppfibp1	4632409B19Ri PTPRF interacting protein, binding protein 1 (liprin b	NM_026221.2, NM
41	Gene Rep15	Rep15, 221041 RAB15 effector protein	NM_025620.2
41	Gene Mrps35	Mrps35, MRPS mitochondrial ribosomal protein S35	NM_145573.2
34	Gene Mansc4	EG545893, Ma MANSC domain containing 4	NM_001034903.3
34	Gene Klhl42	AI450355, A33 kelch-like 42	NM_001081237.1
25	Gene Gm6288	Gm6288, EG62 predicted gene 6288	XR_168432.1
25	Gene Ccdc91	1810060J02Ril coiled-coil domain containing 91	NM_025911.2
22	Gene Ergic2	1200009B18Ri ERGIC and golgi 2	NM_026355.3, NM
22	Gene 4732416	4732416N19Ri RIKEN cDNA 4732416N19 gene	NR_015615.1
23	Gene Tmtc1	Tmtc1, BC0238 transmembrane and tetratricopeptide repeat contain	NM_198967.5
36	Gene Fam60a	Tera, Pptcs1, F family with sequence similarity 60, member A	NM_019643.3
36	Gene 3010003	3010003L21Ril RIKEN cDNA 3010003L21 gene	XR_107859.3, XR_
25	Gene Dennd5l	Dennd5b, AI85 DENN/MADD domain containing 5B	NM_177192.3
28	Gene 2810474	2810474O19Ril RIKEN cDNA 2810474O19 gene	NM_026054.3
34	Gene Prpf31	AW554706, PFPRP31 pre-mRNA processing factor 31 homolog (yea	NM_027328.4, NM
34	Gene Cnot3	A930039N10R CCR4-NOT transcription complex, subunit 3	NM_146176.3
34	Gene Mir3572	mmu-mir-3572; microRNA 3572	NR_039587.1
14	Gene 9430041	9430041J12Ril RIKEN cDNA 9430041J12 gene	NR_033568.1
14	Gene Ttyh1	tty, Ttyh1, 493 tweety homolog 1 (Drosophila)	NM_021324.5, NM
14	Gene D030047	D030047H15R RIKEN cDNA D030047H15 gene	NR_033548.1
25	Gene Leng8	AW049671, Le leukocyte receptor cluster (LRC) member 8	NM_172736.3
25	Gene Leng9	F630035L11Ril leukocyte receptor cluster (LRC) member 9	NM_175529.3
25	Gene Cdc42ep	Borg3, Cdc42e CDC42 effector protein (Rho GTPase binding) 5	NM_021454.3
30	Gene Tmem19	4930572D21Ril transmembrane protein 190	NM_030028.1
30	Gene Tmem23	2210411K11Ril transmembrane protein 238	NM_029384.1
30	Gene Rpl28	MGC107666, Ribosomal protein L28	NM_009081.2
20	Gene Ube2s	E2-EPF, 091000 ubiquitin-conjugating enzyme E2S	NM_133777.2
23	Gene Zfp628	Zec, Zfp628, Zr zinc finger protein 628	NM_170759.2
23	Gene Nat14	BC047219, MC N-acetyltransferase 14	NM_201355.3
23	Gene Ssc5d	A430110N23R scavenger receptor cysteine rich domain containing	NM_173008.2
20	Gene Zfp579	Zfp579, 11100 zinc finger protein 579	NM_026741.2
19	Gene Fiz1	Fiz1, MGC1179 Flt3 interacting zinc finger protein 1	NM_001110328.1
19	Gene Zfp524	Zfp524, Znf524 zinc finger protein 524	NM_025324.2
20	Gene Zfp865	Zfp865, Znf865 zinc finger protein 865	NM_001033383.2
20	Gene Zfp784	Znf784, Zfp784 zinc finger protein 784	NM_001039532.2

28	Gene Zfp580	AI838225, Znf zinc finger protein 580	NM_026900.1
28	Gene Ccdc106	BC018462, MC coiled-coil domain containing 106	NM_146178.2
31	Gene U2af2	MGC118033, U2 small nuclear ribonucleoprotein auxiliary factor (	NM_001205231.1
31	Gene Epn1	lbp1, MGC106 epsin 1	NM_001252454.1
30	Gene Zfp787	Zfp787, Znf787 zinc finger protein 787	NM_001013012.1
32	Gene Gm1653	Gm16532 predicted gene, 16532	NM_001134752.1
22	Gene Peg3	End4, mKIAA0: paternally expressed 3	NM_008817.2
22	Gene Usp29	Ocat, Usp29 ubiquitin specific peptidase 29	NM_021323.2
28	Gene Zfp606	Zfp606, AW49 zinc finger protein 606	NM_026112.4, NM
23	Gene Zfp324	Zfp324, D4300 zinc finger protein 324	NM_178732.3
22	Gene Slc27a5	FATP5, MGC14 solute carrier family 27 (fatty acid transporter), men	NM_009512.2
22	Gene Zbtb45	Zbtb45, BB161 zinc finger and BTB domain containing 45	NM_001024699.1
43	Gene Trim28	Trim28, KAP-1, tripartite motif-containing 28	NM_011588.3
43	Gene Chmp2a	1500016L11Ril charged multivesicular body protein 2A	NM_026885.3
43	Gene Ube2m	Ubc-rs2, MGC37197, Ube2m, MGC25453, UBC12, 2510040H03Rik	NM_001168469.2
29	Gene Mzf1	Mzf-2, Mzf1, Z myeloid zinc finger 1	NM_145819.2
25	Gene Zfp541	Znf541, Zfp541 zinc finger protein 541	NM_001099277.1
25	Gene Napa	Napa, 150003: N-ethylmaleimide sensitive fusion protein attachme	NM_025898.3
20	Gene Slc8a2	Slc8a2, Ncx2 solute carrier family 8 (sodium/calcium exchanger),	NM_148946.2
29	Gene Prr24	Prr24, 261001: proline rich 24	NM_001136270.1
29	Gene Ccdc9	Ccdc9, 260001 coiled-coil domain containing 9	NM_172297.1, NM
31	Gene Bbc3	Bbc3, PUMA/JI BCL2 binding component 3	NM_133234.2
28	Gene Sae1	Sae1, Uble1a, SUMO1 activating enzyme subunit 1	NM_019748.2
24	Gene Zc3h4	Zc3h4, Bwq1, zinc finger CCCH-type containing 4	NM_198631.2
23	Gene Tmem16	Tmem160, 181 transmembrane protein 160	NM_026938.1
23	Gene Npas1	Npas1, bHLHe: neuronal PAS domain protein 1	NM_008718.2
25	Gene Slc1a5	ASCT2, M7VS1 solute carrier family 1 (neutral amino acid transport	NM_009201.2
30	Gene Fkrp	MDC1C, LGMD fukutin related protein	NM_173430.2
30	Gene Strn4	ZIN, Strn4, C8C striatin, calmodulin binding protein 4	NM_001039878.2
21	Gene Calm3	Calm3, CaMA, calmodulin 3	NM_007590.3
20	Gene Pnmal2	Pnmal2, EG43: PNMA-like 2	NM_001099636.2
23	Gene Ccdc8	ENSMUSG000: coiled-coil domain containing 8	NM_001101535.1
32	Gene Ppp5c	AU020526, Pp: protein phosphatase 5, catalytic subunit	NM_011155.2
32	Gene Hif3a	bHLHe17, NEP: hypoxia inducible factor 3, alpha subunit	NM_016868.3, NM
20	Gene Nanos2	Nanos2, nos2 nanos homolog 2 (Drosophila)	NM_194064.2
37	Gene Mypop	Mypop, P42po Myb-related transcription factor, partner of profilin	NM_145579.3
37	Gene Irf2bp1	6330414O09Ri: interferon regulatory factor 2 binding protein 1	NM_178757.3
37	Gene Foxa3	Foxa3, Tcf-3g, forkhead box A3	NM_008260.2
19	Gene Sympk	1500016F02Ri: symplekin	NM_026605.2
18	Gene Rsph6a	Rsph6a, RSP4, radial spoke head 6 homolog A (Chlamydomonas)	NM_031255.2, NM
18	Gene Dmwd	DMR-N9, MGC dystrophia myotonica-containing WD repeat motif	NM_010058.2
40	Gene Dmpk	DM, Dmpk, Dn dystrophia myotonica-protein kinase	NM_001190490.1
40	Gene Mir3100	mmu-mir-310: microRNA 3100	NR_037282.1
40	Gene Six5	Dmahp, TrexBl sine oculis-related homeobox 5	NM_011383.1
17	Gene Qpctl	gQC, BB10181: glutaminyl-peptide cyclotransferase-like	NM_026111.3
17	Gene Snrpd2	1810009A06Ri: small nuclear ribonucleoprotein D2	NM_026943.1
17	Gene Gipr	Gm1081, Gipr, gastric inhibitory polypeptide receptor	NM_001080815.1

22	Gene Vasp	Vasp, AA10725 vasodilator-stimulated phosphoprotein	NM_009499.2
22	Gene Ppm1n	Ppm1n, A9300 protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1N (r	NM_177691.3
20	Gene Rtn2	Rtn2, MGC359 reticulon 2 (Z-band associated protein)	NM_013648.5, NM
25	Gene n-Ts2		
29	Gene Fosb	Fosb FBJ osteosarcoma oncogene B	NM_008036.2
29	Gene D830036	D830036C21Ri RIKEN cDNA D830036C21 gene	XM_003945770.1
27	Gene Ercc1	Ercc1, Ercc-1 excision repair cross-complementing rodent repair c	NM_007948.2, NM
27	Gene Cd3eap	2610103M17R CD3E antigen, epsilon polypeptide associated protei	NM_145822.2
27	Gene Ppp1r13	AV260376, Pp1 protein phosphatase 1, regulatory (inhibitor) subuni	NM_001010836.3
18	Gene Mark4	Markl1, 24100 MAP/microtubule affinity-regulating kinase 4	NM_172279.1
19	Gene Exoc3l2	Exoc3l2, AU04 exocyst complex component 3-like 2	XM_001471750.3,
29	Gene Bloc1s3	E230011O18, r biogenesis of lysosome-related organelles complex-	NM_177692.3
30	Gene Trappc6	4930519D19Ri trafficking protein particle complex 6A	NM_025960.3
30	Gene Nkpd1	Nkpd1, 23100: NTPase, KAP family P-loop domain containing 1	NM_027116.1
31	Gene Ppp1r37	Lrrc68, Gm158 protein phosphatase 1, regulatory subunit 37	NM_199149.3
31	Gene Gemin7	AI120175, AI4t gem (nuclear organelle) associated protein 7	NM_027189.2
24	Gene Relb	MGC143684, Favian reticuloendotheliosis viral (v-rel) oncogene rel	NM_009046.2
34	Gene Clptm1	N14, Clptm1, F cleft lip and palate associated transmembrane prote	NM_019649.2
34	Gene Apoc2	MGC117889, F apolipoprotein C-II	NM_009695.3
25	Gene Pvr12	Pvr, AI325026, poliovirus receptor-related 2	NM_008990.3, NM
25	Gene Bcam	Gplu, Bcam, 12 basal cell adhesion molecule	NM_020486.2
30	Gene Plaur	Plaur, uPAR, C plasminogen activator, urokinase receptor	NM_011113.3
41	Gene Cadm4	Igsf4c, Tsl12, C cell adhesion molecule 4	NM_153112.3
41	Gene Zfp428	AV271806, Znf zinc finger protein 428	NM_146183.2
18	Gene Irgq	FKSG27, Irgq, F immunity-related GTPase family, Q	NM_153134.3
18	Gene Pinlyp	2310033E01Ri phospholipase A2 inhibitor and LY6/PLAUR domain (	NM_001037143.2
21	Gene Zfp575	Zfp575, AI3268 zinc finger protein 575	NM_001033205.3
21	Gene Ethe1	Hsco, Ethe1, O ethylmalonic encephalopathy 1	NM_023154.3
37	Gene Dmrtc2	Dmrtc2, 49334 doublesex and mab-3 related transcription factor lik	NM_027732.2
37	Gene Rps19	MGC107694, F ribosomal protein S19	NM_023133.1
17	Gene Rabac1	PRA1, Gbpap1, Rab acceptor 1 (prenylated)	NM_010261.2
19	Gene Atp1a3	Atpa-2, MGC3 ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide	NM_144921.1
22	Gene Grik5	MGC118086, K glutamate receptor, ionotropic, kainate 5 (gamma 2	NM_008168.2
22	Gene Zfp574	A630056B21Ri zinc finger protein 574	NM_175477.4, NM
22	Gene Pou2f2	Oct2a, Oct2b, POU domain, class 2, transcription factor 2	NM_001163554.1
22	Gene Dedd2	2410050E11Ri death effector domain-containing DNA binding prot	NM_207677.3
22	Gene Zfp526	D030024H03R zinc finger protein 526	NM_175436.4
22	Gene Gsk3a	Gsk3a, 270008 glycogen synthase kinase 3 alpha	NM_001031667.1
22	Gene 9130221	AU016887, 91: RIKEN cDNA 9130221H12 gene	NR_046001.1
37	Gene Erf	Erf	NM_010155.3
26	Gene Cic	1200010B10Ri capicua homolog (Drosophila)	NM_027882.3, NM
26	Gene Pafah1b	Pafahg, Pafah1 platelet-activating factor acetylhydrolase, isoform 1	NM_008776.2
26	Gene Prr19	Prr19, EG6231 proline rich 19	NM_001081294.1
26	Gene Tmem14	Tmem145, B9: transmembrane protein 145	NM_183311.2
22	Gene Megf8	Megf8, b2b28 multiple EGF-like-domains 8	NM_001160400.1
23	Gene Atp5sl	2310004L02Ril ATP5S-like	NM_025504.4
23	Gene B3gnt8	MGC32391, B: UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminy	NM_001036740.2

23	Gene Bckdha	Bckdha	NM_007533.5
18	Gene B9d2	B9d2, stumpy, B9 protein domain 2	NM_172148.1
18	Gene Tgfb1	TGF-beta1, Tgf transforming growth factor, beta 1	NM_011577.1
36	Gene Hnrnpul	Hnrnpul1, E1BA heterogeneous nuclear ribonucleoprotein U-like 1	NM_178089.2, NM
36	Gene Axl	Ufo, Tyro7, Arl AXL receptor tyrosine kinase	NM_009465.4, NM
24	Gene Cyp2t4	Gm1448, Gm1 cytochrome P450, family 2, subfamily t, polypeptide	NM_001100184.1
24	Gene Egln2	Hif-p4h-1, Eglr EGL nine homolog 2 (C. elegans)	NM_053208.4
24	Gene Rab4b	1500031G17Ri RAB4B, member RAS oncogene family	NM_029391.2
24	Gene Mir3101	Mir3101, mmu microRNA 3101	NR_037283.1
26	Gene Snrpa	U1A, Rnu1a-1, small nuclear ribonucleoprotein polypeptide A	NM_015782.3, NM
26	Gene BC02497	BC024978 cDNA sequence BC024978	NM_001243888.1
26	Gene Mir1191	Mir1191, mmu microRNA 1191	NR_035422.1
26	Gene Itpkc	9130023N17Ri inositol 1,4,5-trisphosphate 3-kinase C	NM_181593.2
26	Gene Adck4	Adck4, 061001 aarF domain containing kinase 4	NM_133770.2
21	Gene Ltbp4	MGC175966, L latent transforming growth factor beta binding prot	NM_175641.2, NM
21	Gene Shkbp1	B930062H15Ri Sh3kbp1 binding protein 1	NM_138676.2
17	Gene Sptbn4	qv, dyn, Spnb4 spectrin beta, non-erythrocytic 4	NM_032610.2, NM
30	Gene 2310022	2310022A10Ri RIKEN cDNA 2310022A10 gene	NM_175107.4, NM
30	Gene Akt2	PKB, PKBbeta, thymoma viral proto-oncogene 2	NM_007434.3, NM
30	Gene Map3k1	MST, BC02866 mitogen-activated protein kinase kinase kinase 10	NM_001081292.1
30	Gene C030039	C030039L03Ri RIKEN cDNA C030039L03 gene	NM_198417.2, NM
35	Gene 9530053	FCGBP, 9530053A07Ri RIKEN cDNA 9530053A07 gene	NM_001164655.1
35	Gene Fbl	AL022665, FLR fibrillar	NM_007991.3
35	Gene Dyrk1b	Dyrk1b, Mirk dual-specificity tyrosine-(Y)-phosphorylation regulat	NM_010092.1, NM
28	Gene Eid2	Cri2, EID-2, Eid EP300 interacting inhibitor of differentiation 2	NM_198425.2
28	Gene Eid2b	3010005C08Ri EP300 interacting inhibitor of differentiation 2B	NM_001177427.1
28	Gene BC08949	MGC107154, S cDNA sequence BC089491	NM_175033.3
21	Gene Dll3	pudgy, Dll3, pu delta-like 3 (Drosophila)	NM_007866.2
21	Gene Timm50	AU015082, 28: translocase of inner mitochondrial membrane 50	NM_025616.3
21	Gene Supt5	AU019549, ALI suppressor of Ty 5	NM_013676.1
25	Gene Plekhg2	Cslg, Plekhg2, ,pleckstrin homology domain containing, family G (w	NM_001083912.1
25	Gene Zfp36	Tis11, Ttp, Zfp: zinc finger protein 36	NM_011756.4
25	Gene Med29	Med29, 28104 mediator complex subunit 29	NM_026042.3
30	Gene Fbxo27	E130008B10Ri F-box protein 27	NM_207238.3, NM
29	Gene Rinl	MGC51433, Ri Ras and Rab interactor-like	NM_177158.5
29	Gene Hnrnp1	C79783, Hnrp1, heterogeneous nuclear ribonucleoprotein L	NM_177301.5
37	Gene Actn4	C77391, Actn4 actinin alpha 4	NM_021895.2
37	Gene Eif3k	1200009C21Ri eukaryotic translation initiation factor 3, subunit K	NM_028659.2
36	Gene Rasgrp4	Rasgrp4 RAS guanyl releasing protein 4	NM_001174155.1
36	Gene Fam98c	AV026483, 11: family with sequence similarity 98, member C	NM_001146023.1
36	Gene Spred3	D130060H24R sprouty-related, EVH1 domain containing 3	NM_182927.3
20	Gene Ggn	Ggn, MGC102: gametogenetin	NM_182696.2, NM
20	Gene Psm8	Psm8, AL033: proteasome (prosome, macropain) 26S subunit, non	NM_026545.3
20	Gene Catsperg	Catsperg, A23(catsper channel auxiliary subunit gamma 1	NM_001164658.1
19	Gene Kcnk6	Kcnk6, Twik2, , potassium inwardly-rectifying channel, subfamily K,	NM_001033525.3
19	Gene Yif1b	Yip1b, MGC13: Yip1 interacting factor homolog B (S. cerevisiae)	NM_029887.3, NM
25	Gene Spint2	HAI-2, Spint2, , serine protease inhibitor, Kunitz type 2	NM_011464.2, NM

25	Gene Ppp1r14	Ppp1r14a, 111 protein phosphatase 1, regulatory (inhibitor) subunit	NM_026731.3
22	Gene Dpf1	Dpf1, Neud4 D4, zinc and double PHD fingers family 1	NM_013874.2
22	Gene 4932431	4932431P20Ri RIKEN cDNA 4932431P20 gene	XR_035401.2, XR_
23	Gene Zfp14	4732429I09Rik zinc finger protein 14	NM_011748.2, NM
29	Gene Zfp82	A030010D05, zinc finger protein 82	NM_001252519.1,
29	Gene Zfp566	Zfp566, 27000 zinc finger protein 566	NM_152814.2
18	Gene Cox7a1	COX7AH, Cox7 cytochrome c oxidase subunit VIIa 1	NM_009944.3
18	Gene Capns1	Capa-4, Capns: calpain, small subunit 1	NM_009795.3
28	Gene Wdr62	MGC31423, WWD repeat domain 62	NM_146186.3
28	Gene Thap8	1700020L13Ril THAP domain containing 8	XR_168670.1, XR_
27	Gene Alkbh6	Abh6, Alkbh6, alkB, alkylation repair homolog 6 (E. coli)	NM_198027.2
27	Gene Syne4	Nesp4, 061001 spectrin repeat containing, nuclear envelope family	NM_153577.2
27	Gene Sdhaf1	Lym8, 061001 succinate dehydrogenase complex assembly factor 1	NM_001033140.3
18	Gene Lrfn3	Lrfn3, A53004 leucine rich repeat and fibronectin type III domain c	NM_175478.2
19	Gene Wbp7	mKIAA0304, WW domain binding protein 7	NM_029274.2
19	Gene Zbtb32	PLZP, FAZF, Tzl zinc finger and BTB domain containing 32	NM_021397.2
33	Gene Atp4a	Atp4a ATPase, H ⁺ /K ⁺ exchanging, gastric, alpha polypeptide	NM_018731.2
33	Gene Tmem14	5033425B17Ri transmembrane protein 147	NM_027215.2
33	Gene C630016	C630016N16Ri RIKEN cDNA C630016N16 gene	XR_107875.1, XR_
33	Gene Gapdhs	Gapds, Gapdh: glyceraldehyde-3-phosphate dehydrogenase, sperm	NM_008085.1
31	Gene Usf2	Usf-2, MGC91 upstream transcription factor 2	NM_011680.2
31	Gene Gm4673	Gm4673 predicted gene 4673	XR_107876.1, XR_
31	Gene Lsr	ILDR3, Lsr, Lisc lipolysis stimulated lipoprotein receptor	NM_017405.2, NM
20	Gene Fam187l	1700020B09Ri family with sequence similarity 187, member B	NM_175240.4, NM
20	Gene Fxyd5	Fxyd5, RIC, EF-FXYD domain-containing ion transport regulator 5	NM_008761.3, NM
20	Gene Fxyd7	Fxyd7, 111003 FXYD domain-containing ion transport regulator 7	NM_022007.1
20	Gene Fxyd1	0610012C17Ri FXYD domain-containing ion transport regulator 1	NM_194321.2, NM
20	Gene Lgi4	Lgi3, clp, Lgi4, leucine-rich repeat LGI family, member 4	NM_144556.2
25	Gene Gramd1	Gramd1a, AW! GRAM domain containing 1A	NM_027898.3
22	Gene Uba2	UBA1, Uble1b, ubiquitin-like modifier activating enzyme 2	NM_016682.2
22	Gene Gm1277	Gm12778, OTI predicted gene 12778	
39	Gene Pcd2l	6030457N17Ri programmed cell death 2-like	NM_026549.3
39	Gene Gpi1	MF, Gpi-1t, Gp glucose phosphate isomerase 1	NM_008155.3, XM
27	Gene Lsm14a	Tral, 2700023E LSM14 homolog A (SCD6, S. cerevisiae)	NM_025948.2
23	Gene Kctd15	MGC25497, Kc potassium channel tetramerisation domain containi	NM_146188.1
15	Gene Chst8	AI426009, Chs: carbohydrate (N-acetylgalactosamine 4-O) sulfotran:	NM_175140.4
32	Gene Pepd	Pep-4, Pep4, P peptidase D	NM_008820.2
30	Gene Cebpg	Gpe1bp, Ig/EB CCAAT/enhancer binding protein (C/EBP), gamma	NM_009884.3
32	Gene Cebpa	Cebp, CBF-A, CCAAT/enhancer binding protein (C/EBP), alpha	NM_007678.3
27	Gene Nudt19	D7Rp2-r, D7Rp nudix (nucleoside diphosphate linked moiety X)-type	NM_033080.2
31	Gene Rgs9bp	Rgs9-1bp, Rgs! regulator of G-protein signalling 9 binding protein	NM_145840.3
32	Gene Ankrd27	Varp, Ankrd27 ankyrin repeat domain 27 (VPS9 domain)	NM_145633.3, NM
32	Gene Pcd5	Tfar19, Pcd5, programmed cell death 5	NM_019746.4
21	Gene Dpy19l3	6030410G08, l dpy-19-like 3 (C. elegans)	NM_178704.3
35	Gene Zfp507	Znf507, AU021 zinc finger protein 507	NM_177739.3
35	Gene E130304	E130304I02Rik RIKEN cDNA E130304I02 gene	NR_033567.1
31	Gene Tshz3	Tshz3, Tsh3, KI teashirt zinc finger family member 3	NM_172298.2

29	Gene Uri1	NNX3, Rmp, CŒURI1, prefoldin-like chaperone	NM_011274.5
27	Gene Zfp619	MGC91101, Zf zinc finger protein 619	NM_001004139.2
19	Gene Zfp715	Zfp715, 26100.zinc finger protein 715	NM_027264.3
35	Gene 1700028	1700028J19RiŒRIKEN cDNA 1700028J19 gene	NR_029436.1
35	Gene 2410002	MGC69849, M RIKEN cDNA 2410002F23 gene	NM_025880.4
35	Gene Snord88	Snord88c, MBI small nucleolar RNA, C/D box 88C	NR_028534.1
35	Gene Snord88	MBII-211, Snois small nucleolar RNA, C/D box 88A	NR_028533.1
35	Gene Acpt	Acpt, Gm1432, acid phosphatase, testicular	NM_001195034.1
29	Gene Clec11a	AW457320, Sc C-type lectin domain family 11, member a	NM_009131.3
29	Gene Shank1	Shank1	NM_001034115.1
25	Gene 1700008	1700008O03Rik	NM_027049.1
27	Gene Pold1	Pold1, 125kDa polymerase (DNA directed), delta 1, catalytic subuni	NM_011131.3
27	Gene Nr1h2	AI194859, Nr1 nuclear receptor subfamily 1, group H, member 2	NM_009473.2
32	Gene Atf5	ODA-10, AFTA, activating transcription factor 5	NM_030693.2, NR
32	Gene Nup62-il4i1	Nup62-Il4i1 protein	NM_001171024.1
32	Gene Nup62	AA589433, AI4 nucleoporin 62	NM_053074.1
26	Gene Tbc1d17	MGC27642, BŒTBC1 domain family, member 17	NM_001042655.1
31	Gene Akt1s1	Lobe, Akt1s1, ŒAKT1 substrate 1 (proline-rich)	NM_001253920.1
26	Gene Mir707	Mirn707, Mir7 microRNA 707	NR_030488.1
31	Gene Pnkp	Pnkp, 181000Œ polynucleotide kinase 3'- phosphatase	NM_021549.2
31	Gene Ptov1	Ptov1, AU0417 prostate tumor over expressed gene 1	NM_133949.1
31	Gene Med25	2610034E13Ri mediator of RNA polymerase II transcription, subuni	NM_029365.2
32	Gene Ap2a1	Ap2a1, Adtaa adaptor-related protein complex 2, alpha 1 subunit	NM_007458.2, NM
18	Gene Bcl2l12	Bcl-L12, Bcl2l1 BCL2-like 12 (proline rich)	NM_029410.3
18	Gene Irf3	IRF-3, Irf3, MG interferon regulatory factor 3	NM_016849.4, NR
18	Gene Scaf1	AI480556, ScaŒSR-related CTD-associated factor 1	NM_001008422.1
18	Gene Rras	AI573426, Rra: Harvey rat sarcoma oncogene, subgroup R	NM_009101.2
22	Gene Prr12	BC058674, 67Œproline rich 12	NM_175022.2
22	Gene Prrg2	N4WBP1, 160Œ (proline-rich Gla (G-carboxyglutamic acid) polypeptid	NM_022999.1
21	Gene Nosip	Nosip, 231006 nitric oxide synthase interacting protein	NM_025533.3, NM
21	Gene Rcn3	6030455P07Ri reticulocalbin 3, EF-hand calcium binding domain	NM_026555.2
26	Gene Aldh16a	2410004H02Ri aldehyde dehydrogenase 16 family, member A1	NM_145954.1
26	Gene Pih1d1	1110061L23RiŒPIH1 domain containing 1	NM_029406.3
26	Gene Slc17a7	2900052E22Ri solute carrier family 17 (sodium-dependent inorgan	NM_182993.2
22	Gene Slc6a16	Slc6a16, Gm1Œ solute carrier family 6, member 16	XM_355900.6, XM
22	Gene 1700039	1700039E15Ri RIKEN cDNA 1700039E15 gene	NM_001033176.1
21	Gene Ppfia3	Ppfia3, 241012 protein tyrosine phosphatase, receptor type, f polyp	NM_029741.2
21	Gene Mtag2	Mtag2, MAG metastasis associated gene 2	NR_027802.1, NR_
21	Gene Lin7b	MALS-2, Veli2, lin-7 homolog B (C. elegans)	NM_011698.1
21	Gene Ssrnp70	Ssrnp70, R7480 small nuclear ribonucleoprotein 70 (U1)	NM_009224.4
20	Gene Kcna7	Kcna7, Kv1.7 potassium voltage-gated channel, shaker-related su	NM_010596.2
20	Gene Ntf5	NT4/5, NT4, NŒ neurotrophin 5	NM_198190.1
20	Gene LOC100862214	uncharacterized LOC100862214	XM_003688836.1,
20	Gene Lhb	LH, leutropin, Œluteinizing hormone beta	NM_008497.2
20	Gene Ruvbl2	p47, Ruvbl2, N RuvB-like protein 2	NM_011304.3
17	Gene Gys1	Gys3, Gys1, MŒ glycogen synthase 1, muscle	NM_030678.3
25	Gene Car11	Ca11, Car11	NM_009800.4

47	Gene Dbp	Dbp	D site albumin promoter binding protein	NM_016974.3
47	Gene Sphk2	Sphk2, MGC10	sphingosine kinase 2	NM_001172561.1
47	Gene Rpl18	L18, Rpl18a, R1	ribosomal protein L18	NM_009077.2
47	Gene Fam83e	4930403C10Ri	family with sequence similarity 83, member E	NM_001033170.4
47	Gene Spaca4	Spaca4, Samp1	sperm acrosome associated 4	NM_027055.3
23	Gene Gm5897	Gm5897, EG54	predicted gene 5897	XR_107904.1, XR_
23	Gene Lmtk3	Lmtk3, aatyk3,	lemur tyrosine kinase 3	NM_001005511.2
22	Gene Cyth2	ARNO, CLM2,	(cytohesin 2	NM_011181.3, NM
29	Gene Kcnj14	Kcnj14, MGC21	potassium inwardly-rectifying channel, subfamily J, i	NM_145963.2
29	Gene Grwd1	Wdr28, AI5043	glutamate-rich WD repeat containing 1	NM_153419.2
29	Gene Grin2d	NMDAR2D, Gr	glutamate receptor, ionotropic, NMDA2D (epsilon 4	NM_008172.2
25	Gene Kdelr1	AW215843, Kc	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum prote	NM_133950.2
23	Gene Tmem14	2310076O21Ri	transmembrane protein 143	NM_144801.2
23	Gene Emp3	H4, HNMP-1,	epithelial membrane protein 3	NM_010129.2, NM
29	Gene Abcc6	DCC, Dyscalc1,	ATP-binding cassette, sub-family C (CFTR/MRP), mer	NM_018795.2
29	Gene Nomo1	MGC37454, M	nodal modulator 1	NM_153057.4
18	Gene Myod1	bHLHc1, AI503	myogenic differentiation 1	NM_010866.2
29	Gene Hps5	C85120, MGC5	Hermansky-Pudlak syndrome 5 homolog (human)	NM_001005247.2
29	Gene Gtf2h1	AW743425, AI	general transcription factor II H, polypeptide 1	NM_008186.4
33	Gene Gm5331	Gm5331, EG38	predicted gene 5331	XM_914983.3, XM
33	Gene LdhA	Ldh1, I7R2,	Ldl lactate dehydrogenase A	NM_010699.2, NM
32	Gene Tsg101	CC2, Tsg101,	A tumor susceptibility gene 101	NM_021884.3
32	Gene Uevld	Uevld, Atp,	84 UEV and lactate/malate dehydrogenase domains	NM_001040695.1
20	Gene C86187	C86187	expressed sequence C86187	NR_015609.1
31	Gene Spty2d1	5830435K17Ri	SPT2, Suppressor of Ty, domain containing 1 (S. cere	NM_175318.4
34	Gene Tmem86	AI414959, Tm	transmembrane protein 86A	NM_026436.3
32	Gene E2f8	E2f8, 4432406	E2F transcription factor 8	NM_001013368.5
32	Gene Gm2788	Gm2788	predicted gene 2788	XR_107905.2, XR_
44	Gene Nav2	mKIAA3015, A	neuron navigator 2	NM_175272.3, NM
24	Gene Htatip2	Htatip2, Tip30,	HIV-1 tat interactive protein 2, homolog (human)	NM_016865.3, NM
24	Gene Prmt3	2010005E20Ri	protein arginine N-methyltransferase 3	NM_133740.2
20	Gene Cyfip1	Cyfip1, Sra1,	K cytoplasmic FMR1 interacting protein 1	NM_011370.3, NM
27	Gene Nipa2	3830408P04Ri	non imprinted in Prader-Willi/Angelman syndrome 2	NM_001256130.1
27	Gene A230056	A230056P14Ri	RIKEN cDNA A230056P14 gene	NR_015495.2
20	Gene Gabra5	A230018I05Ri	gamma-aminobutyric acid (GABA) A receptor, subur	NM_176942.4
21	Gene Atp10a	pfatp, Atp10a,	ATPase, class V, type 10A	NM_009728.2
34	Gene Ube3a	mKIAA4216, A	ubiquitin protein ligase E3A	NM_011668.2, NM
20	Gene Mkrn3	Zfp127, D7H15	makorin, ring finger protein, 3	NM_011746.2
21	Gene Peg12	Peg12, Frat3	paternally expressed 12	NM_013788.2
40	Gene Klf13	Klf13, FKLF-2,	Kruppel-like factor 13	NM_021366.3
24	Gene Fam189a	Fam189a1, AM	family with sequence similarity 189, member A1	NM_183087.4
24	Gene Ndnl2	Ndnl2, AI6421	neccin-like 2	NM_023239.4
25	Gene Gm7546	EG665234, Gr	predicted gene 7546	XM_003086612.1,
25	Gene Tarsl2	MGC31414, A5	threonyl-tRNA synthetase-like 2	NM_172310.2
17	Gene Tm2d3	Tm2d3, 11100	TM2 domain containing 3	NM_026795.3, NM
32	Gene Pcsk6	Pace4, Pcsk6,	proprotein convertase subtilisin/kexin type 6	NM_011048.1
49	Gene Snrpa1	Snrpa1, 15000	small nuclear ribonucleoprotein polypeptide A'	NM_021336.4

49	Gene Vimp	Sels, H-47, H4, Vimp, 1500011E07Rik, H47, C78786, H-4	NM_024439.3
30	Gene Chsy1	KIAA0990, mKl chondroitin sulfate synthase 1	NM_001081163.1
23	Gene Lrrk1	MGC28646, m leucine-rich repeat kinase 1	NM_146191.3
23	Gene Aldh1a3	RALDH3, ALDH aldehyde dehydrogenase family 1, subfamily A3	NM_053080.3
29	Gene Adamts1	Adamts17, AU023434	NM_001033877.4
35	Gene Mef2a	A430079H05R myocyte enhancer factor 2A	NM_001033713.1
39	Gene Synm	Synemin, E130 synemin, intermediate filament protein	NM_201639.2, NM
32	Gene Igf1r	IGF-1R, A3301 insulin-like growth factor I receptor	NM_010513.2
30	Gene Arrdc4	AV216361, Arr arrestin domain containing 4	NM_001042592.2
29	Gene Nr2f2	COUP-TF2, Apr nuclear receptor subfamily 2, group F, member 2	NM_183261.3, NM
29	Gene B130024	B130024G19Ri RIKEN cDNA B130024G19 gene	NR_045850.1
23	Gene A730056	A730056A06Ri RIKEN cDNA A730056A06 gene	NR_040324.1, NR_
23	Gene Rgma	MGC69915, BC RGM domain family, member A	NM_177740.5
30	Gene 1810026	1810026B05Ri RIKEN cDNA 1810026B05 gene	NR_037569.1
23	Gene Gm7710	Gm7710, EG66 predicted gene 7710	XR_107915.1, XR_
28	Gene Fam174l	MGC31276, Fa family with sequence similarity 174, member B	NM_001162532.1
21	Gene St8sia2	St8sia2, STX, A ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltran	NM_009181.2
24	Gene Slco3a1	Slco3a1, MJAN solute carrier organic anion transporter family, mem	NM_001038643.1
24	Gene Akap13	PROTO-LB, LBCA kinase (PRKA) anchor protein 13	NM_029332.1
27	Gene Mir7-2	Mirn7-2, mmu microRNA 7-2	NR_029826.1
27	Gene Aen	Isg20l1, Aen, 2 apoptosis enhancing nuclease	NM_026531.4, NM
28	Gene Abhd2	Labh-2, LABH2 abhydrolase domain containing 2	NM_018811.6
25	Gene Polg	PolgA, AA4095 polymerase (DNA directed), gamma	NM_017462.2
25	Gene Gm1061	Gm10616, ENS predicted gene 10616	XR_105123.1
33	Gene Ticrr	Ticrr, 5730590 TOPBP1-interacting checkpoint and replication regu	NM_029835.1
23	Gene Kif7	Kif7, MGC176C kinesin family member 7	NM_010626.2
23	Gene Plin1	6030432J05Ri perilipin 1	NM_175640.2, NM
23	Gene Zfp710	AI324798, 543 zinc finger protein 710	NM_175433.5, NM
22	Gene Gm2105	Gm21057 predicted gene, 21057	NR_045695.1
41	Gene Idh2	Idh-2, IDPm, E isocitrate dehydrogenase 2 (NADP+), mitochondrial	NM_173011.2
29	Gene Sema4b	Semac, KIAA17 sema domain, immunoglobulin domain (Ig), transme	NM_013659.4
24	Gene Cib1	Cib1, Kip, Cibki calcium and integrin binding 1 (calmyrin)	NM_011870.4
24	Gene Gdpgp1	Gdpgp1, D330012F22Rik	NM_178752.3
26	Gene Ttl13	Ttl13, 492153 tubulin tyrosine ligase-like family, member 13	NM_177765.3
26	Gene Ngrn	Ngrn, AW5520 neugrin, neurite outgrowth associated	NM_031375.4, NR
27	Gene Vps33b	Vps33b, MGC3 vacuolar protein sorting 33B (yeast)	NM_178070.4
27	Gene Prc1	MGC6745, Prc protein regulator of cytokinesis 1	NM_145150.2
19	Gene Unc45a	AW538196, Ur unc-45 homolog A (C. elegans)	NM_133952.2
19	Gene Hddc3	C86475, Hddc3 HD domain containing 3	NM_026812.2
24	Gene Man2a2	MX, AI480988, mannosidase 2, alpha 2	NM_172903.4
24	Gene Fes	BB137047, AI5 feline sarcoma oncogene	NM_010194.2
23	Gene Furin	Pcsk3, SPC1, P. furin (paired basic amino acid cleaving enzyme)	NM_011046.2, NM
40	Gene Crtc3	AI429792, BC0 CREB regulated transcription coactivator 3	NM_173863.2
26	Gene Iqgap1	mKIAA0051, A IQ motif containing GTPase activating protein 1	NM_016721.2
33	Gene Zscan2	Zscan2, Zfp29, zinc finger and SCAN domain containing 2	NM_009553.2
22	Gene Zfp592	Zfp592, A7300 zinc finger protein 592	NM_178707.4
25	Gene Pde8a	Pde8a, Pde8, P phosphodiesterase 8A	NM_008803.2

38	Gene Rps17	MGC107579, Ribosomal protein S17	NM_009092.3
38	Gene Cpeb1	Cpeb, AU0241 cytoplasmic polyadenylation element binding protein	NM_001252525.1
16	Gene Ap3b2	AU042881, AP3 adaptor-related protein complex 3, beta 2 subunit	NM_021492.3
37	Gene Fsd2	9830160G03Ri fibronectin type III and SPRY domain containing 2	NM_172904.2
37	Gene Whamm	KIAA1971, MG WAS protein homolog associated with actin, golgi membrane protein	NM_001004185.3
28	Gene Fam103i	Fam103a1, 26: family with sequence similarity 103, member A1	NM_025997.2
35	Gene Btdb1	Btdb1, 119000 BTB (POZ) domain containing 1	NM_146193.2
19	Gene Tm6sf1	BC023123, C6: transmembrane 6 superfamily member 1	NM_145375.3
21	Gene Hdgfrp3	HRP-3, Hdgfrp: hepatoma-derived growth factor, related protein 3	NM_013886.4
23	Gene Bnc1	Bnc, Bnc1, AW basонуclin 1	NM_007562.2
27	Gene Fam154i	D030069K18, F family with sequence similarity 154, member B	NM_177894.4
27	Gene Eftud1	AU019507, 60: elongation factor Tu GTP binding domain containing	NM_175317.3, NM
43	Gene 1700010	1700010L04Ri RIKEN cDNA 1700010L04 gene	XR_107922.1, XR_
43	Gene Mex3b	4931439A04Ri mex3 homolog B (C. elegans)	NM_175366.3
49	Gene Mesdc1	Mesdc1, AW0: mesoderm development candidate 1	NM_030705.4
49	Gene Mesdc2	AW537813, M mesoderm development candidate 2	NM_023403.3
39	Gene Abhd17c	Fam108c1, Abl abhydrolase domain containing 17C	NM_133722.2
16	Gene Gm2115	Gm2115, C777 predicted gene 2115	NR_045098.1
25	Gene Fzd4	Fzd4, Fz4 frizzled homolog 4 (Drosophila)	NM_008055.4
21	Gene 2310010	2310010J17Ri RIKEN cDNA 2310010J17 gene	NR_046006.1, NR_
21	Gene Picalm	mKIAA4114, Piphosphatidylinositol binding clathrin assembly protein	NM_001252520.1,
33	Gene Crebzf	LAZipII, SMILE, CREB/ATF bZIP transcription factor	NM_145151.2
33	Gene Tmem12	Tmem126a, 18 transmembrane protein 126A	NM_025460.2
28	Gene Ankrd42	4931426M20, ankyrin repeat domain 42	NM_028665.4
28	Gene Pcf11	KIAA0824, Pcf: cleavage and polyadenylation factor subunit homolog	NM_029078.3
21	Gene Fam181i	A830059I20Ri family with sequence similarity 181, member B	NM_021427.2
29	Gene Tenm4	mKIAA1302, O teneurin transmembrane protein 4	NM_011858.3
22	Gene Gab2	p97, Gab2, A14 growth factor receptor bound protein 2-associated protein	NM_010248.2, NM
23	Gene Usp35	Gm1088, Usp3 ubiquitin specific peptidase 35	NM_001177412.1
23	Gene Kctd21	EG622320, Kct potassium channel tetramerisation domain containing	NM_001039039.3
31	Gene Aamdc	1810020D17Ri adipogenesis associated Mth938 domain containing	NM_001177945.1,
31	Gene Rsf1	Gm164, MGC9 remodeling and spacing factor 1	NM_001081267.2
21	Gene LOC101055679	uncharacterized LOC101055679	XM_003945415.1
21	Gene Clns1a	ICLN, Clci, 261: chloride channel, nucleotide-sensitive, 1A	NM_023671.2
19	Gene Myo7a	sh1, Myo7a, U myosin VIIA	NM_008663.2, NM
21	Gene Capn5	Capn5	NM_007602.3
21	Gene Gm1693	Gm16938 predicted gene, 16938	NR_045969.1, NR_
29	Gene Acer3	1110057L18Ri alkaline ceramidase 3	NM_025408.2
20	Gene Tsku	Lrrc54, Tsku, E2ig4, Tsk, 9530051K01Rik	NM_001024619.3,
19	Gene Lrrc32	Lrrc32, EG434: leucine rich repeat containing 32	NM_001113379.1,
29	Gene 2210018	2210018M11R RIKEN cDNA 2210018M11 gene	NM_172280.2
18	Gene Wnt11	Wnt11 wingless-related MMTV integration site 11	NM_009519.2
34	Gene Uvrug	AI648770, Uvr: UV radiation resistance associated gene	NM_178635.3
23	Gene Dgat2	ARAT, DGAT-2, diacylglycerol O-acyltransferase 2	NM_026384.3
23	Gene Map6	Mtap6, Map-6 microtubule-associated protein 6	NM_010837.3, NM
23	Gene Serpinh1	Hsp47, Cbp2, Eserine (or cysteine) peptidase inhibitor, clade H, member 1	NM_009825.2, NM
29	Gene Gdpd5	BC024955, MG glycerophosphodiester phosphodiesterase domain containing	NM_201352.2

29	Gene Kihl35	2810406K13Rik, Kihl35	NM_028145.1
29	Gene Rps3	Rs_3, Rps3, D7 ribosomal protein S3	NM_012052.2
27	Gene Snord15	Rnu15-b, Snor: small nucleolar RNA, C/D box 14B	NR_002173.1
27	Gene Snord15	Rnu15-a, Snor: small nucleolar RNA, C/D box 15A	NR_002172.1
27	Gene Gm4980	Tpbgl, EG2451 predicted gene 4980	NM_001195529.1
20	Gene Rnf169	Rnf169, 29000 ring finger protein 169	NM_175388.3
30	Gene Pold3	P68, Pold3, P6 polymerase (DNA-directed), delta 3, accessory subunit	NM_133692.2
37	Gene Lipt2	2610209A20Ri lipoyl(octanoyl) transferase 2 (putative)	NM_026010.2
20	Gene Pgm2l1	Pgm2l1, 49314 phosphoglucomutase 2-like 1	NM_027629.3
20	Gene P4ha3	P4ha3, D9300: procollagen-proline, 2-oxoglutarate 4-dioxygenase (	NM_177161.4
21	Gene Ucp2	Ucp2, Slc25a8 uncoupling protein 2 (mitochondrial, proton carrier)	NM_011671.4
21	Gene Dnajb13	Dnajb13, Tsar: DnaJ (Hsp40) related, subfamily B, member 13	NM_153527.2
47	Gene Mrpl48	D4Erd786e, 1. mitochondrial ribosomal protein L48	NM_198831.2, NR
47	Gene Rab6a	Rab6a, AA419671, Rab6, 2610028L11Rik	NM_024287.4, NM
25	Gene Relt	E430021K24Ri RELT tumor necrosis factor receptor	NM_177073.6
40	Gene Arhgef1	8030463K16, ERho guanine nucleotide exchange factor (GEF) 17	NM_001081116.1
40	Gene P2ry6	P2ry6, 201020 pyrimidinergic receptor P2Y, G-protein coupled, 6	NM_183168.2
25	Gene Fchsd2	mKIAA0769, B: FCH and double SH3 domains 2	NM_199012.2, NM
20	Gene Clpb	Skd3, AL11824 ClpB caseinolytic peptidase B	NM_009191.3
38	Gene Inpp1l	Inpp1l, 51C, SH inositol polyphosphate phosphatase-like 1	NM_010567.2, NM
38	Gene Folr2	FBP2, Folbp-2, folate receptor 2 (fetal)	NM_008035.2
31	Gene Numa1	Numa1, AL022 nuclear mitotic apparatus protein 1	NM_133947.3
32	Gene Nup98	Nup96, Nup98 nucleoporin 98	NM_022979.1
19	Gene Rhog	Arhg, 2810426 ras homolog gene family, member G	NM_019566.3
19	Gene Stim1	Stim1, SIM stromal interaction molecule 1	NM_009287.4
20	Gene Apbb1	Rir, Fe65, Apbl amyloid beta (A4) precursor protein-binding, family	NM_001253885.1
20	Gene Hpx	Hpx, Hpxn, hx hemopexin	NM_017371.2
15	Gene Timm10	Tim10b, Timm translocase of inner mitochondrial membrane 10B	NM_019502.2
25	Gene Rrp8	Rrp8, AW5381 ribosomal RNA processing 8, methyltransferase, hor	NM_133951.1, NM
25	Gene Ilk	Ilk, AA511515, integrin linked kinase	NM_010562.2, NM
25	Gene Taf10	Taf10, TAFII30, TAF10 RNA polymerase II, TATA box binding protein	NM_020024.3
25	Gene Tpp1	TPP-I, Cln2, Tp tripeptidyl peptidase I	NM_009906.5
25	Gene Dchs1	PCDH16, CDH2 dachsous 1 (Drosophila)	NM_001162943.1
38	Gene Mrpl17	Mrpl17, MRP-I mitochondrial ribosomal protein L17	NM_025301.2
21	Gene Nlrp10	Nlrp10, 64305 NLR family, pyrin domain containing 10	NM_175532.3
21	Gene Eif3f	0610037M02R eukaryotic translation initiation factor 3, subunit F	NM_025344.2
18	Gene Stk33	Stk33, AW061: serine/threonine kinase 33	NM_054103.1
18	Gene 1700095	1700095J03Ri RIKEN cDNA 1700095J03 gene	XR_105148.3, XR_
18	Gene Trim66	Kiaa0298-hp, T: tripartite motif-containing 66	NM_181853.4, NM
39	Gene Rpl27a	MGC66730, L2 ribosomal protein L27A	NM_011975.3
39	Gene Snora3	MBI-28, Snora: small nucleolar RNA, H/ACA box 3	NR_028079.1
39	Gene St5	St5, 2010004N suppression of tumorigenicity 5	NM_001001326.1
26	Gene Tmem9k	Tmem9b, ICRF TMEM9 domain family, member B	NM_020050.1
26	Gene 4930431	4930431P19Ri RIKEN cDNA 4930431P19 gene	XR_168434.1, XR_
26	Gene Nrip3	A330103B05Ri nuclear receptor interacting protein 3	NM_020610.1
39	Gene Ipo7	C330016G14, I: importin 7	NM_181517.3
48	Gene Wee1	Wee1A, Wee1 WEE 1 homolog 1 (S. pombe)	NM_009516.3

22	Gene Swap70	Swap70, AV23 SWA-70 protein	NM_009302.3
20	Gene Ampd3	Ampd3 adenosine monophosphate deaminase 3	NM_009667.2
32	Gene Rnf141	Rnf141, AA792 ring finger protein 141	NM_025999.3
32	Gene Lyve1	Lyve-1, Crsbp- lymphatic vessel endothelial hyaluronan receptor 1	NM_053247.4
24	Gene Ctr9	Tsp, Tsbp, KIAA Ctr9, Paf1/RNA polymerase II complex component, I	NM_009431.2
31	Gene Eif4g2	DAP-5, p97, E1 eukaryotic translation initiation factor 4, gamma 2	NM_013507.3, NM
29	Gene Gm3960	Gm3960 predicted gene 3960	XR_168435.1, XR_
29	Gene Usp47	MGC118655, 4 ubiquitin specific peptidase 47	NM_133758.3, NM
21	Gene Mical2	Mical2, mKIAA microtubule associated monooxygenase, calponin a	NM_177282.5, NM
19	Gene Parva	2010012A22Ri parvin, alpha	NM_020606.5
32	Gene 2310014	2310014F06Ri RIKEN cDNA 2310014F06 gene	XR_107937.1, XR_
32	Gene Tead1	Tead1, Gtrgeo: TEA domain family member 1	NM_009346.3, NM
28	Gene Btdb10	Btdb10, 11100 BTB (POZ) domain containing 10	NM_133700.2
28	Gene Far1	2600011M19R fatty acyl CoA reductase 1	NM_027379.2, NM
27	Gene Rras2	TC21, 261001ε related RAS viral (r-ras) oncogene homolog 2	NM_025846.2
28	Gene Copb1	Copb1, 261001 coatomer protein complex, subunit beta 1	NM_033370.3
28	Gene Psma1	HC2, Psma1, C proteasome (prosome, macropain) subunit, alpha ty	NM_011965.2
23	Gene 4933406	4933406I18Ri RIKEN cDNA 4933406I18 gene	NR_029437.1, NR_
23	Gene Pde3b	AI847709, Pde phosphodiesterase 3B, cGMP-inhibited	NM_011055.2
34	Gene Pik3c2a	PI3KC2, Pik3c2 phosphatidylinositol 3-kinase, C2 domain containing	NM_011083.2
41	Gene Rps15a	Rps15a, A630C ribosomal protein S15A	NM_170669.2
41	Gene Arl6ip1	Arl6ip, ARMER ADP-ribosylation factor-like 6 interacting protein 1	NM_019419.2
29	Gene Smg1	mKIAA0421, C SMG1 homolog, phosphatidylinositol 3-kinase-relate	NM_001031814.1
29	Gene 4930583	4930583K01Ri RIKEN cDNA 4930583K01 gene	NR_027879.1
25	Gene Syt17	Syt17, Bk synaptotagmin XVII	NM_138649.1
24	Gene Itpripl2	Itpripl2, C1300 inositol 1,4,5-triphosphate receptor interacting prot	NM_001033380.3
25	Gene Gde1	Mir16, Gde1, F glycerophosphodiester phosphodiesterase 1	NM_019580.4
25	Gene Ccp110	6330503K22Ri centriolar coiled coil protein 110	NM_182995.1
30	Gene Knop1	2310008H09Ri lysine rich nucleolar protein 1	NM_023197.3, NM
30	Gene Iqck	Iqck, A230094 IQ motif containing K	NM_001081446.1
27	Gene Gprc5b	Gprc5b, AW12 G protein-coupled receptor, family C, group 5, mem	NM_022420.2, NM
22	Gene Dcun1d3	1700020A13Ri DCN1, defective in cullin neddylation 1, domain con	NM_173408.3, NM
22	Gene Lym1	1110065L10Ri Lyr motif containing 1	NM_029610.2
23	Gene Uqcrc2	Uqcrc2, 15000 ubiquinol cytochrome c reductase core protein 2	NM_025899.2
17	Gene Gm5737	Gm5737, EG43 predicted gene 5737	XM_003086636.1,
27	Gene Eef2k	Eef2k, eEF-2K, eukaryotic elongation factor-2 kinase	NM_001267710.1,
35	Gene Polr3e	Sin, RPC5, Polr polymerase (RNA) III (DNA directed) polypeptide E	NM_025298.3, NM
21	Gene Cdr2	MGC144811, C cerebellar degeneration-related 2	NM_007672.2
21	Gene 4933427	4933427G17Ri RIKEN cDNA 4933427G17 gene	NM_028955.1
26	Gene Mettl9	MNCb-5680, O methyltransferase like 9	NM_021554.2
36	Gene Usp31	6330567E21Ri ubiquitin specific peptidase 31	NM_001033173.1
45	Gene Cog7	Cog7, 563040C component of oligomeric golgi complex 7	NM_001033318.3
45	Gene Gga2	1200007E24Ri golgi associated, gamma adaptin ear containing, ARI	NM_028758.2
33	Gene Ears2	mKIAA1970, A glutamyl-tRNA synthetase 2 (mitochondrial)(putativ	NM_026140.2
33	Gene Ubfd1	D7Wsu128e, U ubiquitin family domain containing 1	NM_138589.2
29	Gene Palb2	Palb2, 473242 partner and localizer of BRCA2	NM_001081238.1
29	Gene Dctn5	Dctn5, C78178 dynactin 5	NM_021608.3

18	Gene Plk1	Plk, Plk1, STPK13	NM_011121.3
19	Gene Prkcb	Pkcb, A130082 protein kinase C, beta	NM_008855.2
29	Gene 4930413	4930413G21Ri RIKEN cDNA 4930413G21 gene	NR_045614.1
29	Gene Rbbp6	P2P-R, BB2336 retinoblastoma binding protein 6	NM_011247.2, NM
33	Gene Tnrc6a	Tnrc6, CAGH2 trinucleotide repeat containing 6a	NM_144925.3
27	Gene Gtf3c1	Gtf3c1	NM_207239.1
27	Gene D430042	D430042O09R RIKEN cDNA D430042O09 gene	NM_001081022.1
24	Gene Gsg1l	Gsg1l, A185243 GSG1-like	NM_001101488.1
33	Gene Xpo6	AL022631, mK exportin 6	NM_028816.2
24	Gene Sbk1	Sbk1, Sbk SH3-binding kinase 1	NM_145587.2
25	Gene Rabep2	Rabep2, Fra, Mrabaptin, RAB GTPase binding effector protein 2	NM_030566.2
17	Gene Tufm	EFTU, C76308, Tu translation elongation factor, mitochondrial	NM_172745.3, NM
27	Gene Atxn2l	A2lp, Atxn2l, Aataxin 2-like	NM_183020.1
19	Gene Eif3c	Eif3c, 3230401 eukaryotic translation initiation factor 3, subunit C	NM_146200.1
19	Gene Cln3	A1323623, Cln3 ceroid lipofuscinosis, neuronal 3, juvenile (Batten, S)	NM_009907.3, NM
21	Gene Slx1b	A1853643, 111 SLX1 structure-specific endonuclease subunit homolog	NM_029420.4, NR
21	Gene Bola2	1110025L05Ril bola-like 2 (E. coli)	NM_175103.3
21	Gene Coro1a	TACO, Clabp, C coronin, actin binding protein 1A	NM_009898.2
21	Gene Mapk3	Ert2, Erk1, Esr1 mitogen-activated protein kinase 3	NM_011952.2
24	Gene Gdpd3	1110015E22Ri glycerophosphodiester phosphodiesterase domain c	NM_024228.2
24	Gene Ypel3	Ypel3, 061004: yippee-like 3 (Drosophila)	NM_026875.2, NM
24	Gene Tbx6	Tbx6, rv T-box 6	NM_011538.2
31	Gene Ppp4c	Ppp4c, AU016 protein phosphatase 4, catalytic subunit	NM_019674.3
31	Gene Aldoa	Aldo-1, Aldoa, aldolase A, fructose-bisphosphate	NM_001177307.1
25	Gene Kctd13	Pdip1, AV2595 potassium channel tetramerisation domain containi	NM_172747.2
24	Gene Asphd1	Gm168, A8300 aspartate beta-hydroxylase domain containing 1	NM_001039645.1
24	Gene Sez6l2	MGC90604, Se seizure related 6 homolog like 2	NM_001252566.1
20	Gene D830042	D830044I16Ril RIKEN cDNA D830044I16 gene	XR_168437.1, XR_
20	Gene Cdipt	Pis1, Cdipt, Pis CDP-diacylglycerol--inositol 3-phosphatidyltransfera	NM_026638.3
46	Gene Mvp	Mvp, LRP, 231 major vault protein	NM_080638.3
46	Gene Pagr1a	Pagr1a, 29000 PAXIP1 associated glutamate rich protein 1A	NM_030240.1
46	Gene Prrt2	DSPB3, Prrt2, proline-rich transmembrane protein 2	NM_001102563.1
46	Gene Maz	SAF-1, PUR1, MYC-associated zinc finger protein (purine-binding t	NM_010772.1
46	Gene Kif22	Kid, AU021460 kinesin family member 22	NM_145588.1
37	Gene Zg16	1810010M01R zymogen granule protein 16	NM_026918.2
22	Gene Tbc1d10	Tbc1d10b, 111 TBC1 domain family, member 10b	NM_144522.5
22	Gene Mylpf	2410014J02Ril myosin light chain, phosphorylatable, fast skeletal m	NM_016754.5
22	Gene Sept1	Pnutl3, Sept1, septin 1	NM_017461.2
38	Gene Gm4532	Gm4532, 1000 predicted gene 4532	NR_030674.1
38	Gene Zfp553	ENSMUSG000 zinc finger protein 553	NM_146201.1
24	Gene Zfp771	G630024C07Ril zinc finger protein 771	NM_177362.3
27	Gene Sephs2	Sephs2, Ysg3, selenophosphate synthetase 2	NM_009266.3
28	Gene Itgal	Cd11a, LFA-1, integrin alpha L	NM_001253872.1
28	Gene Zfp768	BC026432, Zfp zinc finger protein 768	NM_146202.1
33	Gene Zfp689	Zfp689, 49334 zinc finger protein 689	NM_175163.3
21	Gene Prr14	BC006909, MC proline rich 14	NM_145589.2
32	Gene 1700008	1700008J07Ril RIKEN cDNA 1700008J07 gene	NR_024331.1

32	Gene Srcap	D030022P06Ri Snf2-related CREBBP activator protein	XM_003086644.1,
19	Gene Rnf40	Rnf40, MGC19 ring finger protein 40	NM_172281.2
25	Gene 1700120	1700120K04Ri RIKEN cDNA 1700120K04 gene	NR_027915.1
25	Gene Zfp629	9330199A09Ri zinc finger protein 629	NM_177226.5
27	Gene Bcl7c	C230096E12Ri B cell CLL/lymphoma 7C	NM_009746.2
27	Gene Mir762	mmu-mir-762, microRNA 762	NR_030428.1
27	Gene Ctf1	CT-1, Ctf1 cardiotrophin 1	NM_007795.1
27	Gene Ctf2	NP, Gm494, Ct cardiotrophin 2	NM_198858.1
28	Gene Fbxl19	Fbl19, BC0598 F-box and leucine-rich repeat protein 19	NM_172748.2
28	Gene Orai3	9930124N15, (ORAI calcium release-activated calcium modulator 3	NM_198424.3
28	Gene Setd1a	Nscn1, MGC5 SET domain containing 1A	NM_178029.3
31	Gene Stx4a	Syn4, Stx4a, St syntaxin 4A (placental)	NM_009294.3
30	Gene Zfp668	BC030314, E1 zinc finger protein 668	NM_146259.3
30	Gene Zfp646	Zfp646, 68204 zinc finger protein 646	NM_172749.4
30	Gene Prss53	BC039632, FLJ protease, serine, 53	NM_001081268.1
20	Gene Prss36	Prss36, C3300 protease, serine, 36	NM_001081374.1
26	Gene BC01715	BC017158, MG cDNA sequence BC017158	NM_145590.2
26	Gene Mir3103	Mir3103, mmu microRNA 3103	NR_037290.1
21	Gene Rgs10	2310010N19Ri regulator of G-protein signalling 10	NM_026418.2
29	Gene Bag3	Bis, mg638, AA BCL2-associated athanogene 3	NM_013863.5
35	Gene Mcmbp	Mcmbp, BC02 MCM (minichromosome maintenance deficient) bin	NM_145955.3
35	Gene Sec23ip	p125, D7Ert3 Sec23 interacting protein	NM_001029982.2
27	Gene Fgfr2	KGFRTr, KGFR, fibroblast growth factor receptor 2	NM_010207.2, NM
35	Gene Ate1	Ate1, AI22579 arginyltransferase 1	NM_013799.2, NM
29	Gene Nsmce4	Nsmce4a, 241 non-SMC element 4 homolog A (S. cerevisiae)	NM_001162855.1
23	Gene Tacc2	KIAA4180, mKl transforming, acidic coiled-coil containing protein 2	NM_001004468.2
23	Gene Gm5602	EG434249, Grr predicted gene 5602	XR_105170.2, XR_
23	Gene Plekha1	Plekha1, TAPP pleckstrin homology domain containing, family A (pl	NM_133942.2
25	Gene Htra1	AI429470, RSP HtrA serine peptidase 1	NM_019564.3
26	Gene 2310057	AI429544, 311 RIKEN cDNA 2310057M21 gene	NM_026655.3
26	Gene Pstk	Pstk, R75284, phosphoseryl-tRNA kinase	NM_001039534.1
28	Gene Ikzf5	Ikzf5, PEGASU IKAROS family zinc finger 5	NM_175115.4
28	Gene Acadsb	Acadsb, 13000 acyl-Coenzyme A dehydrogenase, short/branched cl	NM_025826.4
21	Gene Hmx2	Hmx2, Nkx-5.2 H6 homeobox 2	NM_145998.3
21	Gene Bub3	AU043350, Bu budding uninhibited by benzimidazoles 3 homolog (:	NM_009774.3
23	Gene Gpr26	9630036A11Ri G protein-coupled receptor 26	NM_173410.3
23	Gene Chst15	GalNAcS-6ST, carbohydrate (N-acetylgalactosamine 4-sulfate 6-O)	NM_029935.5
23	Gene Gm1946	Gm19463 predicted gene, 19463	XR_140846.1, XR_
23	Gene Gm1058	ENSMUSG000 predicted gene 10584	NR_028578.1
30	Gene Fam53b	Fam53b, mKIA family with sequence similarity 53, member B	NM_212473.1, NM
27	Gene 1500002	ENSMUSG000 RIKEN cDNA 1500002F19 gene	XR_140847.2, XR_
30	Gene Ctbp2	Ctbp2, Ribeye, C-terminal binding protein 2	NM_009980.4, NM
30	Gene 4930483	4930483O08Ri RIKEN cDNA 4930483O08 gene	NR_046279.1
24	Gene 2700050	MGC27934, 27 RIKEN cDNA 2700050L05 gene	NM_178115.4
22	Gene Uros	AI415298, Uro uroporphyrinogen III synthase	NM_009479.2
22	Gene Bccip	1110013J05Ri BRCA2 and CDKN1A interacting protein	NM_025392.2
29	Gene Dhx32	3110079L04Ri DEAH (Asp-Glu-Ala-His) box polypeptide 32	NM_133941.2

29	Gene Fank1	Fank1, 170000 fibronectin type 3 and ankyrin repeat domains 1	NM_025850.2
25	Gene Dock1	9130006G06Ri dedicator of cytokinesis 1	NM_001033420.2
20	Gene Clrn3	Clrn3, MGC376 clarin 3	NM_178669.5
22	Gene Ptpre	PTPe, Ptpre, P ⁺ protein tyrosine phosphatase, receptor type, E	NM_011212.3
39	Gene Mki67	Ki-67, Mki67, T antigen identified by monoclonal antibody Ki 67	NM_001081117.2
17	Gene Ebf3	3110018A08Ri early B cell factor 3	NM_010096.3, NM
20	Gene Glrx3	Txn12, Glrx3, P glutaredoxin 3	NM_023140.4
26	Gene Mapk1i	AU043776, 23: mitogen-activated protein kinase 1 interacting prote	NM_001045483.1,
26	Gene Ppp2r2d	D7ErtD753e, 1 protein phosphatase 2, regulatory subunit B, delta is	NM_026391.2
25	Gene Jakmip3	Jakmip3, AI593 janus kinase and microtubule interacting protein 3	NM_028708.1
25	Gene Dpysl4	Crmp3, Dpysl4 dihydropyrimidinase-like 4	NM_011993.4
25	Gene Lrrc27	1700071K18Ri leucine rich repeat containing 27	NM_027164.1, NM
25	Gene Pwwp2b	D7ErtD517e, P PWWP domain containing 2B	NM_001033206.2,
21	Gene Inpp5a	Inpp5a inositol polyphosphate-5-phosphatase A	NM_183144.3, NM
21	Gene Nkx6-2	Nkx6.2, Gtx, N NK6 homeobox 2	NM_183248.3, NR
23	Gene Kndc1	very-kind, KIAA kinase non-catalytic C-lobe domain (KIND) containin	NM_177261.4
23	Gene Utf1	AI505934, Utf1 undifferentiated embryonic cell transcription factor	NM_009482.2
29	Gene Tubgcp2	1700022B05Ri tubulin, gamma complex associated protein 2	NM_133755.2
29	Gene Zfp511	C86579, Zfp511 zinc finger protein 511	NM_027201.1
29	Gene Msx3	Msx3, AI32337 homeobox, msh-like 3	NM_010836.3
21	Gene Paox	Paox, Pao, 241 polyamine oxidase (exo-N4-amino)	NM_153783.4
21	Gene Mtg1	MGC28365, M mitochondrial GTPase 1 homolog (S. cerevisiae)	NM_199301.2
36	Gene C330022	C330022C24Ri RIKEN cDNA C330022C24 gene	NR_045717.1
36	Gene Scgb1c1	Ryd5, Scgb1c1 secretoglobin, family 1C, member 1	NM_001099742.1
36	Gene Odf3	Odf3, 1700011 outer dense fiber of sperm tails 3	NM_027019.3
36	Gene Bet1l	Gs15, 2610021 blocked early in transport 1 homolog (S. cerevisiae)-	NM_018742.5
36	Gene Ric8	Ric8, Ric8a, RIK resistance to inhibitors of cholinesterase 8 homolog	NM_053194.4
36	Gene Sirt3	Sirt3, 2310003 sirtuin 3 (silent mating type information regulation 2	NM_022433.2, NM
25	Gene Psm13	Psm13, S11 proteasome (prosome, macropain) 26S subunit, non	NM_011875.4
24	Gene Hras1	Harvey-ras, ras Harvey rat sarcoma virus oncogene 1	NM_001130443.1
30	Gene Lrrc56	Lrrc56, 573042 leucine rich repeat containing 56	NM_001172064.1
30	Gene 1600016	1600016N20Ri RIKEN cDNA 1600016N20 gene	NM_028050.2
30	Gene Rassf7	Rassf7, AW210 Ras association (RalGDS/AF-6) domain family (N-term	NM_025886.3
30	Gene Mir210	mmu-mir-210, microRNA 210	NR_029793.1
24	Gene Cend1	AI415214, BM1 cell cycle exit and neuronal differentiation 1	NM_021316.4
38	Gene Slc25a22	Gc1, Slc25a22, solute carrier family 25 (mitochondrial carrier, gluta	NM_001177576.1,
38	Gene Lrdd	Lrdd, AU04244 leucine-rich and death domain containing	NM_022654.1
38	Gene Rplp2	2700049I22Ri ribosomal protein, large P2	NM_026020.6
38	Gene Snora52	MBI-20, Snora: small nucleolar RNA, H/ACA box 52	NR_034049.2
38	Gene Pnpla2	TTS-2.2, Pnpla: patatin-like phospholipase domain containing 2	NM_001163689.1
44	Gene Efcab4a	Efcab4a, 6330 EF-hand calcium binding domain 4A	NM_001025103.2
44	Gene Cd151	PETA-3, SFA-1, CD151 antigen	NM_009842.3, NM
44	Gene Polr2l	2510029B14Ri polymerase (RNA) II (DNA directed) polypeptide L	NM_025593.1
44	Gene Tspan4	D130042I01Ri tetraspanin 4	NM_001252588.1,
16	Gene Ap2a2	AF006990, AW adaptor-related protein complex 2, alpha 2 subunit	NM_007459.3
19	Gene Dusp8	Nt1p1, AI5934 dual specificity phosphatase 8	NM_008748.3
24	Gene Gm4559	Gm4559 predicted gene 4559	NM_001199309.1

24	Gene E330027	E330027M22R RIKEN cDNA gene, E330027M22Rik	XR_140867.1, XR_
30	Gene Ctsd	CD, Ctsd, CatD cathepsin D	NM_009983.2
30	Gene Mrpl23	L23mrp, Rpl23 mitochondrial ribosomal protein L23	NM_011288.1
16	Gene Igf2	Igf-II, Igf-2, M6 insulin-like growth factor 2	NM_010514.3, NM
16	Gene Mir483	mir-483, Mirn4 microRNA 483	NR_030251.1
16	Gene Igf2as	Igf2as, Peg8 insulin-like growth factor 2, antisense	NR_002855.2
22	Gene Ascl2	Ascl2, 241008: achaete-scute complex homolog 2 (Drosophila)	NM_008554.3
36	Gene R74862	R74862 expressed sequence R74862	NR_015529.1
36	Gene Cd81	Tapa1, Tapa-1, CD81 antigen	NM_133655.2
33	Gene Cdkn1c	p57Kip2, Cdkn cyclin-dependent kinase inhibitor 1C (P57)	NM_009876.4, NM
27	Gene Nap1l4	Nap1l4, D7Wsi nucleosome assembly protein 1-like 4	NM_008672.2
27	Gene Cars	Cars, CA3 cysteinyl-tRNA synthetase	NM_001252593.1
25	Gene Ctnn	Ctnn, 1110020i cortactin	NM_001252572.1
25	Gene Ppfia1	C030014K08Ri protein tyrosine phosphatase, receptor type, f polyp	NM_001195086.1
19	Gene Fgf3	Int-P, Fgf-3, Int fibroblast growth factor 3	NM_008007.2
21	Gene Ccnd1	AI327039, Cyl- cyclin D1	NM_007631.2
21	Gene 1810010	Gm2572, 1810 RIKEN cDNA 1810010D01 gene	NR_033626.1
16	Gene A430078	A430078G23R RIKEN cDNA A430078G23 gene	NM_001033378.3
16	Gene Arhgef1	AI467246, D03 rho/rac guanine nucleotide exchange factor (GEF) 1	NM_133962.3
19	Gene 1700019	1700019B03Ri RIKEN cDNA 1700019B03 gene	NM_029598.1
19	Gene Zfp358	Zfend, Zfp358 zinc finger protein 358	NM_080461.2
19	Gene Mcoln1	MGC7172, TRF mucolipin 1	NM_053177.1
18	Gene C330021	C330021F23Ri RIKEN cDNA C330021F23 gene	NM_001024728.2
18	Gene Gm1018	ENSMUSG000i ribosomal protein S23 pseudogene	
18	Gene Camsap	Kiaa1543, 231i calmodulin regulated spectrin-associated protein fa	NM_001163749.1
18	Gene 1810033	Mcomp1, 1810033B17Rik	NM_026985.1
18	Gene BB09427	664858, BB094 expressed sequence BB094273	XR_168441.1, XR_
18	Gene Trappc5	TRS31, Trappc: trafficking protein particle complex 5	NM_025701.4
18	Gene Fcer2a	Fce2, Fcer2, Cf Fc receptor, IgE, low affinity II, alpha polypeptide	NM_013517.4, NM
31	Gene Gm1437	Gm14378, OTI predicted gene 14378	NM_001195258.1
31	Gene Snapc2	AU015675, Sn: small nuclear RNA activating complex, polypeptide 2	NM_133968.1
31	Gene Ctxn1	BC028881, Ctx cortexin 1	NM_183315.2
31	Gene Timm44	MGC118030, C translocase of inner mitochondrial membrane 44	NM_011592.2
31	Gene Elavl1	Hua, HUR, Elav ELAV (embryonic lethal, abnormal vision)-like 1 (Hu	NM_010485.3
31	Gene Ccl25	Scya25, TECK, i chemokine (C-C motif) ligand 25	NM_009138.3, NR
26	Gene Gm7461	EG665044, Gr predicted gene 7461	XR_168442.1, XR_
28	Gene Shcbp1	Shcbp1, mPAL Shc SH2-domain binding protein 1	NM_011369.2
26	Gene Efnb2	Epl5, Htk-L, NL ephrin B2	NM_010111.5
26	Gene 4921522	4921522P10Ri RIKEN cDNA 4921522P10 gene	XR_107972.1, XR_
26	Gene Arglu1	C130008N12, i arginine and glutamate rich 1	NM_176849.3
37	Gene Irs2	Irs-2, Irs2 insulin receptor substrate 2	NM_001081212.1
37	Gene 9530052	9530052E02Ri RIKEN cDNA 9530052E02 gene	NR_046017.1
39	Gene Col4a1	Col4a-1, Del(8) collagen, type IV, alpha 1	NM_009931.2
39	Gene Col4a2	canstatin, Col4 collagen, type IV, alpha 2	NM_009932.3
27	Gene Rab20	MGC107554, FRAB20, member RAS oncogene family	NM_011227.1
27	Gene E230013	E230013L22Ril RIKEN cDNA E230013L22 gene	XR_105187.2, XR_
40	Gene Carkd	0710008K08Ri carbohydrate kinase domain containing	NM_001190357.1

45	Gene Cars2	2310051N18Ri	cysteinyl-tRNA synthetase 2 (mitochondrial)(putativ	NM_024248.1
45	Gene Ing1	AI875420,	p37 inhibitor of growth family, member 1	NM_011919.4
43	Gene Ankrd10	AW549277,	Ar ankyrin repeat domain 10	NM_133971.2, NM
38	Gene Arhgef7	Cool,	betaPix-k Rho guanine nucleotide exchange factor (GEF7)	NM_017402.4, NM
31	Gene Tubgcp3	Tubgcp3,	Spc9 tubulin, gamma complex associated protein 3	NM_198031.1
21	Gene Atp11a	4930558F19Ri	ATPase, class VI, type 11A	NM_015804.3
24	Gene Mcf2l	C130040G20Ri	mcf.2 transforming sequence-like	NM_178076.3, NM
36	Gene Pcid2	Pcid2,	A73004: PCI domain containing 2	NM_178708.3
36	Gene Cul4a	MGC36573,	28cullin 4A	NM_146207.2
26	Gene Lamp1	Lamp-1,	AI196 lysosomal-associated membrane protein 1	NM_010684.2
24	Gene Tfdp1	Tfdp1,	Dp1, Dr transcription factor Dp 1	NM_009361.2
28	Gene Gas6	Gas-6,	Gas6 growth arrest specific 6	NM_019521.2
25	Gene Rasa3	E130011G04,	(RAS p21 protein activator 3	NM_009025.2
29	Gene Cdc16	2700071J12Ri	CDC16 cell division cycle 16	NM_027276.2
25	Gene Upf3a	2600001C03Ri	UPF3 regulator of nonsense transcripts homolog A (	NM_025924.2
26	Gene Zfp828	Znf828,	Chamz zinc finger protein 828	NM_181854.2
26	Gene Coprs	AI256813,	170 coordinator of PRMT5, differentiation stimulator	NM_025556.3
27	Gene 2610019	2610019F03Ri	RIKEN cDNA 2610019F03 gene	NM_173744.4
21	Gene Arhgef10	6430549H08Ri	Rho guanine nucleotide exchange factor (GEF) 10	NM_001037736.1,
28	Gene Kbtbd11	2900016B01Ri	kelch repeat and BTB (POZ) domain containing 11	NM_029116.2
34	Gene Mcph1	BRIT1,	MGC66 microcephaly, primary autosomal recessive 1	NM_173189.2
38	Gene Agpat5	Agpat5,	11100 1-acylglycerol-3-phosphate O-acyltransferase 5 (lysc	NM_026792.3
25	Gene Xkr5	5430438H03Ri	X Kell blood group precursor-related family, membe	NM_176951.4, NM
31	Gene Atp7b	tx,	Atp7b, Atp7 ATPase, Cu++ transporting, beta polypeptide	NM_007511.2
31	Gene Alg11	AI849156,	AW: asparagine-linked glycosylation 11 (alpha-1,2-mann	NM_001243161.1
26	Gene Ckap2	AW228814,	AI: cytoskeleton associated protein 2	NM_001004140.2
26	Gene Vps36	2210415M20R	vacuolar protein sorting 36 (yeast)	NM_027338.1
19	Gene Smim19	AI316807,	BG6 small integral membrane protein 19	NM_001012667.2,
19	Gene Slc20a2	Pit2,	Ram1, Pit solute carrier family 20, member 2	NM_011394.3
19	Gene Gm1749	Gm17491	predicted gene, 17491	XR_105200.2, XR_
27	Gene Vdac3	Vdac3,	MGC10 voltage-dependent anion channel 3	NM_011696.2, NM
19	Gene Ap3m2	AP-3B,	583044 adaptor-related protein complex 3, mu 2 subunit	NM_029505.3, NM
35	Gene Kat6a	Myst3,	KAT6A, K(lysine) acetyltransferase 6A	NM_001081149.1
20	Gene Ank1	Ank-1,	Ank1, p ankyrin 1, erythroid	NM_031158.2, NM
20	Gene Mir486	Mir486,	Mir4 microRNA 486	NR_030254.1
20	Gene Mir3107	mmu-mir-3107	microRNA 3107	NR_037293.1
20	Gene Nkx6-3	Nkx6.3,	Nkx6-3 NK6 homeobox 3	NM_029002.2
20	Gene Agpat6	AU041707,	Ag 1-acylglycerol-3-phosphate O-acyltransferase 6 (lysc	NM_018743.4
24	Gene Sfrp1	AW742929,	sF secreted frizzled-related protein 1	NM_013834.3
29	Gene Adam9	MDC9,	mKIAA(a disintegrin and metallopeptidase domain 9 (meltri	NM_007404.2, NM
29	Gene Tm2d2	Blp1,	Tm2d2, 2 TM2 domain containing 2	NM_027194.3
29	Gene Htra4	Htra4,	B43020 HtrA serine peptidase 4	NM_001081187.3
36	Gene Tacc1	B230378H13Ri	transforming, acidic coiled-coil containing protein 1	NM_199323.2, NM
34	Gene Fgfr1	Hspy,	Flt-2, Fgl fibroblast growth factor receptor 1	NM_001079909.1
26	Gene Letm2	6030453H13,	Ileucine zipper-EF-hand containing transmembrane r	NM_173012.3
26	Gene Whsc1l1	Whsc1l1,	6720 Wolf-Hirschhorn syndrome candidate 1-like 1 (hum	NM_001001735.1,
24	Gene Ddhd2	SAMWD1,	mKIDHD domain containing 2	NM_028102.1

24	Gene Gm1748	Gm17484	predicted gene, 17484	XR_105203.2, XR_
36	Gene Bag4	SODD, Bag4, 2.	BCL2-associated athanogene 4	NM_026121.3
36	Gene Lsm1	2810025O06Ri	LSM1 homolog, U6 small nuclear RNA associated (S.	NM_026032.1
25	Gene Hgsnat	AW208455, Tn	heparan-alpha-glucosaminide N-acetyltransferase	NM_029884.1
25	Gene 4930444	4930444A02Rik,	Sgk196	NM_029037.4
26	Gene Hook3	Hook3, AI3171	hook homolog 3 (Drosophila)	NM_207659.3
26	Gene Rnf170	Rnf170, 67204	ring finger protein 170	NM_029965.2
42	Gene Zfp703	AI430822, Zep	zinc finger protein 703	NM_001101502.1
28	Gene Erlin2	Erlin2, BC0363	ER lipid raft associated 2	NM_153592.2
23	Gene Gpr124	Tem5, 953007.	G protein-coupled receptor 124	NM_054044.2
22	Gene Brf2	5730512K07Ri	BRF2, subunit of RNA polymerase III transcription in	NM_025686.2
25	Gene Rab11fip1	Rab11fip1, Rcç	RAB11 family interacting protein 1 (class I)	NM_001080813.2
25	Gene LOC101055849		uncharacterized LOC101055849	XM_003945436.1
29	Gene Eif4ebp1	Eif4ebp1, PHA:	eukaryotic translation initiation factor 4E binding pr	NM_007918.3
24	Gene Mir1186	Mir1186, mmu	microRNA 1186	NR_035414.1
24	Gene Rnf122	Rnf122, 11100	ring finger protein 122	NM_175136.2
29	Gene Tti2	BC019943, Tti:	TELO2 interacting protein 2	NM_144927.3, NM
29	Gene Mak16	Mak16, 26000	MAK16 homolog (S. cerevisiae)	NM_026453.3
17	Gene LOC101055986		uncharacterized LOC101055986	XM_003945437.1
17	Gene Gm3985	Gm3985	predicted gene 3985	NM_001177589.1
19	Gene Wrn	Wrn, AI84614ç	Werner syndrome homolog (human)	NM_011721.4, NM
19	Gene Purg	Purg, 4930486	purine-rich element binding protein G	NM_152821.2, NM
28	Gene Ppp2cb	AI115466, Ppp	protein phosphatase 2 (formerly 2A), catalytic subur	NM_017374.3
30	Gene 1700104	1700104B16Ri	RIKEN cDNA 1700104B16 gene	XR_140879.1
30	Gene Gtf2e2	Gtf2e2, 34kDa	general transcription factor II E, polypeptide 2 (beta	NM_026584.3, NM
30	Gene Smim18	AI835723, 270	small integral membrane protein 18	NM_001206849.1
20	Gene Rbpms	Rbpms, 27000	RNA binding protein gene with multiple splicing	NM_019733.2, NM
18	Gene Leprotl1	1110067H13Ri	leptin receptor overlapping transcript-like 1	NM_026609.2
18	Gene Tmem6ç	Tmem6ç, SAR:	transmembrane protein 66	NM_026432.3
27	Gene Dusp4	Dusp4, AI8446	dual specificity phosphatase 4	NM_176933.4
27	Gene Gm9648	Gm9648	predicted gene 9648	XR_168448.1, XR_
20	Gene Tnks	C86528, Tnks,	tankyrase, TRF1-interacting ankyrin-related ADP-rib	NM_175091.3
29	Gene Eri1	3'hexo, Eri1,	Tlexoribonuclease 1	NM_026067.3
27	Gene Gm1679	Gm16793	predicted gene, 16793	NR_040376.1
27	Gene Mfhas1	D8Erd91e, Mf	malignant fibrous histiocytoma amplified sequence	NM_001081279.1
25	Gene Lonrf1	Lonrf1	LON peptidase N-terminal domain and ring finger 1	NM_001081150.1
34	Gene Tusc3	AU022242, Tu:	tumor suppressor candidate 3	NM_030254.3
22	Gene Micu3	2900075B16Ri	mitochondrial calcium uptake family, member 3	NM_030110.1
26	Gene Cnot7	Pop2, AU0227.	CCR4-NOT transcription complex, subunit 7	NM_011135.4
26	Gene Vps37a	4930592A21Ri	vacuolar protein sorting 37A (yeast)	NM_033560.3
24	Gene Slc7a2	AI158848, Atrc	solute carrier family 7 (cationic amino acid transport	NM_007514.3, NM
25	Gene Mtus1	AI481402, MD:	mitochondrial tumor suppressor 1	NM_001005863.2
28	Gene Pcm1	Pcm1, 943007	pericentriolar material 1	NM_023662.3
23	Gene Asah1	2310081N20Ri	N-acylsphingosine amidohydrolase 1	NM_019734.2
36	Gene Gm9908	ENSMUSG000ç	predicted gene 9908	XR_168450.1, XR_
22	Gene Slc25a4	AU019225, Slc	solute carrier family 25 (mitochondrial carrier, aden	NM_007450.4
26	Gene Acsl1	Acsl1, FACS,	Acyl-CoA synthetase long-chain family member 1	NM_007981.3

33	Gene Gm1667	Gm16675	predicted gene, 16675	NR_045750.1
33	Gene Irf2	9830146E22Ri	interferon regulatory factor 2	NM_008391.4
30	Gene Stox2	AI449080,	493 storkhead box 2	NM_001114311.1
30	Gene 4930448	4930448N21Ri	RIKEN cDNA 4930448N21 gene	XM_003945439.1,
37	Gene Ing2	Ing2b,	281001 inhibitor of growth family, member 2	NM_023503.3
37	Gene AA3864	AA386476	expressed sequence AA386476	XM_003945440.1,
31	Gene Cdkn2aij	AW208986,	Cc CDKN2A interacting protein	NM_172407.3
26	Gene Wwc2	AU022508,	D8 WW, C2 and coiled-coil domain containing 2	NM_133791.4
32	Gene Dctd	6030466N05Ri	dCMP deaminase	NM_178788.4, NM
26	Gene Tenm3	mKIAA1455,	2t teneurin transmembrane protein 3	NM_011857.3, NM
23	Gene 2900073	2900073C17Ri	RIKEN cDNA 2900073C17 gene	XM_003945441.1,
26	Gene Spcs3	Spcs3,	181001 signal peptidase complex subunit 3 homolog (S. cere	NM_029701.1
34	Gene Scrg1	Scrg1,	AW124: scrapie responsive gene 1	NM_009136.3
34	Gene Sap30	30kDa,	Sap30 sin3 associated polypeptide	NM_021788.2
32	Gene Hmgb2	Hmgb2,	HMG- high mobility group box 2	NM_008252.3
32	Gene Galnt7	AI225872,	Gal1 UDP-N-acetyl-alpha-D-galactosamine: polypeptide N	NM_144731.4, NM
32	Gene AW0462	AW046200	expressed sequence AW046200	NR_040698.1
31	Gene Mfap3l	NYD-sp9,	mKIA microfibillar-associated protein 3-like	NM_001177881.1
26	Gene Sh3rf1	Sh3rf1,	Posh, SSH3 domain containing ring finger 1	NM_021506.2
22	Gene Cbr4	MGC6971,	A7: carbonyl reductase 4	NM_145595.2
24	Gene Palld	Palld,	6030492 palladin, cytoskeletal associated protein	NM_001081390.1
24	Gene Tmem19	3110005G23Ri	transmembrane protein 192	NM_028427.3, NM
30	Gene Naf1	Naf1,	Gm174 nuclear assembly factor 1 homolog (S. cerevisiae)	NM_001163564.1
22	Gene Csgalnac	4732435N03Ri	chondroitin sulfate N-acetylgalactosaminyltransferase	NM_001252623.1,
17	Gene Lpl	Lpl	lipoprotein lipase	NM_008509.2
18	Gene Zfp930	Zfp930,	D1062 zinc finger protein 930	NM_001013379.2
19	Gene Zfp964	4732490P12,	E zinc finger protein 964	NM_001177527.1
38	Gene Zfp869	Zfp869,	12000 zinc finger protein 869	NM_001039965.1
33	Gene Atp13a1	Atp13a1,	catp, ATPase type 13A1	NM_133224.2
39	Gene Yjefn3	YjeF_N3,	Gm1 YjeF N-terminal domain containing 3	XM_978251.4, XM
39	Gene Ndufa13	CGI-39,	GRIM- NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_023312.2
39	Gene Tsk6	Sstk,	Tsk6 testis-specific serine kinase 6	NM_032004.1
39	Gene Gatad2a	1110066C11Ri	GATA zinc finger domain containing 2A	NM_145596.3, NM
39	Gene Mau2	A930019L04Ri	MAU2 chromatid cohesion factor homolog (C. elega	NM_028993.4, NM
39	Gene Sugp1	5730496N02Ri	SURP and G patch domain containing 1	NM_027481.2
27	Gene Armc6	AW554412,	M armadillo repeat containing 6	NM_133972.2
27	Gene Sugp2	Sfrs14,	Sugp2, SURP and G patch domain containing 2	NM_172755.3, NM
23	Gene LOC100503831		uncharacterized LOC100503831	XR_108014.1, XR_
23	Gene Homer3	AW146114,	Hc homer homolog 3 (Drosophila)	NM_011984.2, NM
23	Gene Ddx49	Ddx49,	R2709(DEAD (Asp-Glu-Ala-Asp) box polypeptide 49	NM_001024922.2
26	Gene Cope	Cope,	111000: coatomer protein complex, subunit epsilon	NM_021538.1
26	Gene Cers1	Uog-1,	to, Lass1, Cers1, CerS1	NM_138647.3
26	Gene Gdf1	AI385651,	Gdf: growth differentiation factor 1	NM_008107.4, NM
34	Gene Upf1	Rent1,	PNORF- UPF1 regulator of nonsense transcripts homolog (ye	NM_030680.2, NM
20	Gene Comp	TSP5,	Comp cartilage oligomeric matrix protein	NM_016685.2
20	Gene Crtc1	Mect1,	TORC1 CREB regulated transcription coactivator 1	NM_001004062.2
33	Gene Crlf1	CRLM3,	NR6.1, cytokine receptor-like factor 1	NM_018827.2

33	Gene 2810428	2810428I15Rik	RIKEN cDNA 2810428I15 gene	NM_025577.2
33	Gene Uba52	Rps27a, Uba52	ubiquitin A-52 residue ribosomal protein fusion protein	NM_019883.3
33	Gene Kxd1	Kxd1, 2810422	KxDL motif containing 1	NM_029366.2
25	Gene Fkbp8	Fkbp8, FKBP-3:	FK506 binding protein 8	NM_010223.2, NM
31	Gene Ell	Ell, Ell1, Men	elongation factor RNA polymerase II	NM_007924.2
31	Gene Isyna1	AU018670, 13I	myo-inositol 1-phosphate synthase A1	NM_023627.1
31	Gene Ssbp4	AW743380, Ss	single stranded DNA binding protein 4	NM_133772.2
28	Gene Lrrc25	Lrrc25, Mapa	leucine rich repeat containing 25	NM_153074.3
24	Gene Gdf15	NAG-1, MIC-1,	growth differentiation factor 15	NM_011819.2
27	Gene Pgpep1	PGP, 2810003I	pyroglutamyl-peptidase I	NM_023217.4
63	Gene Jun	MGC6245, Jun	Jun proto-oncogene related gene d	NM_010592.4
63	Gene Gm1648	Gm502, Gm16	predicted gene 16486	XM_912668.3, XM
36	Gene Pde4c	MGC31320, Pc	phosphodiesterase 4C, cAMP specific	NM_201607.2
36	Gene Rab3a	Rab3a	RAB3A, member RAS oncogene family	NM_001166399.2
36	Gene Mpv17l2	Mpv17l2, MGC	MPV17 mitochondrial membrane protein-like 2	NM_183170.2
36	Gene Ifi30	Ifi30, GILT,	IP3 interferon gamma inducible protein 30	NM_023065.3
30	Gene Pik3r2	p85beta, Pik3r	phosphatidylinositol 3-kinase, regulatory subunit, p	NM_008841.2
30	Gene 2010320	2010320M18R	RIKEN cDNA 2010320M18 gene	NR_029440.1
30	Gene Mast3	mKIAA0561, B	microtubule associated serine/threonine kinase 3	NM_199308.2
24	Gene Arrdc2	4632416I05Rik	arrestin domain containing 2	NM_027560.1
24	Gene Kcnn1	AI854248, SK1	potassium intermediate/small conductance calcium	NM_032397.2
26	Gene A230052	A230052G05R	RIKEN cDNA A230052G05 gene	XR_108016.1, XR_
26	Gene Ccdc124	Ccdc124, 1810	coiled-coil domain containing 124	NM_026964.3
44	Gene Slc5a5	Slc5a5, NIS	solute carrier family 5 (sodium iodide symporter), m	NM_053248.2
44	Gene Rpl18a	Rpl18a, 25100	ribosomal protein L18A	NM_029751.4
44	Gene Snora68	MBI-30, Rnu68	small nucleolar RNA, H/ACA box 68	NR_002901.1
44	Gene Map1s	VCY2IP1, Map:	microtubule-associated protein 1S	NM_173013.3
30	Gene Haus8	Hice1, Haus8,	4HAUS augmin-like complex, subunit 8	NM_029621.3, NM
30	Gene Myo9b	Myo9b		NM_015742.2, NM
34	Gene Use1	AV002165, p3:	unconventional SNARE in the ER 1 homolog (S. cerev	NM_025917.4, NM
43	Gene Ocel1	AI326022, Oce	occludin/ELL domain containing 1	NM_029865.2
43	Gene Nr2f6	Erbal2, Nr2f6,	nuclear receptor subfamily 2, group F, member 6	NM_010150.2
48	Gene Ushbp1	9430064H24, U	Usher syndrome 1C binding protein 1	NM_181418.3
48	Gene Babam1	Babam1, 5430	BRISC and BRCA1 A complex member 1	NM_026636.2
48	Gene Ankle1	Lem3, 843043:	ankyrin repeat and LEM domain containing 1	NM_172756.2
29	Gene Abhd8	0910001L24Ril	abhydrolase domain containing 8	NM_022419.3
29	Gene Mrpl34	0610007O17Ri	mitochondrial ribosomal protein L34	NM_053162.2
29	Gene Dda1	Dda1, 170009:	DET1 and DDB1 associated 1	NM_025600.1
17	Gene Ano8	BC053460, Tm	anoctamin 8	NM_001164679.1
17	Gene Gtpbp3	MGC102372, 2	GTP binding protein 3	NM_032544.3
36	Gene Slc27a1	FATP1, Fatp,	Solute carrier family 27 (fatty acid transporter), men	NM_011977.3
36	Gene Pgl5	AI447866, Pgl5	6-phosphogluconolactonase	NM_025396.3
36	Gene Fam129c	Bcnp1, Fam12:	family with sequence similarity 129, member C	NM_001166213.1
28	Gene Glt25d1	Glt25d1, 2810	glycosyltransferase 25 domain containing 1	NM_146211.3
20	Gene Unc13a	2410078G03Ri	unc-13 homolog A (C. elegans)	NM_001029873.2
20	Gene Jak3	Jak3, wil, fae	Janus kinase 3	NM_001190830.1
16	Gene Zfp709	GIOT-4, MGC2	zinc finger protein 709	NM_145624.4

34	Gene Tpm4	Tpm4, 261052 tropomyosin 4	NM_001001491.1
21	Gene Rab8a	Mel, Rab8a, A/RAB8A, member RAS oncogene family	NM_023126.2
31	Gene Klf2	Lklf, Klf2 Kruppel-like factor 2 (lung)	NM_008452.2
31	Gene Eps15l1	9830147J04Ril epidermal growth factor receptor pathway substrate	NM_007944.3, NM
31	Gene Calr3	cspn, Crt2, 17C calreticulin 3	NM_029782.3, NM
48	Gene Cherp	5730408111Rik calcium homeostasis endoplasmic reticulum protein	NM_138585.3
48	Gene Slc35e1	AA408278, 60: solute carrier family 35, member E1	NM_177766.3
42	Gene Med26	Med26, 57304 mediator complex subunit 26	NM_027485.4
26	Gene Nwd1	A230063L24Ri NACHT and WD repeat domain containing 1	NM_176940.5
26	Gene Sin3b	Sin3b, 281043 transcriptional regulator, SIN3B (yeast)	NM_009188.3, NM
26	Gene Large	froggy, mKIAA like-glycosyltransferase	NM_010687.1
27	Gene Hmgxb4	E430025G12, HMG box domain containing 4	NM_178017.1
27	Gene Tom1	Tom1 target of myb1 homolog (chicken)	NM_011622.3, NM
26	Gene Hmox1	Hemox, Hmox, heme oxygenase (decycling) 1	NM_010442.2
26	Gene Mcm5	A1324988, mCl minichromosome maintenance deficient 5, cell divis	NM_008566.2
21	Gene Arhgap1	A930033B01Ri Rho GTPase activating protein 10	NM_030113.2
21	Gene 0610038	0610038B21Ri RIKEN cDNA 0610038B21 gene	NR_028125.1
28	Gene Prmt10	A1931714, Prm protein arginine methyltransferase 10 (putative)	NM_001081240.3
38	Gene Rbmxl1	Rbmxl1, Rbmx RNA binding motif protein, X linked-like-1	NM_009033.2, NM
38	Gene Slc10a7	2410193C02Ri solute carrier family 10 (sodium/bile acid cotranspor	NM_029736.1
26	Gene Zfp827	D630040G17R zinc finger protein 827	NM_178267.3
24	Gene Smad1	MusMPL, Mlp1, Madh1, Madr1, A1528653, Smad1	NM_008539.3
32	Gene Otud4	4930431L18Ril OTU domain containing 4	NM_001081164.1
37	Gene Abce1	C79080, Abce1 ATP-binding cassette, sub-family E (OABP), member	NM_015751.2
37	Gene Anapc10	Anapc10, A83C anaphase promoting complex subunit 10	NM_026904.2
19	Gene Hhip	Hhip, Hhip1 Hedgehog-interacting protein	NM_020259.4
33	Gene Smarca5	D030040M08F SWI/SNF related, matrix associated, actin dependen	NM_053124.2
39	Gene Gab1	AW107238, A/growth factor receptor bound protein 2-associated p	NM_021356.2
33	Gene Usp38	mKIAA1891, A ubiquitin specific peptidase 38	NM_027554.2
33	Gene LOC101055650	uncharacterized LOC101055650	XM_003945630.1
22	Gene Zfp330	Noa36, MGC1 zinc finger protein 330	NM_145600.1
30	Gene Elmod2	Elmod2, 98301 ELMO/CED-12 domain containing 2	NM_178736.5, NM
35	Gene Dnajb1	HSPF1, 06100C DnaJ (Hsp40) homolog, subfamily B, member 1	NM_018808.2
23	Gene Gipc1	GIPC, TIP-2, GI GIPC PDZ domain containing family, member 1	NM_018771.3
22	Gene Ptger1	EP1, Ptger1, Pt prostaglandin E receptor 1 (subtype EP1)	NM_013641.2
22	Gene Pkn1	F730027O18Ri protein kinase N1	NM_177262.4, NM
38	Gene Ddx39	2610307C23Ri DEAD (Asp-Glu-Ala-Asp) box polypeptide 39	NM_197982.3
38	Gene Cd97	TM7LN1, Cd97 CD97 antigen	NM_011925.2, NM
33	Gene Lphn1	mKIAA0821, A latrophilin 1	NM_181039.2
29	Gene Asf1b	1700003K02Ri ASF1 anti-silencing function 1 homolog B (S. cerevisi	NM_024184.2
29	Gene Prkaca	Pkaca, PKA, PK protein kinase, cAMP dependent, catalytic, alpha	NM_008854.4
24	Gene Samd1	AA589507, Sar sterile alpha motif domain containing 1	NM_001081415.1
24	Gene 1700067	1700067K01Ri RIKEN cDNA 1700067K01 gene	NM_183097.2
20	Gene 2210011	2210011C24Ri RIKEN cDNA 2210011C24 gene	XM_907367.2, XM
20	Gene Mir1199	Mirn1199, mir microRNA 1199	NR_035431.1
20	Gene Palm3	Palm3, 4432412L15Rik, AL024300	NM_028877.1
20	Gene Nanos3	nos3, Nanos3, nanos homolog 3 (Drosophila)	NM_194059.2

20	Gene Mir181d	Mir181d, Mirn microRNA 181d	NR_030534.1
20	Gene Mir181c	Mir181c, Mir microRNA 181c	NR_029821.1
32	Gene Mir23a	Mir23a, Mirn2 microRNA 23a	NR_029740.1
32	Gene Mir27a	Mir27a, mmu- microRNA 27a	NR_029746.1
32	Gene Mir24-2	Mir24-2, Mirn: microRNA 24-2	NR_029741.1
32	Gene Mir3074	mmu-mir-3074 microRNA 3074-2	NR_037294.1
32	Gene Zswim4	Zswim4, D330(zinc finger SWIM-type containing 4	NM_172503.3
37	Gene D8Ertd7	D8Ertd738e, A DNA segment, Chr 8, ERATO Doi 738, expressed	NM_001007571.2
37	Gene Mri1	2410018C20Ri methylthioribose-1-phosphate isomerase homolog (	NM_026423.4
37	Gene Ccdc130	Ccdc130, 4930 coiled-coil domain containing 130	NM_026350.2
15	Gene Cacna1a	Cav2.1, rocker, calcium channel, voltage-dependent, P/Q type, alph	NM_007578.3, NM
42	Gene Ier2	Pip92, Ier2, A: immediate early response 2	NM_010499.4
42	Gene Nacc1	Btbd14b, 4930 nucleus accumbens associated 1, BEN and BTB (POZ	NM_025788.3
20	Gene Trmt1	D8Ertd812e, 6 tRNA methyltransferase 1	NM_001164559.1
29	Gene Nfix	Nfix	NM_010906.2, NM
17	Gene G430095	G430095P16Ri RIKEN cDNA G430095P16 gene	XR_106143.1
29	Gene Dand5	coco, MGC144 DAN domain family, member 5	NM_201227.3, NR
29	Gene Gadd45	Crif1, Plinp1, Agrowth arrest and DNA-damage-inducible, gamma ir	NM_183358.4
52	Gene Rad23a	2310040P19Ri RAD23a homolog (S. cerevisiae)	NM_009010.4
52	Gene Calr	Calregulin, CR1 calreticulin	NM_007591.3
52	Gene 1700122	1700122E12Ri RIKEN cDNA 1700122E12 gene	XR_108068.1, XR_
52	Gene Farsa	Farsla, Farsa, C phenylalanyl-tRNA synthetase, alpha subunit	NM_025648.3
27	Gene Klf1	Eklf, Klf1, Nan Kruppel-like factor 1 (erythroid)	NM_010635.2
27	Gene Dnase2a	Dnase2a, Dnas deoxyribonuclease II alpha	NM_010062.3
27	Gene Mast1	9430008B02Ri microtubule associated serine/threonine kinase 1	NM_019945.2
26	Gene Rtbnd	Rtbnd, A33009 retbindin	NM_144929.2
27	Gene Rnaseh2	Rnaseh2a, RN/ ribonuclease H2, large subunit	NM_027187.3
31	Gene LOC101055733	uncharacterized LOC101055733	XM_003945631.1,
31	Gene Prdx2	TSA, Tdpx1, To peroxiredoxin 2	NM_011563.5
31	Gene Junb	Junb	NM_008416.3
24	Gene Hook2	MGC28586, M hook homolog 2 (Drosophila)	NM_133255.2, NM
21	Gene Asna1	ArsA, 1810048 arsA arsenite transporter, ATP-binding, homolog 1 (I	NM_019652.1
22	Gene 2310036	2310036O22Ri RIKEN cDNA 2310036O22 gene	NM_026760.2
29	Gene Tnp2	Kpnb2b, Tnp2: transportin 2 (importin 3, karyopherin beta 2b)	NM_145390.4, NM
29	Gene A230103	A230103J11Ri RIKEN cDNA A230103J11 gene	XR_140910.1, XR_
34	Gene Fbxw9	Fbxw9, 11100: F-box and WD-40 domain protein 9	NM_026791.2
34	Gene Gm5741	MGC182257, P predicted gene 5741	NM_001195531.1
34	Gene Dhps	Dhs, MGC7438 deoxyhypusine synthase	NM_001039514.1
34	Gene Wdr83	1500041N16Ri WD repeat domain containing 83	NM_026399.2
34	Gene BC05647	BC056474, MC cDNA sequence BC056474	NM_001001493.2
30	Gene Vps35	AI647796, Vps vacuolar protein sorting 35	NM_022997.4
30	Gene Orc6	Orc6, Orc6l, 67 origin recognition complex, subunit 6	NM_019716.2, NM
29	Gene Gpt2	ALT2, C87201, glutamic pyruvate transaminase (alanine aminotran	NM_173866.3
31	Gene Dnaja2	DNJ3, PRO301. DnaJ (Hsp40) homolog, subfamily A, member 2	NM_019794.4
25	Gene Itfg1	Itfg1, AI31445: integrin alpha FG-GAP repeat containing 1	NM_028007.3
25	Gene Phkb	AI463271, Phk phosphorylase kinase beta	NM_199446.1
35	Gene Lonp2	Lonp, Lonp2, A lon peptidase 2, peroxisomal	NM_025827.3, NM

26	Gene Siah1a	AA982064, Sin seven in absentia 1A	NM_009172.2
26	Gene Gm1063	Gm10638, ENS predicted gene 10638	NR_027829.1
27	Gene N4bp1	N4bp1, AI4815 NEDD4 binding protein 1	NM_030563.2
28	Gene Gm1987	Gm19872 predicted gene, 19872	XR_106147.2, XR_
28	Gene Cbln1	AI323299, Cblr cerebellin 1 precursor protein	NM_019626.3
28	Gene Gm2694	Gm2694 predicted gene 2694	NR_033430.1
18	Gene Zfp423	Zfp104, Roaz, zinc finger protein 423	NM_033327.2
28	Gene Cnep1r1	Tmem188, Cnc CTD nuclear envelope phosphatase 1 regulatory sub	NM_029074.3
22	Gene Papd5	5830428A09, PAP associated domain containing 5	NM_001164497.1
30	Gene Adcy7	MGC141539, Adenylate cyclase 7	NM_007406.2, NM
18	Gene Brd7	Brd7, Ptpn13ip bromodomain containing 7	NM_012047.2
20	Gene Nkd1	Nkd, 2810434J naked cuticle 1 homolog (Drosophila)	NM_027280.3, NM
21	Gene Snx20	9130017C17Ri sorting nexin 20	NM_027840.3
20	Gene Nod2	CD, IBD1, Nod: nucleotide-binding oligomerization domain containi	NM_145857.2
20	Gene Cyld	Cyld, C130039 cylindromatosis (turban tumor syndrome)	NM_173369.2, NM
23	Gene Chd9	A330063D19Ri chromodomain helicase DNA binding protein 9	NM_177224.2
33	Gene Rbl2	Rbl2, p130, Rb retinoblastoma-like 2	NM_011250.3
18	Gene Irx3	Irx3, AI894186 Iroquois related homeobox 3 (Drosophila)	NM_001253822.1
18	Gene LOC101055810	uncharacterized LOC101055810	XM_003945632.1,
16	Gene Mmp2	MMP-2, GelA, matrix metalloproteinase 2	NM_008610.2
26	Gene Amfr	Amfr, gp78 autocrine motility factor receptor	NM_011787.2
26	Gene Nudt21	Cpsf5, 311004i nudix (nucleoside diphosphate linked moiety X)-type	NM_026623.3
29	Gene Nup93	Nup93, 24100f nucleoporin 93	NM_172410.2
29	Gene Rpl10-ps	Rpl10-ps5, Gm ribosomal protein L10, pseudogene 5	
45	Gene Herpud1	Herpud1, SUP, homocysteine-inducible, endoplasmic reticulum stre	NM_022331.1
20	Gene Nlrc5	Nlrc5, AK2202: NLR family, CARD domain containing 5	NM_001033207.3
20	Gene Cpne2	3322401K10Ri copine II	NM_153507.2
31	Gene Ciapin1	Ciapin1, AU02: cytokine induced apoptosis inhibitor 1	NM_134141.4
31	Gene Gm7418	Gm7418 ribosomal protein L7A pseudogene	
31	Gene Coq9	Coq9, 231000f coenzyme Q9 homolog (yeast)	NM_026452.2
25	Gene Polr2c	Polr2c, mRBP3 polymerase (RNA) II (DNA directed) polypeptide C	NM_009090.5
25	Gene Dok4	Dok4 docking protein 4	NM_053246.3
20	Gene Ccdc102	Ccdc102a, Gm coiled-coil domain containing 102A	NM_001033533.3
20	Gene Gpr114	Gpr114, Gm11G protein-coupled receptor 114	NM_001033468.3
31	Gene Tepp	MGC107117, T testis, prostate and placenta expressed	NM_199455.1, NM
31	Gene Zfp319	Znf319, AI2257 zinc finger protein 319	NM_024467.3
31	Gene Usb1	AA960436, Usl U6 snRNA biogenesis 1	NM_133954.2
26	Gene Mmp15	Mmp15, AI503 matrix metalloproteinase 15	NM_008609.3
17	Gene Csnk2a2	1110035J23Ri casein kinase 2, alpha prime polypeptide	NM_009974.3
19	Gene Gins3	AI616142, 270 GINS complex subunit 3 (Psf3 homolog)	NM_030198.3
24	Gene Ndr4	SMAP-8, Ndr4, N-myc downstream regulated gene 4	NM_145602.3, NM
24	Gene Setd6	C76402, 3110C SET domain containing 6	NM_001035123.3
24	Gene Cnot1	MGC189936, CCR4-NOT transcription complex, subunit 1	NM_153164.3, NM
23	Gene 4930513	4930513N10Ri RIKEN cDNA 4930513N10 gene	NR_015574.2
21	Gene Bean1	Bean, MGC16f brain expressed, associated with Nedd4, 1	NM_001141922.1,
20	Gene Tk2	AU024611, Tk: thymidine kinase 2, mitochondrial	NM_021028.3, NR
20	Gene Cklf	CKLF3, CKLF4, chemokine-like factor	NM_001037841.2

20	Gene A730028	A730028G07R RIKEN cDNA A730028G07 gene	XR_108031.1, XR_108031.1
21	Gene Cmtm4	Cklfsf4, Cmtm4 CKLF-like MARVEL transmembrane domain containing 4	NM_153582.5
24	Gene Dync1li2	Dync1li2, AA401 dynein, cytoplasmic 1 light intermediate chain 2	NM_001013380.2
24	Gene Ccdc79	4930532D21Ri coiled-coil domain containing 79	NM_180958.3
22	Gene Nae1	Nae1, 59kDa, INEDD8 activating enzyme E1 subunit 1	NM_144931.3
22	Gene Car7	AV343731, Car carbonic anhydrase 7	NM_053070.3
16	Gene Cdh16	Cdh16	NM_001252627.1
16	Gene Rrad	Rrad, Rad, REN Ras-related associated with diabetes	NM_019662.2
16	Gene Fam96b	1110019N10Ri family with sequence similarity 96, member B	NM_026753.2
20	Gene Ces4a	Ces8, MGC311 carboxylesterase 4A	NM_146213.2
29	Gene Cbfb	PEA2, Pebpb2, core binding factor beta	NM_022309.4, NM_022309.4
32	Gene D230025	BC006874, D2: RIKEN cDNA D230025D16 gene	NM_145604.2
32	Gene B3gnt9	MGC117964, B3gnt9, 3-Gn-T9, C76565, beta-1, B3gnt9-ps, C76566	NM_178879.3
32	Gene Tradd	Tradd, AA9308 TNFRSF1A-associated via death domain	NM_001033161.2
32	Gene Fbxl8	FBL8, Fbxl8 F-box and leucine-rich repeat protein 8	NM_015821.2
23	Gene Hsf4	mHSF4, ldis1, l heat shock transcription factor 4	NM_001256042.1
35	Gene Nol3	Nop30, B4303: nucleolar protein 3 (apoptosis repressor with CARD domain)	NM_030152.4
35	Gene 4931428	Kiaa0895l, A14: RIKEN cDNA 4931428F04 gene	NM_028888.2, NM_028888.2
35	Gene Exoc3l	C730015A04Ri exocyst complex component 3-like	NM_177788.4
35	Gene E2f4	A1427446, 201 E2F transcription factor 4	NM_148952.1
22	Gene Elmo3	Ced12, Elmo3, engulfment and cell motility 3	NM_172760.3
22	Gene Mir328	Mirn328, mmu microRNA 328	NR_029761.1
20	Gene Fhod1	FHOS1, Fhod1, formin homology 2 domain containing 1	NM_177699.4
20	Gene Slc9a5	Slc9a5, Gm696 solute carrier family 9 (sodium/hydrogen exchanger) member 5	NM_001081332.1
40	Gene Zdhhc1	Zdhhc1, 44324 zinc finger, DHHC domain containing 1	NM_175160.3
22	Gene Atp6v0d	A1267038, Atp1 ATPase, H+ transporting, lysosomal V0 subunit D1	NM_013477.3
22	Gene Agrp	Art, Agrp, Agrt agouti related protein	NM_007427.2
26	Gene Fam65a	MGC100216, F family with sequence similarity 65, member A	NM_001081241.2
26	Gene Mir1966	mmu-mir-1966 microRNA 1966	NR_035492.1
26	Gene Gm5914	Gm5914 predicted gene 5914	XR_108033.1, XR_108033.1
26	Gene Ctcf	AW108038, Ct CCCTC-binding factor	NM_181322.3
18	Gene Rltpr	D130029J02Ril RGD motif, leucine rich repeats, tropomodulin domain	NM_001033320.2
18	Gene Acd	Acd adrenocortical dysplasia	NM_001012638.1
18	Gene Pard6a	0710008C04Ri par-6 (partitioning defective 6,) homolog alpha (C. elegans)	NM_019695.2, NM_019695.2
18	Gene Enkd1	Enkd1, E13030 enkurin domain containing 1	NM_198299.1
18	Gene 4933405	4933405L10Ril RIKEN cDNA 4933405L10 gene	NM_027655.1
33	Gene Gfod2	Gfod2, 573046 glucose-fructose oxidoreductase domain containing	NM_027469.4
33	Gene Ranbp10	4432417N03Ri RAN binding protein 10	NM_145824.4
30	Gene Cenpt	G630055P03Ri centromere protein T	NM_177150.2
30	Gene Thap11	2810036E22Ri THAP domain containing 11	NM_021513.2
30	Gene Nutf2	AW546000, M nuclear transport factor 2	NM_026532.3
36	Gene Slc12a4	RBCKCC1, AW5 solute carrier family 12, member 4	NM_001253804.1
36	Gene Dpep3	MBD-3, A1507 dipeptidase 3	NM_027960.2
37	Gene Dus2l	Dus2l, 231001 dihydrouridine synthase 2-like (SMM1, S. cerevisiae)	NM_025518.3
37	Gene Nfatc3	NFATx, NFAT4, nuclear factor of activated T cells, cytoplasmic, calcineurin dependent	NM_010901.2
25	Gene Esrp2	Esrp2, 953002 epithelial splicing regulatory protein 2	NM_176838.2
25	Gene 1810019	1810019D21Ril RIKEN cDNA 1810019D21 gene	NR_040344.1, NR_040344.1

34	Gene Pla2g15	LLPL, Lypla3, L ₁ phospholipase A2, group XV	NM_133792.2
34	Gene Slc7a6	LAT3, Slc7a6, L solute carrier family 7 (cationic amino acid transport	NM_178798.3
26	Gene Slc7a6os	2400002F02Ri solute carrier family 7, member 6 opposite strand	NM_001007567.2
26	Gene Prmt7	MGC7929, BC protein arginine N-methyltransferase 7	NM_145404.1
20	Gene A930006	A930006D01Ri RIKEN cDNA A930006D01 gene	XR_106168.2, XR_
20	Gene Zfp90	6430515L01Ri zinc finger protein 90	NM_011764.3
29	Gene 1110028	1110028F18Ri RIKEN cDNA 1110028F18 gene	NR_045470.1
29	Gene Cdh1	AA960649, Urr cadherin 1	NM_009864.2
27	Gene Tango6	Tango6, E3300 transport and golgi organization 6	NM_173037.1
31	Gene Has3	Has3	NM_008217.4
31	Gene Chtf8	Ctf8, 5830457(CTF8, chromosome transmission fidelity factor 8	NM_145412.3
31	Gene Cirh1a	Naic, Cirhin, Ci cirrhosis, autosomal recessive 1A (human)	NM_011574.2
35	Gene Sntb2	Sntb2, Snt2 syntrophin, basic 2	NM_009229.4
37	Gene Vps4a	4930589C15Ri vacuolar protein sorting 4a (yeast)	NM_126165.1
34	Gene Pdf	2610019N19Ri peptide deformylase (mitochondrial)	NM_026513.2
34	Gene Cog8	C87832, Cog8, component of oligomeric golgi complex 8	NM_139229.4
34	Gene Nip7	1110017C15Ri nuclear import 7 homolog (<i>S. cerevisiae</i>)	NM_001164472.1,
30	Gene Tmed6	1810015P03Ri transmembrane emp24 protein transport domain co	NM_025458.2
17	Gene Terf2	TRF2, Terf2 telomeric repeat binding factor 2	NM_001083118.1
36	Gene Nfat5	TonEBP, AI225 nuclear factor of activated T cells 5	NM_133957.3, NM
42	Gene Psmd7	Mov-34, Mov3 proteasome (prosome, macropain) 26S subunit, non	NM_010817.2
19	Gene Zfhx3	Atbf1, mKIAA4 zinc finger homeobox 3	NM_007496.2
31	Gene Ist1	AW536298, m increased sodium tolerance 1 homolog (yeast)	NM_028018.2
31	Gene Ap1g1	D8Ertd374e, A adaptor protein complex AP-1, gamma 1 subunit	NM_009677.5
18	Gene Phlpp2	KIAA0931, Phl ₁ PH domain and leucine rich repeat protein phosphat	NM_001122594.2
21	Gene Zfp612	Zfp612, B2303 zinc finger protein 612	NM_175480.4
38	Gene Hydin	Hydin, A83006 HYDIN, axonemal central pair apparatus protein	NM_172916.2
38	Gene Vac14	Vac14, Tax1bp Vac14 homolog (<i>S. cerevisiae</i>)	NM_146216.2
29	Gene Sf3b3	Sf3b3, AA4093 splicing factor 3b, subunit 3	NM_133953.2
29	Gene Snord11	Snord111, MBI small nucleolar RNA, C/D box 111	NR_028559.1
29	Gene Cog4	Cog4, D8Ert5 component of oligomeric golgi complex 4	NM_133973.2
18	Gene St3gal2	Siat5, St3gal2, ST3 beta-galactoside alpha-2,3-sialyltransferase 2	NM_009179.3
47	Gene Aars	Aars, C76919, alanyl-tRNA synthetase	NM_146217.3
47	Gene Exosc6	Exosc6, C76919, exosome component 6	NM_028274.3
24	Gene Pdpr	AU018056, Pdpr, mKIAA1990, 4930402E16Rik	NM_198308.1
38	Gene Glg1	Glg1, Selel, ES1 golgi apparatus protein 1	NM_009149.2
31	Gene Rfwd3	MGC27888, BC ring finger and WD repeat domain 3	NM_146218.4
29	Gene Znrf1	nin283, B8300 zinc and ring finger 1	NM_133206.3, NM
25	Gene Zfp1	Zfp1, mkr-1, Fr zinc finger protein 1	NM_011742.2, NM
24	Gene Bcar1	Bcar1, AI38568 breast cancer anti-estrogen resistance 1	NM_009954.3, NM
23	Gene Cfdp1	cp27, Bcnc, Cfc craniofacial development protein 1	NM_011801.1
26	Gene Chst5	Chst5, Gn6st-3 carbohydrate (N-acetylglucosamine 6-O) sulfotransf	NM_019950.2
34	Gene Tmem23	4932417I16Rik transmembrane protein 231	NM_001033321.1
34	Gene Gabarap	AI173605, 290 gamma-aminobutyric acid (GABA) A receptor-associ	NM_026693.5
27	Gene Kars	LysRS, AL0243, lysyl-tRNA synthetase	NM_053092.2, NM
27	Gene Terf2ip	Terf2ip, Rap1	NM_020584.2
34	Gene Maf	2810401A20Ri avian musculoaponeurotic fibrosarcoma (v-maf) AS	NM_001025577.2

26	Gene Cdy12	4930453121Rik chromodomain protein, Y chromosome-like 2	NM_029441.3
34	Gene Cmc2	Cmc2, 111004i COX assembly mitochondrial protein 2	NM_026844.3
34	Gene Cenpn	AI426416, 261 centromere protein N	NM_028131.3
32	Gene Atmin	MGC79206, At ATM interactor	NM_177700.4
27	Gene Gcsh	1100001L02Ril glycine cleavage system protein H (aminomethyl car	NM_026572.3
27	Gene Pkd1l2	1700126L06Ril polycystic kidney disease 1 like 2	NM_029686.4
39	Gene Gan	gigaxonin, Gangiant axonal neuropathy	NM_001081151.1
41	Gene Cmp1	4933407C03Ri c-Maf inducing protein	NM_001163262.1
18	Gene Mphosp	AA536809, Mφ M phase phosphoprotein 6	NM_026758.3
18	Gene Gm1061	Gm10617, ENS predicted gene 10617	XR_140899.2, XR_
23	Gene Mlycd	Mcd, AI324784 malonyl-CoA decarboxylase	NM_019966.2
25	Gene Hsd1l	Hsd1l, 270006 hydroxysteroid dehydrogenase like 1	NM_175185.4
25	Gene Dnaaf1	Lrrc50, 493045 dynein, axonemal assembly factor 1	NM_026648.4
18	Gene Taf1c	Taf1c, mTAFI9i TATA box binding protein (Tbp)-associated factor, RI	NM_021441.2
18	Gene Rps13-p	Gm6834, EG62 ribosomal protein S13, pseudogene 4	XM_003086703.2,
18	Gene Adad2	Adad2, 493040 adenosine deaminase domain containing 2	NM_029428.1
36	Gene Klh136	MGC37805, Klh136	NM_146219.1
30	Gene Usp10	mKIAA0190, U ubiquitin specific peptidase 10	NM_009462.1
20	Gene Zdhhc7	AL024087, Zdh zinc finger, DHHC domain containing 7	NM_133967.3
21	Gene 6430548	6430548M08R RIKEN cDNA 6430548M08 gene	NM_172286.4, NM
27	Gene Gse1	mKIAA0182, G genetic suppressor element 1	NM_198671.2, NM
40	Gene Emc8	Fam158b, Emc ER membrane protein complex subunit 8	NM_010926.5
40	Gene Cox4i1	Cox4, Cox4a, C cytochrome c oxidase subunit IV isoform 1	NM_009941.2
30	Gene Mthfsd	BC052066, AW methenyltetrahydrofolate synthetase domain conta	NM_172761.3, NM
30	Gene Foxc2	Hfhbf3, Foxc2, forkhead box C2	NM_013519.2
30	Gene Foxl1	Foxl1, FREAC7, forkhead box L1	NM_008024.2
37	Gene Zcchc14	AA792890, Zcc zinc finger, CCHC domain containing 14	NM_080855.2
25	Gene Klhdc4	AV352552, BCi kelch domain containing 4	NM_145605.2
55	Gene Slc7a5	4F2LC, TA1, DC solute carrier family 7 (cationic amino acid transport	NM_011404.3
55	Gene BC04864	BC048644 cDNA sequence BC048644	NM_001033485.2
55	Gene Car5a	Car5a, Ca5a, C carbonic anhydrase 5a, mitochondrial	NM_007608.2
28	Gene Banp	Banp, AA4081i BTG3 associated nuclear protein	NM_016812.3, NM
26	Gene Gm22	Gm22 predicted gene 22	XM_001001798.3,
26	Gene Zfpm1	Fog1, Zfpm1, F zinc finger protein, multitype 1	NM_009569.3
28	Gene Zc3h18	Nhn1, Zc3h18, zinc finger CCCH-type containing 18	NM_001029994.1
25	Gene Rnf166	Rnf166, Zfp31i ring finger protein 166	NM_001033142.2
25	Gene Ctu2	Ncs2, C16orf84 cytosolic thiouridylase subunit 2 homolog (S. pombe	NM_153775.2
32	Gene Piezo1	9630020g22, Piezo1, mKIAA0233, Fam38a	NM_001037298.1
32	Gene Cdt1	C76791, Cdt1, chromatin licensing and DNA replication factor 1	NM_026014.3
32	Gene Aprt	Aprt, MGC117 adenine phosphoribosyl transferase	NM_009698.2
32	Gene Galns	mFLJ00319, G4 galactosamine (N-acetyl)-6-sulfate sulfatase	NM_016722.4, NM
30	Gene Cbfa2t3	Cbfa2t3, AI465 core-binding factor, runt domain, alpha subunit 2, tr	NM_009824.2, NM
29	Gene Ankrd11	9530048i21Rik ankyrin repeat domain 11	NM_001081379.2
29	Gene 2810013	2810013P06Ri RIKEN cDNA 2810013P06 gene	NR_045268.1
68	Gene Spg7	PGN, Cmar, AL spastic paraplegia 7 homolog (human)	NM_153176.4
68	Gene Rpl13	L13, Rpl13 ribosomal protein L13	NM_016738.5
68	Gene Snord68	MBII-202, Snoi small nucleolar RNA, C/D box 68	NR_028128.1

22	Gene Chmp1a Pcoln3, 29000: charged multivesicular body protein 1A	NM_145606.3
22	Gene Rps12-p: ENSMUSG000(ribosomal protein S12, pseudogene 9	
26	Gene 4732415 4732415M23R RIKEN cDNA 4732415M23 gene	NM_177279.4
26	Gene Cdk10 Cdk10, BC0171 cyclin-dependent kinase 10	NM_194446.2, NM
26	Gene Spata2l KIAA4138, Spa spermatogenesis associated 2-like	NM_030176.2
26	Gene 4933417 4933417D19Ri RIKEN cDNA 4933417D19 gene	NR_045849.1
33	Gene Vps9d1 Vps9d1, 2410C VPS9 domain containing 1	NM_028200.1
33	Gene Zfp276 Zfp276, Znf276 zinc finger protein (C2H2 type) 276	NM_020497.2
29	Gene Spire2 BC026502, Spi spire homolog 2 (Drosophila)	NM_172287.2
29	Gene Tcf25 Nulp1, Tcf25, r transcription factor 25 (basic helix-loop-helix)	NM_025804.2, NM
34	Gene Afg3l1 3110061K15Ri AFG3(ATPase family gene 3)-like 1 (yeast)	NM_054070.3, NR
20	Gene Rhou WRCH1, AI182 ras homolog gene family, member U	NM_133955.4
24	Gene Ccsap Ccsap, 170005 centriole, cilia and spindle associated protein	NM_028536.1
24	Gene Nup133 Nup133, merr nucleoporin 133	NM_172288.2
24	Gene Abcb10 Abcb12, Abcb1 ATP-binding cassette, sub-family B (MDR/TAP), mem	NM_019552.2
24	Gene Galnt2 Galnt2, AI4806 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N	NM_139272.2
20	Gene Pgbd5 Pgbd5, AI8543 piggyBac transposable element derived 5	NM_171824.2
32	Gene Cog2 Ldlc, 2700012f component of oligomeric golgi complex 2	NM_029746.3
21	Gene 2310022 2310022B05Ri RIKEN cDNA 2310022B05 gene	NM_175149.4
21	Gene Ttc13 BC017545, MC tetratricopeptide repeat domain 13	NM_145607.3
21	Gene Trim67 TNL, Trim67, D tripartite motif-containing 67	NM_198632.2
37	Gene 2810004 3110004G14Ri RIKEN cDNA 2810004N23 gene	NM_025615.2
41	Gene Gnpat D1Ert819e, D glyceronephosphate O-acyltransferase	NM_010322.3
41	Gene Exoc8 R74783, SEC84 exocyst complex component 8	NM_198103.2
41	Gene Sprtn Gm505, Sprtn SprT-like N-terminal domain	NM_001111141.1
41	Gene EglN1 AI503754, Eglr EGL nine homolog 1 (C. elegans)	NM_053207.2
34	Gene Tsnax Trax, R74833, `translin-associated factor X	NM_016909.2
26	Gene LOC101056077 uncharacterized LOC101056077	XM_003945637.1,
31	Gene Map10 KIAA1383, mKl microtubule-associated protein 10	NM_028908.3
33	Gene BC02189f mKIAA1804, M cDNA sequence BC021891	NM_145608.2
21	Gene Slc35f3 B230375D17Ri solute carrier family 35, member F3	NM_175434.3
35	Gene Coa6 1810063B05Ri cytochrome c oxidase assembly factor 6	NM_174987.4
35	Gene Gm1729 Gm179, Gm17 predicted gene, 17296	NM_001159907.1
67	Gene Irf2bp2 IRF-2BP2, E13(interferon regulatory factor 2 binding protein 2	NM_001164598.1
25	Gene Pard3 Pard3a, ASIP, I par-3 (partitioning defective 3) homolog (C. elegans)	NM_001013581.2
21	Gene Nrp1 Nrp, Nrp1, NPI neuropilin 1	NM_008737.2
21	Gene Mir1903 Mirn1903, Mir microRNA 1903	NR_035436.1
18	Gene Gucy1a2 A230060L24Ri guanylate cyclase 1, soluble, alpha 2	NM_001033322.2
29	Gene Dync2h1 DHC1b, DHC2, dynein cytoplasmic 2 heavy chain 1	NM_029851.2
29	Gene Dcun1d5 AW060460, D4 DCN1, defective in cullin neddylation 1, domain con	NM_029775.2
24	Gene Tmem12 MGC102366, 2 transmembrane protein 123	NM_133739.2
30	Gene Yap1 Yap65, Yap1, Y yes-associated protein 1	NM_001171147.1
18	Gene Pgr PR-A, Pgr, PR-E progesterone receptor	NM_008829.2
32	Gene Arhgap4 BE136619, 90E Rho GTPase activating protein 42	NM_027823.1
32	Gene Gm1683 Gm16833 predicted gene, 16833	NR_045754.1
32	Gene Cep57 Tsp57, AI4674i centrosomal protein 57	NM_026665.4, NR
32	Gene Fam76b Fam76b, C783i family with sequence similarity 76, member B	NM_176836.3

26	Gene	Sesn3	5630400E15Ri	sestrin 3	NM_030261.4
30	Gene	Endod1	Endod1, 22104	endonuclease domain containing 1	NM_028013.3
16	Gene	Kdm4d	Kdm4d, 49324	lysine (K)-specific demethylase 4D	NM_173433.2, XM
16	Gene	Cwc15	mED1, Ed1, c1	CWC15 homolog (<i>S. cerevisiae</i>)	NM_023153.3
20	Gene	Gpr83	RP105, Gpr83,	G protein-coupled receptor 83	NM_010287.2
24	Gene	Panx1	Panx1, A18477	pannexin 1	NM_019482.2
24	Gene	Heph1l	zyklopen, Zp,	Hephaestin-like 1	NM_001164797.1
25	Gene	4931406C	4931406C07Ri	RIKEN cDNA 4931406C07 gene	NM_001199484.1
25	Gene	Taf1d	2810003M17R	TATA box binding protein (Tbp)-associated factor, RIKEN cDNA 2810003M17 gene	NM_029248.2, NM
23	Gene	5830418G	Gm1131, Kiaa1	RIKEN cDNA 5830418K08 gene	NM_176976.4
16	Gene	Slc36a4	6330573I15Ri	solute carrier family 36 (proton/amino acid symport)	NM_172289.4
21	Gene	Zfp426	MGC38791, 25	zinc finger protein 426	NM_146221.4, NM
21	Gene	Zfp266	AW552317, 53	zinc finger protein 266	NM_001082485.1
25	Gene	Fbxl12	Fbl12, 311004	F-box and leucine-rich repeat protein 12	NM_013911.2, NM
25	Gene	Ubl5	1110030M22R	ubiquitin-like 5	NM_025401.3
25	Gene	Pin1	Pin1, D9Bwg11	protein (peptidyl-prolyl cis/trans isomerase) NIMA-inhibitor	NM_023371.3
20	Gene	A230050C	A230050P20Ri	RIKEN cDNA A230050P20 gene	NM_175687.2
44	Gene	Angptl6	Angptl6, ARP3,	angiopoietin-like 6	NM_145154.2
44	Gene	Ppan	Ppan, A23008	peter pan homolog (<i>Drosophila</i>)	NM_145610.2
44	Gene	Eif3g	eIF3-p44, 44kD	eukaryotic translation initiation factor 3, subunit G	NM_016876.3
22	Gene	Dnmt1	MTase, Met-1,	DNA methyltransferase (cytosine-5) 1	NM_001199431.1
36	Gene	S1pr2	LPb2, S1P2, H2	sphingosine-1-phosphate receptor 2	NM_010333.4
22	Gene	Mrpl4	Mrpl4, 111001	mitochondrial ribosomal protein L4	NM_023167.2
28	Gene	Icam1	MGC6195, MA	intercellular adhesion molecule 1	NM_010493.2
28	Gene	Icam4	1810015M19R	intercellular adhesion molecule 4, Landsteiner-Wien	NM_023892.2
28	Gene	Icam5	MGC130520, T	intercellular adhesion molecule 5, telencephalin	NM_008319.2
28	Gene	Mir1900	mmu-mir-190	(microRNA 1900)	NR_035438.1
28	Gene	LOC101055759		uncharacterized LOC101055759	XM_003945443.1,
29	Gene	Zglp1	Zglp1, Glp1	zinc finger, GATA-like protein 1	NM_001103168.1
29	Gene	Raver1-fdx1l		Raver1-Fdx1l readthrough	NR_038081.2
29	Gene	Fdx1l	B230118G17Ri	ferredoxin 1-like	NM_001039824.2
29	Gene	Raver1	MGC118403, F	ribonucleoprotein, PTB-binding 1	NM_027911.3
21	Gene	Pde4a	Dpde2, Pde4a,	phosphodiesterase 4A, cAMP specific	NM_183408.3, NM
21	Gene	Gm1675	Gm16754	predicted gene, 16754	XR_108134.1, XR_
21	Gene	Keap1	mKIAA0132, K	kelch-like ECH-associated protein 1	NM_016679.4, NM
21	Gene	S1pr5	S1P5, lpB4, Ed	sphingosine-1-phosphate receptor 5	NM_053190.2
26	Gene	Ilf3	NF90, MPHOS1	interleukin enhancer binding factor 3	NM_010561.2, NM
26	Gene	Gm1685	Gm16853, 493	predicted gene, 16853	NR_045742.1
26	Gene	Qrt1	Tgt, 2610028E	queuine tRNA-ribosyltransferase 1	NM_021888.2
25	Gene	Dnm2	Dnm2, Dyn2	dynamitin 2	NM_001039520.2
29	Gene	Mir1946	Mir1946b, mr	microRNA 1946b	NR_035496.1
29	Gene	Smarca4	HP1-BP72, Sm	SWI/SNF related, matrix associated, actin dependent	NM_001174078.1
18	Gene	Ldlr	Hlb301, Ldlr	low density lipoprotein receptor	NM_001252658.1
26	Gene	Kank2	Ankrd25, Kank	KN motif and ankyrin repeat domains 2	NM_145611.4
30	Gene	Dock6	C330023D02Ri	dedicator of cytokinesis 6	NM_177030.3
17	Gene	Swsap1	2310047B19Ri	SWIM type zinc finger 7 associated protein 1	NM_025870.1
17	Gene	Epor	Epor	erythropoietin receptor	NM_010149.3

24	Gene Zfp653	Zfp653, Znf653 zinc finger protein 653	NM_177318.2
24	Gene Gm1684	Gm16845 predicted gene, 16845	NR_040406.1, NR_040406.1
24	Gene Ecsit	Ecsit, Sitpec ECSIT homolog (Drosophila)	NM_001253897.1
22	Gene Cnn1	Cnnl, Cnn1, Cn calponin 1	NM_009922.4
22	Gene Elof1	1110011K10Ri elongation factor 1 homolog (ELF1, S. cerevisiae)	NM_170777.3
22	Gene Acp5	TRACP, Acp5, acid phosphatase 5, tartrate resistant	NM_007388.3, NM_007388.3
31	Gene Anln	2900037I21Ri anillin, actin binding protein	NM_028390.3
26	Gene Rp9	MGC144397, Fretinitis pigmentosa 9 (human)	NM_018739.2
26	Gene Bbs9	Bbs9, E130103 Bardet-Biedl syndrome 9 (human)	NM_178415.1, NM_178415.1
32	Gene Herpud2	5031400M07R HERPUD family member 2	NM_020586.2
29	Gene Sept7	E430034N22, Iseptin 7	NM_009859.4, NM_009859.4
39	Gene Vps26b	2310075A12Ri vacuolar protein sorting 26 homolog B (yeast)	NM_178027.4
39	Gene Ncapd3	Ncapd3, B130C non-SMC condensin II complex, subunit D3	NM_178113.3
26	Gene Snx19	A195321, mKl sorting nexin 19	NM_028874.2
20	Gene LOC101055798	uncharacterized LOC101055798	XM_003945445.1
20	Gene Zbtb44	6030404E16Ri zinc finger and BTB domain containing 44	NM_172765.3, NM_172765.3
17	Gene St14	St14, Prss14, n suppression of tumorigenicity 14 (colon carcinoma)	NM_011176.4
36	Gene Aplp2	Aplp2, A17906 amyloid beta (A4) precursor-like protein 2	NM_009691.2, NM_009691.2
23	Gene Ets1	MGC130355, TE26 avian leukemia oncogene 1, 5' domain	NM_001038642.1
30	Gene St3gal4	Siat4c, St3gal4 ST3 beta-galactoside alpha-2,3-sialyltransferase 4	NM_009178.3
30	Gene 4930581	4930581F22Ri RIKEN cDNA 4930581F22 gene	NR_029475.1
30	Gene Dcps	1700001E16Ri decapping enzyme, scavenger	NM_027030.2
27	Gene Foxred1	Foxred1, Tex2: FAD-dependent oxidoreductase domain containing	NM_172291.1
27	Gene Srpr	Srpr, D11Mgi2 signal recognition particle receptor ('docking protein)	NM_026130.1
27	Gene Fam118l	2310022O21Ri family with sequence similarity 118, member B	NM_194257.1, NM_194257.1
24	Gene Pus3	2610020J05Ri pseudouridine synthase 3	NM_023292.4
24	Gene Hyls1	Hyls1, 301001 hydrolethalus syndrome 1	NM_029762.1
24	Gene Gm6762	EG627480, Grr small cell adhesion glycoprotein family member	
18	Gene Chek1	Chk1, C85740, rad27, Chek1	NM_007691.5
18	Gene Stt3a	Stt3a, Itm1, A1STT3, subunit of the oligosaccharyltransferase complex	NM_008408.4
24	Gene Ei24	AA536736, Ei2 etoposide induced 2.4 mRNA	NM_007915.5, NM_007915.5
29	Gene Pknox2	D230005H23R Pbx/knotted 1 homeobox 2	NM_148950.2, NM_148950.2
21	Gene Hepacan	2900042E01Ri hepatocyte cell adhesion molecule	NM_175189.4
25	Gene Msantd2	Msantd2, 953C Myb/SANT-like DNA-binding domain containing 2	NM_146222.2
29	Gene Olfr986	Olfr986, MOR1 olfactory receptor 986	NM_146615.2
29	Gene Zfp202	C130037E22Ri zinc finger protein 202	NM_030713.2
25	Gene Gramd1	Gramd1b, A93 GRAM domain containing 1B	NM_172768.1
22	Gene Clmp	CLMP, ACAM, 9030425E11Ri, AW557819, ASP5, Clmp	NM_133733.4
30	Gene Hspa8	Hsc70, MGC10 heat shock protein 8	NM_031165.4
30	Gene Snord14	Gm23107, Rnu small nucleolar RNA, C/D box 14C	NR_028276.1
30	Gene Snord14	Gm23710, Sno small nucleolar RNA, C/D box 14D	NR_028274.1
30	Gene Snord14	Snord14e small nucleolar RNA, C/D box 14E	NR_028275.1
26	Gene Ubash3t	BB125008, p7C ubiquitin associated and SH3 domain containing, B	NM_176860.5
20	Gene Arhgef1	2310014B11Ri Rho guanine nucleotide exchange factor (GEF) 12	NM_027144.2
20	Gene LOC101055886	uncharacterized LOC101055886	XR_168457.1, XR_168457.1
20	Gene Tmem13	AA396355, Tm transmembrane protein 136	NM_001034863.3
22	Gene Oaf	D9Ucla1, D13C OAF homolog (Drosophila)	NM_178644.3

29	Gene Pvr1l	AW549174, H _v poliovirus receptor-related 1	NM_021424.2
17	Gene Thy1	Thy1, Thy1.2, θ thymus cell antigen 1, theta	NM_009382.3
16	Gene C1qtnf5	CTRP5, C1qtnf: C1q and tumor necrosis factor related protein 5	NM_001040631.2
16	Gene Mfrp	rd6, Mfrp membrane-type frizzled-related protein	NM_001190314.1,
16	Gene Rnf26	Rnf26, 803045 ring finger protein 26	NM_153762.3
20	Gene Gm1068	ENSMUSG000(predicted gene 10687	XR_140937.1, XR_
20	Gene Mcam	CD146, s-gicer melanoma cell adhesion molecule	NM_023061.2
20	Gene Cbl	Cbl-2, 4732447 Casitas B-lineage lymphoma	NM_007619.2
20	Gene Ccdc153	Ccdc153 coiled-coil domain containing 153	NM_001081369.2
23	Gene Abcg4	6430517004Ri ATP-binding cassette, sub-family G (WHITE), member	NM_138955.3
23	Gene Hinfp	HiNF-P, DKFZp histone H4 transcription factor	NM_172162.3
29	Gene C2cd2l	1300006023Ri C2 calcium-dependent domain containing 2-like	NM_027909.2
43	Gene Dpagt1	Dpagt1, Dpagt dolichyl-phosphate (UDP-N-acetylglucosamine) acet	NM_007875.2
43	Gene H2afx	H2afx, H2ax, HH2A histone family, member X	NM_010436.2
43	Gene Hmbs	Ups, PBGD, T2. hydroxymethylbilane synthase	NM_013551.2, NM
25	Gene Hyou1	Cab140, Orp1 ⁵ hypoxia up-regulated 1	NM_021395.4
22	Gene Slc37a4	G6PT, G6pt1, (solute carrier family 37 (glucose-6-phosphate transp	NM_008063.2
22	Gene Trappc4	HSPC172, 150(trafficking protein particle complex 4	NM_021789.2
22	Gene Rps25	Rps25, 281000 ribosomal protein S25	NM_024266.3
22	Gene Ccdc84	MGC106805, (coiled-coil domain containing 84	NM_201372.3
42	Gene Gm1002	ENSMUSG000(predicted gene 10023	XR_140939.1
38	Gene Ddx6	HLR2, E230023 DEAD (Asp-Glu-Ala-Asp) box polypeptide 6	NM_007841.4, NM
28	Gene Phldb1	Phldb1, LI5a, Apleckstrin homology-like domain, family B, member	NM_153537.4
37	Gene Arcn1	nur17, MGC27 archain 1	NM_145985.4
37	Gene lft46	AA408110, c11 intraflagellar transport 46	NM_023831.3
20	Gene Tmem25	AI429491, 061 transmembrane protein 25	NM_027865.2
20	Gene Ttc36	MGC37838, M tetratricopeptide repeat domain 36	NM_138951.1
23	Gene Mll1	KMT2A, Cxxc7, myeloid/lymphoid or mixed-lineage leukemia 1	NM_001081049.1
17	Gene 4833428	4833428L15Ril RIKEN cDNA 4833428L15 gene	NR_040732.1
17	Gene Dscam1l	Dscam1l, 4921 Down syndrome cell adhesion molecule like 1	NM_001081270.1
29	Gene Rnf214	Rnf214, D130C ring finger protein 214	NM_178709.4
29	Gene Pcsk7	Pcsk7, SPC7, A proprotein convertase subtilisin/kexin type 7	NM_008794.2
38	Gene Sidt2	MGC58967, B(SID1 transmembrane family, member 2	NM_172257.3
42	Gene Pafah1b	AI747451, AUC platelet-activating factor acetylhydrolase, isoform 1	NM_008775.3
32	Gene Sik3	Qsk, MGC9123 SIK family kinase 3	NM_027498.3
31	Gene Apoa5	RAP3, 1300007 apolipoprotein A-V	NM_080434.3
31	Gene Zfp259	ZPR1, AI30378 zinc finger protein 259	NM_011752.2
31	Gene Bud13	Bud13, D0300(BUD13 homolog (yeast)	NM_146000.2
17	Gene Cadm1	SgIGSF, RA175 cell adhesion molecule 1	NM_207675.2, NM
27	Gene Usp28	9830148020Ri ubiquitin specific peptidase 28	NM_175482.3
25	Gene Ttc12	Ttc12, E33001 tetratricopeptide repeat domain 12	NM_172770.3
25	Gene Ncam1	NCAM-1, Ncan neural cell adhesion molecule 1	NM_010875.3, NM
34	Gene Pts	Pts, PTPS 6-pyruvoyl-tetrahydropterin synthase	NM_011220.2
34	Gene Bco2	MGC129322, E beta-carotene oxygenase 2	NM_133217.3
37	Gene AU0198	AU019823, Gn expressed sequence AU019823	NM_212449.2, NM
37	Gene Pih1d2	2700059L22Ril PIH1 domain containing 2	NM_028300.2
26	Gene Dlat	PDC-E2, Dlat, (dihydrolipoamide S-acetyltransferase (E2 componer	NM_145614.4

26	Gene Dixdc1	MGC61302, Cc DIX domain containing 1	NM_178118.2
21	Gene 1110032	1110032A03Ri RIKEN cDNA 1110032A03 gene	NM_023483.3
21	Gene Fdxacb1	D630004A14Ri ferredoxin-fold anticodon binding domain containin	NM_198675.2
21	Gene Alg9	B430313H07Ri asparagine-linked glycosylation 9 (alpha 1,2 mannos	NM_133981.2, NR
30	Gene Ppp2r1b	2410091N08Ri protein phosphatase 2 (formerly 2A), regulatory sub	NM_001034085.1
35	Gene Sik2	G630080D20R salt inducible kinase 2	NM_178710.3
19	Gene Gm684	Gm684 predicted gene 684	NM_001195681.1
30	Gene Arhgap2	6530403F17Ri Rho GTPase activating protein 20	NM_175535.3
23	Gene Fdx1	Fdx1	NM_007996.1
26	Gene Rdx	Rdx, AA51662i radixin	NM_009041.3, NM
26	Gene Zc3h12c	A230108E06, zinc finger CCCH type containing 12C	NM_001162921.1
33	Gene Exph5	Kiaa0624, B13i exophilin 5	NM_176846.3
33	Gene Kdelc2	AW549401, KcKDEL (Lys-Asp-Glu-Leu) containing 2	NM_212445.2
17	Gene Atm	C030026E19Ri ataxia telangiectasia mutated homolog (human)	NM_007499.2
17	Gene Npat	6820401K01, E nuclear protein in the AT region	NM_001081152.1
28	Gene Acat1	Acat, Acat1, 6i acetyl-Coenzyme A acetyltransferase 1	NM_144784.3
44	Gene Cul5	C030032G03Ri cullin 5	NM_027807.3, NM
18	Gene Tnfaip8l	9930029P06Ri tumor necrosis factor, alpha-induced protein 8-like	NM_001033535.3
21	Gene Dmxl2	mKIAA0856, D Dmx-like 2	NM_172771.2
23	Gene Dnaja4	Hsj4, Dj4, 111i DnaJ (Hsp40) homolog, subfamily A, member 4	NM_021422.4
25	Gene Ireb2	DKFZp564D11i iron responsive element binding protein 2	NM_022655.3
19	Gene Agphd1	C630028N24Ri aminoglycoside phosphotransferase domain contain	NM_177351.4
19	Gene AY07488	Mcpr1, AY074i cDNA sequence AY074887	NM_145229.2
19	Gene PsmA4	C9, PsmA4 proteasome (prosome, macropain) subunit, alpha ty	NM_011966.3
23	Gene Chrna3	A730007P14Ri cholinergic receptor, nicotinic, alpha polypeptide 3	NM_145129.2
23	Gene ChrnB4	Acrb-4, Acrb4, cholinergic receptor, nicotinic, beta polypeptide 4	NM_148944.4
34	Gene Ube2q2	3010021M21R ubiquitin-conjugating enzyme E2Q (putative) 2	NM_180600.3
34	Gene Fbxo22	1600016C16Ri F-box protein 22	NM_028049.2
23	Gene Etfa	Etfa, D9ErtD39 electron transferring flavoprotein, alpha polypeptid	NM_145615.4
21	Gene Isl2	3110001N10Ri insulin related protein 2 (islet 2)	NM_027397.3
21	Gene Scaper	C430017I08, DS phase cyclin A-associated protein in the ER	NM_001081341.1
20	Gene Rcn2	AA408742, Rcr reticulocalbin 2	NM_011992.2
26	Gene Tspan3	TM4-A, 17000i tetraspanin 3	NM_019793.3
20	Gene Lingo1	LINGO-1, 4930 leucine rich repeat and Ig domain containing 1	NM_181074.4
21	Gene Cspg4	4732461B14Ri chondroitin sulfate proteoglycan 4	NM_139001.2
36	Gene Snx33	Snx33, Sh3px3 sorting nexin 33	NM_175483.5
36	Gene Imp3	AI256594, 119 IMP3, U3 small nucleolar ribonucleoprotein, homolc	NM_133976.2
32	Gene Ptpn9	Ptpn9, MEG2 protein tyrosine phosphatase, non-receptor type 9	NM_019651.2
32	Gene Gm1065	ENSMUSG000i predicted gene 10658	NR_045886.1
35	Gene Sin3a	KIAA4126, AW transcriptional regulator, SIN3A (yeast)	NM_011378.2, NM
32	Gene 2700012	2700012I20Ri RIKEN cDNA 2700012I20 gene	XR_108091.2, XR_
35	Gene 2410133	2410133F24Ri RIKEN cDNA 2410133F24 gene	XR_108090.1, XR_
35	Gene Man2c1	Man2c1, 1110i mannosidase, alpha, class 2C, member 1	NM_028636.2
22	Gene Trcg1	Trcg1	NM_001014398.2
36	Gene 1700017	MGC144191, RIKEN cDNA 1700017B05 gene	NM_028820.2
28	Gene Rpp25	Rpp25, AI8511 ribonuclease P/MRP 25 subunit	NM_133982.1
37	Gene Cox5a	CcOX, AA9597i cytochrome c oxidase subunit Va	NM_007747.2

30	Gene Fam219l	AI594866, 231 family with sequence similarity 219, member B	NM_175273.4, NM
30	Gene Mpi	1110002E17Ri mannose phosphate isomerase	NM_025837.2
33	Gene Scamp2	Scamp2, Sc2, A secretory carrier membrane protein 2	NM_022813.3
33	Gene Ulk3	Ulk3, 1200015E14Rik	NM_027895.1
33	Gene Cplx3	Cplx3, Lamn1l, complexin 3	NM_146223.3
27	Gene Csk	AW212630, Cs c-src tyrosine kinase	NM_007783.2
34	Gene Clk3	MGC36552, Cl CDC-like kinase 3	NM_007713.4
40	Gene Ubl7	2300004C15Ri ubiquitin-like 7 (bone marrow stromal cell-derived)	NM_027086.3, NM
40	Gene Sema7a	Sema7a, M-Se sema domain, immunoglobulin domain (Ig), and GPI	NM_011352.2
26	Gene Stra6	Stra6, AI89193 stimulated by retinoic acid gene 6	NM_009291.2, NM
26	Gene Islr	Islr, AW55314i immunoglobulin superfamily containing leucine-rich	NM_012043.4, NM
26	Gene Islr2	B930052A04Ri immunoglobulin superfamily containing leucine-rich	NM_001161535.1
30	Gene Loxl1	Loxl1, Loxl, MCl lysyl oxidase-like 1	NM_010729.3
22	Gene 6030419	6030419C18Ri RIKEN cDNA 6030419C18 gene	NM_176921.3
15	Gene Cd276	Cd276, B7h3, A CD276 antigen	NM_133983.4
18	Gene Hcn4	Hcn4, Bcng3, A hyperpolarization-activated, cyclic nucleotide-gated	NM_001081192.1
24	Gene Neo1	Neo1, 261002i neogenin	NM_008684.2, NM
41	Gene Arih1	AU021774, Ari ariadne ubiquitin-conjugating enzyme E2 binding pr	NM_019927.2
41	Gene Gm2019	Gm20199 predicted gene, 20199	NR_045640.1
34	Gene Hexa	Hexa, Hex-1 hexosaminidase A	NM_010421.4
31	Gene Parp6	1700119G14Ri poly (ADP-ribose) polymerase family, member 6	NM_001205239.1
31	Gene Pkm	AA414905, Pk- pyruvate kinase, muscle	NM_001253883.1
27	Gene Gm1065	ENSMUSG000i predicted gene 10655	XR_140945.1, XR_
27	Gene Tle3	2610103N05Ri transducin-like enhancer of split 3, homolog of Dros	NM_001083928.1
45	Gene Rplp1	Arpp1, MGC10 ribosomal protein, large, P1	NM_018853.3
45	Gene Kif23	Knsl5, MKLP-1, kinesin family member 23	NM_024245.4
30	Gene Paqr5	BB115488, mP progesterin and adipoQ receptor family member V	NM_028748.2
25	Gene Mir5133	mu-mir-5133, microRNA 5133	NR_039595.1
27	Gene Anp32a	Anp32, LANP, A acidic (leucine-rich) nuclear phosphoprotein 32 fami	NM_009672.3
32	Gene Fem1b	Fem1b, mKIAA feminization 1 homolog b (C. elegans)	NM_010193.4
24	Gene Pias1	Ddxbp1, Pias1, protein inhibitor of activated STAT 1	NM_019663.3
17	Gene Skor1	Skor1, Corl1, CSKI family transcriptional corepressor 1	NM_172446.3, NM
26	Gene Iqch	4921504K03Ri IQ motif containing H	NM_030068.1
26	Gene Aagab	p34, Aagab, A alpha- and gamma-adaptin binding protein	NM_025857.2
27	Gene Smad3	AU022421, Smad3, Madh3	NM_016769.4
40	Gene Smad6	Smad6, Madh6	NM_008542.3
25	Gene Zwilch	Zwilch, 23100i zwilch kinetochore protein	NM_026507.4
25	Gene Rpl4	2010004J23Ri ribosomal protein L4	NM_024212.4
25	Gene Snord16	Snord16a, MBI small nucleolar RNA, C/D box 16A	NR_028548.1
25	Gene Snapc5	Snapc5, 20101 small nuclear RNA activating complex, polypeptide 5	NM_183316.2
30	Gene Map2k1	Map2k1, Prkm mitogen-activated protein kinase kinase 1	NM_008927.3
27	Gene Tipin	1110005A05Ri timeless interacting protein	NM_025372.3
30	Gene Dis3l	Dis3l, AV3403i DIS3 mitotic control homolog (S. cerevisiae)-like	NM_001001295.2,
33	Gene Rab11a	Rab11a RAB11a, member RAS oncogene family	NM_017382.5
25	Gene Dennd4a	Dennd4a, MGC DENN/MADD domain containing 4A	NM_001162917.1
39	Gene Ptplad1	Ptplad1, Hspc1 protein tyrosine phosphatase-like A domain contain	NM_021345.2
29	Gene Igdcc4	WI-16786, DDI immunoglobulin superfamily, DCC subclass, membe	NM_020043.2

29	Gene Igdcc3	Igdcc3, Punc, A immunoglobulin superfamily, DCC subclass, member	NM_008988.2
26	Gene Parp16	C79952, MGC6 poly (ADP-ribose) polymerase family, member 16	NM_177460.4
27	Gene Clpx	Clpx, E330029I caseinolytic peptidase X (E.coli)	NM_001044389.1
25	Gene Pdcd7	ES18, Pdcd7, C programmed cell death 7	NM_016688.2
29	Gene Kbtbd13	5430433E21Ri kelch repeat and BTB (POZ) domain containing 13	NM_028974.1
29	Gene Rasl12	Rasl12, 46314I RAS-like, family 12	NM_001033158.2
28	Gene Mtfmt	2310020P08Ri mitochondrial methionyl-tRNA formyltransferase	NM_027134.3
32	Gene Plekho2	MGC30448, Pl pleckstrin homology domain containing, family O member	NM_153119.2
32	Gene Pif1	4631410M14, PIF1 5'-to-3' DNA helicase homolog (S. cerevisiae)	NM_172453.3
30	Gene Rbpms2	2400008B06Ri RNA binding protein with multiple splicing 2	NM_028030.3
20	Gene Trip4	ASC-1, Trip4, 4 thyroid hormone receptor interactor 4	NM_001170907.1
20	Gene 2810417	AA409629, 28: RIKEN cDNA 2810417H13 gene	NM_026515.2
20	Gene Csnk1g1	9130020E21Ri casein kinase 1, gamma 1	NM_173185.2
31	Gene Ppib	Cphn-2, Cphn2 peptidylprolyl isomerase B	NM_011149.2
31	Gene Snx22	Snx22, Gm112 sorting nexin 22	NM_001025612.2
26	Gene Herc1	MGC7618, 281 hect (homologous to the E6-AP (UBE3A) carboxyl terminus)	NM_145617.3
29	Gene Usp3	AA409661, Us1 ubiquitin specific peptidase 3	NM_144937.3
32	Gene Rps27l	1810034D23Ri ribosomal protein S27-like	NM_026467.3
32	Gene Lactb	Lactb, Mrpl56, lactamase, beta	NM_030717.1
30	Gene Tpm1	Tpm1, alpha-T tropomyosin 1, alpha	NM_024427.4, NM
21	Gene C2cd4a	C2cd4a, EG24 C2 calcium-dependent domain containing 4A	NM_001163143.1
21	Gene Vps13c	Vps13c, W516 vacuolar protein sorting 13C (yeast)	NM_177184.3
28	Gene Rora	9530021D13Ri RAR-related orphan receptor alpha	NM_013646.1
21	Gene LOC100502669	uncharacterized LOC100502669	XR_108116.1, XR_
20	Gene Gm4978	Gm4978, EG24 ribosomal protein L7A pseudogene	
20	Gene Anxa2	Cal1h, Anxa2, annexin A2	NM_007585.3
20	Gene Mir3109	Mir3109, mmu microRNA 3109	NR_037296.1
21	Gene Foxb1	C43, Foxb1, Fox forkhead box B1	NM_022378.3
21	Gene B230323	B230323A14Ri RIKEN cDNA B230323A14 gene	NR_040765.1
24	Gene Bnip2	Bnip2, BNIP2b, BCL2/adenovirus E1B interacting protein 2	NM_001008238.2
22	Gene Gtf2a2	Tfii2, Tflig, Gt general transcription factor II A, 2	NM_001039519.1
44	Gene Ccnb2	CycB2, Ccnb2 cyclin B2	NM_007630.2
44	Gene Rnf111	ARK, Rnf111, R ring finger 111	NM_033604.2
28	Gene Sltm	5730455C01Ri SAFB-like, transcription modulator	NM_026337.1, NM
32	Gene Fam63b	KIAA1164, A14 family with sequence similarity 63, member B	NM_172772.2
24	Gene Adam10	kuzbanian, kuz a disintegrin and metallopeptidase domain 10	NM_007399.3
21	Gene Aldh1a2	Aldh1a2, Rald1 aldehyde dehydrogenase family 1, subfamily A2	NM_009022.4
31	Gene Polr2m	D9Wsu138e, A polymerase (RNA) II (DNA directed) polypeptide M	NM_178602.3, NM
23	Gene Cgnl1	4933421H10Ri cingulin-like 1	NM_026599.4
32	Gene Tcf12	HEB, ALF1, Tcf transcription factor 12	NM_011544.3, NM
28	Gene 4930509	4930509E16Ri RIKEN cDNA 4930509E16 gene	NR_045735.1
28	Gene Rfx7	Rfx7, 9930116 regulatory factor X, 7	NM_001033536.1
25	Gene Nedd4	Nedd4a, E430I neural precursor cell expressed, developmentally downregulated	NM_010890.3
25	Gene Prtg	Igdcc5, A2300I protogenin homolog (Gallus gallus)	NM_175485.4
25	Gene Pygo1	2600014C22Ri pygopus 1	NM_028116.2
28	Gene Khdc3	2410004A20Ri KH domain containing 3, subcortical maternal complex	NM_025890.3
28	Gene Rsl24d1	MGC6735, 241 ribosomal L24 domain containing 1	NM_198609.2

23	Gene Gm1655	Gm16551	predicted gene 16551	NR_045284.1
23	Gene Onecut1	Onecut1, Hnf6	one cut domain, family member 1	NM_008262.3
26	Gene Gm2981	Gm2981	apoptosis inhibitor 5 pseudogene	
26	Gene Myo5a	MVa, Myo5, D	myosin VA	NM_010864.2
30	Gene Myo5c	9130003O20Ri	myosin VC	NM_001081322.1
30	Gene Gnb5	Gnb5, flr, GBS,	guanine nucleotide binding protein (G protein), beta	NM_010313.1, NM
22	Gene Mapk6	Prkm4, Mapk4	mitogen-activated protein kinase 6	NM_027418.1, NM
22	Gene 4933433	4933433G15Ri	RIKEN cDNA 4933433G15 gene	NR_040719.1
36	Gene Tmod3	UTMOD, Tmoc	tropomodulin 3	NM_016963.2
36	Gene Tmod2	N-Tmod, Tmoc	tropomodulin 2	NM_001038710.1
23	Gene Lysmd2	AW538442, Ly	LysM, putative peptidoglycan-binding, domain cont	NM_027309.2
21	Gene Lrrc1	AU016091, mK	leucine rich repeat containing 1	NM_172528.3, NM
21	Gene Gm1956	Gm19569	predicted gene, 19569	XR_108127.2, XR_
21	Gene Gclc	Gclc, Glclc, GL	glutamate-cysteine ligase, catalytic subunit	NM_010295.2
27	Gene Elovl5	AI747313, Elovl	ELOVL family member 5, elongation of long chain fa	NM_134255.3
32	Gene Fbxo9	AA986398, 90:	f-box protein 9	NM_023605.2, NM
32	Gene Ick	AI848300, 221	intestinal cell kinase	NM_019987.2, NM
26	Gene Mb21d1	Mb21d1, m-cC	Mab-21 domain containing 1	NM_173386.4
50	Gene Mto1	2310039H01Ri	mitochondrial translation optimization 1 homolog (S	NM_026658.2
50	Gene Eef1a1	Eef1a1, MGC1:	eukaryotic translation elongation factor 1 alpha 1	NM_010106.2
19	Gene Slc17a5	SIALIN, Slc17a:	solute carrier family 17 (anion/sugar transporter), m	NM_172773.2
28	Gene Senp6	mKIAA0797, 2:	SUMO/sentrin specific peptidase 6	NM_146003.2
18	Gene Htr1b	Htr1b	5-hydroxytryptamine (serotonin) receptor 1B	NM_010482.1
18	Gene D430036	D430036J16Ri	RIKEN cDNA D430036J16 gene	NR_040393.1, NR_
26	Gene Irak1bp1	SIMPL, Aip70,	interleukin-1 receptor-associated kinase 1 binding p	NM_022986.4, NM
35	Gene Phip	4632404O06Ri	pleckstrin homology domain interacting protein	NM_001081216.1
18	Gene Hmgn3	6330514M13R	high mobility group nucleosomal binding domain 3	NM_026122.4, NM
28	Gene Sh3bgrl2	AA408038, A9:	SH3 domain binding glutamic acid-rich protein like 2	NM_172507.5
22	Gene Elovl4	Elovl4	elongation of very long chain fatty acids (FEN1/Elo2,	NM_148941.2
35	Gene Ttk	Esk1, PYT, ALO.	Ttk protein kinase	NM_009445.2, NM
27	Gene Ibtik	Ibtik, mKIAA14	inhibitor of Bruton agammaglobulinemia tyrosine ki	NM_001081282.2
22	Gene 9330154	9330154J02Ri	RIKEN cDNA 9330154J02 gene	XR_035199.1, XR_
22	Gene Tpbg	AW495680, 5T	trophoblast glycoprotein	NM_001164792.1
32	Gene Ube2cbp	2610018I03Ri	ubiquitin-conjugating enzyme E2C binding protein	NM_027394.2
32	Gene Dopey1	C130028L17, E	dopey family member 1	NM_177208.3
20	Gene Pgm3	Agm1, PAGM,	phosphoglucomutase 3	NM_028352.4, NM
20	Gene Rwdd2a	MGC144625, FRWD	domain containing 2A	NM_027100.2, NM
31	Gene Me1	D9Ert267e, N	malic enzyme 1, NADP(+)-dependent, cytosolic	NM_008615.2, NM
31	Gene A330041	A330041J22Ri	RIKEN cDNA A330041J22 gene	NR_045835.1
19	Gene Snap91	91kDa, mKIAA	synaptosomal-associated protein 91	NM_013669.1
25	Gene 4922501	4922501C03Ri	RIKEN cDNA 4922501C03 gene	NM_199316.2
16	Gene Nt5e	NT, AI447961,	5' nucleotidase, ecto	NM_011851.4
29	Gene Snx14	Snx14, C33003	sorting nexin 14	NM_172926.3
44	Gene Syncrip	Syncrip, 46324	synaptotagmin binding, cytoplasmic RNA interacting	NM_019796.4, NM
21	Gene Adamts7	ADAMTS7B, Aca	disintegrin-like and metallopeptidase (reprolysin t	NM_001003911.2
18	Gene Plscr4	Plscr4, AV245	phospholipid scramblase 4	NM_178711.3
25	Gene B430319	D530025C14Ri	RIKEN cDNA B430319G15 gene	NR_029474.1

25	Gene Plod2	D530025C14Ri procollagen lysine, 2-oxoglutarate 5-dioxygenase 2	NM_011961.3, NM
33	Gene 1190002	1190002N15Ri RIKEN cDNA 1190002N15 gene	NM_001033145.2
20	Gene Chst2	AW121776, G β carbohydrate sulfotransferase 2	NM_018763.2
28	Gene U2surp	2610101N10Ri U2 snRNP-associated SURP domain containing	NM_026476.2, NM
31	Gene 1700065	1700065D16Ri RIKEN cDNA 1700065D16 gene	NM_028533.2
31	Gene Atr	Atr	NM_019864.1
27	Gene Rnf7	Rnf7, SAG, Rbx ring finger protein 7	NM_011279.2
27	Gene Rasa2	AU023900, Ra: RAS p21 protein activator 2	NM_053268.2
22	Gene Acpl2	DKFZp434B21: acid phosphatase-like 2	NM_153420.2
18	Gene Spsb4	Spsb4, SSB-4, I splA/ryanodine receptor domain and SOCS box cont	NM_145134.3
18	Gene Gm1601	Gm16010, OT1 predicted gene 16010	XR_108152.1, XR_
36	Gene Slc25a36	Slc25a36, C33(solute carrier family 25, member 36	NM_138756.4
26	Gene Nmnat3	4933408N02Ri nicotinamide nucleotide adenylyltransferase 3	NM_144533.2
24	Gene Mrps22	Rpms22, Mrps mitochondrial ribosomal protein S22	NM_025485.3
28	Gene Foxl2os	Foxl2os, ENSM forkhead box L2 opposite strand transcript	NR_003248.3
28	Gene Foxl2	Foxl2, Pfrk, BP forkhead box L2	NM_012020.2
27	Gene Gm6432	Gm6432, EG62 predicted gene 6432	NM_001244762.1
27	Gene Cep70	Bite, Cep70, C(centrosomal protein 70	NM_023873.3
17	Gene Esyt3	mKIAA4186, F β extended synaptotagmin-like protein 3	NM_177775.3
20	Gene Mras	Mras, AI32625 muscle and microspikes RAS	NM_008624.3
42	Gene Armc8	Armc8, HSPC0: armadillo repeat containing 8	NM_028768.3, NM
42	Gene Dbr1	Dbr1, AW0184 debranching enzyme homolog 1 (<i>S. cerevisiae</i>)	NM_031403.3
21	Gene A4gnt	A4gnt, Gm798 alpha-1,4-N-acetylglucosaminyltransferase	NM_001077424.2
21	Gene Dzip1l	Dzip1l, AI6639 DAZ interacting protein 1-like	NM_028258.3
17	Gene Sox14	Sox14 SRY-box containing gene 14	NM_011440.1
17	Gene Slc35g2	Gm519, Slc35g solute carrier family 35, member G2	NM_001101483.1
25	Gene Stag1	Stag1, SA-1, Sc stromal antigen 1	NM_009282.3
28	Gene Pccb	AI314687, 130 propionyl Coenzyme A carboxylase, beta polypeptid	NM_025835.2
40	Gene Msl2	Msl211, E1301(male-specific lethal 2 homolog (<i>Drosophila</i>)	NM_001100451.1
22	Gene Ppp2r3a	3222402P14Ri protein phosphatase 2, regulatory subunit B", alpha	NM_001161362.3,
53	Gene Amotl2	Amotl2, Lccp, (angiominin-like 2	NM_019764.2
30	Gene Ryk	Vik, Ryk, AW5: receptor-like tyrosine kinase	NM_013649.3, NM
20	Gene Topbp1	D430026L04Ri topoisomerase (DNA) II binding protein 1	NM_176979.5
28	Gene Cdv3	C79446, TPP3(carnitine deficiency-associated gene expressed in ve	NM_175565.3, NM
33	Gene Uba5	AW240750, U β ubiquitin-like modifier activating enzyme 5	NM_025692.3
33	Gene Acad11	5730439E10Ri acyl-Coenzyme A dehydrogenase family, member 11	NM_175324.3
23	Gene Dnajc13	RME-8, Rme8, DnaJ (Hsp40) homolog, subfamily C, member 13	NM_001163026.1
32	Gene Nudt16	AI851783, 231 nudix (nucleoside diphosphate linked moiety X)-type	NM_029385.2
23	Gene Atp2c1	pmr1, BCPM, 1ATPase, Ca ⁺⁺ -sequestering	NM_001253831.1
31	Gene Wdr82	CDW5/WDR82 WD repeat domain containing 82	NM_029896.1
31	Gene Mirlet7g	Mirlet7g, Mirn microRNA let7g	NR_029526.1
24	Gene Poc1a	2510040D07Ri POC1 centriolar protein homolog A (<i>Chlamydomona</i>	NM_027354.2
42	Gene Dusp7	Pyst2, Dusp7, , dual specificity phosphatase 7	NM_153459.4
44	Gene Rpl29	MGC107574, Ribosomal protein L29	NM_009082.2
44	Gene Acy1	Acy1, 1110014 aminoacylase 1	NM_025371.2
44	Gene Abhd14a	AW558221, Dc abhydrolase domain containing 14A	NM_001110271.1
25	Gene Pcbp4	Pcbp4, AlphaC poly(rC) binding protein 4	NM_021567.5

25	Gene Gpr62	Gpr62, 49334C G protein-coupled receptor 62	NM_001159652.1
25	Gene Parp3	AW990611, PA poly (ADP-ribose) polymerase family, member 3	NM_145619.2
20	Gene Rrp9	D9Wsu10e, MR RRP9, small subunit (SSU) processome component, I	NM_145620.4
33	Gene Tex264	Tex264, TEG-2 testis expressed gene 264	NM_001081654.1
33	Gene Rad54l2	Rad54l2, G630 RAD54 like 2 (S. cerevisiae)	NM_030730.2
30	Gene Vprbp	mKIAA0800, A Vpr (HIV-1) binding protein	NM_001015507.2
36	Gene Rbm15b	Rbm15b, 1810 RNA binding motif protein 15B	NM_175402.4
36	Gene Manf	D18Mgi17, D1 mesencephalic astrocyte-derived neurotrophic fact	NM_029103.3
36	Gene Dock3	PBP, MOCA, mdedicator of cyto-kinesis 3	NM_153413.2
34	Gene Cacna2d	Cacna2d2, tor calcium channel, voltage-dependent, alpha 2/delta s	NM_020263.3, NM
34	Gene Tmem11	Tmem115, Pp transmembrane protein 115	NM_019704.2
34	Gene Cyb561d	Cyb561d2, Tsp cytochrome b-561 domain containing 2	NM_019720.4
34	Gene Nprl2	NPR2L, 28104 nitrogen permease regulator-like 2	NM_018879.2
24	Gene Zmynd1	Blu, Zmynd10 zinc finger, MYND domain containing 10	NM_053253.3
24	Gene Rassf1	123F2, Rassf1, Ras association (RalGDS/AF-6) domain family memb	NM_001243748.1,
24	Gene Gm9917	Gm9917, ENSM predicted gene 9917	XR_168462.1, XR_
24	Gene Tusc2	Tusc2, PAP, Pd tumor suppressor candidate 2	NM_019742.4
24	Gene Hyal2	AI256841, Hya hyaluronoglucosaminidase 2	NM_010489.2
24	Gene Hyal1	Hya1, Hyal1, H hyaluronoglucosaminidase 1	NM_008317.4
25	Gene Gnai2	Gia, C76432, Gguanine nucleotide binding protein (G protein), alph	NM_008138.4
25	Gene Gm1972	Gm19721 predicted gene, 19721	XR_168463.1
21	Gene Sema3f	Sema4, Semak sema domain, immunoglobulin domain (Ig), short ba	NM_011349.3
25	Gene Rbm5	D030069N10R RNA binding motif protein 5	NM_148930.3
27	Gene Rbm6	g16, NY-LU-12, RNA binding motif protein 6	NM_029169.3, NM
22	Gene Mon1a	2810468K17Ri MON1 homolog A (yeast)	NM_028369.3
22	Gene Mst1r	Mst1r, CDw13 macrophage stimulating 1 receptor (c-met-related t	NM_009074.2
33	Gene Uba7	MGC144384, Ubiquitin-like modifier activating enzyme 7	NM_023738.4
33	Gene Fam212i	Inka1, 623042 family with sequence similarity 212, member A	NM_026597.3
33	Gene Cdhr4	MGC144384, C cadherin-related family member 4	XM_003688869.1,
29	Gene Ip6k1	Ip6k1, InsP6, I inositol hexaphosphate kinase 1	NM_013785.2
32	Gene Rnf123	Kpc1, BC00394 ring finger protein 123	NM_032543.2
32	Gene Mst1	Hgfl, D9H3F15 macrophage stimulating 1 (hepatocyte growth facto	NM_008243.3
32	Gene Apeh	Apeh, MGC381 acylpeptide hydrolase	NM_146226.2
26	Gene Bsn	Bsn	NM_007567.2
36	Gene Dag1	D9Wsu13e, D dystroglycan 1	NM_010017.3
36	Gene Rhoa	Arha1, Rhoa, A ras homolog gene family, member A	NM_016802.4
36	Gene Gpx1	Gpx1, GPx-1, C glutathione peroxidase 1	NM_008160.6
36	Gene Usp4	F730026I20Rik ubiquitin specific peptidase 4 (proto-oncogene)	NM_011678.2
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27	Gene Klhdc8b	4931406O17Ri kelch domain containing 8B	NM_030075.2
27	Gene Ccdc71	Ccdc71, 26000 coiled-coil domain containing 71	NM_133744.4
26	Gene Lamb2	Lamb2, Lamb- laminin, beta 2	NM_008483.3
26	Gene Usp19	Zmynd9, AI047 ubiquitin specific peptidase 19	NM_001168371.2
24	Gene Qars	1110018N24Ri glutaminyl-tRNA synthetase	NM_133794.2, NM
30	Gene Qrich1	Qrich1, 26100 glutamine-rich 1	NM_175143.5, NM
30	Gene Impdh2	Impdh2, IMPD inosine 5'-phosphate dehydrogenase 2	NM_011830.3
30	Gene Ndufaf3	4733401H18Ri NADH dehydrogenase (ubiquinone) 1 alpha subcom	NM_023247.1

30	Gene Mir191	mmu-mir-191, microRNA 191	NR_029577.1
30	Gene Mir425	mmu-mir-425, microRNA 425	NR_029947.1
30	Gene Dalrd3	Dalrd3, 63305: DALR anticodon binding domain containing 3	NM_026378.3
30	Gene Wdr6	Wdr6, mWDR6	NM_031392.2
30	Gene P4htm	MGC130597, 4prolyl 4-hydroxylase, transmembrane (endoplasmic	NM_028944.3
30	Gene Arih2	ARI2, AI84354: ariadne homolog 2 (Drosophila)	NM_011790.4
28	Gene Slc25a2c	C78826, 1110C solute carrier family 25 (mitochondrial carnitine/acy	NM_020520.4
28	Gene Prkar2a	Prkar2a, RII(alp protein kinase, cAMP dependent regulatory, type II	NM_008924.2
26	Gene Nckipsd	WISH, DIP1, WNCK interacting protein with SH3 domain	NM_030729.4
26	Gene Celsr3	flamingo, Celsr cadherin, EGF LAG seven-pass G-type receptor 3 (fla	NM_080437.2
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41	Gene Gm7628	Gm7628, EG6C predicted gene 7628	XM_976757.3
41	Gene Plxnb1	2900002G15Ri plexin B1	NM_172775.2
27	Gene Cdc25a	Cdc25a, D9Ertd393e	NM_007658.3
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32	Gene Gm1061	ENSMUSG000C predicted gene 10615	XR_140969.1, XR_
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21	Gene Scap	mKIAA0199, 9: SREBF chaperone	NM_001001144.2
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30	Gene Setd2	KMT3A, 49215 SET domain containing 2	NM_001081340.2
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19	Gene Pth1r	Pthr, Pthr1, PP parathyroid hormone 1 receptor	NM_001083936.1
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22	Gene Prss50	79H19C, Tsp5C protease, serine, 50	NM_146227.4
22	Gene Tmie	sr, Mm.87012, transmembrane inner ear	NM_146260.2
22	Gene Als2cl	mRn.49018, 7: ALS2 C-terminal like	NM_146228.4, NM
24	Gene Lrrfip2	AI850587, Lrrf ileucine rich repeat (in FLII) interacting protein 2	NM_027742.3, NM
28	Gene Trank1	A230061D21Ri tetratricopeptide repeat and ankyrin repeat contain	NM_001164659.1
44	Gene Pcd6ip	Eig2, Pcd6ip, programmed cell death 6 interacting protein	NM_001164677.1
35	Gene Clasp2	8030404L10Ri CLIP associating protein 2	NM_029633.2, NM
21	Gene Ubp1	Ubp1, LBP-1a, upstream binding protein 1	NM_013699.2, NM
33	Gene Crtap	Crtap, CASP, L cartilage associated protein	NM_019922.2
30	Gene Dync1li1	Dync1li1, 1110 dynein cytoplasmic 1 light intermediate chain 1	NM_146229.2
26	Gene Cmtm7	Cklfs7, AI481E CKLF-like MARVEL transmembrane domain containi	NM_001252479.1,
26	Gene Cmtm8	2700018N07Ri CKLF-like MARVEL transmembrane domain containi	NM_027294.2
21	Gene Gpd1l	Gpd1l, D9Ertd glycerol-3-phosphate dehydrogenase 1-like	NM_175380.5
21	Gene Gm9846	ENSMUSG000C predicted gene 9846	NM_001190258.1
34	Gene Stt3b	Stt3b, Simp, 1: STT3, subunit of the oligosaccharyltransferase comp	NM_024222.2
28	Gene Tgfbr2	DNIIR, RIIDN, T transforming growth factor, beta receptor II	NM_009371.3, NM
28	Gene Azi2	Azi2, AA41014 5-azacytidine induced gene 2	NM_013727.3, NM
27	Gene Itga9	D130073C02, I integrin alpha 9	NM_133721.2, NM
28	Gene Ctdspl	AI426263, Ctd: CTD (carboxy-terminal domain, RNA polymerase II, r	NM_133710.3

29	Gene Oxsr1	2810422B09Ri oxidative-stress responsive 1	NM_133985.2, NR
18	Gene Myd88	Myd88	NM_010851.2
18	Gene Acaa1a	Acaa, Acaa1a, acetyl-Coenzyme A acyltransferase 1A	NM_130864.3
19	Gene Xylb	AI132223, Xylt xylulokinase homolog (H. influenzae)	NM_001033209.3
19	Gene Acvr2b	Acvr2b, ActRIII activin receptor IIB	NM_007397.2
19	Gene Exog	Exog, Endogl2, endo/exonuclease (5'-3'), endonuclease G-like	NM_001172136.1
17	Gene Wdr48	8430408H12Ri WD repeat domain 48	NM_026236.3
28	Gene Csrnp1	Axud1, CSRNP: cysteine-serine-rich nuclear protein 1	NM_153287.3
38	Gene Slc25a38	Slc25a38, BC0: solute carrier family 25, member 38	NM_144793.1
38	Gene Rpsa	67lr, Lamr1, 6 ribosomal protein SA	NM_011029.4
38	Gene Snora62	E2, MBI-13, Sn small nucleolar RNA, H/ACA box 62	NR_002902.1
38	Gene Gm5922	Gm5922, EG54 predicted gene 5922	XR_108165.1, XR_
24	Gene Eif1b	1500010M16R eukaryotic translation initiation factor 1B	NM_026892.3
27	Gene 4930593	4930593C16Ri RIKEN cDNA 4930593C16 gene	NR_040753.1
27	Gene Ctnnb1	Catnb, Mesc, Catenin (cadherin associated protein), beta 1	NM_007614.3, NM
26	Gene Sec22c	Sec22l3, Sec22SEC22 vesicle trafficking protein homolog C (S. cerev	NM_178677.4, NM
26	Gene Deb1	Deb1, 111002(differentially expressed in B16F10 1	NM_026794.2
23	Gene Nktr	5330401F18Ri natural killer tumor recognition sequence	NM_010918.2
22	Gene E530011	E530011L22Ril RIKEN cDNA E530011L22 gene	NR_033503.1
22	Gene Zfp651	R74626, Zfp65 zinc finger protein 651	NM_001166644.1
20	Gene Klhl40	Kbtbd5, 23100 kelch-like 40	NM_028202.3
20	Gene Hhatl	Hhatl, 111001: hedgehog acyltransferase-like	NM_029095.2, NR
32	Gene Higd1a	Higd1a, AI303: HIG1 domain family, member 1A	NM_019814.4
25	Gene Abhd5	CDS, Abhd5, 1: abhydrolase domain containing 5	NM_026179.2
26	Gene Zfp105	Zfp105, AW55' zinc finger protein 105	NM_009544.2
39	Gene 1110059	1110059G10Ri RIKEN cDNA 1110059G10 gene	NM_025419.4
39	Gene Kif15	3110023M17R kinesin family member 15	NM_010620.1
27	Gene Tmem42	AV003444, D9I transmembrane protein 42	NM_025339.4, NM
32	Gene Zdhhc3	Zfp373, 22100 zinc finger, DHHC domain containing 3	NM_026917.5
32	Gene Exosc7	Exosc7, mKIAA exosome component 7	NM_001081188.1
25	Gene Tmem15	2310037P21Ri transmembrane protein 158	NM_001002267.2
26	Gene Limd1	AW822033, Lir LIM domains containing 1	NM_013860.2
26	Gene Sacm1l	mKIAA0851, S: SAC1 (suppressor of actin mutations 1, homolog)-lik	NM_030692.4
28	Gene Lztf1	5530402H04Ri leucine zipper transcription factor-like 1	NM_033322.2
29	Gene 4930526	1600027J15Ril RIKEN cDNA 4930526I15 gene	NR_015516.1, NR_
29	Gene Gm2078	Gm20783 predicted gene, 20783	XM_003086771.1,
20	Gene Clcn5	CIC-5, T25545, chloride channel 5	NM_016691.4, NM
16	Gene Ppp1r3f	Sfc15, RF3, PpI protein phosphatase 1, regulatory (inhibitor) subuni	NM_138605.2
16	Gene 4930524	4930524L23Ril RIKEN cDNA 4930524L23 gene	NR_029473.1
16	Gene Foxp3	JM2, sf, scurfir forkhead box P3	NM_054039.2, NM
18	Gene Bcor	mKIAA1575, 5: BCL6 interacting corepressor	NM_029510.3, NM
20	Gene Usp9x	Dffrx, AA4073(ubiquitin specific peptidase 9, X chromosome	NM_009481.2
23	Gene Ddx3x	Fin14, Ddx3x, IDEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-	NM_010028.3
25	Gene Slc25a5	MGC101927, A solute carrier family 25 (mitochondrial carrier, aden	NM_007451.3
20	Gene C330007	C330007P06Rik	NM_029951.1
20	Gene Ube2a	HR6A, Ube2a, Mhr6a, HHR6A	NM_019668.3
17	Gene Hs6st2	Hs6st2, 6OST2 heparan sulfatase 6-O-sulfotransferase 2	NM_015819.3, NM

21	Gene Ddx26b	Ddx26b, 63305 DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	NM_172779.4
19	Gene Hmgb3	Hmg2a, Hmgb: high mobility group box 3	NM_008253.3
18	Gene Xlr4b	Xlr4, Xlr4b X-linked lymphocyte-regulated 4B	NM_021365.2
18	Gene F8a	DXUcsf1, F8a, factor 8-associated gene A	NM_007978.3
18	Gene Xlr4c	Xlr4c, 2900036 X-linked lymphocyte-regulated 4C	NM_183094.3
18	Gene Zfp275	AI593314, DXP zinc finger protein 275	NM_031494.2, NM
16	Gene Mecp2	BB130002, Mb methyl CpG binding protein 2	NM_001081979.1,
20	Gene Atp6ap1	Atp6s1, C7-1, ATPase, H+ transporting, lysosomal accessory protei	NM_018794.4
20	Gene Gdi1	GDIalpha, Gdi1 guanosine diphosphate (GDP) dissociation inhibitor	NM_010273.4
20	Gene Fam50a	Fam50a, XAP-5 family with sequence similarity 50, member A	NM_138607.3
25	Gene Tbl1x	Tbl1, 5330429 transducin (beta)-like 1 X-linked	NM_020601.2
20	Gene Arx	Arx aristaless related homeobox	NM_007492.3
21	Gene Gspt2	MGC143749, G1 to S phase transition 2	NM_008179.2
21	Gene Efnb1	Efnb1, LERK-2, ephrin B1	NM_010110.4
18	Gene Nhs12	EG621083, Nh: NHS-like 2	NM_001163610.1
15	Gene Rps4x	Rps4x, MGC11 ribosomal protein S4, X-linked	NM_009094.1
17	Gene C77370	A230051P11, expressed sequence C77370	NM_001077354.2
16	Gene LOC101055819	uncharacterized LOC101055819	XM_003945612.1
16	Gene Huwe1	C80292, LASU: HECT, UBA and WWE domain containing 1	NM_021523.4
20	Gene Sh3kbp1	Seta, Ruk, AI44 SH3-domain kinase binding protein 1	NM_001135727.1
20	Gene Nhs	Nhs1, Gm48, C Nance-Horan syndrome (human)	NM_001081052.1
15	Gene Rbbp7	AA409861, BB: retinoblastoma binding protein 7	NM_009031.3
20	Gene Gpm6b	M6B, Gpm6, A glycoprotein m6b	NM_001177955.1
29	Gene Msl3	Msl3l1, AU018 male-specific lethal 3 homolog (Drosophila)	NM_010832.4

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NP_001074696.1
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035377.2

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106523.3
NP_031685.2
168474.1
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1418237_s_at, 14: NP_034059.2, NP_001103461.1
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NP_035916.2
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NP_997406.1

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NP_001078969.2
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NP_075029.1

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NP_080827.2

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NP_081622.1
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NP_938034.2
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 NP_848917.2
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 106370.1
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 1416936_at NP_001185714.1, NP_001185716.1, NP_031403.2

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 NP_940815.3
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 1415779_s_at NP_033739.1

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1429484_at

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NP_058559.3
, NM_173416.3 NP_001164329.1, NP_775592.2
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 NP_907185.2 XP_138107.7, XP_912278.2
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 NP_963999.2
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NP_001034287.1

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NP_001139450.2
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NP_033402.2
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, NR_045588.1 NP_001074805.1
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NP_057932.2
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NP_955520.1

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 NP_075661.1
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 , NM_001163576.1 NP_001157047.1, NP_001157048.1
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 NP_001157697.1
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 105888.1
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107054.3
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NP_796333.3
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NP_112453.2
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NP_034609.2
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1426637_a_at, 14 NP_035511.2
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168766.1
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, NM_001166407.1, NP_001159878.1, NP_001159879.1, NP_033030.1

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NP_001001488.2
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NP_766218.1
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NP_766555.1
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NP_001034303.3
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NP_083144.1
NP_963894.1
NP_001002239.2

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NP_077138.1
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 NP_064308.1

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 NP_032915.2
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 NP_780590.3
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1429208_at
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NP_932110.1
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XP_003945642.1
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NP_938042.2

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 NP_032878.1
 1415709_s_at, 14 NP_849261.2
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 1425902_a_at, 14 NP_001170840.1, NP_001170841.1, NP_062281.1
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 1422443_at NP_573479.2
 1423297_at, 1423 NP_038786.2, NP_001157571.1, NP_001157572.1, NP_001157573.1
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 NP_001078859.1
 NP_031816.2
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 1417904_at, 1432 NP_061301.3
 1429145_at, 1433 NP_080087.1
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1430040_at, 1434 NP_780408.1
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NP_034262.2

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XM_003946035.1 XP_003945641.1, XP_003946084.1

NP_083924.2

NP_963909.2

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NP_808315.1

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NP_082024.2

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NP_690037.1

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NP_001001334.2

XP_003945374.1

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1429915_at

NP_081991.1

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141954.1
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107352.3

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1432448_at

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XM_003946075.1 XP_003945381.1, XP_003946124.1
 1417819_at, 1417 NP_598434.2
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 NP_034366.2
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 NP_084144.2
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NP_001004156.1

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 NP_034221.3

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NP_001008234.2
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eudogene
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NP_061295.2
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NP_001028484.2
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NP_808349.1
NP_059495.3
XM_001472438.3 XP_001479537.2, XP_001472488.2
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 NP_780575.2
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107956.2

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NP_001093212.1
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NP_666319.2
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107987.2

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168892.1

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XM_003946268.1 XP_003945488.1, XP_003946317.1
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XM_003946270.1 XP_003945489.1, XP_003946319.1
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NP_032278.1
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NP_663570.2
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NP_001157036.1
, NM_172753.5 NP_001239552.1, NP_766341.4
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NP_001170998.1
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NP_083642.1
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l_979362.2 XP_917761.3, XP_984456.2
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105222.1
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NP_663599.3

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 NP_032478.2
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 NP_081761.2
 NP_795914.3
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 NP_001074709.1
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 NP_839998.2
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 1416014_at, 1416 NP_056566.2
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 XP_003945679.1
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 NP_083153.1
 NP_918948.1

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NP_080626.1
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106144.1
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NP_081463.1
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NP_001001493.1
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1417037_at NP_062690.2, NP_001157263.1
1434542_at NP_776291.1
1417182_at, 1417 NP_062768.1
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168896.1

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NP_083350.2

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NP_665856.2

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NP_598715.2

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 NP_851289.2
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 NP_081745.1
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 NP_080808.1
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 NP_079794.1
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 1431175_at

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, NM_025391.2, NP_001157944.1, NP_079667.2
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1423388_at, 1434 NP_033807.2
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NP_666330.2
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1427105_at NP_082407.1
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NP_080848.1
NP_083962.4
NP_001074620.1
1427980_at NP_001156734.1, NP_083217.1
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NP_064350.2
NP_780394.1
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XM_895061.4 XP_003086751.1, XP_900154.1
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NP_033488.1
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1426446_at, 1434 NP_758490.3, NP_001157232.1, NP_001157233.1, NP_001157234.1
1429653_at NP_941073.2, NP_001139368.1, NP_001139369.1
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NP_034071.1
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NP_001028657.1
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XM_111398.8 XP_001001798.3, XP_111398.7
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NP_001028314.1
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NP_001032375.1
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NP_058018.2

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NP_598716.1

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XM_003946280.1 XP_003945686.1, XP_003946329.1

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NP_001153379.1

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1_003946284.1 NP_775609.2, XP_003946333.1
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NP_001158269.1
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1430147_a_at, 14 NP_083524.2, NP_081537.1
1436652_at NP_795950.2
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Supporting Information Table S4. ARID4B directly regulated target genes identified by both RNA-Seq

	RNA-Seq	CHIP-Seq
Gene	log2Fc	Interval Dists to Start
Asic4	-3.48	25586, 27122, 28578
Elovl2	-2.99	403
1110032F04Rik	-2.9	398
Srcap	-2.89	657
Cabp1	-2.81	27486
Nkx2-1	-2.57	3468
Hs6st3	-2.23	-281
Sfrp4	-2.19	313
Mafa	-2.18	666
Dnaaf1	-2.16	-419, 29789
Kazald1	-2.08	-1371, 725, 2581, 3749
Hsd17b1	-2.06	-8043, 1541, 4565
Bcl11b	-1.95	22774
Fgf18	-1.9	-248
Ankrd63	-1.87	7451, 667
Fgf22	-1.86	11569
Erich5	-1.79	
Grin2c	-1.74	17403
Amh	-1.71	2016
4921507P07Rik	-1.67	-50
Cbln1	-1.63	3392, 2032, 112
Dnmt3l	-1.62	27345
Hhip	-1.59	-8
Elavl4	-1.56	215
St8sia1	-1.55	249
Gm11744	-1.53	-3284
Kl	-1.51	449
Gsg1l	-1.51	363
Rmdn2	-1.47	428
Ppp1r16b	-1.46	1267, 101555
Ankmy1	-1.42	-4294, -8454
Sim2	-1.38	-300
Tef	-1.36	8831
Igdcc3	-1.34	475
Hoxd1	-1.32	60
Prkcb	-1.31	379
Doc2b	-1.29	1049
Shisa2	-1.25	863
Greb1	-1.24	374, -10298
Exoc3l2	-1.24	-5219, 6269, 11197, 26301
Mylk2	-1.23	21640
Xkr5	-1.23	205

Scrn2	-1.22	-7696
Bahcc1	-1.22	-1811, 1933, 3789, 21613
Perm1	-1.21	
Cln3	-1.19	18072
Kcna3	-1.18	446
Zfyve28	-1.16	1012
Cebpa	-1.16	1091
P4ha3	-1.16	192
Itpka	-1.15	415, 2399
Ajap1	-1.15	782
Chrn4	-1.15	22048
Tmem206	-1.14	382, 1587
Trim62	-1.14	276
Scrn1	-1.14	190
Dll3	-1.14	7193, -10055
Cfi	-1.13	-5667
Tgfa	-1.13	397
Fam83f	-1.12	-295
Dhh	-1.12	4396, 460
Sult2b1	-1.12	
Reep6	-1.1	-8438, -6865, 127, 11663
Kbtbd13	-1.1	-6972
Mfsd7c	-1.09	325
Inhbb	-1.08	4648, 1640, 712
C530008M17Rik	-1.08	
Nkx2-6	-1.04	2854
Hspa1l	-1.04	9345
Prkce	-1.04	-553
Acss1	-1.04	59824, 176
Gdnf	-1.03	-275
Fam222a	-1.02	-667
Hist1h1b	-1.01	218
Ldoc1l	-1.01	191
Reep1	-1	511
Cage1	-0.96	-247
Rab25	-0.92	16567, 15447, 11650, -5929
Inha	-0.91	-3269, -1573, 603
Atp1b2	-0.9	648
Pcsk6	-0.9	198504
Mtcl1	-0.89	
Hhatl	-0.89	14011
Gucy2e	-0.88	1406
Nrm	-0.88	5370
Nkx2-3	-0.87	2459
Flrt1	-0.86	
Ttll11	-0.86	488
Ccdc96	-0.86	-716

Abhd3	-0.85	184
Fbxo32	-0.84	156
Atp8b5	-0.84	115049
Prrg2	-0.84	15668, 13108, 9092
Zbtb39	-0.83	3486
Plxdc1	-0.83	-2098
Tmem30b	-0.83	347
Tmem180	-0.83	-7920
Tbx6	-0.83	-4459, 10645
Itgae	-0.82	47517
Tyro3	-0.82	422, 17542
Pvrl1	-0.82	-528
Pzca	-0.81	-5719
Kcnn2	-0.81	-666
Capn5	-0.81	66897, 177
Mycn	-0.8	4364, 1836, 284
Pcdhgb6	-0.8	64882
Kcnc4	-0.8	-1102
Gckr	-0.8	-1869
Cyp26b1	-0.8	10004, 6292
Tcf24	-0.79	285
Gamt	-0.79	200
Six2	-0.79	446
St8sia6	-0.79	-144
Fam184b	-0.79	119149, 77
Bpifc	-0.78	54356, -10220
Rph3al	-0.78	
Mcf2l	-0.78	32043
Lmln	-0.77	-5913, 135
Hsbp1l1	-0.77	-9234
Bcan	-0.77	484
Plxna1	-0.77	789
Adgrl1	-0.77	
Palm3	-0.77	-9890
Erbp2	-0.76	156
Plxnc1	-0.75	530, -558
Iqgap2	-0.75	273682, 306
Jam2	-0.75	181, 61333
Fam60a	-0.75	832
Osbpl11	-0.74	177, 66705
Cacna1h	-0.74	-521
Pnkd	-0.72	18902
Rtn4rl1	-0.72	-9
Ppara	-0.72	628
Nol4l	-0.72	
Iqsec1	-0.72	93899, 73163
Pgpep1	-0.72	282

Glyctk	-0.72	
Pcsk4	-0.7	14337, 7766, 6193, -799
Tmem245	-0.7	517
Phf13	-0.7	7443, 1331, 243
Mbp	-0.69	781
Ass1	-0.69	162
Cadm1	-0.69	1248
Sema7a	-0.69	260
Bsn	-0.69	96015, 84751
Rara	-0.68	176, 14000, 22880, 25984, 31136, 32160, 36117
Ston2	-0.68	7332
Epdr1	-0.68	-3658
Bricd5	-0.68	-2908
Olfml2a	-0.68	-5900, -12
Wipf3	-0.68	
Nppc	-0.67	77
Fgf11	-0.67	6009, 1209, 185, -999, -2663
Syngap1	-0.67	-8588, 31892
Mphosph9	-0.67	78339
Bag4	-0.67	30745, -231
Trim67	-0.67	1765
Usf1	-0.66	63
E130309D14Rik	-0.66	18891, 29899
Sp4	-0.66	-544
Polr2a	-0.65	-8321
Tmem200b	-0.65	-1483, 405
Ung	-0.65	-2787, 93
Wdr62	-0.65	197
Rab36	-0.64	24415
Pank1	-0.64	959
Hist2h2be	-0.64	-833
Smad6	-0.64	68187, 1611
E2f2	-0.63	150
Lrrc4	-0.63	-625, 7711
Zfp41	-0.62	-445
Cdan1	-0.62	93
Smim1	-0.62	13820
Fam53b	-0.62	-500
Zranb3	-0.61	-1112
E2f1	-0.61	268
Sox18	-0.61	344, -8904
Ubn2	-0.61	155
Jmjd8	-0.6	13, 4205, 7901, 13325
Dmrt1	-0.6	374, 104982
Palb2	-0.6	-222
Exoc3l	-0.6	5922, -1886
E2f7	-0.59	183

Rab11fip4	-0.59	69540, 113044
2310009B15Rik	0.59	15254
1600002K03Rik	0.59	-5104, -1088
Irf1	0.59	162
Kdelr3	0.59	200
Tbc1d23	0.59	64298
Slc39a6	0.59	201
Chchd2	0.59	398
Mars2	0.6	167
Ralb	0.6	302
Hmg20b	0.6	-7303
Lmna	0.6	20772, 308
Tmem160	0.6	405
Tgfb1	0.6	598
Uap1	0.61	-206
Psmc7	0.61	146
14-Sep	0.61	
Atp6v0b	0.61	65
Golt1b	0.61	-283
Med21	0.61	45
Uba5	0.61	177
Slc35f5	0.62	40
Baz1a	0.62	1184, 576
Pdlim7	0.62	25919, 95
Pdia5	0.62	185
Mical1	0.63	13862
Slc39a13	0.63	-307
Bloc1s4	0.63	375
Klf3	0.63	-600, 157
Cd9	0.63	515
2810428I15Rik	0.63	-3469
Nod1	0.64	68
Mfhas1	0.64	1194
Dyrk3	0.65	26
Abca7	0.65	-8751
Gpx4	0.65	474, 4314
Ckap4	0.65	448
Myo1g	0.65	-7682
Rel	0.65	202
Gabarap	0.65	-10074, 4534, 9398
Adamts1	0.65	523
Myl12a	0.65	12197, 325
Lpin3	0.65	-7870, 31458
Rprml	0.66	379
Flot1	0.66	12099, 13667
Tbcc	0.66	-605, 419
Elovl1	0.66	9091

Epha2	0.66	187, 7323
Nudt19	0.66	728
Bet1l	0.66	-321
Pycr1	0.67	14134, 10902, 10006
Ubttd1	0.67	-35
Taok3	0.67	-4481, 143, 121007
Gars	0.67	175
Cope	0.67	143, 13167
Shmt2	0.68	-4436
Dbil5	0.68	-365
Cox6a1	0.68	7963, 395
Sap30	0.68	324
Rtn4	0.69	126
Nt5c	0.69	102
Ero1l	0.69	236
Golim4	0.69	255
Ocel1	0.69	-3938, 158, 9758
Arl4c	0.7	831
Tpgs1	0.7	270, 6110
Nfkbia	0.7	247
Sec23a	0.7	257
Gjc2	0.71	6317, -8339
Btg3	0.71	369
Eif6	0.71	301
Sec61b	0.71	-565
Ostf1	0.72	197
Rcn1	0.72	183
Fam210b	0.72	119
Srm	0.72	263
Mthfd2	0.72	164, -8476
Myo1b	0.73	150
Trim7	0.73	11654
Vamp5	0.73	18372, 68
Esd	0.74	167
Tuba1a	0.74	61
Gorasp2	0.74	267
Rhoc	0.74	118
Srpr	0.74	157
2310039H08Rik	0.75	389
Plk3	0.75	4960
Eif4ebp1	0.75	185
Acbd3	0.76	37
Nfkbiz	0.76	16593
Atp11a	0.76	392
Wnt2b	0.77	280
Jun	0.77	1438
Herpud1	0.77	92

Tfrc	0.78	336
H2afj	0.78	200
Slc1a5	0.78	926
Rras	0.78	-10060
Spty2d1	0.78	222
Slc37a1	0.79	837
Rcn3	0.79	15573
Samd4	0.8	139, 1851
Efnb2	0.8	-699
S100a13	0.81	-5379
Rorc	0.81	-9146
Slc25a33	0.81	347
Tubb2a	0.82	24
Sec22b	0.82	149
Ogfod2	0.82	3934, 8910
Cib1	0.82	40
Phospho1	0.83	-212, 6732
Tspo	0.83	278
Rabac1	0.83	504
Vmo1	0.84	-5640
Plk2	0.84	-4
Itga6	0.84	213
Odc1	0.85	439
Cxadr	0.85	69
Syt7	0.85	67838
Fxyd5	0.85	-10542
Arfgap3	0.87	295
Hmga1	0.87	-1326, 205, 9282
Ppp1r35	0.87	666, 6330
Furin	0.87	3447, 2327
Daam1	0.88	154
Prr13	0.89	11774
Runx2	0.89	78797, 37773
Coq10b	0.9	147
Lrrc59	0.91	128
Dusp3	0.91	439
Timm10b	0.91	10628
Aif1	0.93	14929, 11201
Galnt16	0.94	-302, 258
Prr18	0.94	970
Fstl3	0.95	-10586
Fkbp1a	0.95	173
Atf5	0.95	114
Ptpn7	0.96	14635
Sdc4	0.96	-12
Adamts15	0.97	18174, 6638, -530
Tagln2	0.98	10

Chrnbl	0.98	321, -4479, -5503, -6687, -8351
Cd68	0.99	-5842
Arpc1b	1.01	624
Trim66	1.01	69222
Fjx1	1.02	880
Csf1	1.02	341
Panx1	1.02	70
Gas2l1	1.03	7151, 3855, 495
Lyve1	1.03	18665
Ly6g5b	1.05	-6392
Gdf15	1.05	211
Foxp2	1.06	379
Fam132b	1.07	-30
Ust	1.07	105
Gltpd2	1.07	1047
Tex40	1.07	-8444
Slc1a4	1.08	409
Sqstm1	1.08	102
Kcnk13	1.08	1389
Lonp1	1.08	13383, 231
Psmc8	1.09	9409
Esyt3	1.11	258
Apoc2	1.13	12032
Stac2	1.16	26326, 822
Tbr1	1.16	1211
Cebpb	1.16	845
Rdh10	1.17	-282
Klhdc8a	1.17	371, 17683
Npw	1.17	8361
Scand1	1.17	368
Il6ra	1.18	282
Dok3	1.19	15194
Steap1	1.22	69
Chpf2	1.23	-9406, 82, 15874
Cdr2	1.23	168
Jdp2	1.24	575
Tesc	1.24	1168
Cdr2l	1.27	436, 22020
Slc35c1	1.27	902
Atp1b1	1.28	515
Slc11a1	1.29	9501, 17277
Tnip1	1.32	7036
Rrad	1.32	457
Nfkbie	1.34	-10836, 8508, 17148
Creb3	1.37	-362
Fam43b	1.37	730
Isg15	1.39	3618

Slc16a5	1.4	13287
Baiap2l1	1.41	102528
Ctgf	1.42	1006
Fdx1l	1.42	74
Pmm1	1.45	355
Ptprcap	1.51	-5910
Slc22a4	1.53	48026
Gale	1.53	-1341, 7219
Ptprn	1.55	27408
Kcnk6	1.55	170
2900026A02Rik	1.56	
Prkca	1.57	496
Btg2	1.59	243
Myc	1.6	403, 2659
Relb	1.62	9854, 270
Sowahb	1.63	574
Rhbdf2	1.64	-2933
Zfp365	1.67	342
Nes	1.68	731
6030419C18Rik	1.69	197
Pdgfb	1.7	1912
Sntb1	1.71	357
Gadd45b	1.72	-1355, 341, 1845
Gadd45a	1.73	127
AA467197	1.78	-7007
Nlrp10	1.78	-4418
Gm13889	1.81	-52
Maff	1.84	18, 9954
Sh3bgr	1.89	-8374
Mvp	1.93	37954, -2142, -8590, -10830
Gch1	1.95	218
Ltbp1	1.96	327
Fosl1	2	9518, 12942
Ntn4	2.08	39
Bbc3	2.09	529, 2705, 4241
Mocos	2.2	56117
Nfe2l3	2.2	690
Dusp8	2.27	948
Pde6g	2.28	16203, -4661
Cited4	2.29	349
Tes	2.31	115
Lrrc14b	2.32	13824
Sema3d	2.41	338
Spsb4	2.45	-365
Mmp24	2.46	51280
Dusp4	2.47	454
Cdkn1a	2.49	3606

Srxn1	2.64	316
Cyr61	2.66	529
Klhl30	2.82	-5761, 15327
Wnt11	2.84	-3565
Trib3	3.08	11884
Arid5a	3.24	75
Lrp8	3.3	1325
Rasl10a	3.65	48, 3344, 6704

eq (P-value < 0.05 , $|\text{Log}_2\text{FC}| \geq 0.59$) and ChIP-Seq analyses using the *Arid4b* SCKO testes at P1.5

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Supporting Information Table S5. Primary antibodies for immunofluorescent staining

Antibodies	Clone	Cat #	Company	Dilution
Anti-ARID4B		A302-233A	Bethyl	1,000x
Anti-AMH	Anti-MIS (C-20)	sc-6886	Santa Cruz	200x
Anti-WT1	C-19	sc-192	Santa Cruz	400x
Anti-TRA98		ab82527	Abcam	200x
Anti-PLZF	H-300	sc-22839	Santa Cruz	200x
Anti-Casp3	Cleaved Caspase-3 (Asp175)	9661	Cell Signaling	300x
Anti-pH3	Anti-phospho histone H3 (Ser10)	06-570	Millipore	200x
Anti-GJA1	Anti-Connexin 43	ab11370	Abcam	1,000x
Anti-GDNF	D-20	sc-328	Santa Cruz	200x
Anti-INHA		MA5-15703	Thermo Scientific	200x
Anti-CYP26B1		ab113236	Abcam	100x
Anti-KITL	SCF (G-3)	sc-13126	Santa Cruz	200x
Anti-ACTA2	1A4	A5228	Sigma-Aldrich	200x

Supporting Information Table S6. TaqMan primer/probe sets for qRT-PCR

<i>Arid4a</i>	Mm01282759_m1
<i>Notch1</i>	Mm00435249_m1
<i>Amh</i>	Mm00431795_g1
<i>Gjal</i>	Mm00439105_m1
<i>Gdnf</i>	Mm00599849_m1
<i>Inhbb</i>	Mm03023992_m1
<i>Inha</i>	Mm00439683_m1
<i>Cyp26b1</i>	Mm00558507_m1
<i>Kitl</i>	Mm00442972_m1
<i>Gapdh</i>	Mm99999915_g1

Supporting Information Table S7. Primer sequences for ChIP-qPCR**Primers for ChIP-qPCR***Gdnf*

Gdnf-PF1	5'-GGTGTTCAGCTAACCAACAGGAG-3'
Gdnf-PR1	5'-GGCATAAACCTGCCTTTGTTCAAG-3'
Gdnf-PF2	5'-CTTGAACAAAGGCAGGTTTATGCC-3'
Gdnf-PR2	5'-CAGACCTAGGCTTCATTTCCATG-3'
Gdnf-PF3	5'-CATGGAAATGAAGCCTAGGTCTG-3'
Gdnf-PR3	5'-CATTTATAGAGCTCTCACTGCGTG-3'
Gdnf-PF4	5'-CAGATATTTGGAGACCGTGTTGG-3'
Gdnf-PR4	5'-CAAGCAGCCTGCACCGAGAAG-3'

Snrpn

Snrpn-ex1-F	5'-GAGTGATTTGCAACGCAATGGAGCG-3'
Snrpn-ex1-R	5'-CTAACACACCCAAGGAGTCCGTCTG-3'
Snrpn-ex7-F	5'-ACTGGCATTGCTCGTGTGCCTC-3'
Snrpn-ex7-R	5'-GCCTCCAACCTGCTCGGACAGG-3'