

Supplementary Information for

A temperature-regulated circuit for feeding behavior

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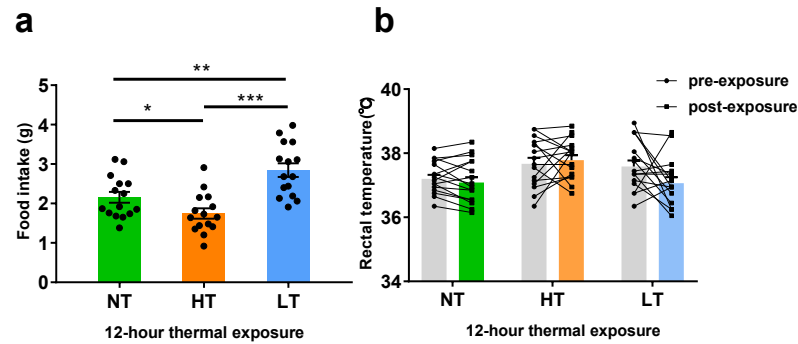
Supplementary Figure 11. Monosynaptic retrograde RV co-expressed locations for the two subsets of PVH and ARC-projecting apMPOA neurons.

Supplementary Figure 12. Controls for RV experiments.

Supplementary Figure 13. Characterization of *Aplnr*, *GalR1*, PVH and ARC-projecting apMPOA neurons that got C-Fos activated by fasting.

Supplementary Table 1. Gene expression values (in FPKM) of ARC and PVH-projecting apMPOA neurons from RNA-seq analysis.

Supplementary Table 2. Differentially expressed genes and their test statistical P values of ARC and PVH-projecting apMPOA neurons from RNA-seq analysis.

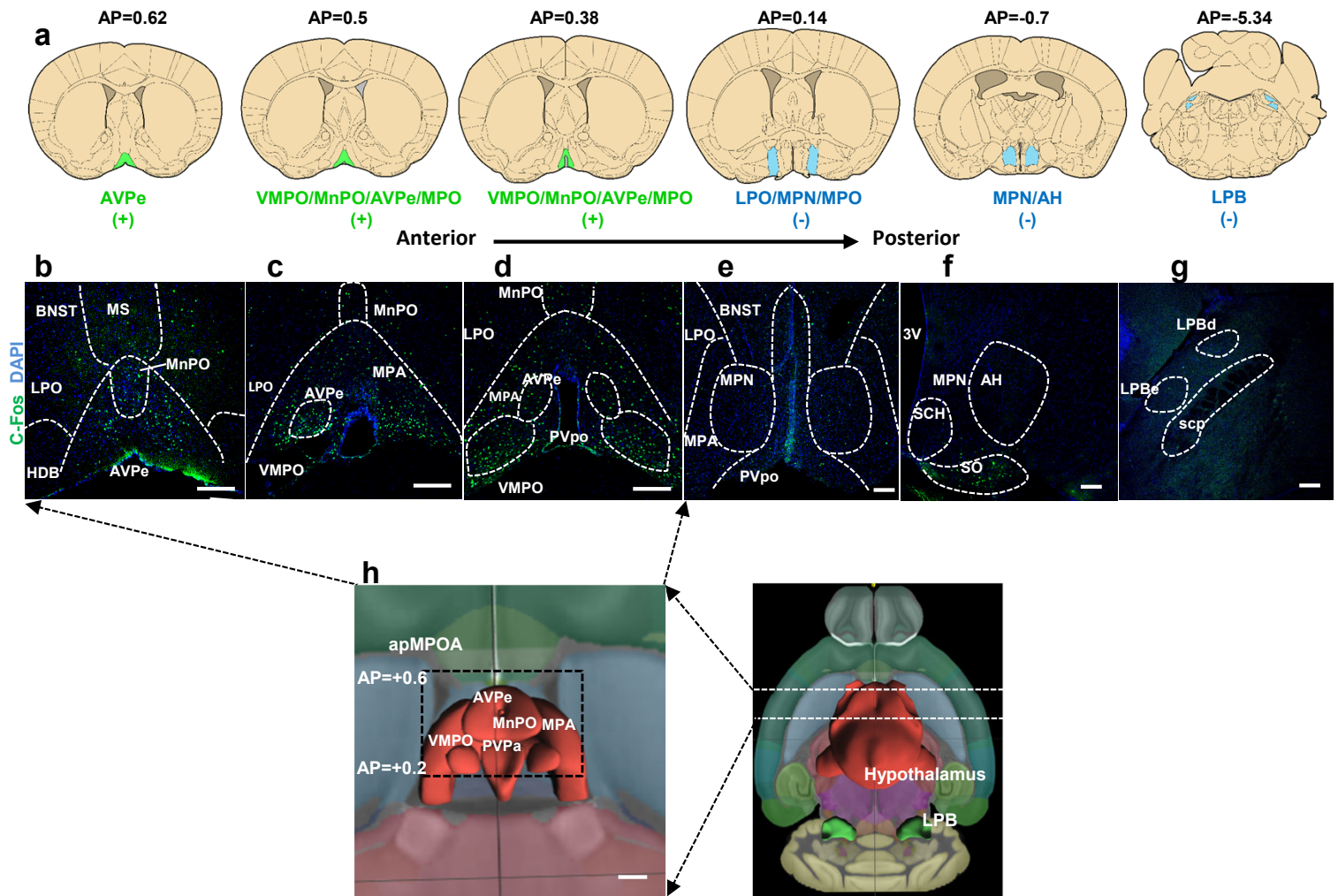


Supplementary Figure 1. Food intake and rectal temperature during ambient temperature exposure

a, Food intake after overnight fasting during three different 12-hour ambient temperature conditions. One-way ANOVA and post hoc least significant difference (LSD) multiple comparison, * $p = 0.035$, ** $p = 0.002$, *** $p < 0.001$, $n = 15$ animals for each group.

b, Rectal temperature changes after three different 12-hour ambient temperature exposure. Data were statistically analyzed using two-way repeated-measure ANOVA and post hoc LSD multiple comparison, no significance, $n = 15$ animals for each temperature group. Interaction effect: $F_{2,45}(\text{temperature} \times \text{time}) = 2.38$, $p = 0.104$; main effect: $F_{2,45}(\text{temperature}) = 4.79$, * $p = 0.013$; $F_{1,45}(\text{time}) = 1.99$, $p = 0.166$.

All error bars show SEM.



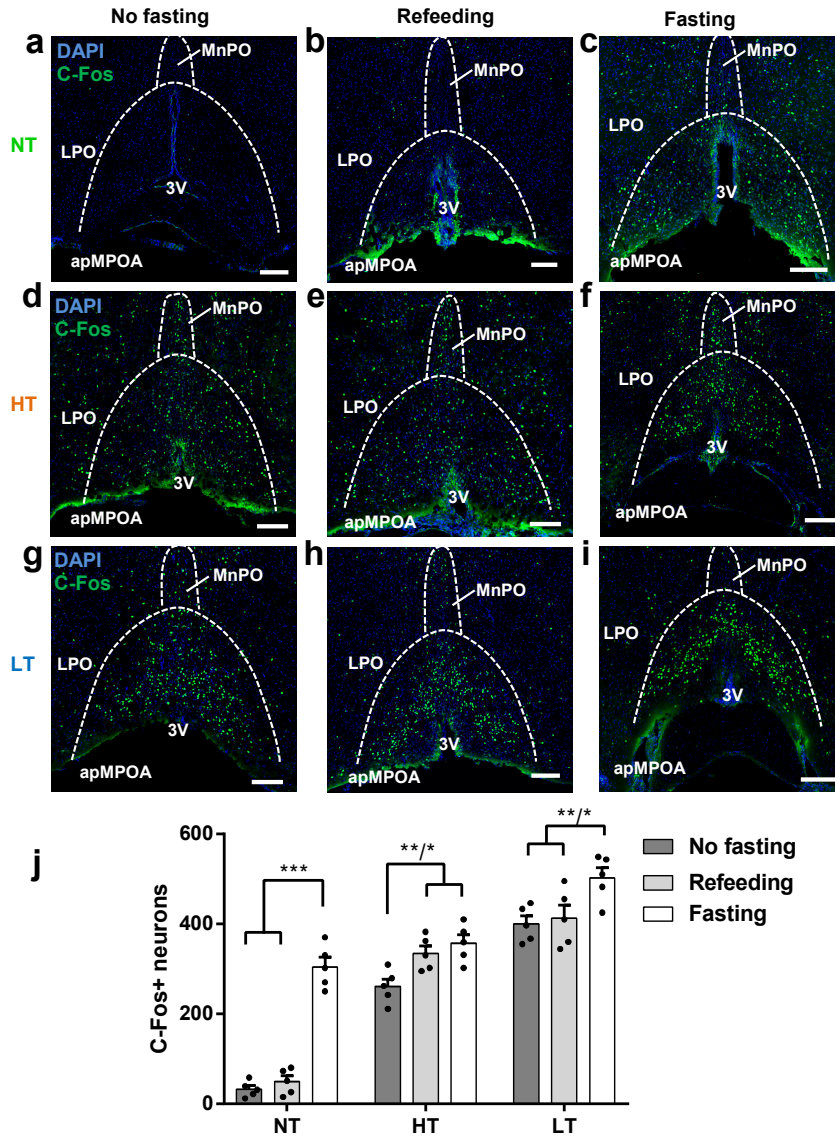
Supplementary Figure 2. C-Fos expressions in multiple preoptic and hypothalamic nuclei in a hunger state

a, Schematic images corresponding to the coronal slices below show C-Fos staining in the hypothalamic nuclei and LPB in a hunger state. The green labeled areas represent C-Fos expression in a hunger state, whereas blue labeled areas do not.

b-d, Multiple hypothalamic nuclei showed C-Fos staining including AVPe, VMPO, anterior MPOA, ventral MnPO, and PVpo. These nuclei are defined as anteroventral and periventricular portions of medial preoptic area (apMPOA) in current study. AVPe, anteroventral periventricular nucleus; VMPO, ventromedial preoptic nucleus; MPOA, medial preoptic area; MnPO, median preoptic nucleus; PVpo, preoptic part of periventricular hypothalamic nucleus; 3V, the 3rd ventricle. The abbreviations can be looked up in Allen Brain Institute Reference Atlas. Image representative of $n = 4$ mice. Scale bar, 100 μm .

e-g, Other hypothalamic nuclei did not express C-Fos staining including LPO, posterior MPOA, MPN, posterior PVpo, AH, and LPB. LPO, lateral preoptic area; MPN, medial preoptic nucleus; AH, anterior hypothalamic nucleus; LPBe, external part of lateral parabrachial nucleus; LPBd, dorsal part of lateral parabrachial nucleus. Image representative of $n = 4$ mice. Scale bar, 100 μm .

h, The apMPOA consists of the AVPe, VMPO, anterior MPOA, ventral MnPO, and PVpo in a 3D viewer ranging from approximately $AP = +0.6$ mm to $AP = +0.2$ mm. Scale bar, 100 μm .



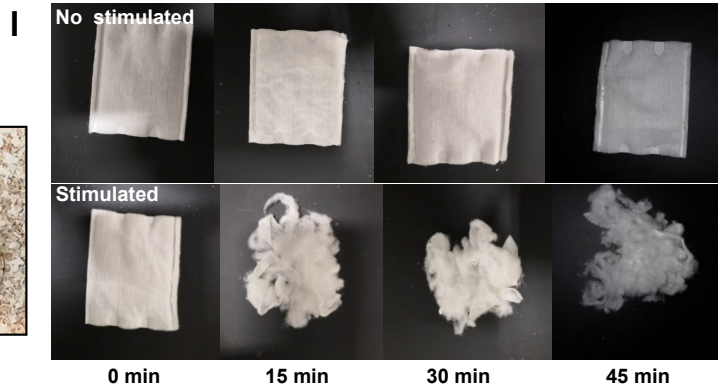
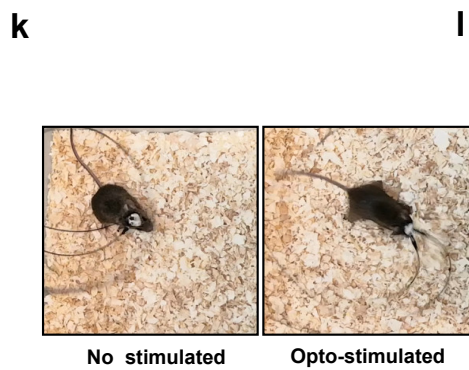
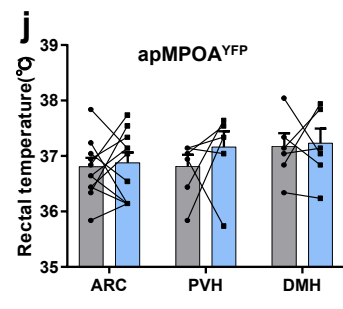
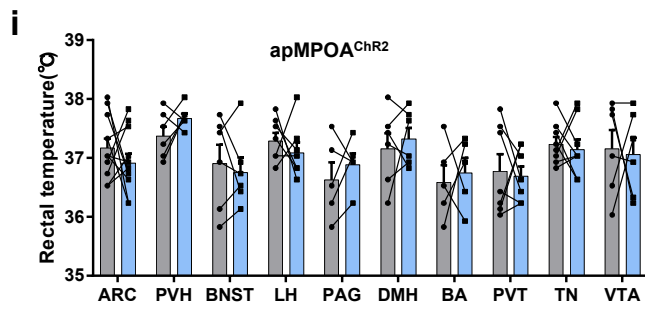
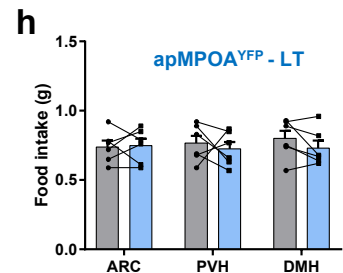
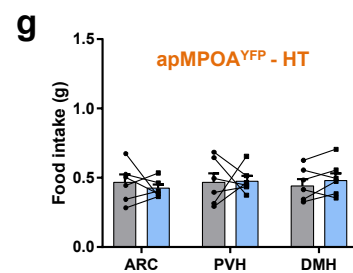
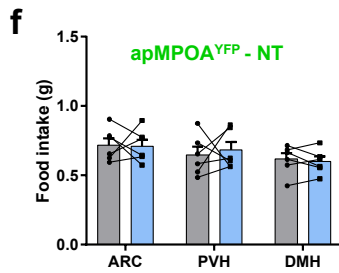
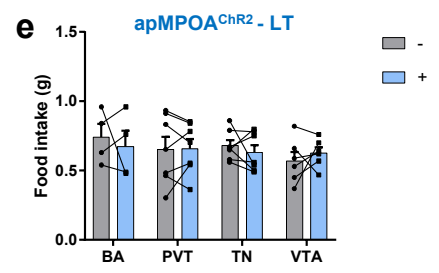
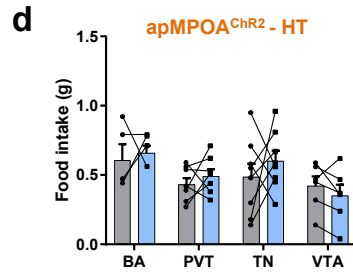
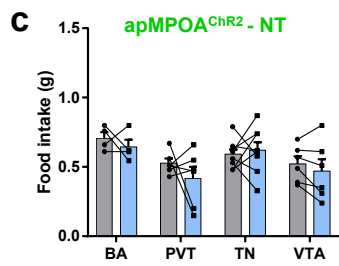
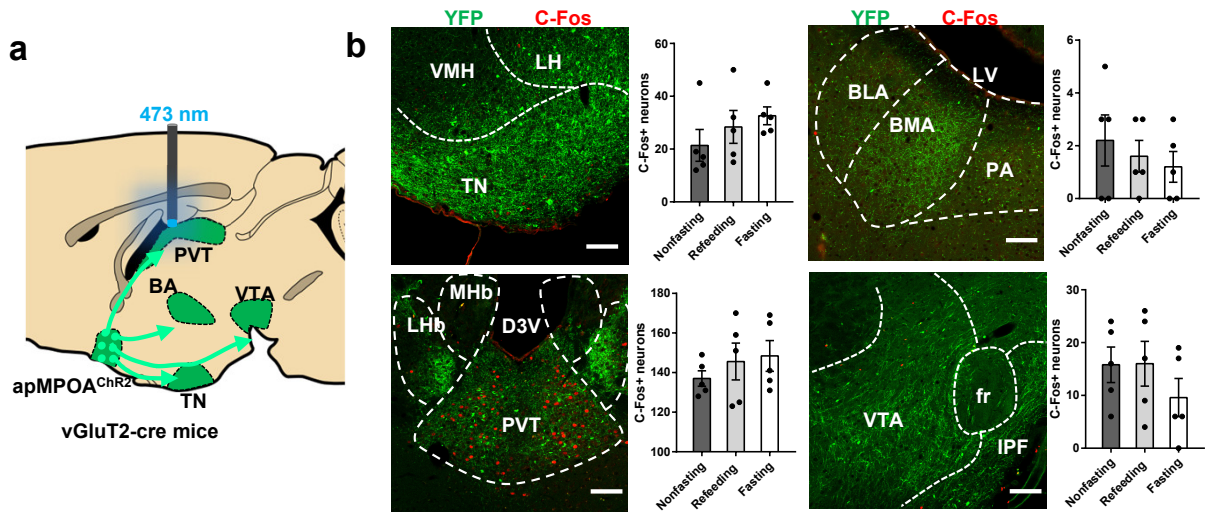
Supplementary Figure 3. C-Fos expressions in the apMPOA of mice with different dietary states during ambient temperatures

a-c, C-Fos expressions in the apMPOA of no fasting (**a**), refeeding (**b**) and fasting (**c**) groups during neutral temperature. No significant C-Fos expressions during neutral temperature for no fasted mice (**a**). Substantial C-Fos expressions in apMPOA were induced by fasting (**c**) but significantly reduced (**b**) after refeeding. Scale bar, 100 μ m.

d-f, Substantial C-Fos expressions in the apMPOA during high temperature were found in no fasted (**d**), refeed (**e**) and fasted (**f**) mice. Scale bar, 100 μ m.

g-i, Substantial C-Fos expressions in the apMPOA during low temperature were found in no fasted (**g**), refeed (**h**) and fasted (**i**) mice. Scale bar, 100 μ m.

j, Quantitative statistically analysis of C-Fos expressions using two-way ANOVA showed interaction effect of temperature and dietary state: $F(4,24) = 5.25$, $**p = 0.003$; main effect of temperature: $F(2,11) = 219.6$, $***p < 0.001$; main effect of dietary state: $F(2,12) = 67.8$, $***p < 0.001$. Pairwise comparisons showed that more C-Fos expressions in the fasted mice than no fasted and refeed mice during all the thermal exposures, especially during the neutral thermal exposure. All error bars show SEM.



Supplementary Figure 4. Anterograde tracking of glutamatergic neurons in the apMPOA and the effect of optogenetic terminal activation on food intake and rectal temperature

a, Schematic sagittal image of terminal activation on individual target (PVT shown here), which allows for selective activation on the downstream target of apMPOA.

b, Representative images of target regions innervated by glutamatergic apMPOA neurons (green, ChR2), including the TN, PVT, VTA, and BA, in which no specific fasting-induced C-Fos expression can be observed compared to the re-feeding and no fasting conditions (red, C-Fos). Scale bar, 100 μm .

c-e, Food intake with 2-hour opto-stimulation (+, blue boxes) and without opto-stimulation (-, gray boxes) on the target regions (BA, PVT, TN and VTA) during ambient temperatures. Two-way repeated-measure ANOVA and post hoc LSD multiple comparison, no significance.

f-h, Two-hour food intake with (+, blue boxes) and without (-, gray boxes) opto-stimulation on the PVH, ARC and DMH that expressed controlled YFP during ambient temperatures. Two-way repeated-measure ANOVA and post hoc LSD multiple comparison, no significance.

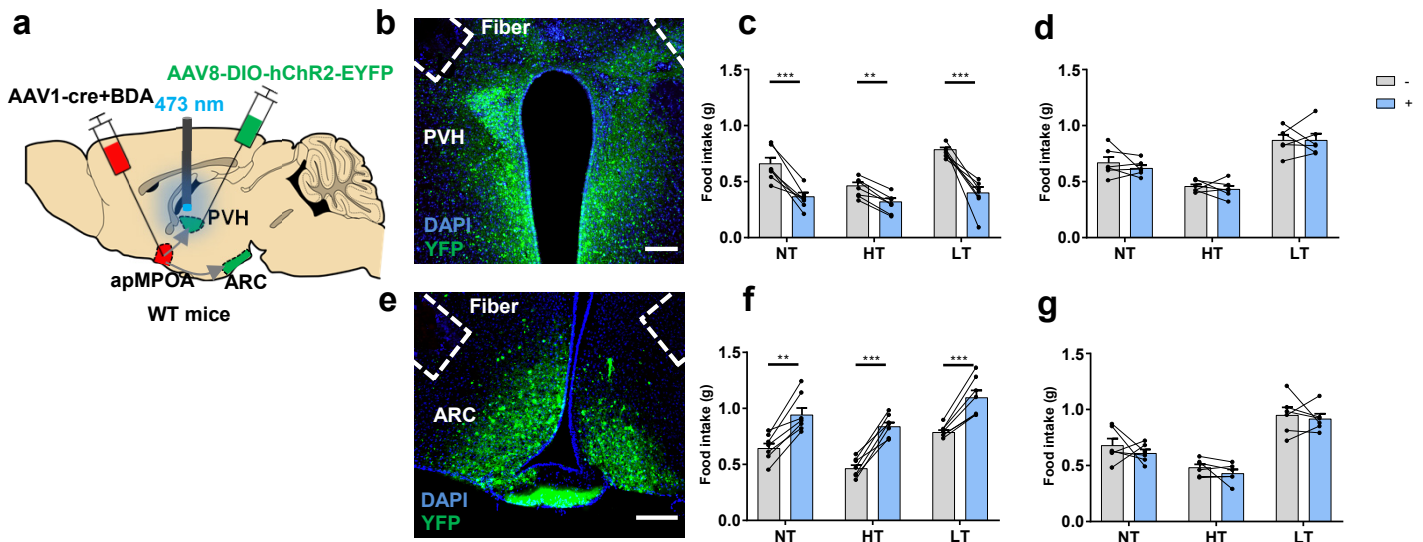
i, Rectal temperature with opto-stimulation (+, blue boxes) and without opto-stimulation (-, gray boxes) on the downstream terminal fibers of glutamatergic apMPOA neurons expressing ChR2. Paired t tests (two-sided), no significance.

j, Rectal temperature with opto-stimulation (+, blue boxes) and without (-, gray boxes) opto-stimulation on the PVH, ARC and DMH that expressed controlled YFP. Paired t tests (two-sided), no significance.

k, Terminal activation on the DMH induced nest building behavior. Representative photographs of a mouse that is scratching the sawdust in response to opto-stimulation.

l, Representative chewed cotton sheets in response to 45-min opto-stimulation and fresh cotton sheets in no-stimulation condition.

All error bars show SEM.



Supplementary Figure 5. Feeding behavior under optogenetic activation on the apMPOA-recipient PVH and ARC neurons

a, Optogenetic activation on apMPOA-recipient PVH and ARC neurons by injecting high titer AAV1-cre into apMPOA and AAV8-DIO-hChR2 into PVH or ARC. BDA was mixed into the virus to indicate injection range.

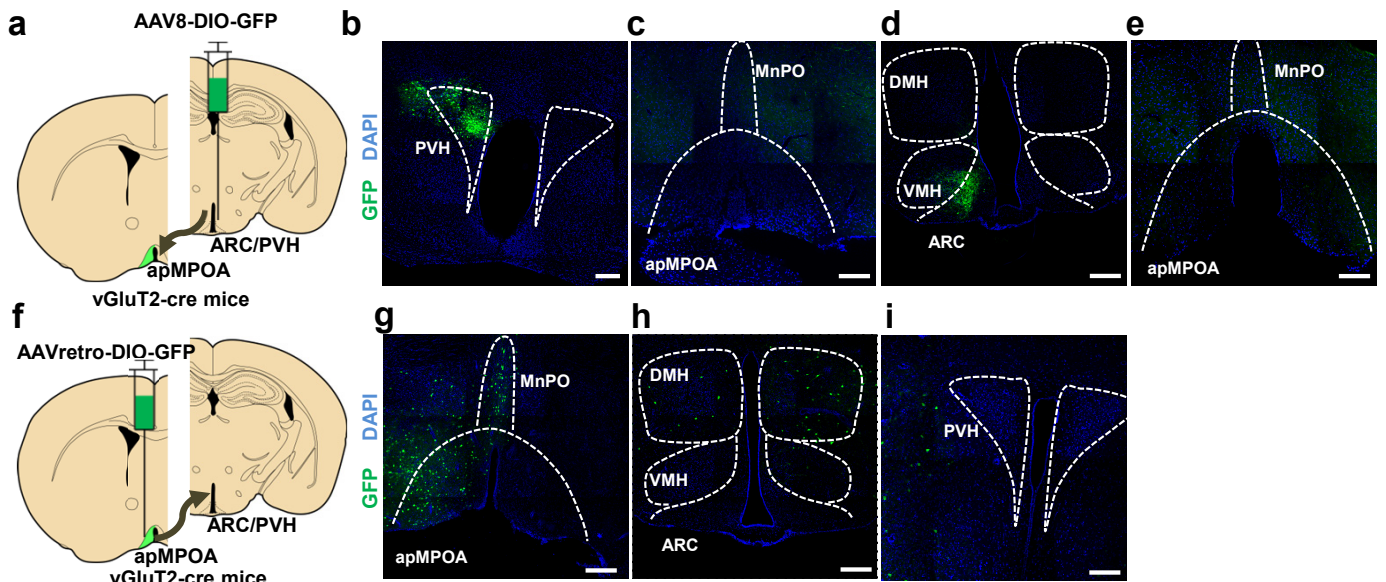
b, e, Optical fiber implantation, apMPOA-recipient PVH and ARC neurons expressing hChR2-EYFP. Image representative of $n = 7$ mice. Scale bar, $100 \mu\text{m}$.

c, Optogenetic activation on apMPOA-recipient PVH neurons significantly inhibited food intake in all thermal conditions. Interaction effect: $F_{2,11}(\text{temperature} \times \text{treatment}) = 7.88$, $**p = 0.008$; main effect: $F_{2,11}(\text{temperature}) = 20.8$, $***p < 0.001$; $F_{1,12}(\text{treatment}) = 40.1$, $***p < 0.001$. Pairwise comparisons showed that optogenetic activating apMPOA-recipient PVH neurons inhibited food intake in all thermal conditions (NT: $***p = 0.001$, HT: $**p = 0.009$, LT: $***p < 0.001$). Within-group tests showed significant simple effect of temperature in control group ($F(2,11) = 27.14$, $***p < 0.001$), but not in the optogenetic activating group ($F(2,11) = 1.54$, $p = 0.26$). Two-way repeated-measure ANOVA and post hoc LSD multiple comparison, $n = 7$.

f, Optogenetic activation on apMPOA-recipient ARC neurons significantly promoted food intake in all thermal conditions. Interaction effect: $F_{2,11}(\text{temperature} \times \text{treatment}) = 0.52$, $p = 0.61$; main effect: $F_{2,11}(\text{temperature}) = 35.14$, $***p < 0.001$; $F_{1,12}(\text{treatment}) = 36.9$, $***p < 0.001$. Pairwise comparisons showed that optogenetic activating apMPOA-recipient ARC neurons increased food intake in all thermal conditions (NT: $**p = 0.003$, HT: $***p < 0.001$, LT: $***p = 0.001$). Within-group tests showed significant simple effect of temperature in both of control group ($F(2,11) = 20.73$, $***p < 0.001$) and optogenetic activating group ($F(2,11) = 14.93$, $***p < 0.001$). Two-way repeated-measure ANOVA and post hoc LSD multiple comparison, $n = 7$.

d, g, The controlled groups that expressed YFP in apMPOA-recipient PVH and ARC neurons did not show food intake changes under optogenetic activation. PVH (**d**): interaction effect: $F_{2,9}(\text{temperature} \times \text{treatment}) = 0.22$, $p = 0.81$; main effect: $F_{2,9}(\text{temperature}) = 46.83$, $***p < 0.001$; $F_{1,10}(\text{treatment}) = 0.34$, $p = 0.57$. ARC (**g**): interaction effect: $F_{2,9}(\text{temperature} \times \text{treatment}) = 0.19$, $p = 0.83$; main effect: $F_{2,9}(\text{temperature}) = 82.89$, $***p < 0.001$; $F_{1,10}(\text{treatment}) = 0.82$, $p = 0.39$. Two-way repeated-measure ANOVA and post hoc LSD multiple comparison, $n = 6$.

All error bars show SEM.



Supplementary Figure 6. Retrograde and anterograde tracing of apMPOA→ARC/PVH pathways for the strategy using high titer AAV1

a, Schematic image of injecting anterograde AAV-syn-GFP into the PVH or ARC to investigate whether there are terminals in the apMPOA innervated by PVH or ARC.

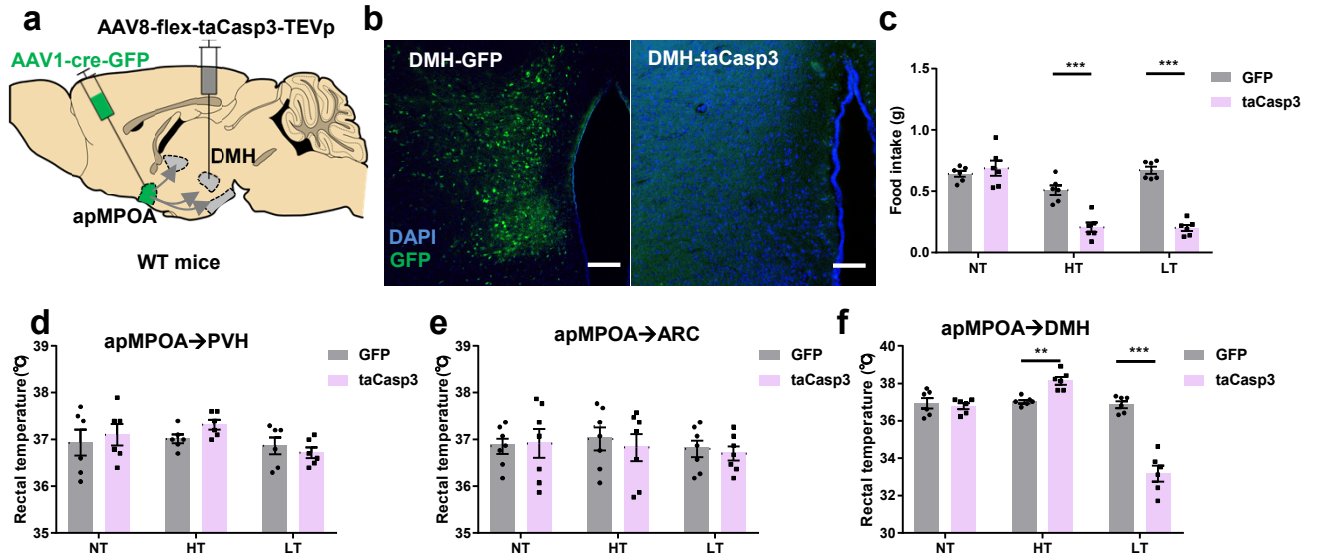
b, d, Schematic coronal images showing neurons expressing GFP in the injection site PVH and ARC. Image representative of $n = 4$ mice. Scale bar, $100 \mu\text{m}$.

c, e, Schematic coronal images showing no projections from PVH or ARC to apMPOA. Image representative of $n = 4$ mice. Scale bar, $100 \mu\text{m}$.

f, Schematic image of injecting retrograde AAVretro-DIO-GFP in the apMPOA of vGluT2-cre mice to investigate whether there are retrogradely labeled neurons in PVH or ARC.

g, Schematic coronal images showing neurons expressing GFP in the injection site apMPOA. Image representative of $n = 4$ mice. Scale bar, $100 \mu\text{m}$.

h, i, Schematic coronal images showing there were no retrograde labeled neurons in the PVH or ARC from the apMPOA. Image representative of $n = 4$ mice. Scale bar, $100 \mu\text{m}$.



Supplementary Figure 7. Effects of the genetic ablation of postsynaptic neurons of the apMPOA→ARC/PVH/DMH pathways on food intake and rectal temperature

a, Schematic image showing genetic ablation of apMPOA-recipient neurons in ARC/PVH/DMH individually (PVH shown here).

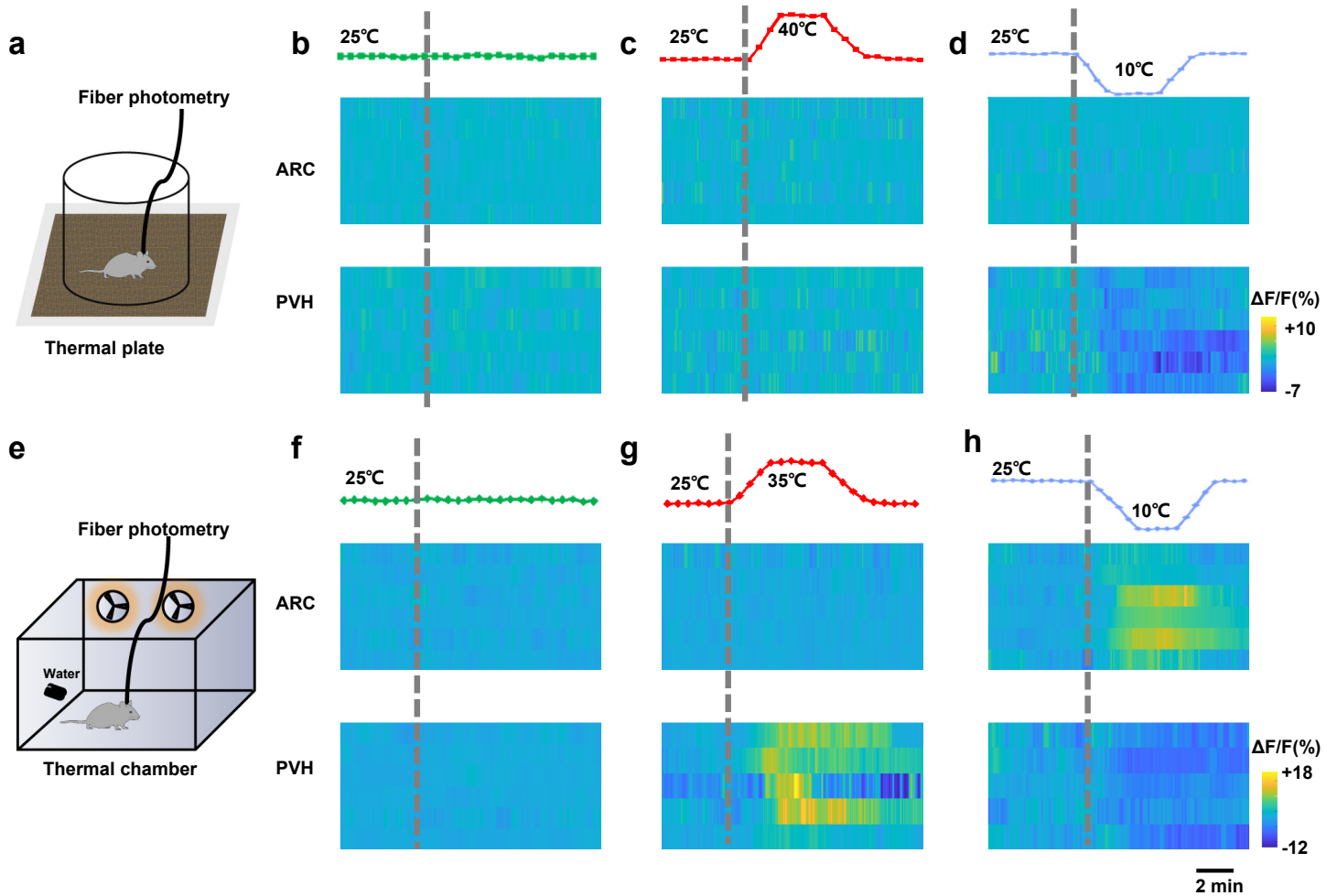
b, Representative images showing preserved transsynaptic neurons in DMH in GFP-injected mice, but ablated transsynaptic neurons in the DMH in taCasp3-injected mice. Image representative of $n = 6$ mice. Scale bar, 100 μm .

c, The ablation of transsynaptic neurons in DMH did not induce food intake changes under normothermic conditions, but significantly decreased food intake under high and low temperatures. Two-way repeated-measure ANOVA and post hoc LSD multiple comparison. Interaction effect of temperature and treatment group: $*F(2,9) = 36.29$, $***p < 0.001$; ANOVA main effect of temperature: $F(2,9) = 33.06$, $***p < 0.001$; ANOVA main effect of treatment group: $F(1,10) = 50.33$, $***p < 0.001$. $n = 6$ mice for each group.

d-e, The genetic ablation of postsynaptic neurons of apMPOA→PVH and ARC pathways had no influence on rectal temperature changes under ambient temperature exposures. Two-way repeated-measure ANOVA and post hoc LSD multiple comparison. **d**, apMPOA→PVH: interaction effect of temperature and treatment group: $*F(2,9) = 1.76$, $p = 0.227$; main effect of temperature: $F(2,9) = 4.08$, $p = 0.055$; main effect of treatment group: $F(1,10) = 1.15$, $p = 0.309$, $n = 6$ mice. **e**, apMPOA→ARC: interaction effect of temperature and treatment group: $*F(2,11) = 0.154$, $p = 0.859$; ANOVA main effect of temperature: $F(2,11) = 0.368$, $p = 0.7$; ANOVA main effect of treatment group: $F(1,12) = 0.126$, $p = 0.729$, $n = 7$ mice.

f, The genetic ablation of postsynaptic neurons of the apMPOA→DMH pathway resulted in abnormal thermoregulation under ambient temperatures with an increased rectal temperature during high temperature but a decreased rectal temperature during low temperature. Two-way repeated-measure ANOVA and post hoc LSD multiple comparison. Interaction effect of temperature and treatment group: $*F(2,9) = 37.28$, $***p < 0.001$; ANOVA main effect of temperature: $F(2,9) = 42.43$, $***p < 0.001$; ANOVA main effect of treatment group: $F(1,10) = 25.9$, $***p < 0.001$.

All error bars show SEM.



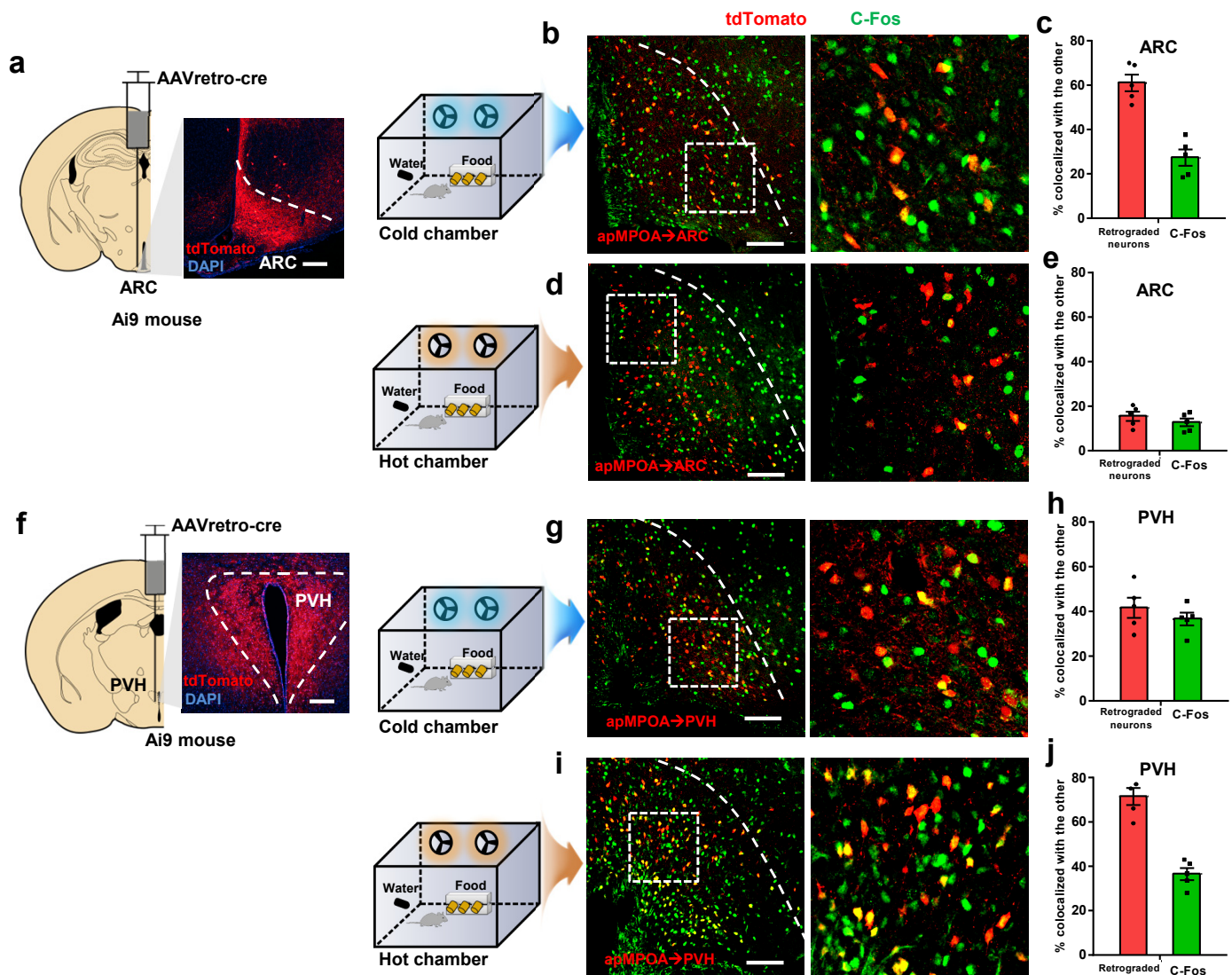
Supplementary Figure 8. Heat maps of GCaMP6s signal changes ($\Delta F/F$) of PVH and ARC-projecting apMPOA neurons in response to ambient thermal exposure and local stimuli

a, Schematic of local thermal exposure on a temperature-controlled plate.

b-d, GcaMP6s signal changes ($\Delta F/F$) of ARC (top) and PVH-projecting (bottom) apMPOA neurons in response to local thermal stimuli: neutral (25 °C, **b**), hot (25 °C \rightarrow 40 °C, **c**), cold (25 °C \rightarrow 10 °C, **d**).

e, Schematic of ambient exposure in a temperature-controlled chamber.

f-h, GcaMP6s signal changes ($\Delta F/F$) of ARC (top) and PVH-projecting (bottom) apMPOA neurons in response to ambient exposure: neutral (25 °C, **f**), hot (25 °C \rightarrow 35 °C, **g**), cold (25 °C \rightarrow 10 °C, **h**).



Supplementary Figure 9. Anatomical identifications of the apMPOA to ARC/PVH pathways via retrograde labeling.

a, Schematic and representative coronal images of the injection of AAVretro-cre virus into ARC in Ai9 mice.

b-c, Colocalizations of ambient cooling-induced C-Fos (green) with retrograde-labeled neurons (red) by injecting AAVretro-cre into the ARC of Ai9 mice. The ARC-projecting apMPOA neurons were obviously overlapped with cooling-induced C-Fos (61.2 \pm 3.7% ARC-projecting apMPOA neurons expressed C-Fos). Scale bar, 100 μ m.

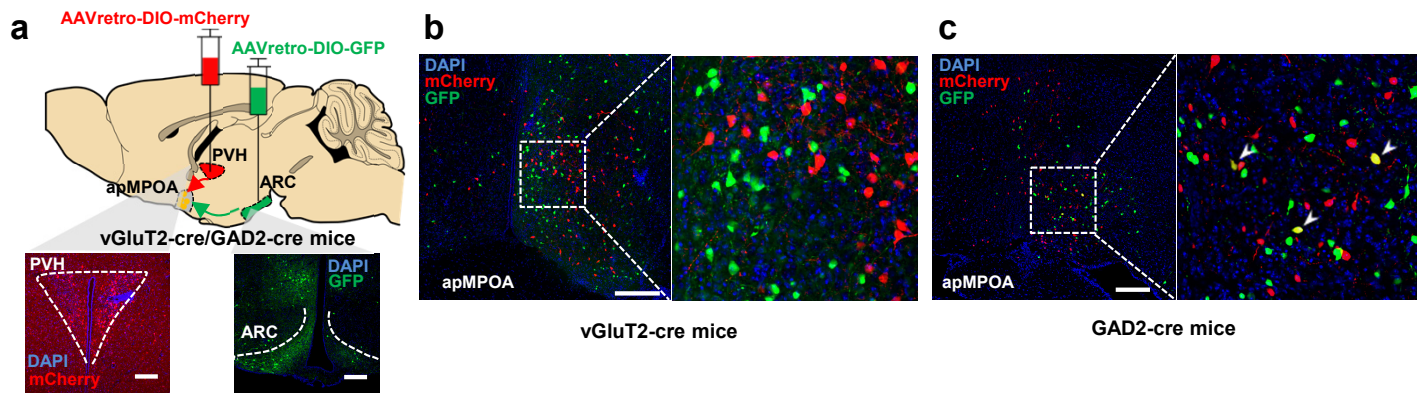
d-e, Colocalizations of ambient hot-induced C-Fos (green) with retrograde-labeled neurons (red) by injecting AAVretro-cre into the ARC of Ai9 mice. The ARC-projecting apMPOA neurons were sparsely overlapped with hot-induced C-Fos (15.7 \pm 2.1% ARC-projecting apMPOA neurons expressed C-Fos) Scale bar, 100 μ m.

f, Schematic and representative coronal images of the injection of AAVretro-cre virus into the PVH in Ai9 mice.

g-h, Colocalizations of ambient cooling-induced C-Fos (green) with retrograde-labeled neurons (red) by injecting AAVretro-cre into the PVH of Ai9 mice. The PVH-projecting apMPOA neurons were colocalized with the C-Fos induced by low temperature (41.9 \pm 4.5% PVH-projecting apMPOA neurons expressed C-Fos). Scale bar, 100 μ m.

i-j, Colocalizations of ambient hot-induced C-Fos (green) with retrograde-labeled neurons (red) by injecting AAVretro-cre into the PVH of Ai9 mice. The PVH-projecting apMPOA neurons were obviously colocalized with the C-Fos induced by high temperature (71.7 \pm 3.8% PVH-projecting apMPOA neurons expressed C-Fos). Scale bar, 100 μ m.

All error bars show SEM.

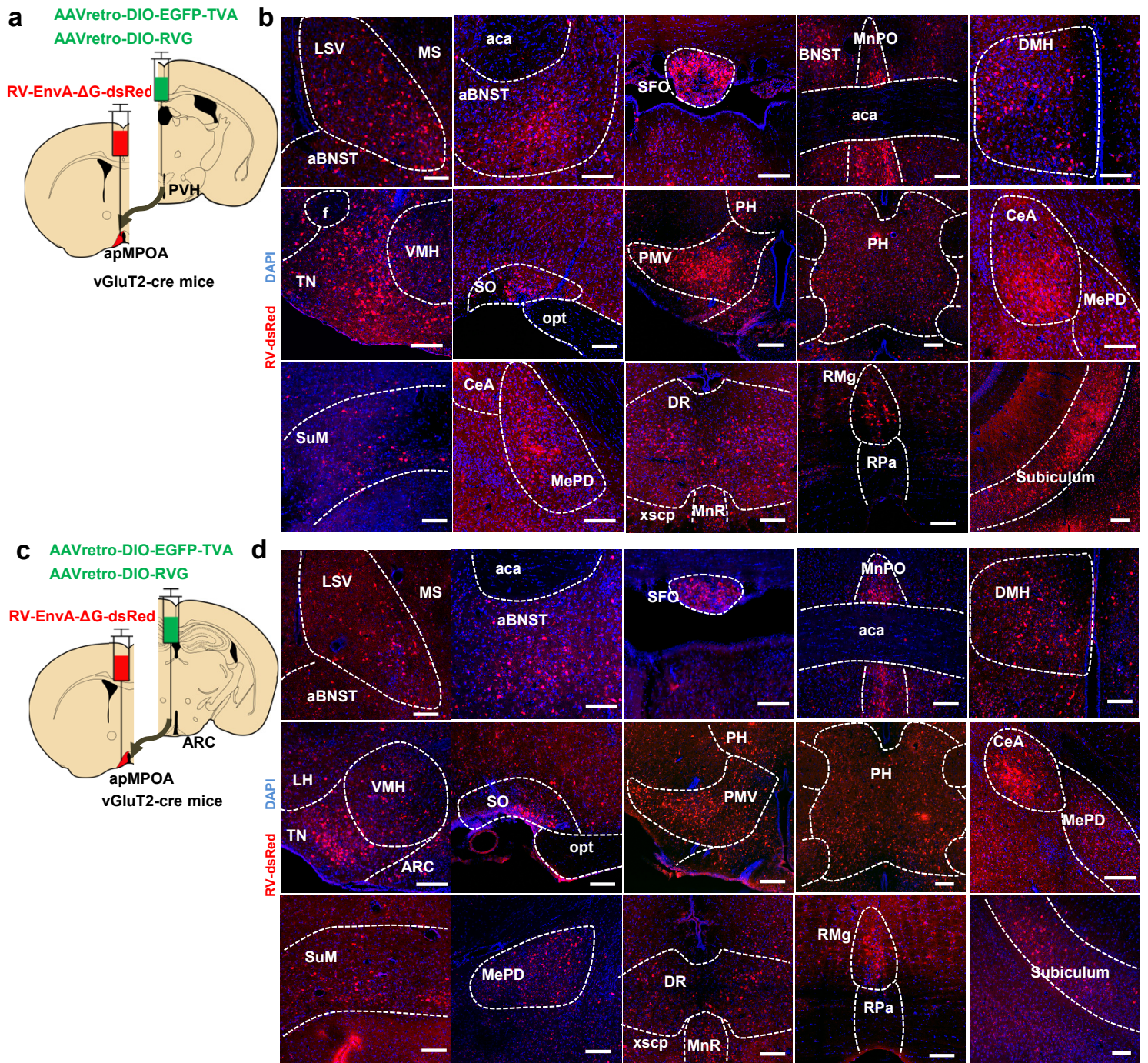


Supplementary Figure 10. Retrograde labeling for PVH and ARC-projecting apMPOA neurons in vGluT2-cre and GAD2-cre mice

a, Schematic and representative coronal images of the injection of AAVretro-DIO-mCherry and AAVretro-DIO-GFP into PVH and ARC of vGluT2-cre and GAD2-cre mice. Scale bar, 100 μ m.

b, Retrograde-labeled PVH (red) and ARC (green) projecting neurons in the apMPOA showed no colocalizations in the vGluT2-cre mice. $n = 4$, Scale bar, 100 μ m.

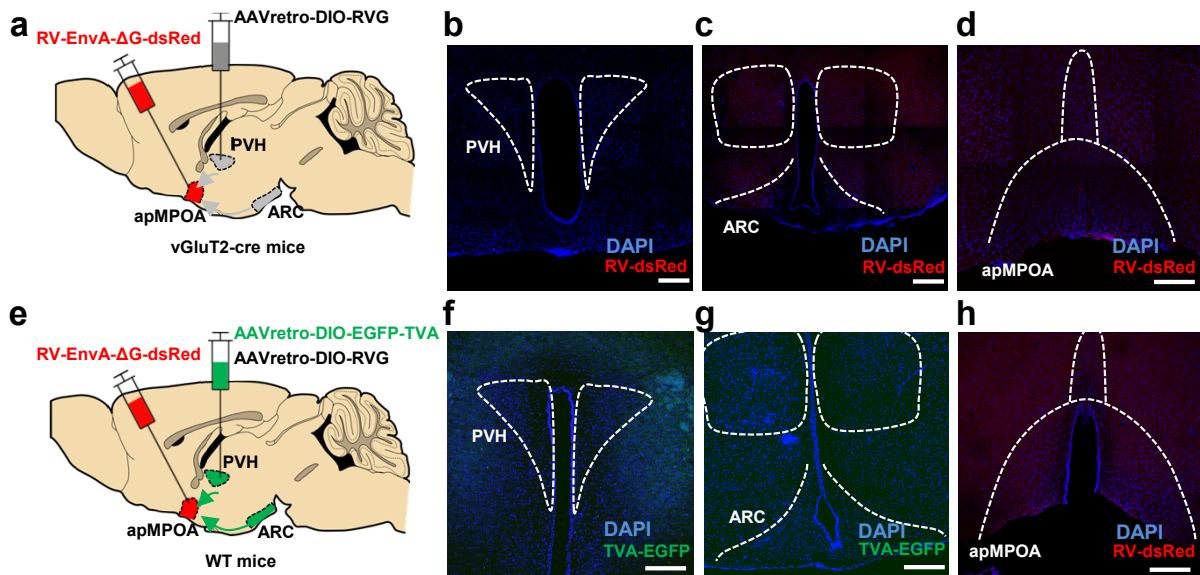
c, Retrograde-labeled PVH (red) and ARC (green) projecting neurons in the apMPOA showed a small fraction of colocalizations in the GAD2-cre mice. $n = 4$, Scale bar, 100 μ m.



Supplementary Figure 11. Monosynaptic retrograde RV co-expressed locations for the two subsets of PVH and ARC-projecting apMPOA neurons

a, c, Schematic images of the injection of Cre-dependent AAVretro vector expressing RV helpers into the PVH (**a**) or ARC (**c**) on day 1 and RV-EnvA-ΔG-dsRed on day 21 into apMPOA of vGluT2-cre mice

b, d, Retrograde RV co-expressed nuclei for the two subsets of PVH and ARC-projecting apMPOA neurons, including ventral lateral septal nucleus (LSV), anterior BNST (aBNST), subfornical organ (SFO), MnPO, DMH, TN, supraoptic nucleus (SO), ventral premammillary nucleus (PMV), posterior hypothalamus (PH), central amygdaloid nucleus (CeA), supramammillary nucleus (SuM), posterodorsal part of medial amygdaloid nucleus (MePD), dorsal raphe nucleus (DR), raphe magnus nucleus (RMg), and subiculum. MS, medial septal nucleus; aca, anterior part of anterior commissure; f, fornix; opt, optic tract; xscp, decussation of the superior cerebellar peduncle; MnR, median raphe nucleus; RPa, raphe pallidus nucleus. Image representative of n = 4 mice. Scale bar, 100 μm.



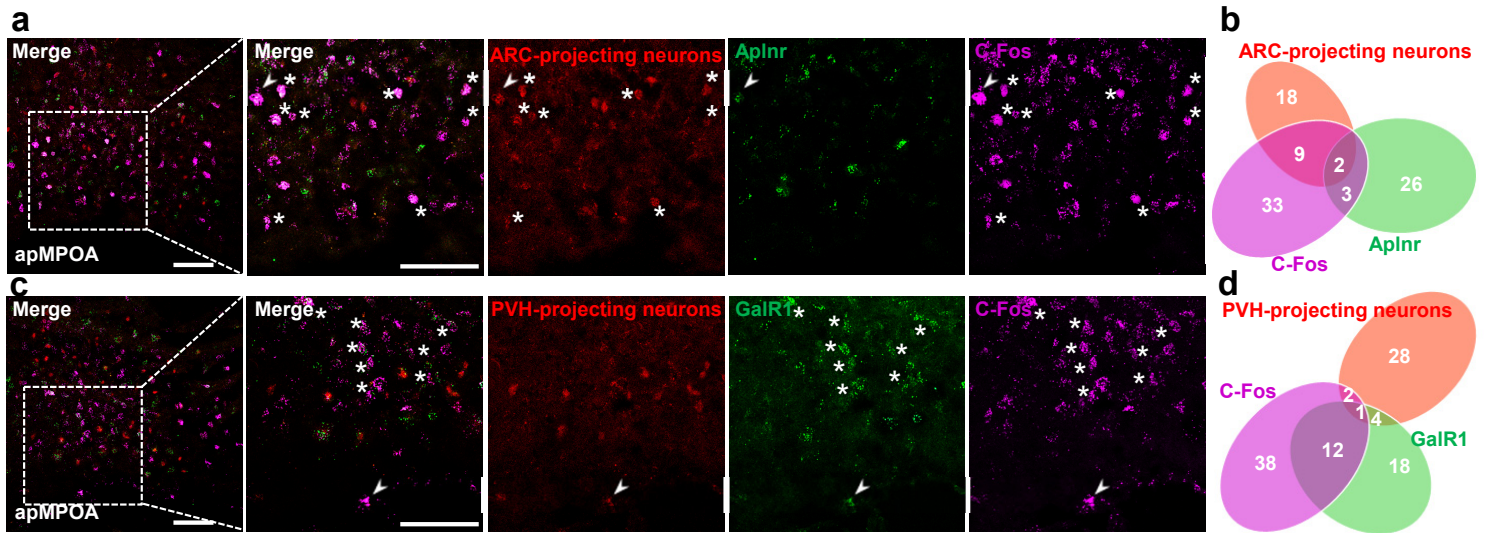
Supplementary Figure 12. Controls for RV experiments

a, Schematic images of injecting AAVretro-DIO-RVG without TVA into the PVH or ARC on day 1 and RV-EnvA- Δ G-dsRed on day 21 into apMPOA of vGlut2-cre mice.

b-d, Coronal images of PVH, ARC and apMPOA showed no dsRed-labeled neurons in the apMPOA or other areas in the brain, indicating the dependence of the RV infection on the TVA expression. Image representative of $n = 4$ mice for **b** and **c**, and $n = 8$ mice for **d**. Scale bar, 100 μ m.

e, Schematic images of injecting mixed helper viruses with AAVretro-DIO-oRVG and AAVretro-DIO-TVA-EGFP into the PVH or ARC on day 1 and RV-EnvA- Δ G-dsRed on day 21 into apMPOA of wild-type mice.

f-h, Coronal images of PVH, ARC and apMPOA showed no TVA-GFP or RV-dsRed expression in the injection sites or apMPOA, suggesting no leaky expression of the helper viruses or RV. Image representative of $n = 4$ mice for **f** and **g**, and $n = 8$ mice for **h**. Scale bar, 100 μ m.



Supplementary Figure 13. Characterization of *ApInr*, *GalR1*, PVH and ARC-projecting apMPOA neurons that got C-Fos activated by fasting

a, Colocalizations of *ApInr* (green), ARC-projecting apMPOA neurons (red) and fasting-induced C-Fos (purple). Image representative of $n = 5$ mice. Scale bar, 100 μm . Arrowhead denotes *ApInr*⁺, ARC-projecting⁺, and C-Fos⁺ neurons, asterisk denotes ARC-projecting⁺ and C-Fos⁺ neurons.

b, Diagram illustrating quantitative counts showed that ARC-projecting neurons present colocalization with fasting-induced C-Fos (approximately 42.5% ARC-projecting neurons), but rarely with apelin receptor (approximately 6.9% ARC-projecting neurons).

c, Colocalizations of *GalR1* (green), PVH-projecting apMPOA neurons (red) and fasting-induced C-Fos (purple). Image representative of $n = 5$ mice. Scale bar, 100 μm . Arrowhead denotes *GalR1*⁺, PVH-projecting⁺, and C-Fos⁺ neurons, asterisk denotes *GalR1*⁺ and C-Fos⁺ neurons.

d, Diagram illustrating quantitative counts showed that PVH-projecting neurons present minor colocalizations with fasting-induced C-Fos (approximately 12.5% PVH-projecting neurons), and galanin receptor 1 (approximately 20% ARC-projecting neurons).

Supplementary Table 1 Gene expression values (in FPKM) of ARC and PVH-projecting apMPOA neurons from RNA-seq analysis. Values from each biological replicate are all included. ARC-projecting apMPOA replicates: A5, A6, A8, A10, A12; PVH-projecting apMPOA replicates: P11, P12, P15, P16, P17

| Gene ID | Gene Symbol | A_10 | A_12 | A_5 | A_6 | A_8 | P_11 | P_12 | P_15 | P_16 | P_17 |
|-----------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 100009600 | 'Zglp1' | 5.17 | 0.3 | 0 | 1.47 | 0 | 0 | 0 | 0 | 0.44 | 0 |
| 100009614 | 'Gm10024' | 0 | 0.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100017 | 'Ldlrap1' | 0 | 0 | 0 | 0 | 0.82 | 0 | 0 | 0 | 0 | 0.82 |
| 100019 | 'Mdn1' | 1.25 | 2.58 | 1.87 | 2.25 | 3.13 | 2.75 | 2.39 | 0.21 | 3.03 | 1.82 |
| 100033459 | 'Ifi208' | 0.13 | 0.18 | 0 | 0.09 | 0.1 | 0 | 0 | 0 | 0.01 | 0.01 |
| 100034251 | 'Wfdc17' | 0 | 0 | 2.99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100034361 | 'Mfap1b' | 75.49 | 41.7 | 54 | 35.3 | 40.7 | 39.91 | 36.6 | 53.43 | 33.55 | 36.55 |
| 100034363 | 'Tmsb15b2' | 15.53 | 8.21 | 24.1 | 5.93 | 10.5 | 3.27 | 0.14 | 6.96 | 7.06 | 10.26 |
| 100034684 | 'BC100530' | 0 | 0 | 0 | 0.76 | 0 | 0 | 0 | 0.21 | 0 | 0 |
| 100036521 | 'Umad1' | 55.47 | 59.98 | 54.6 | 76.5 | 44.4 | 60.85 | 58.7 | 79 | 68.03 | 65.66 |
| 100037258 | 'Dnajc3' | 13.63 | 18.89 | 13.6 | 21.7 | 12.1 | 25.42 | 9.84 | 10.11 | 19.37 | 31.45 |
| 100037278 | 'Fam129c' | 0.27 | 0.45 | 3.36 | 0 | 0 | 0 | 5.12 | 1.82 | 4.82 | 6.92 |
| 100037282 | 'Rsph3b' | 59.44 | 57.38 | 30.1 | 45.5 | 31.3 | 35.76 | 30.5 | 40.07 | 27.64 | 60.44 |
| 100037283 | 'Rnaset2a' | 45.74 | 57.53 | 52.8 | 54.9 | 62.1 | 63.44 | 65.9 | 20.65 | 32.06 | 5.96 |
| 100038347 | 'Fam174b' | 21.64 | 19.62 | 18.5 | 16.7 | 22.9 | 13.75 | 8.17 | 27.08 | 17.44 | 15.03 |
| 100038514 | 'Gm11837' | 5.58 | 9.32 | 6.97 | 20.5 | 2.43 | 0.11 | 0 | 4.15 | 3.05 | 4.68 |
| 100038538 | 'Gm10767' | 0.03 | 6.46 | 0.29 | 0 | 0.12 | 3.84 | 3.1 | 2.41 | 0 | 6.29 |
| 100038570 | 'Prcd' | 2.57 | 3.04 | 1.54 | 0 | 11.9 | 5.66 | 0 | 1.59 | 2.17 | 3.46 |
| 100038725 | 'Cep85l' | 1.82 | 3.83 | 2.79 | 1.6 | 0.22 | 2.81 | 1.37 | 0.06 | 2.07 | 0 |
| 100038847 | 'Gm10406' | 15.9 | 6.82 | 12.4 | 2.32 | 11.4 | 12.5 | 4.97 | 13.11 | 19.41 | 8.38 |
| 100038860 | 'Olfr239' | 0 | 0 | 2.52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100038882 | 'Isg15' | 1.74 | 0 | 1.62 | 4.82 | 0.14 | 0 | 0 | 0.51 | 4 | 0.48 |
| 100038949 | 'Gm1979' | 0 | 0.05 | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 |
| 100038992 | 'Gm2001' | 0 | 0 | 0 | 0 | 0 | 0 | 1.08 | 0.67 | 0 | 0 |
| 100038993 | 'Gm2002' | 0 | 0.1 | 0.05 | 0.34 | 0.26 | 0 | 0 | 0.64 | 0.09 | 0 |
| 100039014 | 'Gm20793' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 100039028 | 'Mup11' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.75 | 0 | 0 |
| 100039034 | 'Gm20795' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 100039042 | 'Gm2016' | 0 | 0 | 0 | 0 | 0.21 | 0 | 0 | 0 | 0 | 0 |
| 100039045 | 'Gm10471' | 0.13 | 0.21 | 0.03 | 0 | 0.75 | 0.07 | 0.01 | 0.08 | 3.09 | 0.51 |
| 100039053 | 'Gm2023' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.48 |
| 100039060 | '0610010B08Rik' | 0 | 0.15 | 0.12 | 0 | 1.07 | 0 | 0.68 | 0 | 2.91 | 0 |
| 100039087 | 'Gm2042' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100039123 | 'Gm14295' | 175 | 172.8 | 149 | 212 | 147 | 205.4 | 148 | 169.5 | 124.6 | 127.91 |
| 100039175 | 'Gm9780' | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100039192 | 'Tmem254c' | 31.04 | 6.56 | 32.1 | 21.9 | 10.8 | 11.97 | 0 | 40.26 | 21.84 | 53.96 |
| 100039227 | 'Duxbl2' | 0.28 | 0.13 | 0.56 | 6.92 | 0 | 0.65 | 0 | 0.28 | 0 | 0.73 |
| 100039246 | 'Plac9b' | 0.55 | 0 | 3.61 | 0 | 0 | 0 | 0 | 3.79 | 0 | 0 |
| 100039257 | 'Tmem254b' | 30.63 | 28.04 | 50.7 | 70.4 | 85.7 | 78.86 | 86.9 | 42.19 | 69.1 | 58.51 |
| 100039284 | 'Gm2137' | 3.09 | 3.09 | 2.43 | 3.07 | 2.85 | 1.38 | 3.76 | 0.86 | 9.63 | 1.88 |
| 100039293 | 'Duxbl3' | 0.28 | 0.42 | 0.56 | 4.17 | 0 | 0.65 | 0 | 0.28 | 0 | 0.31 |
| 100039441 | 'Gm2237' | 1.15 | 1.01 | 0.75 | 0.22 | 1.15 | 0.98 | 2.1 | 1.63 | 4.06 | 0.27 |
| 100039596 | 'Tcf24' | 0 | 0 | 0 | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100039614 | 'Gm20809' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.65 | 0 |
| 100039707 | 'Mthfs1' | 21.35 | 16.81 | 24.4 | 87.3 | 22.8 | 58.19 | 24.5 | 21.28 | 36.78 | 22.58 |
| 100039795 | 'Ildr2' | 6.6 | 3.14 | 1.97 | 5.17 | 8.72 | 7.41 | 0.28 | 2.59 | 3.38 | 8.28 |
| 100039815 | 'Gm2436' | 7.49 | 0 | 4.19 | 0.14 | 4.31 | 0 | 0 | 9.86 | 0 | 2.96 |
| 100039830 | 'Gm2446' | 0 | 4.36 | 0.36 | 0.14 | 1.73 | 0 | 12.9 | 0 | 0 | 0.75 |
| 100039863 | 'Gm13306' | 0 | 0.98 | 0.58 | 6.23 | 0.33 | 0.44 | 0.26 | 0.96 | 3.6 | 0 |
| 100039939 | 'Gm2506' | 12.18 | 5.09 | 3.48 | 2.38 | 6.43 | 2.12 | 5.17 | 6.93 | 12 | 6.11 |
| 100039968 | 'Tmem35b' | 10.4 | 5.28 | 3.6 | 16 | 11.2 | 7.81 | 10.5 | 5.32 | 49.92 | 16.04 |
| 100040048 | 'Ccl27b' | 0 | 0 | 0 | 5.43 | 0 | 12.44 | 0 | 2.3 | 7.92 | 13.74 |

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|-----------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 100040171 | 'Gm20827' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 100040335 | 'Gm20836' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 100040462 | 'Mndal' | 0.04 | 0.12 | 0.2 | 0.13 | 1.44 | 0.11 | 0.08 | 0.04 | 0.06 | 0.03 |
| 100040500 | 'Gm2808' | 0 | 0.01 | 0.02 | 0.05 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 100040531 | 'Dynlt1f' | 9.33 | 30.04 | 32 | 14 | 32.2 | 30.91 | 8.68 | 18.45 | 23.26 | 18.62 |
| 100040545 | 'Gm2832' | 0 | 0 | 0 | 0 | 1.72 | 0 | 0.04 | 0 | 0 | 1.24 |
| 100040563 | 'Dynlt1c' | 34.79 | 52.57 | 52.9 | 37.8 | 76.8 | 76.46 | 61.1 | 54.44 | 27.85 | 53.59 |
| 100040585 | 'Gm2854' | 0.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100040591 | 'Kcnj13' | 0 | 0 | 0.11 | 0 | 0 | 0.12 | 0 | 0.53 | 0 | 0 |
| 100040599 | 'Gm15319' | 0.01 | 0.03 | 0 | 0 | 1.15 | 0.03 | 0.05 | 0.27 | 0 | 0.01 |
| 100040608 | 'Fancf' | 0.05 | 0 | 0 | 0 | 0.03 | 1.33 | 0 | 0.05 | 2.51 | 0 |
| 100040657 | 'Gm2888' | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 |
| 100040671 | 'Gm2897' | 5.45 | 8.77 | 8.63 | 9.74 | 5.99 | 8.63 | 11 | 14.89 | 14.38 | 5.26 |
| 100040697 | 'Gm10340' | 0 | 0.43 | 1.31 | 1.71 | 0 | 0 | 0 | 1.8 | 0.33 | 0 |
| 100040722 | 'Btbd35f13' | 0 | 0 | 0.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100040732 | 'Btbd35f14' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 100040766 | 'Mroh2a' | 0 | 0.01 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100040771 | 'Gm2959' | 0 | 0 | 0.19 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 |
| 100040807 | 'Gm2977' | 0.07 | 0 | 0.9 | 0 | 0.03 | 0 | 1.24 | 2.07 | 0.47 | 0 |
| 100040870 | 'Gm3005' | 6.77 | 4.78 | 4.13 | 5.17 | 11.6 | 2.02 | 5.8 | 9.32 | 12.45 | 5.85 |
| 100040935 | 'Gm3050' | 0.61 | 0 | 0.09 | 0 | 0.03 | 0 | 0.39 | 1.21 | 0.38 | 0 |
| 100040944 | 'Gm3055' | 4.34 | 1.74 | 4.5 | 0 | 1.11 | 0 | 1.17 | 2.47 | 0 | 2.39 |
| 100040972 | 'Tceal7' | 2.46 | 0 | 0 | 0 | 5.32 | 0 | 0 | 1.37 | 4.33 | 2.92 |
| 100041012 | 'Gm3095' | 3.19 | 3.6 | 1.69 | 0.84 | 0.61 | 2.42 | 3.88 | 4.23 | 2.89 | 2.45 |
| 100041057 | 'LOC100041057' | 0 | 0.04 | 0.05 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 100041115 | 'Gm3147' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 100041151 | 'Gm3636' | 30.53 | 13.84 | 13.8 | 7.3 | 11.8 | 5.75 | 15.6 | 20.03 | 29.23 | 16.2 |
| 100041194 | 'Ahnak2' | 0 | 0 | 0 | 0 | 0.44 | 0 | 0.34 | 0 | 0 | 0 |
| 100041230 | 'Hist1h4m' | 6.24 | 2.72 | 28.1 | 13.4 | 1.13 | 21.14 | 20 | 10.47 | 4.73 | 12.66 |
| 100041256 | 'Gm20867' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 |
| 100041262 | 'Gm3239' | 2.27 | 1.36 | 1.1 | 0.16 | 1.71 | 0.29 | 2.38 | 2.39 | 0.44 | 1.69 |
| 100041273 | 'Ndufb4c' | 34.4 | 31.97 | 50.3 | 61.4 | 36.8 | 88.95 | 52.3 | 36.33 | 49.86 | 34.71 |
| 100041279 | 'Gm3248' | 4.47 | 8.39 | 0.85 | 0.88 | 1.42 | 1.74 | 0.73 | 4.28 | 0.68 | 3.8 |
| 100041294 | 'Supt4b' | 0.24 | 0.18 | 0.52 | 0.29 | 0.09 | 0.16 | 0.06 | 0.95 | 0.54 | 0.31 |
| 100041306 | 'Gm3264' | 11.56 | 7.4 | 9.25 | 2.32 | 10.4 | 5.15 | 11.6 | 17.19 | 15.56 | 9.52 |
| 100041420 | 'Gm3325' | 1.21 | 0.11 | 0.19 | 0.29 | 0.28 | 0.73 | 5.61 | 0.24 | 3.13 | 0.47 |
| 100041504 | 'LOC100041504' | 0 | 0 | 0 | 0 | 0.23 | 0.71 | 0 | 0 | 0 | 0 |
| 100041515 | 'Gm3383' | 13.8 | 22.17 | 15.1 | 20.3 | 42.4 | 3.69 | 8.72 | 37.17 | 44.82 | 10.62 |
| 100041546 | 'Ly6c2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.51 | 0 |
| 100041574 | '9030025P20Rik' | 5.97 | 2.23 | 5.99 | 13 | 0 | 0.79 | 3.49 | 0.46 | 8.55 | 6.71 |
| 100041579 | 'Gm20878' | 1.66 | 2.89 | 1.05 | 7.47 | 2.24 | 3.4 | 2.53 | 2.55 | 1.84 | 5.29 |
| 100041581 | 'Zkscan16' | 4.4 | 2.57 | 9.02 | 2.87 | 8.33 | 11.13 | 10.5 | 1.88 | 5.72 | 2.59 |
| 100041585 | 'Amd2' | 0.11 | 0.06 | 0.05 | 1.37 | 0.94 | 0 | 0.05 | 0.04 | 1.74 | 0.23 |
| 100041586 | 'Gm3417' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.27 | 0 | 0 |
| 100041593 | 'LOC100041593' | 0 | 0 | 0 | 0 | 0.28 | 3.16 | 0 | 0 | 0 | 0 |
| 100041599 | 'LOC100041599' | 1.72 | 0.03 | 7.71 | 4.12 | 2.85 | 0 | 0.25 | 0.75 | 1.43 | 1.34 |
| 100041621 | 'Gm3435' | 3.14 | 4.74 | 0.08 | 7.05 | 10.7 | 7.23 | 3.81 | 5.69 | 3.41 | 7.59 |
| 100041639 | 'Gm3448' | 0 | 0 | 0 | 0.23 | 0 | 0 | 0 | 1.27 | 0 | 0 |
| 100041677 | 'Zfp984' | 1.09 | 0.02 | 0.05 | 13.1 | 0.07 | 0.05 | 0 | 0 | 0 | 0.08 |
| 100041678 | 'Gm3500' | 1.09 | 0.06 | 0.26 | 1.08 | 3.32 | 0.09 | 0 | 4.88 | 10.97 | 1.42 |
| 100041702 | 'Gm3476' | 0 | 0 | 0.52 | 0 | 0 | 0 | 0.36 | 0 | 0.23 | 0 |
| 100041708 | 'LOC100041708' | 0.13 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100041712 | 'LOC100041712' | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100041734 | '4930522L14Rik' | 2.18 | 0.06 | 0.1 | 0.55 | 5.04 | 1.14 | 1.1 | 0.24 | 10.6 | 2.63 |
| 100041735 | 'Gm3488' | 7.13 | 13.54 | 20.2 | 2.19 | 10.4 | 2.17 | 7.89 | 21.24 | 19.63 | 8.9 |
| 100041774 | 'Gm10413' | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100041840 | 'Gm10408' | 0.04 | 0 | 0.11 | 0.15 | 0.22 | 0.19 | 0.04 | 0.13 | 0.31 | 0.61 |
| 100041874 | 'Gm3558' | 13.35 | 9.44 | 10.3 | 5.01 | 12.4 | 9.65 | 5.73 | 11.63 | 10.23 | 16.21 |

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|-----------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 100041953 | 'Sap18b' | 272.9 | 292.4 | 254 | 294 | 291 | 358.4 | 195 | 280.5 | 198.4 | 233.7 |
| 100041958 | 'Gm3591' | 1.04 | 0.14 | 0 | 0 | 0.12 | 0 | 0.34 | 0.11 | 0.15 | 0 |
| 100041964 | 'Gm3594' | 0 | 0 | 0.14 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0.06 |
| 100041979 | 'Gm3604' | 0 | 1.3 | 0.48 | 0.02 | 0.16 | 0.1 | 0 | 1.24 | 0.52 | 0.14 |
| 100042054 | 'Gm3194' | 1.15 | 0.37 | 1.17 | 5.34 | 0.7 | 0.03 | 7.35 | 1.13 | 1.09 | 1.44 |
| 100042074 | 'Gm3650' | 0.98 | 0.5 | 0 | 0 | 0 | 0 | 2.17 | 2.68 | 1.4 | 0.16 |
| 100042100 | 'Gm3667' | 2.11 | 2.78 | 2.87 | 0 | 2.2 | 0.9 | 1.16 | 2.85 | 3.2 | 3.07 |
| 100042149 | 'Gm3696' | 3.71 | 5.56 | 4.6 | 0.17 | 6.17 | 7.46 | 6.69 | 11.39 | 6.84 | 4.98 |
| 100042150 | 'Nrg2' | 2.27 | 0.12 | 2.74 | 0 | 0.17 | 1.76 | 2.05 | 0.63 | 0.79 | 0.82 |
| 100042165 | 'BC005561' | 2.12 | 1.65 | 1.08 | 3.28 | 2.54 | 8.07 | 1.71 | 1.52 | 2.35 | 2.57 |
| 100042268 | 'Gm20907' | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100042304 | 'Gm38418' | 1.43 | 0.76 | 0.92 | 0 | 1.28 | 0.17 | 1.05 | 3.04 | 1.56 | 1.69 |
| 100042450 | 'Smim17' | 3.11 | 3.15 | 2.46 | 0 | 2.04 | 8.61 | 5.94 | 2.98 | 0.23 | 2.41 |
| 100042480 | 'Nhsl2' | 1.77 | 2.38 | 4.41 | 1.3 | 2.86 | 2.59 | 8.75 | 1.8 | 4.96 | 2.75 |
| 100042493 | 'Ccl21b' | 0 | 0 | 0.79 | 0 | 7.13 | 4.14 | 6.01 | 0.1 | 1.97 | 2.71 |
| 100042499 | 'Vmn2r55' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100042503 | 'Ndufb4b' | 15.07 | 9.34 | 12.1 | 7.05 | 29.9 | 18.33 | 16.1 | 16.1 | 32.54 | 19.31 |
| 100042514 | 'Sprr2a3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| 100042555 | 'Gm13305' | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100042591 | 'Vmn2r31' | 0.02 | 0.04 | 0.02 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0.03 |
| 100042636 | 'Vmn2r34' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100042653 | 'Vmn2r36' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100042698 | 'Gm3973' | 1.89 | 0.06 | 0 | 0.07 | 0.9 | 0.86 | 0.3 | 0.56 | 0.06 | 0.71 |
| 100042781 | 'Vmn2r40' | 0.02 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 0 | 0 |
| 100042784 | 'Prdm11' | 0 | 0 | 1.94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100042786 | 'Gm16381' | 0 | 0 | 0 | 0 | 0 | 0 | 0.11 | 0.27 | 0 | 0 |
| 100042807 | 'Eif3j2' | 0 | 0 | 0.15 | 0.06 | 0 | 0.06 | 0 | 0 | 0.14 | 0 |
| 100042848 | 'Vmn2r41' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 100042856 | 'Gm4070' | 0 | 0 | 0 | 0 | 0.36 | 0 | 0 | 0 | 0 | 0 |
| 100042960 | 'Gm4131' | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 |
| 100043016 | 'Vmn1r131' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043019 | 'Gm4175' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043025 | 'Gm4177' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043029 | 'Vmn1r138' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043034 | 'Rex2' | 0.34 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 |
| 100043037 | 'Gm10666' | 0 | 0 | 0 | 0 | 0 | 2.64 | 0 | 0 | 0 | 0 |
| 100043079 | 'Gm4214' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043083 | 'Gm4216' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043088 | 'Vmn1r166' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043133 | '9130023H24Rik' | 0 | 1.22 | 0 | 0 | 0.54 | 0.63 | 5.18 | 3.85 | 0 | 1.31 |
| 100043173 | 'BB114814' | 0 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043272 | 'Inafm2' | 14.9 | 17.84 | 6.69 | 22.2 | 17.1 | 4.67 | 8.82 | 6.36 | 6.01 | 5.69 |
| 100043314 | 'Tigit' | 0 | 0.1 | 0 | 0.06 | 0.05 | 0 | 0 | 0 | 1.35 | 0.05 |
| 100043381 | 'Gm14308' | 0.04 | 0.14 | 0.21 | 1.32 | 1.51 | 0 | 0 | 0.78 | 0 | 0 |
| 100043387 | 'Gm14305' | 14.73 | 11.5 | 18.1 | 13.5 | 12.8 | 15.69 | 15.4 | 8.67 | 10.04 | 10.97 |
| 100043456 | 'Gm10681' | 0 | 0 | 0 | 0 | 0 | 0.14 | 0 | 0 | 0 | 0 |
| 100043468 | 'Zfp955b' | 8.88 | 6.93 | 1.94 | 4.62 | 14.8 | 4.63 | 13.1 | 3.72 | 7.43 | 5.86 |
| 100043474 | 'Olf1564' | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043497 | 'Nat8f7' | 0.04 | 0 | 0 | 0.05 | 0 | 0 | 0.04 | 0.03 | 0 | 0 |
| 100043523 | 'Gm4498' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043597 | 'Srcap' | 1.18 | 1.95 | 7.66 | 3.2 | 5.8 | 1.63 | 3.67 | 3.77 | 3.16 | 0.87 |
| 100043604 | 'Vmn1r132' | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 |
| 100043617 | 'Gm4553' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043638 | 'Gm4565' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.47 | 0 |
| 100043665 | 'Gm10662' | 0.83 | 0 | 0 | 0 | 0 | 0.03 | 0.03 | 0 | 0.3 | 0.02 |
| 100043684 | 'Amy2a4' | 0 | 0.06 | 0.06 | 0.07 | 0.02 | 0.05 | 0.01 | 0.01 | 0.01 | 0.04 |
| 100043686 | 'Amy2a3' | 0 | 0.06 | 0.06 | 0.07 | 0.02 | 0.05 | 0.01 | 0.01 | 0.01 | 0.04 |
| 100043688 | 'Amy2a2' | 0 | 0.06 | 0.06 | 0.07 | 0.02 | 0.05 | 0.01 | 0.01 | 0.01 | 0.04 |

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|-----------|------------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 100043757 | 'Zfp831' | 0.38 | 0 | 2.37 | 0 | 0 | 0 | 0 | 0.01 | 0.01 | 0 |
| 100043772 | 'Zfp850' | 0.01 | 1.37 | 2.56 | 0 | 1.12 | 0 | 2.95 | 1.52 | 4.67 | 1.89 |
| 100043861 | 'Klrb1' | 0 | 2.95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100043914 | 'Zfp968' | 0 | 0 | 0.12 | 0 | 0 | 1.14 | 0 | 0 | 0 | 0 |
| 100043915 | 'Gm4724' | 0.58 | 0.73 | 1.22 | 0 | 1.02 | 0.13 | 0.59 | 0.79 | 0.47 | 0.52 |
| 100043920 | 'Fam205a4' | 1.79 | 0 | 0.43 | 0.68 | 0.84 | 0.34 | 0.13 | 0 | 0 | 0.09 |
| 100044193 | 'Gm20939' | 1.21 | 0.23 | 0.25 | 0 | 2.52 | 0.6 | 0.91 | 0.45 | 3.42 | 1.57 |
| 100044509 | 'Tgibr3' | 0.04 | 1.34 | 4.57 | 0 | 2.12 | 2.9 | 2.74 | 4.39 | 5.41 | 2.87 |
| 100044627 | 'LOC100044627' | 139.1 | 133.1 | 149 | 158 | 138 | 185.6 | 141 | 102.8 | 176.7 | 134.73 |
| 100045778 | 'Rnf223' | 0 | 0 | 1.14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100045792 | 'Ect2' | 0.73 | 0.12 | 0.09 | 0.41 | 0.68 | 0.16 | 0.03 | 0.18 | 0.47 | 0.8 |
| 100048534 | 'Cfap43' | 0 | 0.1 | 0.44 | 0.01 | 0 | 0.14 | 0.6 | 0 | 0 | 0.18 |
| 100048644 | 'Pet117' | 0.2 | 0 | 0 | 0 | 0.29 | 0 | 0 | 0.17 | 0 | 0 |
| 100072 | 'Camta1' | 17.9 | 18.84 | 13.6 | 29.1 | 18.5 | 13.78 | 16.7 | 16.78 | 28.77 | 14.48 |
| 100073351 | 'Yy2' | 1.8 | 2.29 | 1.91 | 4.55 | 0.6 | 3.14 | 0.29 | 0.98 | 0 | 0.63 |
| 100087 | 'Kti12' | 16.14 | 15.11 | 20.8 | 0 | 19.7 | 17.92 | 8.85 | 20.2 | 1.42 | 20.1 |
| 100088 | 'Rcc1' | 5.66 | 11.1 | 3.69 | 4.62 | 3.86 | 0.04 | 2.88 | 10.28 | 4.8 | 7.65 |
| 100090 | 'Zbtb48' | 2.7 | 3.07 | 8.39 | 1.7 | 8.34 | 16.16 | 11.3 | 8.49 | 6.08 | 9.55 |
| 100101806 | 'Srp54c' | 58.71 | 58.21 | 63.4 | 61.8 | 40.1 | 82.89 | 53.8 | 76.81 | 77.86 | 77.15 |
| 100101807 | '1700047117Rik2' | 37.38 | 39.97 | 30.8 | 25.4 | 27 | 17.47 | 25.2 | 18.62 | 27.95 | 16.73 |
| 100101919 | 'Dnah7c' | 0.01 | 0.06 | 0.3 | 0 | 0.01 | 0.12 | 0 | 0 | 0 | 0.02 |
| 100102 | 'Pcsk9' | 0 | 0 | 3.12 | 0.42 | 0 | 0 | 0 | 1.07 | 0 | 0 |
| 100113398 | 'Adat3' | 2.1 | 0.86 | 6.09 | 14.3 | 1.45 | 0 | 3.71 | 0 | 0.62 | 0 |
| 100121 | 'Tdrd7' | 1.8 | 3.46 | 0.63 | 6.94 | 3.14 | 4 | 10.5 | 0.24 | 4.65 | 4.56 |
| 100125586 | 'Vmn2r2' | 0 | 0.07 | 0.35 | 1.96 | 0 | 0.12 | 0 | 0 | 0 | 0 |
| 100126824 | 'Sco2' | 37.96 | 34.14 | 26.6 | 11.8 | 30.7 | 38.98 | 23.5 | 8.92 | 63.24 | 12.89 |
| 100129 | 'Gpr153' | 4.76 | 3.44 | 4.88 | 0.52 | 0.24 | 2.16 | 8.22 | 0.02 | 0.39 | 0.78 |
| 100141474 | '4933428G20Rik' | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| 100151772 | 'Srsx' | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 |
| 100155 | 'Al481877' | 0.58 | 0 | 0 | 0 | 0.35 | 0 | 0 | 0 | 0 | 0 |
| 100163 | 'Pafah2' | 0.25 | 5.2 | 2.75 | 0 | 5.9 | 0 | 3.42 | 3.37 | 1.19 | 2.9 |
| 100169 | 'Phactr4' | 0.62 | 0.38 | 2.05 | 14.9 | 1.48 | 2.54 | 0.55 | 0.52 | 0.68 | 0.33 |
| 100169864 | 'Gm44504' | 0 | 0.26 | 0.09 | 0.07 | 0 | 0 | 0.04 | 0 | 1.84 | 0.11 |
| 100169868 | 'Gm3173' | 1.6 | 1.41 | 1.28 | 1.96 | 3.91 | 2.59 | 2.26 | 2.46 | 2.76 | 1.14 |
| 100177 | 'Zmym6' | 8.42 | 5.66 | 9.47 | 6.98 | 8.7 | 4.65 | 5.86 | 4.28 | 7.96 | 10.99 |
| 100182 | 'Akna' | 0.6 | 0 | 0.01 | 0 | 1.43 | 0.18 | 0.17 | 0 | 0.52 | 0 |
| 100188919 | 'Gm45915' | 0.02 | 0 | 0.18 | 0.62 | 0 | 0 | 0.35 | 0 | 0.1 | 0 |
| 100198 | 'H6pd' | 1.32 | 0 | 0.01 | 0 | 2.35 | 0.17 | 1.42 | 0.01 | 0.02 | 2.11 |
| 100201 | 'Tmem64' | 2.95 | 2.21 | 2.92 | 6.31 | 0.54 | 2.07 | 4.2 | 3.01 | 0.61 | 0.01 |
| 100206 | 'Adprhl2' | 12.57 | 21.57 | 39.3 | 3.99 | 29.2 | 36.58 | 26.7 | 29.96 | 8.18 | 23.58 |
| 100210 | 'Gpn2' | 4.94 | 6.96 | 16.9 | 0 | 13.6 | 20.51 | 5.7 | 8.81 | 5.32 | 20.68 |
| 100213 | 'Rusc2' | 6.85 | 11.13 | 8.39 | 1.66 | 8.69 | 4.55 | 3.87 | 6.55 | 3.61 | 7.97 |
| 100216455 | 'Gm14124' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 100216474 | 'Ttl2' | 0 | 0 | 1.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 100226 | 'Stx12' | 71.62 | 82.32 | 96.2 | 67.8 | 77.9 | 53.32 | 84.9 | 78.29 | 85.99 | 64.04 |
| 100233175 | 'Gon7' | 21.07 | 62.22 | 23 | 76.4 | 16.9 | 39.63 | 41 | 15 | 60.4 | 51.37 |
| 100233207 | 'Gm17359' | 0 | 2.32 | 0.03 | 0 | 0 | 0 | 0 | 0.55 | 0 | 0 |
| 100233208 | 'Gm10778' | 0.05 | 0.11 | 1.05 | 0.08 | 0.09 | 1.2 | 0 | 1.21 | 0.01 | 0.76 |
| 100270744 | 'Btbd18' | 0.03 | 0 | 0.11 | 0 | 1.53 | 0 | 0.01 | 0 | 0 | 0 |
| 100271704 | 'Gm17660' | 9.3 | 5.16 | 3.35 | 9.59 | 16.2 | 0 | 19.8 | 6.72 | 0 | 7.81 |
| 100271928 | 'Gm15881' | 7.28 | 3.09 | 1.76 | 0.29 | 3.57 | 8.55 | 0 | 4.52 | 4.17 | 2.5 |
| 100273 | 'Osdbl9' | 27.86 | 19.54 | 20 | 26.6 | 20 | 18.9 | 20.9 | 24.45 | 22.06 | 28.39 |
| 100294583 | 'Alkal2' | 0.12 | 10.6 | 0 | 0 | 0 | 0 | 0 | 0 | 3.96 | 0 |
| 100294660 | 'Defa2' | 0 | 0 | 0 | 0 | 0 | 0 | 0.14 | 0 | 0 | 0 |
| 100302688 | 'Gm17455' | 0 | 2.76 | 0 | 0 | 0 | 0 | 4.59 | 0 | 5.08 | 0 |
| 100303732 | 'Zfp967' | 2.12 | 0.31 | 1.97 | 1.81 | 0.95 | 0.47 | 0.51 | 1.04 | 0.48 | 1.1 |
| 100303744 | 'Sprr2a2' | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100310872 | 'Dynlt1a' | 12.37 | 8.28 | 14.9 | 0 | 6.1 | 5.55 | 4.91 | 7.68 | 13.28 | 6.43 |

| | | | | | | | | | | | |
|-----------|----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 100317 | 'AU040320' | 12.53 | 22.27 | 19.8 | 9.63 | 8.39 | 6.02 | 11.9 | 11.11 | 14.27 | 39.11 |
| 100336 | 'Ppp1r8' | 35.8 | 46.71 | 36.3 | 48.2 | 40.1 | 15.93 | 30.3 | 54.53 | 56.87 | 46.14 |
| 100340 | 'Smpdl3b' | 11.89 | 4.66 | 7.64 | 0 | 15.5 | 11.23 | 0.03 | 2.94 | 0 | 9.44 |
| 100342 | 'Tent5b' | 0 | 0.77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100383 | 'Bsdcl' | 36.21 | 19.93 | 28.5 | 38.5 | 14 | 13.87 | 20.8 | 11.36 | 14.27 | 12.7 |
| 100384868 | 'Gm37013' | 3.64 | 0.44 | 0.8 | 0.88 | 0.11 | 0.06 | 0.47 | 5.61 | 0.96 | 0.82 |
| 100416706 | 'Zfp729b' | 1.95 | 1.16 | 1.19 | 0 | 5.07 | 0.01 | 2.08 | 0.55 | 0.76 | 0 |
| 100417514 | 'Adh6b' | 0.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 100434 | 'Slc44a1' | 0.02 | 2.21 | 4.1 | 4.1 | 4.43 | 1.67 | 5.08 | 1.58 | 0.66 | 1.27 |
| 100463512 | 'Gm20594' | 524.4 | 378.1 | 487 | 376 | 679 | 822 | 507 | 195 | 300.8 | 447.85 |
| 100465 | 'Mob3c' | 4.5 | 5.83 | 7.1 | 0.14 | 0.75 | 6.42 | 0 | 6.7 | 3.14 | 6.38 |
| 100494 | 'Zfand2a' | 20.93 | 23.97 | 28.7 | 19.4 | 19.4 | 12.41 | 21.4 | 25.28 | 10.16 | 23.27 |
| 100502590 | 'Tex50' | 0.96 | 0.89 | 1.94 | 0.25 | 1.55 | 1.1 | 0.44 | 1.18 | 0.23 | 0.42 |
| 100502698 | 'Rubcn' | 7.02 | 6.7 | 12.9 | 10.6 | 7.82 | 3.26 | 16.9 | 11.95 | 17.2 | 11.4 |
| 100502736 | 'Gm19345' | 13.49 | 13.46 | 2.8 | 0 | 0 | 8.67 | 0 | 11.38 | 8.5 | 19.98 |
| 100502766 | 'Kifc1' | 1.73 | 2.49 | 0.38 | 0 | 0 | 0.41 | 2.36 | 0.03 | 0.26 | 0 |
| 100502777 | 'Gm38422' | 0 | 1.41 | 1.52 | 0 | 0.18 | 0.31 | 1.15 | 2.5 | 5.27 | 0 |
| 100502825 | 'Rpl37rt' | 0.36 | 0.6 | 0.61 | 2.23 | 3.29 | 1.54 | 0.61 | 0.51 | 0.38 | 0.39 |
| 100502841 | 'Epg5' | 1.29 | 1.46 | 2.96 | 8.12 | 0.5 | 0.29 | 3.61 | 1.41 | 2.8 | 1.54 |
| 100502846 | 'Gm19410' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0.03 | 0.01 | 0 |
| 100502861 | 'Ccdc13' | 1.79 | 3.35 | 0.02 | 0 | 3.84 | 3.47 | 8.03 | 0 | 0 | 1.66 |
| 100502876 | 'Kcnmb3' | 0 | 0.31 | 0.34 | 0.76 | 0.19 | 0.03 | 2.3 | 0 | 0.98 | 0.25 |
| 100502921 | 'Gm10142' | 0 | 2.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100502940 | 'Colca2' | 0 | 2.52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.69 |
| 100502941 | 'Gm17353' | 0 | 0.05 | 0.13 | 0.03 | 0 | 0 | 0 | 0.04 | 0 | 0 |
| 100502950 | 'Gm3336' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.11 | 0 | 0.38 |
| 100502955 | 'Gm19470' | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100502967 | 'Speer4c' | 0.05 | 0.04 | 0 | 0 | 0.13 | 0.44 | 0.09 | 0.14 | 0 | 0 |
| 100503041 | 'Pdzd7' | 0.01 | 0.91 | 0.04 | 0 | 2.89 | 10.62 | 2.04 | 0 | 0.07 | 1.04 |
| 100503043 | 'Armxc4' | 1.19 | 2.89 | 2.5 | 4.53 | 2.45 | 1.72 | 1.87 | 3.13 | 0.91 | 2.03 |
| 100503085 | 'Klhl3' | 1.36 | 3.92 | 0.03 | 1.78 | 0.19 | 6.72 | 2.1 | 2.05 | 4.3 | 2.41 |
| 100503185 | 'Btd8' | 0.72 | 0 | 3.36 | 0.83 | 0.18 | 0 | 0 | 0 | 2.42 | 0 |
| 100503240 | 'Trpc5os' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.45 | 0 | 3.15 |
| 100503280 | 'Gm38425' | 0.74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100503311 | 'Pifo' | 3.1 | 1.38 | 4.7 | 12.6 | 50.8 | 0 | 0 | 0 | 0 | 25.13 |
| 100503353 | 'Gm14440' | 12.53 | 18.02 | 16.4 | 11.3 | 18.2 | 20.1 | 13.5 | 19.78 | 10.46 | 15.31 |
| 100503355 | 'Zfp648' | 1.23 | 1.4 | 0 | 0.03 | 1.37 | 0 | 5.72 | 0.77 | 0 | 0 |
| 100503361 | 'Tmem95' | 0 | 1.64 | 0 | 0 | 0 | 1.32 | 0 | 0 | 0 | 1.1 |
| 100503386 | 'Tpbgl' | 1.65 | 0.17 | 0.42 | 0.54 | 2.22 | 0 | 0 | 0.2 | 0 | 0 |
| 100503545 | 'Nuggc' | 0 | 0 | 0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 |
| 100503549 | 'Gm10354' | 0 | 0 | 0.06 | 0.08 | 0 | 0 | 0.91 | 0.12 | 0.14 | 0 |
| 100503572 | 'Bbip1' | 13.89 | 32.29 | 17.3 | 21 | 28.1 | 17.15 | 25.2 | 24.61 | 15.15 | 18.66 |
| 100503583 | 'Fsbp' | 0 | 0 | 0 | 0 | 0.33 | 0 | 0 | 0 | 0 | 0.68 |
| 100503584 | 'Zfp534' | 0 | 0 | 0 | 0.03 | 0 | 0.36 | 0 | 0 | 0 | 0.03 |
| 100503605 | 'Hbb-bs' | 2.02 | 0 | 6.17 | 81.7 | 0.08 | 0 | 7.42 | 13.75 | 29.53 | 6.43 |
| 100503659 | 'Cbarp' | 113.4 | 90.31 | 69.6 | 69.8 | 117 | 39.51 | 67.2 | 140.4 | 181.1 | 107.85 |
| 100503670 | 'Rpl5' | 149.1 | 142.2 | 144 | 165 | 176 | 98.31 | 172 | 139.8 | 135.7 | 151.59 |
| 100503710 | 'Gm5741' | 0.33 | 0.18 | 0 | 1.07 | 0.18 | 0 | 0 | 0 | 0.48 | 0 |
| 100503884 | 'Ccdc149' | 1.82 | 8.46 | 1.82 | 8.15 | 3.08 | 2.72 | 6.22 | 7.37 | 2.47 | 6.23 |
| 100503890 | 'Pet100' | 16.43 | 16.05 | 35.2 | 33.5 | 28.4 | 58.99 | 24.6 | 21.65 | 18.07 | 21.5 |
| 100503915 | 'Smpd5' | 1.07 | 0 | 1.59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100503949 | 'Zfp965' | 0 | 0 | 0 | 0 | 0 | 0.32 | 0 | 0 | 0 | 0 |
| 100504112 | 'Ccer2' | 16.28 | 4.74 | 54.7 | 0 | 15.4 | 12.88 | 0 | 9.45 | 32.51 | 5.59 |
| 100504156 | 'Fam181a' | 12.91 | 17.6 | 3.37 | 12.3 | 5.65 | 3.64 | 0.04 | 5.45 | 0 | 0 |
| 100504180 | 'LOC100504180' | 0 | 0 | 0 | 0 | 0 | 0.78 | 0 | 0 | 0 | 0 |
| 100504183 | 'Krtap16-1' | 0 | 0.13 | 0 | 0 | 0.18 | 0 | 4.86 | 0 | 0.02 | 2.53 |
| 100504195 | 'Micalcl' | 0 | 1.8 | 0.72 | 0.31 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100504200 | 'Gm8050' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.21 | 0 | 0 |

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|-----------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 100504234 | 'Cc dc170' | 0 | 0 | 0 | 0 | 1.68 | 0 | 0 | 0 | 0 | 0 |
| 100504263 | '2210418O10Rik' | 8.31 | 4.12 | 4.68 | 1.38 | 1.76 | 1.13 | 0.62 | 2.82 | 0.43 | 3.06 |
| 100504323 | 'Gm20172' | 1.21 | 0 | 0.03 | 0 | 2.41 | 0 | 1.99 | 0.31 | 3.14 | 0 |
| 100504429 | 'Spin2d' | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100504446 | 'Prr22' | 0 | 0 | 2.1 | 0 | 5.08 | 2.07 | 0 | 0 | 1.98 | 3.15 |
| 100504491 | 'Dcdc2b' | 0 | 1.63 | 0.2 | 0.91 | 3.14 | 3.07 | 0 | 3.17 | 1.7 | 0.83 |
| 100504518 | '3425401B19Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.02 |
| 100504608 | 'Eef1akmt3' | 0 | 0.14 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0.07 | 0.52 |
| 100504663 | 'Atg14' | 8.17 | 4.8 | 8.08 | 7.02 | 3.2 | 2.36 | 11.6 | 7.99 | 2.03 | 5.49 |
| 100504715 | 'Tm ppe' | 2.28 | 2.81 | 3.4 | 1.6 | 1.26 | 1.74 | 1.92 | 0.73 | 3.61 | 4.97 |
| 100505386 | 'lqschfp' | 0 | 2.64 | 0 | 0 | 9.62 | 9.72 | 3.52 | 2.75 | 0 | 0 |
| 100505397 | 'Gm20385' | 1.94 | 0 | 2.28 | 9.44 | 1.64 | 0 | 0.29 | 0.75 | 0.03 | 1.36 |
| 100515 | 'Zfp518b' | 0.61 | 1.7 | 3.66 | 0.98 | 0.07 | 0 | 1.35 | 1.24 | 1.22 | 1.08 |
| 100529082 | 'Gm11127' | 3.55 | 2.44 | 2.43 | 1.73 | 7.18 | 3.76 | 2.25 | 3.24 | 6.41 | 3.75 |
| 100532 | 'Rel1' | 0.01 | 0 | 1.6 | 0 | 0.71 | 0.1 | 0 | 0.22 | 2.65 | 0 |
| 100534273 | 'Fer1l5' | 0 | 0 | 0.23 | 0 | 0 | 0 | 0.25 | 0.02 | 0.01 | 0.32 |
| 100561 | 'Slc15a4' | 13.7 | 9.2 | 10.1 | 27.3 | 10.9 | 0.37 | 13.6 | 3.94 | 27.27 | 4.4 |
| 100604 | 'Lrrc8c' | 7.42 | 4.47 | 4.23 | 12.3 | 3.17 | 3.81 | 16.6 | 5.41 | 0.6 | 0.18 |
| 100608 | 'Noc4l' | 23.35 | 25.87 | 29.3 | 29.2 | 27.5 | 18.15 | 24.7 | 18.24 | 21.01 | 15.79 |
| 100609 | 'Nsun5' | 5.8 | 15.29 | 9.69 | 21.1 | 6.97 | 5.01 | 4.14 | 17.06 | 11.57 | 10.24 |
| 100637 | 'N4bp21l' | 46.41 | 29.26 | 26.6 | 37.9 | 40.6 | 40.93 | 24.2 | 31.21 | 75.79 | 72.01 |
| 100678 | 'P sph' | 12.35 | 0.66 | 13.1 | 7.4 | 11.7 | 13.69 | 13.3 | 12.38 | 16.36 | 6.2 |
| 100683 | 'Trrap' | 3.8 | 5.19 | 6.81 | 3.49 | 4.83 | 6.4 | 3.84 | 3.25 | 3.82 | 6.21 |
| 100702 | 'Gbp6' | 0 | 0.42 | 2.11 | 6.23 | 2.94 | 0 | 0 | 0 | 1.54 | 0.09 |
| 100705 | 'Acacb' | 0.58 | 0.48 | 0.33 | 0.36 | 0.9 | 3.36 | 2.75 | 1.78 | 0.87 | 1.06 |
| 100710 | 'Pds5b' | 9.72 | 5.35 | 8.12 | 11.4 | 7.8 | 4.31 | 8.29 | 3.98 | 8.24 | 7.58 |
| 100715 | 'Tent2' | 18.16 | 10.73 | 8.26 | 18 | 6.74 | 13.98 | 5.66 | 18.44 | 10.57 | 2.43 |
| 100732 | 'Mapre3' | 258.5 | 249.7 | 232 | 154 | 266 | 278.5 | 272 | 268.4 | 219.9 | 268.69 |
| 100737 | 'Dcun1d4' | 49.44 | 47.41 | 46.2 | 28.2 | 38.8 | 13.97 | 51.6 | 65.87 | 36.02 | 31.2 |
| 100756 | 'Usp30' | 9.77 | 6.67 | 6.24 | 0.95 | 3 | 3.84 | 0 | 3.01 | 8.31 | 0.75 |
| 100763 | 'Ube3c' | 5.99 | 6.08 | 9.91 | 0.73 | 8.6 | 3.69 | 7.27 | 6.56 | 1.09 | 4.25 |
| 100764 | 'Rita1' | 6.01 | 9.97 | 20.1 | 0.04 | 16.8 | 12.28 | 9.26 | 10.57 | 14.23 | 5.02 |
| 100855 | 'Tbc1d14' | 19.73 | 15.36 | 11.8 | 17.2 | 18.7 | 10.86 | 6.16 | 6.45 | 7.97 | 19.91 |
| 100859931 | 'Gm20604' | 23.04 | 22.65 | 17.8 | 23.6 | 5.84 | 13.21 | 13.9 | 24.58 | 21.04 | 21 |
| 100861615 | 'LOC100861615' | 4.85 | 2.86 | 5.41 | 4.32 | 3.19 | 3.71 | 3.31 | 6.49 | 6.8 | 3.44 |
| 100861668 | 'Gm21119' | 0.05 | 0 | 0.23 | 1.21 | 0.03 | 0.03 | 0.18 | 0 | 0 | 0.01 |
| 100861702 | 'Gm21149' | 0.05 | 0.03 | 0.08 | 0 | 0.04 | 0.91 | 4.53 | 0.05 | 0 | 0.03 |
| 100861708 | 'Gm21154' | 0 | 0 | 0.03 | 0 | 0.43 | 0 | 0 | 0 | 0 | 0 |
| 100861719 | 'Gm21162' | 0 | 0 | 0.5 | 0 | 0.45 | 0 | 0 | 0 | 0 | 0.01 |
| 100861753 | 'Gm21188' | 0.08 | 0 | 0.03 | 0.2 | 0.06 | 0.08 | 0.06 | 0 | 0 | 0 |
| 100861755 | 'Gm21190' | 0 | 0 | 0 | 0 | 0 | 1.39 | 0.39 | 0 | 0 | 0 |
| 100861879 | 'Gm21292' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.38 | 0 |
| 100861899 | 'Gm21310' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 100861908 | 'Gm21319' | 0.02 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 100861969 | 'LOC100861969' | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100861978 | 'LOC100861978' | 1.13 | 1.73 | 4.81 | 1.95 | 0 | 2.98 | 0 | 5.11 | 8.35 | 4.25 |
| 100862043 | 'LOC100862043' | 0 | 0.06 | 0 | 0 | 0 | 0 | 1.3 | 0 | 0 | 0 |
| 100862066 | 'Cfap99' | 0.59 | 0 | 0.68 | 3.07 | 0.03 | 0.29 | 0.76 | 0 | 0.6 | 0.18 |
| 100862072 | 'Gm21451' | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100862085 | 'Gm16867' | 2.16 | 0 | 0.99 | 2.52 | 3.97 | 2.64 | 3.02 | 0.61 | 0.03 | 0.24 |
| 100862192 | 'LOC100862192' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 100862203 | 'Gm6712' | 5.45 | 0.54 | 0.6 | 0 | 7.12 | 8.5 | 9.23 | 1.24 | 4.34 | 3.55 |
| 100862247 | 'Gm21586' | 1.66 | 2.89 | 1.05 | 7.47 | 2.24 | 3.4 | 2.53 | 2.55 | 1.84 | 5.29 |
| 100862261 | 'Fam205a3' | 0.73 | 0.21 | 0.05 | 0.3 | 0.31 | 0.36 | 0.07 | 0.14 | 1.72 | 0.07 |
| 100862314 | 'Gm21637' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 100862324 | 'LOC100862324' | 0.44 | 0.12 | 0.25 | 0 | 0.29 | 0.02 | 0.25 | 0 | 1.04 | 0.23 |
| 100862345 | 'Gm21660' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 100862348 | 'Gm9295' | 1.5 | 0.98 | 1.1 | 1.78 | 0.87 | 0.25 | 2.42 | 0.72 | 2.28 | 0.36 |

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|-----------|----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 100862349 | 'Gm21663' | 0.17 | 0.33 | 0.31 | 0 | 0.26 | 0 | 0 | 0.04 | 0 | 0 |
| 100862359 | 'Gm21671' | 0.03 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.28 |
| 100862368 | 'Gm21680' | 0.06 | 1.6 | 1.71 | 0 | 4.5 | 1.09 | 1.11 | 0.96 | 1.64 | 2.12 |
| 100862369 | 'Btbd35f9' | 0 | 0 | 0.37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100862375 | 'Entpd4b' | 24.06 | 25.76 | 50.2 | 10 | 20.4 | 40.65 | 61.3 | 21.82 | 38.57 | 9.79 |
| 100862388 | 'Gm21698' | 0.02 | 0 | 0.04 | 0 | 0 | 1.48 | 0 | 0.19 | 0 | 0.13 |
| 100862433 | 'LOC100862433' | 0.64 | 0.31 | 0.53 | 0.48 | 0.24 | 0.57 | 0.17 | 0.14 | 0.62 | 0.7 |
| 100862446 | 'LOC100862446' | 3.32 | 5.97 | 3.97 | 9.91 | 3.6 | 4.79 | 5.61 | 4.73 | 5.57 | 5.58 |
| 100862455 | 'LOC100862455' | 139.1 | 133.1 | 149 | 158 | 138 | 185.6 | 141 | 102.8 | 176.7 | 134.73 |
| 100900 | 'Hscb' | 19.03 | 14.69 | 7.68 | 20.8 | 2.65 | 21.22 | 22.7 | 8.72 | 11.15 | 18.16 |
| 100910 | 'Chpf2' | 18.79 | 14.79 | 22.3 | 3.99 | 28.7 | 5.18 | 19.5 | 27.79 | 6.23 | 26.1 |
| 100929 | 'Tyw1' | 6.73 | 13.43 | 22.4 | 7.51 | 7.86 | 1.55 | 9.09 | 18.69 | 10.09 | 10.19 |
| 100952 | 'Emilin1' | 0 | 0 | 0 | 0 | 4.96 | 0 | 0 | 0 | 1.88 | 0 |
| 100972 | 'Rab28' | 61.19 | 64.4 | 47 | 51.3 | 69.4 | 43.94 | 59.8 | 33.61 | 71.52 | 38.86 |
| 100978 | 'Nfxl1' | 0.39 | 0 | 0.85 | 0.28 | 0.03 | 0.01 | 0 | 0.06 | 1.75 | 0.41 |
| 100986 | 'Akap9' | 11.6 | 12.18 | 8.79 | 15.4 | 12 | 12.74 | 14.1 | 11.98 | 18.34 | 15.94 |
| 101023 | 'Zfp513' | 2.24 | 3.54 | 0.41 | 0 | 0.72 | 1.71 | 0 | 0.16 | 0 | 1.62 |
| 101055630 | '101055630' | 2.88 | 29.63 | 22.3 | 22.3 | 35.1 | 2.85 | 9.06 | 7.23 | 19.1 | 16.37 |
| 101055663 | 'LOC101055663' | 0 | 1.57 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101055671 | 'Lipo2' | 0.18 | 0.13 | 0 | 0 | 0.09 | 0 | 0.03 | 0.29 | 0.67 | 0.09 |
| 101055672 | 'LOC101055672' | 0 | 0 | 0.04 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101055676 | 'LOC101055676' | 0 | 0 | 0.4 | 0 | 0 | 0.47 | 4.46 | 1.17 | 3.47 | 0.11 |
| 101055754 | 'Gm2974' | 1.61 | 0.12 | 0.56 | 0.65 | 1.38 | 0.85 | 0.04 | 2.16 | 0.32 | 1.43 |
| 101055758 | 'LOC101055758' | 0 | 0.9 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101055806 | 'Gm10378' | 0 | 0 | 0.59 | 0 | 0.36 | 0.66 | 0 | 0 | 0 | 0.12 |
| 101055837 | 'Gm38434' | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101055854 | 'Gm29733' | 0.59 | 2.26 | 3.64 | 27.1 | 0 | 0.05 | 6.66 | 1.69 | 2.47 | 0 |
| 101055864 | 'LOC101055864' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.47 | 0 |
| 101055907 | 'Gm15246' | 18.13 | 5.68 | 2.58 | 0 | 11.4 | 1.93 | 5.72 | 5.9 | 2.65 | 7.94 |
| 101055987 | 'Gm29758' | 0.37 | 0.45 | 2.38 | 4.27 | 0.31 | 0 | 0.12 | 0.96 | 0.57 | 0.08 |
| 101056073 | 'Zfp990' | 0 | 0 | 0 | 0 | 0 | 0.14 | 0 | 0 | 0 | 0 |
| 101056102 | 'Gm29779' | 1.47 | 0.24 | 2.11 | 0 | 0 | 0 | 18.3 | 4.31 | 0 | 6.32 |
| 101056115 | 'LOC101056115' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 101056159 | 'LOC101056159' | 0 | 0 | 0.49 | 0 | 1.87 | 0 | 0 | 0.41 | 0 | 0 |
| 101056205 | 'Gm29797' | 0 | 0 | 0 | 0 | 0 | 2.26 | 0 | 0 | 0 | 0 |
| 101056210 | 'Gm28576' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.23 | 0 | 0 |
| 101056241 | 'Gm29808' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101056296 | 'LOC101056296' | 0 | 0.04 | 0 | 0 | 0.08 | 0.03 | 0.06 | 0 | 0 | 0 |
| 101056300 | 'LOC101056300' | 0 | 0.04 | 0 | 0 | 0.08 | 0.03 | 0.06 | 0 | 0 | 0 |
| 101056408 | 'Gm15816' | 0 | 0.16 | 1.11 | 0 | 0 | 0 | 0 | 0.75 | 0 | 0 |
| 101095 | 'Zfp282' | 4.89 | 1.16 | 2.67 | 3.74 | 4.05 | 1.5 | 3.15 | 0.99 | 0 | 0.73 |
| 101100 | 'Tll3' | 5.88 | 7.71 | 9.8 | 4.02 | 13.7 | 8.41 | 1.35 | 0 | 5.53 | 6.25 |
| 101113 | 'Snx21' | 13.5 | 17.56 | 11.6 | 15.4 | 12.1 | 5.67 | 6 | 16.11 | 28.2 | 12.81 |
| 101118 | 'Tmem168' | 3.09 | 2.32 | 0.85 | 1.56 | 5.45 | 0.23 | 0 | 2.77 | 1.82 | 7.43 |
| 101122 | 'Rpusd3' | 11.21 | 12.22 | 10.2 | 7.25 | 5.95 | 17.7 | 15.8 | 3.37 | 21 | 15.78 |
| 101142 | 'lftg2' | 45.61 | 22.18 | 29.7 | 36.8 | 25.7 | 39.82 | 33 | 30.67 | 44.8 | 35.49 |
| 101148 | 'Bmt2' | 4.04 | 0.98 | 0.08 | 1.43 | 1.91 | 0.22 | 0.41 | 0.13 | 1.4 | 2.53 |
| 101185 | 'Pot1a' | 3.53 | 21.54 | 6.26 | 2.41 | 0.96 | 9.41 | 4.48 | 10.82 | 7.36 | 11.75 |
| 101187 | 'Parp11' | 12.75 | 8.97 | 5.25 | 0.01 | 8.97 | 7.47 | 19.9 | 9.29 | 19.9 | 15.74 |
| 101197 | 'Zfp956' | 14.14 | 5.6 | 6.4 | 12.3 | 2.51 | 1.59 | 7.23 | 27 | 15.49 | 10.16 |
| 101202 | 'Hepacam2' | 0 | 0 | 0 | 0 | 0 | 0.77 | 0 | 0.13 | 0 | 0.32 |
| 101206 | 'Tada3' | 13.24 | 35.94 | 15.5 | 31.8 | 37.1 | 20.58 | 20.7 | 29.78 | 20.89 | 24.11 |
| 101214 | 'Tra2a' | 47.29 | 52.49 | 45.5 | 23.8 | 28.9 | 50.22 | 30.7 | 35.3 | 45.01 | 42.99 |
| 101240 | 'Wdr91' | 8.62 | 4.37 | 3.79 | 7.16 | 6.33 | 7.29 | 0.09 | 4.53 | 6.42 | 2.97 |
| 101314 | 'Brk1' | 263.2 | 256.1 | 212 | 200 | 231 | 337.5 | 223 | 188.4 | 160.1 | 242.67 |
| 101351 | 'Eogt' | 7.39 | 0.4 | 7.93 | 6.51 | 4.53 | 0.06 | 0 | 1.33 | 3.22 | 3.15 |
| 101358 | 'Fbxl14' | 1.7 | 0.64 | 0.62 | 0 | 1.34 | 0.8 | 1.61 | 0.6 | 0.75 | 0.03 |
| 101359 | 'Prnt4' | 0 | 0.75 | 2.8 | 1.24 | 1.17 | 0.01 | 2.91 | 0.13 | 0.38 | 0.49 |

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|-----------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 101401 | 'Adamts9' | 0 | 0.41 | 0.02 | 0.03 | 0 | 0.01 | 0 | 0.12 | 0 | 0 |
| 101434 | 'Ceacam15' | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101437 | 'Dhx32' | 15.34 | 21.5 | 8 | 4.87 | 11.4 | 6.95 | 6.74 | 13.65 | 11.54 | 7.37 |
| 101471 | 'Phrf1' | 2.01 | 4.3 | 3.71 | 4.62 | 8.46 | 4.66 | 5.58 | 2.24 | 2.53 | 5.4 |
| 101476 | 'Plekha1' | 16.73 | 9.49 | 9.13 | 12.5 | 4.79 | 6.61 | 11.6 | 10.73 | 13.25 | 8.86 |
| 101488 | 'Slco2b1' | 0 | 0 | 0 | 0 | 0 | 0.8 | 0.36 | 0 | 0.72 | 0 |
| 101488143 | 'Hbb-bt' | 0.16 | 3.37 | 0 | 11.6 | 0 | 0.95 | 0 | 6.67 | 0 | 0 |
| 101489 | 'Ric8a' | 33.55 | 26.76 | 52.2 | 18.9 | 24.5 | 25.11 | 25.9 | 30.53 | 53.87 | 37.61 |
| 101490 | 'Inpp5f' | 65.72 | 66.58 | 111 | 83.1 | 60 | 61.96 | 69.9 | 99.72 | 75.92 | 59.77 |
| 101497 | 'Plekhg2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 101502 | 'Hsd3b7' | 6.46 | 10.78 | 0 | 0.03 | 11.3 | 12.32 | 21.2 | 7.11 | 15.82 | 14.71 |
| 101513 | 'Mob2' | 57.51 | 44.48 | 36 | 9.74 | 65 | 37.94 | 34.4 | 33.43 | 50.42 | 27.33 |
| 101540 | 'Prkd2' | 1.62 | 0.48 | 0.05 | 1.78 | 0.05 | 0 | 7.4 | 0 | 4.31 | 2.43 |
| 101543 | 'Wtip' | 0 | 1.28 | 0.02 | 0 | 0 | 0 | 3.02 | 3.15 | 1.22 | 0 |
| 101544 | 'Zfp575' | 14.44 | 15.32 | 12.4 | 16.8 | 8.52 | 22.63 | 16.6 | 17.64 | 11.09 | 5.24 |
| 101565 | 'Ccp110' | 7.12 | 5.33 | 6.08 | 6.76 | 3.77 | 3.73 | 4.59 | 6.41 | 3.18 | 6.29 |
| 101568 | 'Vrk3' | 31.5 | 21.34 | 33.6 | 43.7 | 28.3 | 35.77 | 22.4 | 22 | 26.79 | 12.27 |
| 101592 | 'Efl1' | 0.78 | 7.45 | 2.02 | 10.5 | 6.74 | 3.32 | 1.89 | 4.68 | 9.44 | 10.24 |
| 101602 | 'Al467606' | 15.69 | 21.1 | 3.82 | 18.2 | 3.97 | 11.35 | 0.05 | 18.8 | 0.07 | 31.64 |
| 101604 | 'E430018J23Rik' | 3.17 | 2.69 | 0 | 5.19 | 1.74 | 7.42 | 6.54 | 5.58 | 9.83 | 7.13 |
| 101612 | 'Grwd1' | 25.33 | 29.4 | 29.9 | 28.8 | 32.5 | 51.24 | 68 | 47.38 | 52.68 | 21.37 |
| 101613 | 'Nlrp6' | 0 | 0 | 0.01 | 0 | 0 | 0.49 | 0 | 0 | 0 | 0 |
| 101631 | 'Pwwp2b' | 0.53 | 0 | 0 | 0 | 8.77 | 7.65 | 0 | 0 | 4.17 | 0 |
| 101685 | 'Spty2d1' | 3.5 | 2.69 | 3.9 | 7.12 | 1.39 | 3.26 | 3.89 | 3.08 | 1.94 | 2.27 |
| 101700 | 'Trim68' | 5.13 | 0 | 0 | 0 | 2.93 | 3.49 | 0 | 2.84 | 0 | 0 |
| 101706 | 'Numa1' | 5.38 | 4.51 | 6.07 | 8.62 | 7.24 | 7.05 | 5.52 | 4.06 | 4.45 | 7.43 |
| 101739 | 'Psip1' | 19.96 | 15.43 | 18.9 | 30.5 | 13.5 | 19.21 | 29 | 18.66 | 31.14 | 11.31 |
| 101744 | 'Acp7' | 0 | 0 | 0 | 0 | 1.22 | 0 | 0 | 0 | 0 | 0 |
| 101772 | 'Ano1' | 0.01 | 0 | 4.07 | 0.1 | 5.52 | 0.09 | 0 | 1.42 | 2.49 | 1.92 |
| 101809 | 'Spred3' | 5.42 | 3.12 | 2.26 | 10 | 3.75 | 4.45 | 5.38 | 3.68 | 5.45 | 2.22 |
| 101831 | 'Faap24' | 2.35 | 1.43 | 3 | 13.6 | 13.8 | 4.5 | 4.28 | 5.43 | 17.93 | 8.58 |
| 101835 | 'AW146154' | 5.5 | 1.92 | 0.88 | 0 | 5.59 | 0 | 0 | 1.14 | 0.4 | 2.32 |
| 101861 | 'Ints4' | 13.61 | 17.42 | 13.7 | 22.4 | 11.1 | 7.19 | 9.68 | 12.17 | 10.21 | 16.35 |
| 101867 | 'Rrp8' | 0 | 8.06 | 8.77 | 10.2 | 9.36 | 5.51 | 3.37 | 12.42 | 7.49 | 2.74 |
| 101869 | 'Unc45a' | 17.52 | 13.72 | 9.56 | 28.3 | 19.9 | 4.53 | 13.6 | 15.23 | 3.61 | 15.18 |
| 101883 | 'Igf1r1' | 4.28 | 6.72 | 5.65 | 6.57 | 14.1 | 4.71 | 4.76 | 3.33 | 4.54 | 5.65 |
| 101943 | 'Sf3b3' | 26.33 | 22.9 | 26.7 | 11.6 | 12.7 | 9.44 | 39 | 23.83 | 19.38 | 29.17 |
| 101966 | 'D8Ertd738e' | 259.7 | 185.4 | 229 | 362 | 293 | 252.4 | 158 | 185.2 | 320.1 | 220.38 |
| 101985 | 'Usb1' | 13.57 | 8.16 | 17.2 | 13.2 | 14.5 | 15.09 | 13.5 | 8.51 | 26.43 | 5.5 |
| 101994 | 'Champ1' | 11.01 | 8.13 | 10.7 | 10.4 | 4.78 | 2 | 11.4 | 5.82 | 8.52 | 17.81 |
| 102032 | 'Smim19' | 47.17 | 31.55 | 27.5 | 38.6 | 23.9 | 74.89 | 98.9 | 18.84 | 31.22 | 29.83 |
| 102058 | 'Exoc8' | 2.64 | 4.33 | 1.6 | 1.29 | 3.81 | 1.33 | 2.97 | 2.88 | 2.91 | 6.6 |
| 102060 | 'Gadd45gip1' | 77.07 | 61.13 | 79.7 | 63.4 | 111 | 90.18 | 80.3 | 83.81 | 98.42 | 74.91 |
| 102075 | 'Plekhg4' | 3.48 | 0.48 | 0.6 | 0 | 0 | 1.66 | 0 | 0.11 | 0 | 2.54 |
| 102093 | 'Phkb' | 7.88 | 4.98 | 1.89 | 5.04 | 7.05 | 2.46 | 5.73 | 4.55 | 9.55 | 2.59 |
| 102098 | 'Arhgef18' | 1.61 | 3.11 | 9.69 | 7.4 | 8.35 | 3.27 | 7.16 | 3.82 | 6.94 | 8.41 |
| 102103 | 'Mtus1' | 18.3 | 10.9 | 3.61 | 2.93 | 10.2 | 1.08 | 6.31 | 17.54 | 6.15 | 6.33 |
| 102115 | 'Dohh' | 82.58 | 117.2 | 109 | 112 | 146 | 169.4 | 150 | 132.5 | 122.3 | 131.81 |
| 102122 | 'Fam192a' | 28.55 | 30.36 | 32.7 | 28.7 | 35.1 | 26.98 | 41.6 | 41.41 | 55.33 | 62.44 |
| 102124 | 'Enkd1' | 12.36 | 18.81 | 13.7 | 2.67 | 19.4 | 4.68 | 28.1 | 10.03 | 7.57 | 3.79 |
| 102141 | 'Snx25' | 2.42 | 4.07 | 4.61 | 1.23 | 0.62 | 0 | 0 | 1.73 | 0.41 | 3.54 |
| 102162 | 'Taf5l' | 1.96 | 3.19 | 5.75 | 4.25 | 3.8 | 0 | 4 | 8.69 | 5.56 | 0 |
| 102182 | 'Prmt9' | 3.61 | 1.87 | 5.83 | 14.1 | 7.7 | 9.17 | 9.44 | 9.54 | 0.37 | 2.98 |
| 102193 | 'Zdhhc7' | 15.83 | 4.93 | 22.4 | 17.1 | 6.26 | 3.05 | 6.37 | 7.92 | 7.5 | 3.89 |
| 102209 | 'Snapc2' | 79.96 | 75.27 | 67.7 | 43.4 | 27.4 | 26.08 | 66.8 | 22.45 | 40.35 | 26.14 |
| 102216272 | 'Ak6' | 37.11 | 18.67 | 29.4 | 25.8 | 40.7 | 37.98 | 30.7 | 38.01 | 15.99 | 31.18 |
| 102247 | 'Gpat4' | 34.93 | 35.56 | 34.9 | 40.4 | 28.5 | 26.85 | 18.8 | 28.11 | 30.57 | 29.01 |
| 102278 | 'Cpne7' | 34.43 | 22.69 | 27.9 | 8.57 | 12.7 | 44.12 | 25.8 | 19.7 | 45.62 | 19.61 |

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|-----------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 102294 | 'Cyp4v3' | 3.93 | 2.24 | 2.2 | 0 | 0 | 0 | 3 | 1.3 | 0 | 0 |
| 102323 | 'Dcun1d2' | 8.79 | 18.15 | 19.3 | 14.1 | 9.1 | 7.31 | 19 | 13.47 | 1.36 | 1.83 |
| 102334 | 'Ankrd10' | 52.39 | 87.11 | 42.9 | 64.6 | 43.9 | 65.46 | 60.2 | 47.88 | 40.73 | 63.75 |
| 102339 | 'Cog4' | 21.31 | 34.77 | 15.5 | 45.6 | 31.4 | 30.99 | 29.8 | 23.5 | 13.95 | 30.08 |
| 102371 | 'Myzap' | 0.08 | 0 | 0.11 | 0.05 | 0.04 | 0.08 | 0.02 | 0.02 | 0.06 | 0.06 |
| 102414 | 'Clk3' | 43.87 | 32.72 | 28.5 | 71 | 32.5 | 18.65 | 10.4 | 50.21 | 31.93 | 30.25 |
| 102423 | 'Hinfp' | 0.58 | 6.58 | 0.62 | 0.01 | 1 | 5.39 | 9.3 | 4.75 | 0.56 | 0.28 |
| 102436 | 'Lars2' | 8.61 | 12.73 | 11.6 | 4.62 | 1.45 | 2.04 | 0.05 | 7.21 | 2.77 | 8.02 |
| 102442 | 'Dennd4a' | 1.12 | 1.5 | 1.96 | 1.23 | 1.79 | 2.05 | 0.23 | 0.89 | 1.79 | 1.26 |
| 102443350 | 'Xndc1' | 8.1 | 3.2 | 5.85 | 5.05 | 5.46 | 6.12 | 6.97 | 2.93 | 0.22 | 4.34 |
| 102443351 | 'Xntrpc' | 0 | 0 | 1.03 | 0 | 0 | 0 | 0 | 0.32 | 0 | 0 |
| 102448 | 'Xylb' | 4.01 | 1.78 | 0.09 | 0.12 | 0.34 | 0.12 | 3.92 | 4.13 | 0.02 | 3.08 |
| 102462 | 'Imp3' | 68.01 | 57.49 | 49.4 | 40.3 | 45.4 | 82.36 | 57.7 | 47.85 | 74.9 | 53.15 |
| 102502 | 'Pls1' | 4.4 | 6.77 | 0.17 | 0.02 | 6.45 | 3.21 | 0 | 0.56 | 1.88 | 1.48 |
| 102545 | 'Cmtm7' | 7.55 | 0 | 0 | 0 | 0 | 13.54 | 0 | 0.4 | 0 | 0 |
| 102566 | 'Ano10' | 13.93 | 11.78 | 4.97 | 3.38 | 18.4 | 17.81 | 19.7 | 16.03 | 18.8 | 18.63 |
| 102570 | 'Slc22a13' | 0 | 1.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0.32 | 0.53 |
| 102580 | 'Alg9' | 11.48 | 3.85 | 13.7 | 2.14 | 1.59 | 0.45 | 7.68 | 3.63 | 8.77 | 2.96 |
| 102595 | 'Plekho2' | 3.67 | 0 | 2.37 | 0 | 1.94 | 0 | 0.14 | 0 | 0 | 0 |
| 102607 | 'Snx19' | 13.42 | 10.1 | 23.5 | 12.5 | 3.91 | 5.56 | 16.6 | 9.06 | 9.64 | 10.2 |
| 102614 | 'Rpp25' | 17.63 | 8.46 | 12.6 | 9.46 | 17.6 | 29.39 | 12.2 | 12.26 | 4.81 | 0 |
| 102626 | 'Mapkapk3' | 2.26 | 2.47 | 0 | 0 | 5.93 | 6.38 | 0 | 0 | 4.1 | 3.48 |
| 102631585 | 'LOC102631585' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 102631705 | 'Gm29975' | 0.52 | 1.92 | 0.27 | 7.48 | 1.67 | 1.24 | 1.24 | 0.07 | 0.72 | 0.69 |
| 102631717 | 'Gm29986' | 0 | 0 | 0 | 0 | 0.15 | 0 | 0 | 0 | 0 | 0 |
| 102631730 | '4930512M02Rik' | 15.33 | 13.17 | 19.3 | 34.6 | 23.4 | 19.79 | 20.8 | 11.33 | 26.32 | 11.93 |
| 102631805 | 'LOC102631805' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 102631909 | 'Gm30124' | 0 | 0.53 | 0 | 0.04 | 0.59 | 0 | 0.79 | 0.16 | 1 | 0 |
| 102632 | 'Acad11' | 3.03 | 7.69 | 0 | 7.38 | 5.63 | 0.82 | 4.7 | 11.56 | 5.13 | 4.46 |
| 102632383 | 'LOC102632383' | 1.5 | 0.45 | 0.05 | 1.88 | 1.39 | 3.2 | 0.24 | 1.22 | 4.45 | 1.24 |
| 102632483 | 'Gm17330' | 0.2 | 0.12 | 0.68 | 0.28 | 0.21 | 0.16 | 0.75 | 0.15 | 2.43 | 0.19 |
| 102632554 | 'Gm30599' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0.53 | 0 | 0 | 0 |
| 102632693 | 'Gm30698' | 0.04 | 0 | 0 | 0 | 0.26 | 0.29 | 0 | 0 | 0.19 | 0.38 |
| 102632737 | 'Gm30732' | 0 | 0 | 0.02 | 3.02 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 102632738 | 'Gm30733' | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102632739 | 'Gm19774' | 0 | 0 | 0.34 | 0.49 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102633032 | '1700064H15Rik' | 0 | 0.02 | 0.06 | 0 | 0.39 | 0 | 0 | 0 | 0.29 | 0 |
| 102633100 | 'Gm7682' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 102633131 | 'Gm31035' | 0 | 0 | 0 | 0 | 0.22 | 0 | 0 | 0 | 0 | 0 |
| 102633156 | 'LOC102633156' | 4.74 | 4.27 | 1.04 | 2.36 | 3.27 | 2.05 | 4.03 | 2.42 | 2.29 | 2.2 |
| 102633301 | 'Gm31160' | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102633345 | 'Gm9922' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 102633458 | 'Gm11100' | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0.3 | 0.08 | 0 |
| 102633498 | 'Gm31309' | 0.63 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102633740 | 'Gm31493' | 0 | 2.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102633750 | 'Gm10130' | 3.81 | 0.17 | 1.54 | 0.11 | 0.16 | 0.04 | 0.11 | 1.78 | 0.19 | 0.09 |
| 102633888 | 'Gm31606' | 0.45 | 0.42 | 1.47 | 1.62 | 2.28 | 1.07 | 1.81 | 1.35 | 1.32 | 0.57 |
| 102633951 | 'Gm31649' | 0 | 0 | 1.03 | 0 | 0 | 0 | 0 | 0.26 | 0 | 0 |
| 102634072 | 'Gm38457' | 0 | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 |
| 102634078 | 'LOC102634078' | 5.97 | 2 | 5.27 | 6.46 | 6.13 | 3.17 | 4.25 | 4.63 | 8.06 | 6.85 |
| 102634296 | 'Gm4779' | 0 | 0.99 | 0 | 2.9 | 3.35 | 1.57 | 0 | 1.63 | 0 | 0 |
| 102634333 | '1110002E22Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102634429 | 'Gm6569' | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 102634529 | 'LOC102634529' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 102634532 | 'Gm3642' | 0 | 0 | 0 | 0.31 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 102634581 | 'LOC102634581' | 0 | 0.75 | 0 | 0 | 0 | 2.01 | 0 | 0 | 2.49 | 0 |
| 102634611 | 'Gm32151' | 0.53 | 0 | 0 | 0.13 | 2.83 | 0 | 5.01 | 1.59 | 1.08 | 4.46 |
| 102634746 | 'Gm13201' | 0 | 0 | 0 | 0 | 0.36 | 0 | 0 | 0.03 | 0 | 0.02 |

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|-----------|-----------------|------|------|------|------|------|------|------|------|------|-------|
| 102634788 | 'Gm32289' | 0 | 0 | 1.41 | 0 | 0.11 | 0.85 | 0 | 0 | 1.18 | 0 |
| 102634841 | 'Gm38469' | 0 | 0 | 0 | 3.89 | 0 | 0 | 0 | 0 | 0.41 | 0 |
| 102634941 | 'Gm29376' | 0.04 | 0 | 0.01 | 0.02 | 0.07 | 0.22 | 0 | 0.46 | 0 | 0 |
| 102635315 | 'Gm32687' | 1.09 | 3.41 | 2.67 | 3.77 | 3.14 | 0.78 | 0 | 4.73 | 4.43 | 0.7 |
| 102635360 | 'Gm32719' | 0.23 | 0 | 0.19 | 0 | 0.08 | 0.09 | 0 | 0.24 | 1.31 | 0.5 |
| 102635385 | 'Gm32742' | 0 | 0 | 0.01 | 1.31 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102635552 | 'Gm32856' | 2.48 | 0.03 | 0.53 | 0.05 | 0.77 | 1.28 | 1.78 | 2.63 | 3.43 | 3.65 |
| 102635694 | 'Gm32966' | 0.55 | 0 | 0.2 | 0 | 0.66 | 0 | 0 | 0 | 0.63 | 0.18 |
| 102635744 | 'Gm28729' | 0.02 | 2.36 | 0 | 0.02 | 0.02 | 0 | 6.72 | 0.24 | 0 | 1.79 |
| 102635781 | 'Gm38481' | 5.19 | 1.78 | 6.68 | 8.69 | 6.74 | 1.55 | 3.66 | 6.69 | 2.47 | 5.57 |
| 102635802 | 'Gm33049' | 0.06 | 0.07 | 0.2 | 0 | 0 | 0 | 0.55 | 0 | 0.3 | 0 |
| 102635879 | '4933407O12Rik' | 1.95 | 0 | 0 | 0 | 0 | 0 | 0.23 | 0 | 0 | 1.08 |
| 102636251 | 'Gm33370' | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 |
| 102636264 | 'Gm33378' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.03 | 0.01 | 2.65 |
| 102636554 | 'Als2cr11b' | 0.28 | 0 | 0 | 0 | 0 | 0.04 | 0.82 | 0 | 0 | 0 |
| 102636690 | 'Gm33691' | 0 | 0 | 0.14 | 3.46 | 0 | 0 | 0 | 0.99 | 0 | 0 |
| 102636907 | 'Gm4275' | 2.12 | 4.13 | 1.68 | 0 | 0.03 | 0 | 3.35 | 0.08 | 2.88 | 2.15 |
| 102636931 | 'Gm33869' | 0.46 | 0.06 | 0.56 | 0.38 | 0.73 | 0 | 0.2 | 0.38 | 0.04 | 2.26 |
| 102637020 | 'Gm33933' | 0.6 | 0.29 | 0.37 | 0 | 0.56 | 0.09 | 0.6 | 1.03 | 0.45 | 0.35 |
| 102637087 | 'Gm33989' | 0.42 | 0.28 | 0.39 | 0.05 | 0.4 | 0.78 | 0.04 | 0.01 | 1.07 | 0.14 |
| 102637099 | 'Gm38495' | 2.77 | 2.37 | 1.19 | 5.67 | 1.23 | 2.79 | 2.7 | 2.06 | 3.79 | 0.91 |
| 102637189 | 'Gm34066' | 0.44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102637366 | 'Gm10037' | 1.14 | 8.23 | 0 | 0 | 7.22 | 1.36 | 0.08 | 5.28 | 13.8 | 3.85 |
| 102637400 | 'Gm34220' | 0.45 | 0.05 | 0.16 | 2.75 | 0.41 | 0.53 | 0.04 | 0.15 | 1.16 | 2.38 |
| 102637572 | 'Gm38499' | 0 | 1.04 | 0.66 | 0 | 0 | 0 | 0 | 0 | 2.36 | 0 |
| 102637593 | 'Gm34362' | 0 | 0 | 1.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102637806 | 'LOC102637806' | 0 | 0 | 0 | 0 | 0.45 | 0 | 0 | 0 | 0 | 0 |
| 102637808 | 'LOC102637808' | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 |
| 102637839 | 'Gm10476' | 0.06 | 0 | 0.24 | 0.28 | 0 | 0 | 0.4 | 0.17 | 0 | 0 |
| 102638047 | 'LOC102638047' | 0 | 0.05 | 0.05 | 0.15 | 0.13 | 0 | 0.16 | 0.04 | 0.07 | 0.12 |
| 102638083 | 'Ccdc188' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.22 | 0.02 | 0 |
| 102638132 | 'Gm34768' | 0 | 0 | 0.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102638268 | '1700014D04Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.68 |
| 102638541 | 'Gm35078' | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102638555 | 'Gm38510' | 0 | 0.15 | 1.44 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102638674 | 'LOC102638674' | 0 | 0 | 0 | 0.31 | 0.03 | 0 | 0 | 0.03 | 0 | 0 |
| 102638847 | 'Gm35315' | 0.25 | 0.34 | 0.57 | 0.29 | 0.4 | 0.07 | 0 | 0.27 | 0.53 | 0.52 |
| 102638882 | 'Gm35339' | 0 | 0.05 | 0.25 | 0 | 0 | 0 | 0.23 | 0.56 | 0 | 0 |
| 102638888 | 'LOC102638888' | 0.8 | 0.91 | 0.04 | 0.67 | 2 | 0.99 | 0.09 | 1.3 | 1.55 | 1.58 |
| 102638918 | 'Gm35364' | 0.73 | 0 | 2.7 | 3.02 | 0.16 | 3.03 | 0 | 0 | 0 | 0.28 |
| 102639021 | 'LOC102639021' | 1.01 | 0.62 | 2.61 | 0.07 | 0.99 | 0 | 1.27 | 0 | 1.61 | 0.22 |
| 102639037 | 'LOC102639037' | 0 | 0 | 0.42 | 0 | 0.68 | 0 | 0 | 0 | 0 | 0 |
| 102639132 | 'Gm21885' | 1.03 | 1.14 | 0.08 | 4.12 | 0.52 | 0.01 | 0.14 | 0.91 | 0.45 | 0.02 |
| 102639178 | 'Gm35549' | 0 | 0 | 0 | 0 | 2.15 | 0 | 0.04 | 0 | 0 | 2.03 |
| 102639229 | 'Gm35588' | 0 | 0 | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102639505 | 'LOC102639505' | 0.35 | 1.36 | 0.94 | 2.67 | 1.04 | 3.4 | 0.49 | 0.96 | 0.3 | 1.01 |
| 102639543 | 'Ifi206' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.23 |
| 102639598 | 'Gm14296' | 0 | 1.6 | 4.83 | 1.6 | 3.22 | 3.15 | 3.28 | 4.06 | 1.89 | 2.61 |
| 102639650 | 'Vamp9' | 0 | 0 | 0.41 | 0 | 0.88 | 1.26 | 0.73 | 0.71 | 0 | 0 |
| 102639653 | 'LOC102639653' | 3.86 | 1.87 | 5.21 | 6.55 | 1.14 | 3.65 | 2.25 | 2.48 | 3.4 | 3.59 |
| 102640043 | 'Gm36210' | 0 | 0.16 | 0 | 0 | 0.06 | 4.49 | 0 | 0 | 0 | 1.63 |
| 102640263 | 'Gm36375' | 0 | 0.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0.79 | 0 |
| 102640268 | 'Gm2956' | 2.03 | 2.19 | 5.69 | 0 | 4.18 | 1.85 | 0.63 | 3.92 | 3.92 | 3.54 |
| 102640292 | '102640292' | 0.43 | 0.46 | 0.76 | 0.72 | 0.37 | 0.11 | 1.03 | 0.63 | 0.03 | 0.15 |
| 102640376 | 'Gm36448' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74 | 0 |
| 102640399 | '102640399' | 7.21 | 7.43 | 8.5 | 12.5 | 17.6 | 5.02 | 14.6 | 8.81 | 3.94 | 10.18 |
| 102640444 | 'Gm36504' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.18 |
| 102640476 | 'Gm36527' | 0.02 | 0.07 | 0.87 | 0.04 | 0.03 | 0.01 | 0.01 | 0.01 | 1.21 | 0.02 |

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|-----------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 102640673 | 'LOC102640673' | 6.31 | 6.23 | 1.19 | 0.04 | 8.99 | 8.39 | 5.53 | 5.14 | 9.91 | 5.63 |
| 102640710 | 'Gm36712' | 1.14 | 3.65 | 0 | 0 | 0 | 0 | 3.14 | 0 | 0 | 0.04 |
| 102640809 | 'Gm36789' | 0 | 0 | 0 | 2.2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102640833 | 'Gm36807' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.38 |
| 102640920 | 'Pvrig' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.23 | 0 |
| 102641028 | 'LOC102641028' | 0 | 0.16 | 1.62 | 1.7 | 1.93 | 0.34 | 0.81 | 0 | 0.46 | 2.05 |
| 102641068 | 'Gm38529' | 0.75 | 0.77 | 1.51 | 1.46 | 0.77 | 0.3 | 2.89 | 0.66 | 2.01 | 0 |
| 102641467 | 'Gm20684' | 0.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102641557 | 'Gm38564' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 102642386 | 'LOC102642386' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102643088 | 'Gm38656' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.23 | 0 |
| 102643210 | 'Gm38664' | 0.02 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102644 | 'Oaf' | 0 | 0.16 | 0 | 0 | 0 | 0 | 3.72 | 0 | 0 | 0 |
| 102657 | 'Cd276' | 3.21 | 2.56 | 6.74 | 7.1 | 0.32 | 7.01 | 0 | 0 | 0.6 | 4.21 |
| 102680 | 'Slc6a20a' | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0.11 |
| 102693 | 'Phldb1' | 8.46 | 1.8 | 4.5 | 6.15 | 5.79 | 5.78 | 5.97 | 0.99 | 0.08 | 1.17 |
| 102747 | 'Lrrc49' | 52.9 | 44.62 | 56.4 | 47.5 | 39.6 | 42.55 | 45.7 | 43.04 | 40.64 | 42.31 |
| 102774 | 'Bbs4' | 57.78 | 61.73 | 80.8 | 47 | 70.1 | 61.78 | 62.4 | 72.05 | 69.92 | 94.01 |
| 102791 | 'Tcta' | 24.06 | 44.14 | 56.5 | 36.4 | 55.9 | 83.1 | 49.7 | 64.73 | 65.05 | 62.56 |
| 102857 | 'Slc6a8' | 0.13 | 0.81 | 2.51 | 4.66 | 4.65 | 7.29 | 0 | 2.26 | 3.25 | 0 |
| 102866 | 'Pls3' | 30.29 | 48.65 | 22.4 | 29.1 | 32.8 | 17.07 | 45.9 | 56.34 | 34.99 | 49.05 |
| 102871 | 'D330045A20Rik' | 1.06 | 6.5 | 3.64 | 14.5 | 1.17 | 6.59 | 0 | 1.09 | 34.4 | 31.51 |
| 102902673 | 'Gm21992' | 2.25 | 0.31 | 2.36 | 1.33 | 0.18 | 0.07 | 0.43 | 8.92 | 0 | 0 |
| 102920 | 'Cenpi' | 0 | 0 | 0 | 0 | 0 | 0.39 | 0.67 | 0 | 0 | 0 |
| 102954 | 'Nudt10' | 39.38 | 60.51 | 18.3 | 27.6 | 36.1 | 34.09 | 35.1 | 21.45 | 43.46 | 11.93 |
| 103080 | 'Sept10' | 2.08 | 1.82 | 0.13 | 0.29 | 0.13 | 0.32 | 0.09 | 0.06 | 2.47 | 0.12 |
| 103098 | 'Slc6a15' | 26.09 | 28.49 | 21.2 | 25.1 | 19.7 | 2.56 | 10.5 | 18.66 | 7.46 | 20.43 |
| 103135 | 'Pan2' | 14.09 | 8.09 | 10.7 | 5.76 | 13 | 5.72 | 7.93 | 5.27 | 9.86 | 9.29 |
| 103136 | 'Pwp1' | 19.77 | 21.52 | 14.9 | 0.02 | 18.7 | 14.92 | 4.19 | 16.49 | 8.04 | 11.44 |
| 103140 | 'Gstt3' | 3.42 | 1.44 | 5.59 | 7.91 | 0.05 | 0.27 | 0 | 0 | 0.23 | 3.56 |
| 103142 | 'Rdh9' | 0.71 | 1.27 | 0.62 | 1.51 | 0.42 | 0.59 | 0.07 | 0.18 | 0.32 | 0.44 |
| 103149 | 'Upb1' | 0 | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 2.26 | 1.73 |
| 103172 | 'Chchd10' | 566.5 | 351.1 | 663 | 414 | 566 | 928.6 | 544 | 543.4 | 580.3 | 380.55 |
| 103199 | 'Fig4' | 16.08 | 14.81 | 25.3 | 10.4 | 19 | 17.24 | 13.8 | 25.1 | 14.31 | 17.58 |
| 103213 | 'Traf3ip2' | 10.85 | 0.85 | 2.75 | 0.08 | 2.25 | 4.93 | 0.02 | 1.83 | 0.34 | 2.66 |
| 103220 | 'Ttc41' | 6.04 | 7.59 | 4.18 | 5.59 | 2.59 | 6.58 | 3.2 | 6.13 | 6.26 | 8.62 |
| 103236 | 'Csnk1g2' | 4.98 | 10.82 | 4.83 | 6.72 | 4.35 | 9.56 | 3.89 | 4.16 | 4.68 | 4.18 |
| 103266 | 'Tmem263' | 31.31 | 30.35 | 13.8 | 14 | 19.7 | 8.63 | 16.5 | 16.97 | 6.03 | 17.98 |
| 103268 | 'Cep5711' | 3.72 | 0.95 | 1.53 | 5.56 | 0 | 10.4 | 0 | 5.06 | 0.84 | 1 |
| 103284 | 'Zc3h10' | 11.53 | 14.06 | 0.13 | 10.7 | 11.6 | 2.97 | 8.81 | 13.02 | 11.83 | 16.25 |
| 103406 | 'Zfr2' | 15.94 | 13.77 | 38 | 7.71 | 21.5 | 10.51 | 27.8 | 5.9 | 24.91 | 6.6 |
| 103425 | 'Ncln' | 17.68 | 16.52 | 17.7 | 17.7 | 22.5 | 10.68 | 15.3 | 14.67 | 9.81 | 8.3 |
| 103466 | 'Nt5dc3' | 2.18 | 1.76 | 1.78 | 3.39 | 2.64 | 0.75 | 1.29 | 0.74 | 4.15 | 0.16 |
| 103468 | 'Nup107' | 2.8 | 9.94 | 8.64 | 14.2 | 7.77 | 3.56 | 7.08 | 6.74 | 5.89 | 8.26 |
| 103511 | 'Calhm5' | 14.02 | 0 | 3.22 | 0 | 0.03 | 7.79 | 8.26 | 6.73 | 9.08 | 3.19 |
| 103534 | 'Mgat4b' | 1.26 | 2.26 | 3.35 | 1.73 | 1.43 | 0.02 | 4.62 | 0.13 | 3.92 | 0 |
| 103537 | 'Mbt1' | 1.77 | 3.03 | 1.28 | 3.03 | 1.7 | 0.85 | 3.69 | 2.28 | 5.75 | 1.25 |
| 103554 | 'Psme4' | 2.09 | 0.35 | 1.14 | 4.17 | 2.04 | 0.18 | 2.2 | 0.72 | 2.22 | 0.34 |
| 103573 | 'Xpo1' | 7.7 | 7.98 | 9.15 | 10 | 4.05 | 2.27 | 8.87 | 4.95 | 22.3 | 11.41 |
| 103583 | 'Fbxw11' | 21.53 | 23.4 | 14.3 | 29.3 | 19.6 | 19.87 | 12.7 | 18.6 | 21.11 | 15.32 |
| 103611158 | 'Gm38666' | 0.16 | 1.9 | 0.57 | 1.27 | 1.08 | 0 | 0 | 0 | 2.06 | 1.61 |
| 103611159 | 'Gm38667' | 3.78 | 2.94 | 0.57 | 0 | 0 | 7.69 | 0 | 1 | 1.21 | 4.4 |
| 103677 | 'Smg6' | 8.21 | 5.73 | 5.9 | 5.03 | 5.99 | 3.77 | 4.71 | 6.02 | 4.54 | 6.58 |
| 103694 | 'Tmed4' | 206.3 | 235.8 | 118 | 103 | 207 | 255.2 | 138 | 202.3 | 232.9 | 312.91 |
| 103710 | 'Slc35e4' | 20.96 | 19.35 | 32 | 22.5 | 10.2 | 15.84 | 35.9 | 5.3 | 11.48 | 15.79 |
| 103711 | 'Pnpo' | 30.56 | 65.05 | 73 | 42.4 | 102 | 105.1 | 109 | 76.55 | 73.98 | 109.16 |
| 103712 | '6330403K07Rik' | 2128 | 2232 | 1902 | 2417 | 1864 | 2283 | 1669 | 2821 | 1733 | 1767.71 |
| 103724 | 'Tbc1d10a' | 14.76 | 11.9 | 2.35 | 32.9 | 12.2 | 4.62 | 33.2 | 16.8 | 23.17 | 10.27 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 103733 | 'Tubg1' | 95.7 | 81.97 | 80.2 | 50.6 | 88.3 | 138.7 | 65.4 | 82.56 | 98.99 | 79.38 |
| 103737 | 'Pex12' | 13.59 | 8.83 | 8.98 | 16.8 | 9.26 | 5.99 | 14.7 | 3.37 | 8.6 | 17.01 |
| 103742 | 'Mien1' | 186.6 | 190.8 | 125 | 313 | 207 | 244.5 | 198 | 212 | 189.6 | 199.52 |
| 103743 | 'Tmem98' | 4.28 | 2.59 | 0 | 0 | 4.67 | 9.65 | 0 | 1.67 | 0 | 2.21 |
| 103765 | 'Tmem17' | 16.74 | 28.92 | 16.1 | 38.1 | 22 | 21.07 | 28.5 | 10.96 | 34.84 | 34.54 |
| 103768 | 'Tubg2' | 115.8 | 110.5 | 94.5 | 52.5 | 112 | 186.6 | 166 | 140.1 | 102.6 | 106.61 |
| 103775 | 'Slc25a41' | 0.91 | 0 | 0 | 0 | 0.08 | 0 | 0 | 0 | 0.31 | 0 |
| 103784 | 'Wdr92' | 13.97 | 10.2 | 7.41 | 5.75 | 3.49 | 5.78 | 10.8 | 8.09 | 11.02 | 7.5 |
| 103806 | 'Mam11' | 0.04 | 0.6 | 1.51 | 1.98 | 0.01 | 0 | 1.14 | 0 | 0.54 | 0.02 |
| 103836 | 'Zfp692' | 8.41 | 17.58 | 30.6 | 13.3 | 34.6 | 30 | 34.7 | 23.81 | 28.67 | 29.61 |
| 103841 | 'Cuedc1' | 1.01 | 1.61 | 1.63 | 6.92 | 3.86 | 1.76 | 0.43 | 2.35 | 0.83 | 1.13 |
| 103844 | 'Inca1' | 7.39 | 7.98 | 3.84 | 12.8 | 4.23 | 13.05 | 4.81 | 1.05 | 23.92 | 1.24 |
| 103850 | 'Nt5m' | 76.17 | 22.63 | 46.1 | 34.7 | 38.2 | 60.65 | 46.8 | 40.21 | 43.18 | 37.66 |
| 103963 | 'Rpn1' | 97.51 | 104 | 109 | 102 | 77.1 | 90.14 | 72.8 | 88.32 | 130.6 | 119.84 |
| 103967 | 'Dnm3' | 33.3 | 24.7 | 30.1 | 20.5 | 29.1 | 33.57 | 31 | 19.82 | 33.26 | 16.95 |
| 103978 | 'Gpc5' | 17.52 | 24.62 | 9.49 | 47.1 | 20.5 | 8.6 | 10.6 | 9.58 | 8.52 | 3.66 |
| 103988 | 'Gck' | 51.48 | 37.42 | 7 | 51.7 | 41.5 | 25.71 | 15.7 | 41.67 | 9.71 | 30.97 |
| 104001 | 'Rtn1' | 2015 | 1769 | 1793 | 1658 | 1607 | 2163 | 2174 | 1868 | 1602 | 1622.46 |
| 104009 | 'Qsox1' | 23.8 | 22.66 | 39 | 20.6 | 29.2 | 15.93 | 27.1 | 23.9 | 28 | 31.3 |
| 104010 | 'Cdh22' | 4.43 | 7.38 | 22.2 | 0.67 | 0.03 | 1.05 | 3.28 | 4.46 | 0 | 0.62 |
| 104015 | 'Synj1' | 19.87 | 16.43 | 28.1 | 37.6 | 17.8 | 13.99 | 24.3 | 24.28 | 26.18 | 26.01 |
| 104027 | 'Synpo' | 1.08 | 0.7 | 0.02 | 1.52 | 4.95 | 0.04 | 6.25 | 1.63 | 3.17 | 3.23 |
| 104069 | 'Sncb' | 77.32 | 69.28 | 144 | 32.7 | 153 | 89.79 | 156 | 145.4 | 198.1 | 92.42 |
| 104079 | 'Nxph3' | 0 | 0.07 | 0 | 1.2 | 0 | 0 | 0 | 0.48 | 0 | 0 |
| 104080 | 'Nxph4' | 5.01 | 0.55 | 0.06 | 0.65 | 25.9 | 102.6 | 0.03 | 0 | 239.2 | 64.88 |
| 104082 | 'Wdr7' | 8.49 | 7.91 | 23 | 10.2 | 8.48 | 5.38 | 19.3 | 6.94 | 11.71 | 15.11 |
| 104086 | 'Cyp27a1' | 3.94 | 2.8 | 4.37 | 0 | 2.84 | 2.76 | 0 | 0 | 0 | 0.02 |
| 104099 | 'Itga9' | 0 | 0 | 1.37 | 0 | 0 | 0 | 0 | 0.68 | 0 | 0 |
| 104111 | 'Adcy3' | 7.11 | 6.05 | 5.8 | 2.59 | 4.58 | 2.02 | 5.81 | 2.53 | 9.83 | 2.71 |
| 104112 | 'Acly' | 43.01 | 36.55 | 54.7 | 67 | 38.7 | 6.65 | 56.8 | 42.96 | 60.69 | 84.07 |
| 104130 | 'Ndufb11' | 260.4 | 234.8 | 212 | 170 | 311 | 437.4 | 244 | 248.1 | 251.7 | 287.2 |
| 104156 | 'Etv5' | 7.21 | 9.96 | 8.45 | 12.1 | 3.49 | 5.22 | 8.3 | 3.99 | 14.26 | 10.27 |
| 104158 | 'Ces1d' | 0.04 | 4.9 | 0.02 | 0.06 | 0 | 6.14 | 0 | 0 | 0.02 | 1.69 |
| 104174 | 'Gldc' | 0 | 0.95 | 1.25 | 3.42 | 0 | 0.02 | 0 | 0 | 0.67 | 0.5 |
| 104175 | 'Sbk1' | 0.02 | 0 | 0.01 | 0 | 0.08 | 0 | 1.45 | 1.36 | 0 | 0.07 |
| 104184 | 'Blmh' | 69.42 | 57.74 | 51.3 | 49.5 | 53.8 | 73.95 | 89.3 | 67.11 | 58.49 | 61.98 |
| 104215 | 'Rhoq' | 1.05 | 2.92 | 0.74 | 0.01 | 1.32 | 0.67 | 0.13 | 0 | 5.81 | 1.51 |
| 104248 | 'Cabin1' | 9.01 | 5.64 | 7.81 | 7.05 | 8.85 | 3.46 | 21.4 | 11.05 | 7.36 | 11.67 |
| 104252 | 'Cdc42ep2' | 6.29 | 7.21 | 16.3 | 0 | 11.1 | 7.4 | 0 | 5.15 | 4.2 | 4.2 |
| 104263 | 'Kdm3a' | 2.18 | 5.56 | 3.28 | 2.87 | 2.44 | 3.2 | 6.67 | 5.58 | 7.88 | 8.92 |
| 104271 | 'Tex15' | 2.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 104303 | 'Arl1' | 108.7 | 104.4 | 117 | 90.1 | 123 | 121 | 102 | 145.7 | 156.8 | 113.14 |
| 104318 | 'Csnk1d' | 19.27 | 31.7 | 26.7 | 43.3 | 12.7 | 21.58 | 29 | 26.39 | 27.01 | 18.25 |
| 104346 | 'Gas8' | 39.19 | 13.81 | 13.6 | 36.6 | 14.7 | 50.79 | 18.9 | 36.72 | 28.7 | 19.33 |
| 104348 | 'Zfp120' | 2.72 | 3.57 | 1.01 | 0.01 | 3.75 | 0.06 | 1.99 | 2.08 | 1.21 | 6.07 |
| 104349 | 'Zfp119a' | 0 | 0.14 | 2.58 | 0.12 | 2.4 | 1.78 | 0 | 1.58 | 4.03 | 1.02 |
| 104362 | 'Meig1' | 16.07 | 33.09 | 10.6 | 8.61 | 20.1 | 30.77 | 16.2 | 24.82 | 7.02 | 61.82 |
| 104382 | 'Barhl2' | 0 | 0 | 0 | 0 | 3.37 | 3.66 | 0.15 | 1.19 | 0 | 0.68 |
| 104383 | 'Rcor2' | 0 | 0.74 | 1.51 | 0.45 | 0 | 1.3 | 0 | 2.75 | 0.13 | 0 |
| 104394 | 'E2f4' | 2.08 | 5.65 | 6.5 | 11.5 | 4.23 | 0.09 | 3.17 | 2.94 | 1.49 | 0.43 |
| 104401 | 'Pcnx3' | 1.45 | 0.64 | 1.98 | 1.82 | 1.44 | 2.63 | 1.07 | 1.68 | 0.17 | 0.71 |
| 104416 | 'Bap1' | 46.18 | 40.45 | 56.6 | 17.4 | 34.2 | 34.16 | 51.9 | 55.01 | 60.65 | 70.51 |
| 104418 | 'Dgkz' | 2.33 | 1.49 | 7.76 | 13.3 | 9.81 | 1.92 | 8.77 | 1.17 | 10.14 | 2.07 |
| 104443 | 'Npffr2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 0 | 0 |
| 104444 | 'Rexo2' | 68.56 | 44.16 | 49.9 | 122 | 70.4 | 65.83 | 43 | 44.25 | 86.16 | 30.41 |
| 104445 | 'Cdc42ep1' | 7.41 | 9.57 | 2.94 | 11.9 | 0.04 | 26.55 | 8.48 | 2.16 | 3.91 | 0 |
| 104457 | '0610010K14Rik' | 54.74 | 84.3 | 52 | 36.3 | 84.2 | 93.57 | 76.8 | 38 | 55.79 | 94.96 |
| 104458 | 'Rars' | 42.52 | 32.56 | 47.4 | 36.7 | 36.5 | 45.98 | 45.3 | 30.62 | 44.92 | 43.58 |

| | | | | | | | | | | | |
|-----------|----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 104479 | 'Ccdc117' | 3.88 | 0.45 | 0.89 | 7.12 | 2.05 | 1.11 | 2.14 | 0.02 | 0.06 | 0.95 |
| 104570 | 'Ppp4r3b' | 7.54 | 11.53 | 8.85 | 7.24 | 6.8 | 9.87 | 6.46 | 10.34 | 7.42 | 11.98 |
| 104582 | 'Rprm1' | 19.43 | 11.04 | 12.7 | 13 | 66.1 | 74.66 | 19.9 | 23.76 | 0.04 | 0 |
| 104601 | 'Mycbpap' | 1.87 | 5.08 | 1.16 | 0 | 8.18 | 7.51 | 2.63 | 4.04 | 8.16 | 7.46 |
| 104625 | 'Cnot6' | 1.65 | 0.73 | 0.39 | 4.38 | 3.06 | 0.2 | 0.02 | 2.81 | 2.4 | 1.99 |
| 104662 | 'Tsr1' | 5.29 | 11.43 | 5.76 | 6.89 | 12.5 | 16.6 | 6.08 | 4.8 | 7.98 | 7.32 |
| 104681 | 'Slc16a6' | 0.57 | 1.56 | 1.18 | 0 | 0.51 | 5.38 | 7.35 | 0.25 | 0.4 | 14.46 |
| 104709 | 'Pik3r6' | 0 | 0 | 0 | 0 | 1.59 | 0 | 0 | 0 | 0 | 0 |
| 104718 | 'Ttc7b' | 6.19 | 3.3 | 10.6 | 8.81 | 11.4 | 6.52 | 0.78 | 7.06 | 7.88 | 4.51 |
| 104721 | 'Ddx1' | 92.05 | 60.29 | 104 | 71 | 43.2 | 56.7 | 98.6 | 79.51 | 114.2 | 121.86 |
| 104725 | 'Sptssa' | 63.02 | 76.72 | 43.3 | 129 | 78.9 | 55.44 | 28.2 | 68.59 | 33.24 | 78.45 |
| 104732 | 'Tedc1' | 4.91 | 0 | 0.25 | 0 | 0 | 0 | 1.22 | 0 | 0 | 2.43 |
| 104759 | 'Pld4' | 0 | 0 | 0 | 0 | 0.05 | 13.97 | 12.9 | 0 | 5.17 | 0 |
| 104771 | 'Jkamp' | 163.9 | 121.1 | 109 | 133 | 149 | 173.4 | 122 | 159.6 | 182.4 | 170.56 |
| 104776 | 'Aldh6a1' | 32.11 | 22.07 | 22.5 | 17.3 | 21.4 | 17.32 | 39.1 | 18.36 | 24.08 | 16.62 |
| 104799 | 'Vipas39' | 39.6 | 22.94 | 36.3 | 20.3 | 32.8 | 17.84 | 8.7 | 38.88 | 23.16 | 22.51 |
| 104806 | 'Fancm' | 0.17 | 1.63 | 1.23 | 0 | 3.72 | 0.01 | 4.05 | 0.14 | 0.96 | 0.91 |
| 104816 | 'Aspg' | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 |
| 104831 | 'Ptpn23' | 11.31 | 3.73 | 1.6 | 5.5 | 2.03 | 3.62 | 1.36 | 2.49 | 8.62 | 5.3 |
| 104836 | 'Cbl1' | 4.02 | 4.2 | 7.36 | 0 | 4.41 | 4.26 | 2.64 | 8.66 | 10.43 | 4.01 |
| 104859 | 'Tecpr2' | 0.34 | 1.21 | 2.98 | 3.16 | 3.96 | 0.83 | 0 | 0.32 | 0.72 | 0.94 |
| 104871 | 'Spat7' | 17.49 | 9.73 | 14.9 | 11.6 | 10.2 | 13.17 | 24 | 10.91 | 15.44 | 4.2 |
| 104884 | 'Tdp1' | 12.32 | 9.06 | 27.3 | 22.9 | 8.57 | 0.04 | 16.7 | 5.96 | 10.76 | 12.15 |
| 104885 | 'Tmem179' | 265.7 | 288.8 | 291 | 86.2 | 275 | 264 | 316 | 256.4 | 214.6 | 241.38 |
| 104886 | 'Rab15' | 11.39 | 8.87 | 12.1 | 27.8 | 12.2 | 0 | 20.6 | 8.39 | 17.71 | 6.2 |
| 104910 | 'Slc25a47' | 0 | 2.12 | 0.74 | 0 | 7.75 | 3.13 | 3.36 | 8.86 | 0 | 0.71 |
| 104923 | 'Adi1' | 27.28 | 54.6 | 54.7 | 11.9 | 38.3 | 43.01 | 48.4 | 44.52 | 15.75 | 57.94 |
| 105000 | 'Dnal1' | 3.92 | 1.99 | 3.62 | 0.05 | 6.3 | 5.59 | 1.16 | 0.8 | 4.02 | 1.81 |
| 105005 | 'Fam84a' | 49.54 | 29.65 | 27.7 | 19.5 | 5.6 | 16.1 | 27.8 | 84.69 | 16.98 | 2.7 |
| 105014 | 'Rdh14' | 32.29 | 32.49 | 34.2 | 21.9 | 26.6 | 32.03 | 24.2 | 29.17 | 40.67 | 33.32 |
| 105083 | 'Pelo' | 3.09 | 0.12 | 0.06 | 0 | 2.82 | 5.56 | 1.32 | 1.6 | 4.8 | 3.54 |
| 105148 | 'lars' | 18.61 | 11.09 | 20.1 | 3.96 | 7.05 | 4.15 | 21 | 19.75 | 14.22 | 14.74 |
| 105171 | 'Arrdc3' | 3.64 | 6.78 | 6.07 | 0.11 | 4.63 | 5.26 | 5.24 | 2.78 | 1.03 | 6.79 |
| 105180375 | 'Tmem265' | 2 | 0.36 | 0.81 | 0 | 6.96 | 2.15 | 0 | 1.04 | 0.5 | 4.01 |
| 105193 | 'Nhlrc1' | 12.44 | 4.82 | 5.54 | 16.2 | 1.63 | 0.02 | 4.94 | 11.5 | 15.09 | 4.07 |
| 105203 | 'Fam208b' | 3.92 | 3.25 | 4.74 | 7.91 | 3.19 | 2.51 | 2.39 | 2.13 | 1.99 | 1.5 |
| 105239 | 'Rnf44' | 7.73 | 2.24 | 8.41 | 1.14 | 4.96 | 3.98 | 11.1 | 8.94 | 9.63 | 9.81 |
| 105242399 | 'Gm21083' | 0 | 0.29 | 0 | 0 | 0.5 | 0.55 | 0.05 | 0.12 | 0 | 0 |
| 105242416 | '105242416' | 0 | 0.03 | 0.06 | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 |
| 105242418 | 'Gm38690' | 3.94 | 1.29 | 1.8 | 0 | 4.34 | 0.53 | 0.65 | 2.79 | 7.01 | 4.73 |
| 105242430 | 'Gm38699' | 1.21 | 0.3 | 0.75 | 3.19 | 0.33 | 0.74 | 0.43 | 1.28 | 1.48 | 0.22 |
| 105242433 | 'Gm38702' | 0.65 | 0.73 | 1.92 | 0.25 | 0.97 | 0.37 | 1.61 | 0.44 | 1.31 | 0.4 |
| 105242435 | 'Gm38704' | 0.05 | 0 | 0.47 | 0.14 | 0.08 | 0 | 0.17 | 0.13 | 0.25 | 0.18 |
| 105242449 | 'LOC105242449' | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0.06 | 0 |
| 105242453 | 'LOC105242453' | 0.08 | 0.41 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105242736 | 'LOC105242736' | 0.21 | 0.08 | 0.72 | 3.82 | 0 | 0.08 | 0.17 | 0.47 | 0.94 | 0.07 |
| 105242930 | 'Gm39002' | 0 | 0 | 0.05 | 0 | 0 | 0.17 | 0 | 0 | 0.54 | 0 |
| 105243090 | 'LOC105243090' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.53 |
| 105243585 | 'Gm39469' | 8.4 | 8.26 | 17.8 | 18.5 | 17.6 | 7.15 | 10.2 | 20.68 | 18.68 | 17.34 |
| 105243944 | 'Gm39653' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.56 | 0 | 0 |
| 105244006 | 'Gm39701' | 0.25 | 0.27 | 0.3 | 0.87 | 0.36 | 0.71 | 1.72 | 0.43 | 0.38 | 0.92 |
| 105244063 | 'Gm39743' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 |
| 105244392 | 'Gm40011' | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 105244402 | 'LOC105244402' | 0.41 | 0.42 | 0.04 | 5.2 | 0 | 0 | 0 | 1 | 1.36 | 0.37 |
| 105244808 | 'Gm40353' | 0 | 0.04 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105244826 | 'Gm40363' | 7.91 | 7.84 | 13.6 | 9.98 | 8.91 | 4.58 | 2.39 | 9.46 | 7.15 | 9.15 |
| 105244829 | 'Gm40365' | 1.42 | 0.55 | 0.49 | 0 | 0 | 0 | 0.4 | 0 | 1.8 | 0.74 |
| 105244832 | 'Gm40368' | 9.18 | 5.1 | 8.24 | 7.62 | 8.09 | 12.76 | 8.98 | 7.78 | 14.43 | 7.34 |

| | | | | | | | | | | | |
|-----------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 105244833 | 'Gm40369' | 0.07 | 0 | 0 | 0 | 0 | 0 | 2.78 | 0.18 | 0 | 0 |
| 105244844 | 'Gm40378' | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0.06 | 0 |
| 105244925 | 'Gm40447' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105244931 | 'Gm40453' | 0.55 | 0.34 | 0 | 0.13 | 0.55 | 1.09 | 0 | 0 | 0 | 0 |
| 105244938 | 'Gm40460' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 |
| 105244980 | 'Gm40498' | 0 | 0.02 | 0.31 | 0.01 | 0 | 0.76 | 0 | 0.04 | 0 | 0.13 |
| 105244999 | 'Gm40514' | 0 | 0 | 0.02 | 0 | 0 | 0.03 | 0 | 0 | 0.03 | 0 |
| 105245 | 'Txndc5' | 20.2 | 19.62 | 16.4 | 46.8 | 6.94 | 8.82 | 39.4 | 22.62 | 50.07 | 8.62 |
| 105245043 | 'LOC105245043' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.85 |
| 105245047 | 'Gm40556' | 0.62 | 0 | 0.15 | 0 | 0 | 0 | 0 | 0 | 2.18 | 0 |
| 105245097 | 'Gm40595' | 0.03 | 0.56 | 0.82 | 0 | 0.22 | 2.25 | 0.79 | 0.34 | 0.74 | 0.61 |
| 105245106 | 'Gm40600' | 0 | 0 | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 |
| 105245236 | 'LOC105245236' | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 | 0.29 |
| 105245342 | 'Gm40814' | 4.07 | 4.06 | 3.38 | 5.87 | 3.56 | 0 | 3.31 | 0.46 | 0.52 | 3.82 |
| 105245353 | 'Gm40824' | 0.57 | 0.79 | 1.45 | 2.49 | 0.44 | 0.47 | 0.41 | 0.81 | 0.53 | 0.79 |
| 105245369 | 'Gm40835' | 0.11 | 0.07 | 0 | 0 | 0.02 | 0 | 1.41 | 0.11 | 0 | 0 |
| 105245381 | 'Gm40847' | 0.05 | 0.4 | 1.31 | 0.04 | 0.23 | 0.44 | 1.26 | 0.7 | 0.75 | 0.3 |
| 105245383 | 'Gm40848' | 1.21 | 1.97 | 1.67 | 1.38 | 1.94 | 0.91 | 4.39 | 1.42 | 2.35 | 1.13 |
| 105245389 | 'Gm40853' | 1.79 | 2.82 | 3.56 | 0.93 | 5.22 | 0 | 4.92 | 2.66 | 9.13 | 1.14 |
| 105245400 | 'Gm40862' | 0.42 | 0 | 0.08 | 0 | 0.36 | 0.12 | 0.13 | 0.14 | 0.39 | 0.06 |
| 105245402 | 'Gm40864' | 0.05 | 0.02 | 0.07 | 0 | 0 | 0.05 | 0.39 | 0 | 0.64 | 0 |
| 105245406 | 'LOC105245406' | 0 | 0.1 | 0 | 0 | 0.12 | 0 | 0 | 0.03 | 0.93 | 0.03 |
| 105245424 | 'Gm40881' | 0.13 | 0.05 | 0.25 | 0.43 | 0.07 | 0 | 0.21 | 0.11 | 0.06 | 0.04 |
| 105245547 | 'Gm40991' | 0 | 0 | 0 | 0 | 0 | 0.09 | 0.13 | 0 | 0.04 | 0 |
| 105245580 | 'A930018O16Rik' | 5.06 | 2.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105245604 | 'Gm41035' | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0.11 | 0 | 0 |
| 105245668 | 'Gm26650' | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0.14 | 1.25 | 0 |
| 105245673 | 'LOC105245673' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 |
| 105245675 | 'LOC105245675' | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105245682 | 'Gm41099' | 0 | 0.02 | 0.13 | 0 | 0 | 0.26 | 0.18 | 0 | 0.17 | 0 |
| 105245737 | 'LOC105245737' | 0 | 0 | 0.5 | 0 | 0.45 | 0 | 0 | 0 | 0 | 0.01 |
| 105245911 | 'Gm41291' | 2.02 | 0.78 | 3.05 | 3.14 | 4.84 | 0.82 | 4.46 | 5.15 | 0.97 | 3.32 |
| 105246 | 'Brd9' | 14.44 | 33.64 | 34.8 | 18.8 | 24.5 | 42.98 | 16.3 | 29.9 | 31.87 | 30.96 |
| 105246138 | 'Gm41476' | 0 | 0 | 0.07 | 0 | 0 | 0.05 | 0 | 0.19 | 0 | 0 |
| 105246320 | 'Gm26637' | 0 | 0.05 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 1.14 |
| 105246512 | 'Gm41793' | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105246572 | 'Gm41844' | 2.12 | 1.54 | 2.77 | 1.93 | 2.02 | 1.98 | 2.28 | 0.62 | 0.7 | 2.63 |
| 105246807 | 'Gm42031' | 0.05 | 0 | 0.82 | 0 | 0 | 0.95 | 0 | 0 | 0.01 | 0.39 |
| 105246811 | '105246811' | 54.78 | 67.56 | 62.7 | 30.3 | 45 | 53.67 | 46.9 | 40.24 | 60.55 | 83.89 |
| 105246828 | 'Gm42052' | 1.23 | 0.81 | 1.54 | 1.68 | 0.65 | 2.08 | 0.71 | 0.66 | 4.48 | 1.35 |
| 105246872 | 'Gm42078' | 0 | 0 | 0 | 0.07 | 0 | 0 | 2.23 | 0 | 0 | 0.7 |
| 105246961 | 'AB010352' | 0.22 | 2.56 | 0.04 | 0.59 | 1.05 | 0.01 | 2.17 | 0.03 | 0.38 | 2.27 |
| 105246978 | 'Gm42166' | 0.16 | 0.43 | 0.39 | 1.2 | 0.69 | 0.2 | 0.25 | 0.15 | 0.32 | 0.15 |
| 105247075 | 'LOC105247075' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83 | 0 |
| 105247125 | '105247125' | 0 | 0 | 0 | 0 | 0 | 0 | 1.54 | 0 | 0 | 0 |
| 105247180 | 'Gm42323' | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105247240 | 'Gm42372' | 10.72 | 10.62 | 12.8 | 14.1 | 13.4 | 13.38 | 13.7 | 9.93 | 3.77 | 17.61 |
| 105247297 | 'LOC105247297' | 0 | 0 | 0.06 | 0 | 0 | 0.03 | 0.03 | 0 | 0 | 0 |
| 105278 | 'Cdk20' | 24.59 | 16.29 | 28.8 | 8.94 | 9.73 | 41.51 | 46.6 | 17.46 | 5.79 | 11.93 |
| 105298 | 'Epd1' | 204.1 | 200.3 | 165 | 160 | 107 | 153.4 | 126 | 108.7 | 262 | 110.39 |
| 105348 | 'Golm1' | 2.82 | 1.65 | 0.91 | 0 | 1.46 | 10 | 0 | 0 | 0.14 | 0 |
| 105351 | 'AW209491' | 34.32 | 45.07 | 45.8 | 40.6 | 43.8 | 47.05 | 40.9 | 63.9 | 73.51 | 72.53 |
| 105352 | 'Dusp22' | 21 | 20.98 | 18.5 | 6.9 | 17.5 | 6.95 | 10.5 | 14.28 | 10.07 | 12.2 |
| 105372 | 'Utp15' | 8.99 | 8.89 | 15.1 | 19.3 | 7.38 | 3.69 | 8.84 | 8.87 | 4.21 | 13.6 |
| 105377 | 'Sif1' | 3.17 | 1.64 | 1.14 | 5.96 | 3.13 | 4.3 | 4.02 | 5.35 | 3.12 | 8.23 |
| 105418 | 'E330034G19Rik' | 0.03 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105428 | 'Fam149b' | 9.01 | 5.03 | 0.08 | 6.38 | 2.08 | 9.83 | 0 | 1.62 | 3.44 | 2.74 |
| 105439 | 'Slain1' | 1.82 | 2.69 | 0.37 | 5.85 | 2.07 | 0 | 0 | 0.1 | 3.07 | 2.96 |

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|-----------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 105440 | 'Kctd9' | 0.44 | 2.83 | 0.96 | 2.26 | 4.09 | 0.03 | 0.03 | 2.59 | 0 | 5.58 |
| 105445 | 'Dock9' | 3.62 | 1.94 | 4.31 | 6.28 | 1.07 | 1.89 | 4.56 | 5.77 | 2.48 | 0.46 |
| 105446 | 'Gmpr2' | 39.34 | 26.15 | 25.1 | 24.9 | 30 | 46.51 | 23.2 | 30.03 | 34.18 | 34.68 |
| 105450 | 'Mmrrn2' | 0.47 | 0.05 | 0 | 0.95 | 0 | 0 | 0 | 0.57 | 0.15 | 0 |
| 105501 | 'Abhd4' | 19.98 | 13.62 | 25.6 | 9.84 | 5.55 | 59.4 | 7.28 | 12.9 | 23.02 | 12.85 |
| 105504 | 'Exoc5' | 11.06 | 6.68 | 14.4 | 13.8 | 5.87 | 4.89 | 3.82 | 9.58 | 10.83 | 0.37 |
| 105513 | 'Chmp7' | 29.28 | 19.98 | 19.8 | 29.5 | 15.2 | 4.32 | 36.8 | 12.6 | 16.58 | 4.73 |
| 105522 | 'Ankrd28' | 0 | 1.19 | 1.71 | 0 | 2.74 | 0.03 | 0.69 | 0.34 | 2.83 | 0.56 |
| 105559 | 'Mbnl2' | 72.24 | 61.09 | 38 | 40.2 | 54.6 | 48.2 | 73.3 | 65.52 | 59.64 | 100.71 |
| 105590 | 'Zfp957' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105638 | 'Dph3' | 19.02 | 15.31 | 18.6 | 17.2 | 20.2 | 10.99 | 31.3 | 8.47 | 19.1 | 19.65 |
| 105651 | 'Ppp1r3e' | 0 | 0 | 0 | 0 | 0.03 | 1.09 | 1.85 | 0 | 0.09 | 0 |
| 105653 | 'Phyhip' | 119.3 | 135.4 | 143 | 42.9 | 103 | 85.57 | 151 | 114.6 | 55.83 | 94.04 |
| 105663 | 'Thtpa' | 10.56 | 8.95 | 22.3 | 14 | 20.1 | 17.84 | 15.8 | 18.21 | 13.06 | 14.85 |
| 105670 | 'Rcbtb2' | 7.9 | 6.14 | 9.31 | 16.3 | 3.18 | 5.58 | 4.34 | 6.2 | 7.06 | 8.83 |
| 105675 | 'Ppif' | 14.48 | 16.3 | 40.5 | 19 | 27.6 | 35.79 | 23.1 | 17.16 | 42.86 | 9.86 |
| 105689 | 'Mycbp2' | 6.72 | 12.71 | 11.8 | 20.8 | 11.9 | 9.07 | 18.5 | 8.24 | 8.58 | 10.47 |
| 105704528 | 'Gm13090' | 0.02 | 0.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105722 | 'Ano6' | 4.99 | 5.82 | 6.39 | 2.74 | 8.19 | 1.24 | 0 | 4.28 | 4.02 | 8.84 |
| 105727 | 'Slc38a1' | 30.42 | 36.18 | 42.8 | 22.6 | 36.1 | 25.82 | 37.5 | 29.96 | 55.28 | 35.19 |
| 105732 | 'Fam83h' | 0 | 0 | 0 | 0 | 1.04 | 0 | 0 | 0 | 0 | 0 |
| 105734 | 'Tigd5' | 0.02 | 0.02 | 0 | 2.28 | 0 | 0.07 | 0.04 | 0.05 | 0 | 0.66 |
| 105734727 | 'Gm27021' | 3.14 | 0 | 6 | 0 | 0 | 4.07 | 0 | 5.29 | 11.88 | 2.15 |
| 105734734 | 'Gm11715' | 0 | 0 | 0 | 0 | 0 | 1.65 | 0 | 0 | 0.31 | 0 |
| 105782 | 'Scrib' | 2.64 | 3.5 | 0.93 | 5.22 | 1.95 | 0.1 | 0 | 3.19 | 8.42 | 1.24 |
| 105785 | 'Kdelr3' | 0 | 0 | 0 | 0 | 0 | 1.12 | 0 | 0 | 0 | 0 |
| 105787 | 'Prkaa1' | 6.53 | 7.67 | 12.2 | 5.53 | 16.4 | 2.96 | 7.94 | 2.45 | 4.83 | 4.62 |
| 105827 | 'Amigo2' | 12.1 | 7.23 | 13.8 | 5.7 | 1.31 | 3.58 | 3.6 | 12.37 | 16.67 | 1.09 |
| 105833 | 'Ccadc65' | 11.34 | 14.18 | 10.3 | 1.19 | 17.1 | 26.82 | 0 | 6.38 | 8.66 | 16.73 |
| 105835 | 'Sgsm3' | 36.11 | 33.24 | 29.4 | 53.8 | 42.8 | 35.33 | 39.2 | 47.46 | 31.28 | 46.21 |
| 105837 | 'Mtbp' | 0 | 0 | 0 | 4.87 | 0 | 0 | 0 | 0 | 0.44 | 0 |
| 105841 | 'Dennd3' | 1.44 | 0 | 0.77 | 0.05 | 0.58 | 2.65 | 0 | 0.03 | 0.02 | 1.41 |
| 105844 | 'Card10' | 0 | 0.13 | 1.66 | 0 | 0 | 0 | 0 | 0.01 | 0.61 | 0 |
| 105847 | 'Lmf2' | 13.06 | 1.72 | 4.76 | 17.4 | 12.2 | 2.21 | 9.22 | 2.62 | 9.45 | 9.51 |
| 105853 | 'Mal2' | 17.74 | 7.77 | 12 | 0.71 | 12.7 | 19.06 | 23.5 | 15.74 | 15.45 | 3.29 |
| 105855 | 'Nckap1l' | 0 | 0 | 0 | 0 | 1.33 | 0 | 0 | 0 | 0 | 0 |
| 105859 | 'Csdc2' | 97.95 | 107.7 | 138 | 36.3 | 111 | 107.6 | 115 | 101.7 | 152.6 | 83.35 |
| 105886298 | 'Cmc4' | 19.54 | 13.84 | 1.2 | 3.75 | 14.6 | 8.02 | 25.2 | 13.21 | 15.88 | 13.57 |
| 105940408 | 'Gm20498' | 46.88 | 46.77 | 49.9 | 49.7 | 34.7 | 60.39 | 32.6 | 41.44 | 41.92 | 22.68 |
| 105943584 | 'Gm45927' | 0.82 | 0.07 | 0 | 0 | 0.97 | 1.09 | 0 | 0.39 | 0.77 | 0 |
| 105980076 | 'Gm45929' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105988 | 'Esp1l' | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 1.94 | 0.03 |
| 106014 | 'Fam19a5' | 21.6 | 21.06 | 15.5 | 26.2 | 23.1 | 7.03 | 3.64 | 12.62 | 8.48 | 10.59 |
| 106021 | 'Topors' | 18.18 | 17.04 | 9.37 | 9.1 | 4.5 | 7.06 | 20.7 | 14.35 | 14.87 | 19.12 |
| 106025 | 'Sharpin' | 22.04 | 24.08 | 34 | 25.1 | 53.8 | 31.06 | 39.2 | 61.17 | 30.37 | 39.68 |
| 106039 | 'Gga1' | 13.51 | 14.18 | 16.7 | 11.2 | 12.4 | 15.66 | 31.2 | 15.91 | 24.68 | 18.84 |
| 106042 | 'Prickle1' | 4.37 | 3.7 | 1.19 | 0 | 3.86 | 0.98 | 2.39 | 2.37 | 5.53 | 2.91 |
| 106052 | 'Fbxo4' | 3.2 | 0.51 | 2.89 | 0.7 | 2.37 | 0 | 0.03 | 0.14 | 0.05 | 1.44 |
| 106064 | 'AW549877' | 2.5 | 3.54 | 8 | 4.11 | 4.43 | 4.01 | 7.62 | 3.1 | 20.83 | 8.14 |
| 106068 | 'Slc45a4' | 1.38 | 3.38 | 1.73 | 2.82 | 4.53 | 3.5 | 0.13 | 3.75 | 0.39 | 2.5 |
| 106073 | 'Mfsd5' | 11.18 | 8.74 | 11.7 | 3.13 | 17.7 | 17.48 | 18.2 | 20.09 | 16.49 | 12.79 |
| 106143 | 'Cggbp1' | 12.25 | 5.4 | 10 | 12.4 | 5.37 | 2.96 | 5.25 | 4.23 | 9.59 | 8.04 |
| 106200 | 'Txndc11' | 0.85 | 5.96 | 3.86 | 4.22 | 9.37 | 6.14 | 8.51 | 3.16 | 12.04 | 10.73 |
| 106205 | 'Zc3h7a' | 7.77 | 10.89 | 10.4 | 4.06 | 18.2 | 9.44 | 2.18 | 8.53 | 12.56 | 17.52 |
| 106248 | 'Qtrt2' | 6.55 | 2.85 | 4.33 | 3.45 | 6.44 | 6.1 | 4.4 | 3.11 | 3.84 | 4.21 |
| 106298 | 'Rrn3' | 35.33 | 54.74 | 44.4 | 22.2 | 30.3 | 9.7 | 30.2 | 40.03 | 50.82 | 44.21 |
| 106326 | 'Osbp111' | 4.35 | 0.89 | 1.92 | 0.3 | 2.46 | 0.36 | 0.13 | 0.61 | 1.43 | 0.62 |
| 106338 | 'Nsun3' | 3.51 | 4.7 | 3.07 | 0 | 10.6 | 3.79 | 0.2 | 4.04 | 10.86 | 11.92 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 106344 | 'Rfc4' | 7.59 | 2.15 | 4.86 | 1.87 | 10.6 | 0.04 | 0 | 4.29 | 0.11 | 13.22 |
| 106347 | 'Ildr1' | 0 | 0.57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 106369 | 'Ypel1' | 1.58 | 4.41 | 3.52 | 0 | 2.77 | 5.53 | 11.1 | 6.77 | 0 | 0 |
| 106389 | 'Eaf2' | 1.46 | 2.23 | 3.45 | 3.17 | 2.9 | 1.48 | 1.69 | 1.35 | 10.47 | 2.7 |
| 106393 | 'Srl' | 0.04 | 0.01 | 0.06 | 0.02 | 0 | 0.01 | 0.05 | 0.34 | 0.02 | 0.05 |
| 106407 | 'Slc51a' | 0 | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0.45 |
| 106489 | 'Sft2d1' | 95.57 | 53.93 | 44.7 | 102 | 87.8 | 103.4 | 61.7 | 104.7 | 62.5 | 115.77 |
| 106504 | 'Stk38' | 18.82 | 5.16 | 13.2 | 0.67 | 5.53 | 6.27 | 11.3 | 11.82 | 13.05 | 9.67 |
| 106512 | 'Gpsm3' | 0 | 1.86 | 0 | 1.38 | 0 | 1.42 | 0 | 2.95 | 2.09 | 2.17 |
| 106522 | 'Pkdcc' | 2.63 | 2.61 | 0 | 3.17 | 1.5 | 0 | 0.04 | 1.81 | 1.83 | 0.04 |
| 106529 | 'Tecr' | 1897 | 1472 | 1477 | 1512 | 1525 | 1800 | 1502 | 2109 | 1800 | 1843.64 |
| 106564 | 'Ppcs' | 31.7 | 10.74 | 22.3 | 44.8 | 22.8 | 18.31 | 36.4 | 35.68 | 18.69 | 29.73 |
| 106565 | 'Dlk2' | 10.32 | 13.13 | 8.66 | 17.1 | 8.93 | 12.21 | 21.5 | 9.7 | 8.73 | 5.07 |
| 106572 | 'Rab31' | 7 | 10.73 | 15.4 | 6.23 | 6.69 | 14.51 | 19.2 | 12.17 | 2.8 | 1.6 |
| 106581 | 'Fam234a' | 5.32 | 7.54 | 12.4 | 13.6 | 14.5 | 12.82 | 12.4 | 1.04 | 2.32 | 2.57 |
| 106582 | 'Nrm' | 0 | 0.03 | 0.03 | 0 | 3.95 | 0 | 8.91 | 2.25 | 0 | 0 |
| 106583 | 'Scaf8' | 3.39 | 1.35 | 4.44 | 6.67 | 0.58 | 2.19 | 8.34 | 0.94 | 2.93 | 3.21 |
| 106585 | 'Ankrd12' | 11.41 | 7.01 | 9.66 | 12.8 | 15.5 | 14.16 | 11.1 | 9.14 | 7.21 | 8.67 |
| 106618 | 'Wdr90' | 2.41 | 1.13 | 0.19 | 1.74 | 0 | 0 | 2.67 | 0.15 | 4.56 | 2.53 |
| 106628 | 'Trip10' | 0.25 | 0 | 0.02 | 0.02 | 0.37 | 0.02 | 2.27 | 8.06 | 8.26 | 0 |
| 106633 | 'Ift140' | 3.16 | 2.38 | 1.56 | 0.12 | 2.36 | 0.78 | 3.01 | 6.92 | 1.79 | 7.16 |
| 106639 | 'Vmac' | 6.26 | 10.28 | 6.71 | 0 | 31 | 17.11 | 5.1 | 14.83 | 10.93 | 10.65 |
| 106648 | 'Cyp4f15' | 3.03 | 1.21 | 3.7 | 2.8 | 0.02 | 0.02 | 6.13 | 0.03 | 2.28 | 1.23 |
| 106672 | 'Al413582' | 242.4 | 111.8 | 157 | 193 | 153 | 211.2 | 233 | 207.3 | 162.8 | 207.86 |
| 106707 | 'Rpusd1' | 70.96 | 69.21 | 67.5 | 45.1 | 92.1 | 60.5 | 54.6 | 53.82 | 47.36 | 56.19 |
| 106757 | 'Catsperd' | 0 | 0 | 0 | 0 | 0 | 2.61 | 5.09 | 1.64 | 0.1 | 0.37 |
| 106759 | 'Ticam1' | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 4.38 | 2.45 |
| 106763 | 'Ttbk1' | 0.43 | 0.26 | 0.53 | 0.04 | 5.08 | 0.15 | 1.17 | 0.38 | 0.44 | 0.12 |
| 106766 | 'Stap2' | 0.12 | 2 | 0 | 0 | 5.09 | 0.08 | 0 | 0.84 | 0 | 0 |
| 106794 | 'Dhx57' | 6.99 | 9.69 | 5.14 | 16.7 | 12.3 | 8.23 | 10.5 | 10.14 | 12.64 | 14.38 |
| 106795 | 'Tcf19' | 0 | 0 | 2.52 | 0 | 0 | 0 | 0 | 2.04 | 4.02 | 0 |
| 106821 | 'Oard1' | 18.26 | 26.92 | 31.6 | 55.3 | 30.9 | 19.01 | 33.6 | 18.15 | 52.5 | 18.12 |
| 106840 | 'Unc119b' | 7.43 | 7.05 | 9.78 | 0.02 | 1.73 | 0 | 7.59 | 1.88 | 2.92 | 0 |
| 106861 | 'Abhd3' | 64.09 | 28.8 | 31.7 | 59.3 | 16 | 59.4 | 14.8 | 45 | 48.37 | 30.89 |
| 106869 | 'Tnfaip8' | 4.5 | 0 | 0.07 | 0 | 0 | 0.05 | 4.32 | 0.02 | 0 | 0.86 |
| 106877 | 'Afap111' | 1.25 | 2.02 | 1.41 | 0 | 5.39 | 0 | 1.63 | 0.73 | 2.35 | 2.71 |
| 106878 | 'Smim3' | 0 | 0.43 | 4.01 | 6.9 | 3.83 | 0 | 4.85 | 6.11 | 12.38 | 0 |
| 106894 | 'Hmgxb3' | 5.38 | 1.25 | 6.87 | 6.71 | 5.55 | 0.15 | 6.41 | 0.33 | 5.73 | 2.9 |
| 106931 | 'Kctd1' | 1.08 | 0.22 | 1.99 | 0 | 0.95 | 11 | 6.25 | 0.66 | 1.07 | 0.07 |
| 106947 | 'Slc39a3' | 1.21 | 2.99 | 8.67 | 8.36 | 0.72 | 9.58 | 6.17 | 7.02 | 2.89 | 6.96 |
| 106952 | 'Arap3' | 0 | 0.49 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 106957 | 'Slc39a6' | 35.96 | 37.43 | 49.4 | 44.8 | 24.7 | 30.42 | 40.8 | 45.95 | 51.36 | 30.49 |
| 107022 | 'Gramd3' | 4.3 | 0 | 0.08 | 0.26 | 6.09 | 0 | 5.14 | 3.32 | 3.07 | 0 |
| 107029 | 'Me2' | 24.75 | 20.11 | 6.48 | 23 | 16 | 8.74 | 6.72 | 22.6 | 14.86 | 16.96 |
| 107035 | 'Fbxo38' | 11.48 | 10.97 | 12.9 | 21.8 | 4.86 | 4.46 | 13.8 | 18.04 | 21.86 | 12.26 |
| 107045 | 'Lars' | 13.33 | 10.59 | 17 | 5.5 | 9.8 | 5.71 | 15.7 | 10.9 | 8.02 | 11.79 |
| 107047 | 'Psmg2' | 31.97 | 45.58 | 27.8 | 17.5 | 26.3 | 52.35 | 42.3 | 31.86 | 30.09 | 56.25 |
| 107065 | 'Lrrtm2' | 11.14 | 9.89 | 10.6 | 13.1 | 5.93 | 2.86 | 8.73 | 4.81 | 2.56 | 7.41 |
| 107071 | 'Wdr74' | 28.78 | 49.63 | 51.3 | 31.3 | 58 | 54.48 | 20.1 | 52.78 | 41.88 | 39.09 |
| 107094 | 'Rrp12' | 6.94 | 17.64 | 13.9 | 16.7 | 2.08 | 2.88 | 6.69 | 3.15 | 16.59 | 6.46 |
| 107173 | 'Gpr137' | 51.76 | 38.48 | 68.3 | 4.39 | 54.2 | 33.02 | 79.5 | 57.82 | 31.06 | 46.81 |
| 107182 | 'Btaf1' | 1.15 | 0.46 | 0.79 | 2.71 | 1.23 | 1.68 | 0.33 | 0.14 | 2.05 | 0.85 |
| 107197 | 'Uqcc3' | 20.83 | 46.61 | 57.4 | 61 | 84.9 | 62.59 | 35.1 | 63.87 | 35.92 | 43.55 |
| 107221 | 'Ffar4' | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 |
| 107227 | 'Macrod1' | 0.01 | 4.35 | 1.37 | 5.96 | 2.79 | 0.11 | 0.2 | 1.6 | 4.06 | 0.17 |
| 107239 | 'Carns1' | 1.71 | 6.57 | 5.23 | 0.09 | 11.9 | 7.27 | 0 | 2.73 | 1.92 | 0.19 |
| 107242 | 'Al837181' | 5.12 | 18.43 | 2.94 | 5.16 | 26.1 | 29.45 | 15.7 | 13.93 | 4.31 | 9.46 |
| 107250 | 'Kazald1' | 0 | 0 | 14.3 | 3.84 | 3.51 | 0.03 | 5.95 | 6.05 | 0 | 0 |

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|-----------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 107260 | 'Otub1' | 360.6 | 352.3 | 404 | 418 | 491 | 446.2 | 451 | 570.6 | 432 | 371.96 |
| 107271 | 'Yars' | 87.11 | 72.19 | 70.9 | 92.3 | 45 | 86.42 | 93.7 | 77.4 | 47.4 | 70.28 |
| 107272 | 'Psat1' | 20.42 | 20.75 | 35.2 | 10.3 | 18.1 | 24.11 | 15.8 | 14.62 | 14.71 | 17.2 |
| 107303348 | 'Gm45935' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 |
| 107305 | 'Vps37c' | 9.38 | 11.3 | 4.38 | 0.02 | 19.9 | 18.66 | 16.2 | 16.22 | 37.12 | 14.47 |
| 107321 | 'Lpxn' | 0 | 0 | 0 | 0 | 0 | 12.78 | 4.83 | 0 | 0 | 0 |
| 107328 | 'Trpt1' | 16.94 | 15.9 | 2.89 | 13.4 | 20.8 | 20.28 | 13.5 | 13.7 | 7.15 | 6.29 |
| 107338 | 'Gbf1' | 8.39 | 11.21 | 10.9 | 12.2 | 6.42 | 8.17 | 13.2 | 12.87 | 18.27 | 12.93 |
| 107351 | 'Kank1' | 0.2 | 3.54 | 3.29 | 0.7 | 0.14 | 3.28 | 16.3 | 4.41 | 0.05 | 0 |
| 107358 | 'Tm9sf3' | 5.41 | 4.18 | 3.75 | 3.55 | 7.46 | 1.02 | 6.78 | 3.02 | 1.66 | 4.62 |
| 107368 | 'Pdzd8' | 1.12 | 3.22 | 2.49 | 3.64 | 6.52 | 1.13 | 5.43 | 0.67 | 2.15 | 1.49 |
| 107371 | 'Exoc6' | 6.28 | 2.47 | 6.6 | 5.71 | 1.83 | 0.38 | 4.93 | 4.55 | 9.75 | 5.7 |
| 107373 | 'Fam111a' | 0 | 0 | 0.11 | 0 | 0 | 0.45 | 0 | 0 | 1.88 | 0 |
| 107375 | 'Slc25a45' | 0 | 0 | 0 | 0.56 | 4.43 | 0 | 0 | 1.36 | 0 | 0 |
| 107392 | 'Brms1' | 38.97 | 24.82 | 14.2 | 16.8 | 20.7 | 28.63 | 0.8 | 20.22 | 20.74 | 25.08 |
| 107435 | 'Hat1' | 26.04 | 20.39 | 15.6 | 5.52 | 14.5 | 30.96 | 40.3 | 15.79 | 51.35 | 35.5 |
| 107448 | 'Unc5a' | 6.64 | 5.89 | 4.98 | 1.45 | 7 | 18.63 | 11.6 | 10.14 | 5.88 | 6.92 |
| 107449 | 'Unc5b' | 0.85 | 0.13 | 0 | 0 | 4.55 | 2.84 | 0.01 | 0 | 0.59 | 2.46 |
| 107476 | 'Acaca' | 2.04 | 0.89 | 4.76 | 6.66 | 2.32 | 1.33 | 2.53 | 2.87 | 1.5 | 3.25 |
| 107477 | 'Guca1b' | 0.4 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0.12 | 0 | 3.35 |
| 107503 | 'Atf5' | 0.03 | 0.86 | 0 | 5.55 | 5.6 | 0.61 | 0 | 0.23 | 6.4 | 0.07 |
| 107508 | 'Eprs' | 22.57 | 21.25 | 40.3 | 47 | 22.2 | 37.34 | 31.7 | 24.73 | 33.72 | 46.1 |
| 107513 | 'Ssr1' | 80.24 | 116.6 | 67.6 | 117 | 63.3 | 92.63 | 52.5 | 78.57 | 108.2 | 148.14 |
| 107515 | 'Lgr4' | 2.23 | 6.08 | 2.53 | 3.33 | 2.63 | 1.48 | 1.16 | 3.08 | 4.29 | 3.21 |
| 107522 | 'Ece2' | 33.97 | 28.57 | 39.7 | 18.6 | 40.6 | 24.55 | 28.8 | 39.48 | 36.86 | 51.88 |
| 107527 | 'Il1rl2' | 0 | 0 | 0 | 0 | 0 | 2.04 | 0 | 0 | 0 | 0 |
| 107528 | 'Magee1' | 137.8 | 121.9 | 146 | 42.8 | 99.3 | 76.11 | 129 | 110.8 | 131.8 | 153.28 |
| 107566 | 'Arl2bp' | 9.17 | 17.2 | 23 | 15.6 | 13 | 3.34 | 7.48 | 11.64 | 14.2 | 8.29 |
| 107568 | 'Wwp1' | 0.76 | 1.24 | 2 | 1.84 | 2.36 | 0.3 | 1.21 | 0.24 | 1.13 | 0.83 |
| 107569 | 'Nt5c3' | 45.46 | 80.25 | 62 | 8.92 | 45.5 | 36.66 | 57.5 | 55.01 | 40.67 | 45.47 |
| 107581 | 'Col16a1' | 0.87 | 2.97 | 8 | 4.29 | 5.77 | 1.94 | 12.9 | 4.05 | 0 | 0 |
| 107589 | 'Mylk' | 0.04 | 0.16 | 0.42 | 0 | 0.31 | 0 | 0.2 | 0.32 | 0.02 | 0 |
| 107605 | 'Rdh1' | 0.51 | 0.75 | 1.06 | 1.15 | 1.27 | 0.67 | 0.93 | 0.51 | 1.3 | 0.55 |
| 107607 | 'Nod1' | 0 | 0 | 0.09 | 0 | 0.87 | 0 | 0 | 0.79 | 0 | 0 |
| 107650 | 'Pi4kb' | 6.34 | 6.52 | 5.13 | 0 | 8.17 | 0.95 | 2.79 | 6.96 | 4.62 | 2.57 |
| 107652 | 'Uap1' | 8.14 | 11.67 | 3.57 | 1.3 | 7.83 | 3.72 | 3.98 | 6.95 | 5.07 | 4.24 |
| 107684 | 'Coro2a' | 1.05 | 0.74 | 3.35 | 2.64 | 7.96 | 1.51 | 2.09 | 3.36 | 2.6 | 0.04 |
| 107686 | 'Snrpd2' | 202.8 | 214.6 | 216 | 356 | 201 | 336.5 | 138 | 168.6 | 311.7 | 227.29 |
| 107701 | 'Sf3b4' | 90.14 | 69.41 | 98.7 | 43 | 64.1 | 79.8 | 71.7 | 113.2 | 98.52 | 93.99 |
| 107702 | 'Rnh1' | 92.18 | 70.92 | 53.2 | 47.8 | 40.6 | 75.94 | 77.7 | 69.03 | 96.23 | 87.73 |
| 107723 | 'Slc12a6' | 4.83 | 3.57 | 4.66 | 3.55 | 2.39 | 1.58 | 4.46 | 3.92 | 4.05 | 1.08 |
| 107732 | 'Mrpl10' | 55.06 | 72.67 | 74.9 | 41 | 69.9 | 101.2 | 131 | 79.3 | 48.37 | 60.85 |
| 107733 | 'Mrpl41' | 82.02 | 64.33 | 57.3 | 56.2 | 49.3 | 108.2 | 72 | 83.58 | 48.16 | 77.4 |
| 107734 | 'Mrpl30' | 123.4 | 149 | 109 | 224 | 95.2 | 149.1 | 133 | 139.8 | 150.3 | 132.51 |
| 107746 | 'Rapgef1' | 0.02 | 1.42 | 2.9 | 9.97 | 4.79 | 0.04 | 2.99 | 2.34 | 1.91 | 3.47 |
| 107747 | 'Aldh1l1' | 17.32 | 2.84 | 4.4 | 0.02 | 2.1 | 6.16 | 9.93 | 2.73 | 8.7 | 0.15 |
| 107751 | 'Prrxl1' | 0 | 0 | 2.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107765 | 'Ankrd1' | 0.28 | 0.05 | 1.21 | 0.23 | 0.22 | 0.34 | 0.54 | 0.09 | 0.29 | 0.29 |
| 107766 | 'Haao' | 0 | 0.36 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 107767 | 'Scamp1' | 89.48 | 76.2 | 77 | 54.7 | 77.6 | 28.17 | 94.1 | 86.31 | 92.14 | 76.79 |
| 107769 | 'Tm6sf1' | 1.76 | 0.53 | 1.9 | 0.29 | 0.28 | 9.45 | 0.04 | 4.77 | 0.64 | 3.32 |
| 107770 | 'Tm6sf2' | 0.03 | 0.67 | 0 | 1.28 | 2 | 0 | 0 | 0 | 0 | 0 |
| 107771 | 'Bmyc' | 185.3 | 161.1 | 174 | 92.1 | 184 | 272.2 | 206 | 162.4 | 171.6 | 206.32 |
| 107815 | 'Scml2' | 0 | 0.1 | 0 | 2.19 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107817 | 'Jmjd6' | 11.84 | 15.25 | 15.4 | 33.7 | 26.3 | 23.74 | 10.6 | 11.97 | 25.31 | 21.35 |
| 107823 | 'Nsd2' | 5.54 | 3.32 | 2.49 | 4.63 | 5.05 | 3.99 | 7.22 | 0.83 | 5.62 | 4.58 |
| 107829 | 'Thoc5' | 6.32 | 16.36 | 21.4 | 0.84 | 15.6 | 22.58 | 15.4 | 21.48 | 13.56 | 5.89 |
| 107831 | 'Adgrb1' | 2.87 | 2.29 | 1.32 | 2.67 | 3.25 | 2.85 | 1.37 | 1.6 | 3.15 | 1.54 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 107869 | 'Cth' | 3.44 | 6.77 | 0 | 0 | 3.82 | 10.08 | 0.07 | 0 | 3.23 | 0 |
| 107885 | 'Mthfs' | 3.42 | 5.09 | 7.38 | 24 | 12.4 | 13.11 | 13.1 | 8.77 | 4.76 | 17.47 |
| 107895 | 'Mgat5' | 5.22 | 4.39 | 2.4 | 1.4 | 9.23 | 4.69 | 4.24 | 3.85 | 8 | 5.4 |
| 107932 | 'Chd4' | 7.38 | 8.06 | 5.68 | 9.48 | 11 | 10.73 | 6.31 | 6.7 | 14.04 | 10.15 |
| 107934 | 'Celsr3' | 0.53 | 1.7 | 2.82 | 1.74 | 1.59 | 1.04 | 3.4 | 1.24 | 2.48 | 0.74 |
| 107939 | 'Pom121' | 2.54 | 3.37 | 2.72 | 0.5 | 2.45 | 0.08 | 5.41 | 1.67 | 1.44 | 1.22 |
| 107951 | 'Cdk9' | 9.48 | 3.38 | 6.34 | 41.2 | 20 | 9.25 | 10.4 | 8.32 | 11.34 | 1.84 |
| 107970 | 'Hist1h1t' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.06 | 0 |
| 107971 | 'Frs3' | 7.55 | 21.24 | 23.3 | 0 | 10.9 | 23.39 | 15 | 23.05 | 29.51 | 13.07 |
| 107975 | 'Pacs1' | 4.37 | 5.71 | 13.5 | 4.65 | 4.34 | 11.24 | 7.22 | 10.76 | 5.34 | 5.27 |
| 107976 | 'Babam2' | 14.96 | 9.56 | 16.5 | 24 | 10.9 | 29.65 | 9.46 | 15.87 | 17.89 | 38.02 |
| 107986 | 'Ddb2' | 2.5 | 10.45 | 3.84 | 5.75 | 0.33 | 10.67 | 20.8 | 10.56 | 8.54 | 15.27 |
| 107993 | 'Bfsp2' | 0 | 2.2 | 3.56 | 0 | 0 | 0 | 6.09 | 0 | 0.03 | 0 |
| 107995 | 'Cdc20' | 0.02 | 0 | 0 | 0 | 3.97 | 0 | 0 | 0 | 0 | 0 |
| 107999 | 'Gtpbp6' | 17.54 | 9.88 | 16.1 | 24.3 | 23 | 24.05 | 11 | 10.28 | 15.95 | 11.19 |
| 108000 | 'Cenpf' | 0.02 | 0.64 | 0.04 | 0.1 | 0.03 | 0.08 | 1.05 | 0.19 | 0.12 | 0.05 |
| 108011 | 'Ap4e1' | 0.62 | 5 | 1.63 | 0.11 | 3.56 | 3.12 | 1.33 | 1.63 | 4.23 | 2.14 |
| 108012 | 'Ap1s2' | 13.14 | 46.54 | 38.4 | 48 | 78 | 77.77 | 168 | 115.1 | 114.7 | 182.77 |
| 108013 | 'Celf4' | 272.2 | 262.8 | 171 | 229 | 233 | 311.9 | 222 | 233.8 | 216.3 | 287.68 |
| 108014 | 'Srsf9' | 11.47 | 7.63 | 5.69 | 24.7 | 9.43 | 3.8 | 3.98 | 9.18 | 5.28 | 7.96 |
| 108015 | 'Chrn4' | 6.62 | 1.28 | 0.03 | 0.05 | 21.1 | 0.01 | 0.03 | 0 | 0 | 3.21 |
| 108017 | 'Fxyd4' | 0 | 0.38 | 0 | 0 | 2.41 | 0 | 0.03 | 1.71 | 0 | 0 |
| 108030 | 'Lin7a' | 3.42 | 6.97 | 5.99 | 8.14 | 3.61 | 10.59 | 10.6 | 7.87 | 5.16 | 6.26 |
| 108037 | 'Shmt2' | 11.14 | 10.19 | 5.35 | 31.6 | 8.31 | 15.02 | 9.75 | 3.57 | 12.26 | 17.22 |
| 108043 | 'Chrn3' | 1.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108052 | 'Slc14a1' | 3.18 | 6.62 | 3.94 | 0 | 0.38 | 0.19 | 6.16 | 2.08 | 3.43 | 0.93 |
| 108058 | 'Camk2d' | 40.28 | 21.67 | 31.5 | 13.3 | 36.7 | 27.43 | 32.1 | 27.26 | 25.36 | 34.39 |
| 108062 | 'Cstf2' | 22.9 | 24.23 | 26 | 8.62 | 15.2 | 11.3 | 19.7 | 22.03 | 21.77 | 34.2 |
| 108067 | 'Eif2b3' | 20.21 | 20.6 | 29.9 | 68.9 | 43.9 | 51.92 | 28.7 | 49.8 | 29.85 | 47.84 |
| 108068 | 'Grm2' | 1.95 | 0.89 | 2.06 | 0 | 10.8 | 7.97 | 6.14 | 1.88 | 3.54 | 8.18 |
| 108069 | 'Grm3' | 2.24 | 5.38 | 1.33 | 0.48 | 0.63 | 0.13 | 0 | 2.15 | 0.74 | 1.16 |
| 108071 | 'Grm5' | 15.66 | 5.23 | 7.53 | 8.02 | 10.5 | 6.91 | 24.1 | 5.38 | 8.11 | 4.58 |
| 108073 | 'Grm7' | 21.06 | 10.09 | 18.7 | 45 | 12.7 | 7.23 | 47.7 | 17.67 | 30.33 | 26.33 |
| 108075 | 'Ltbp4' | 3.12 | 6.39 | 2.74 | 5.84 | 3.46 | 3.69 | 3.69 | 4.51 | 1.86 | 8.45 |
| 108077 | 'Skiv2l' | 19.43 | 21.51 | 25 | 5.73 | 25.2 | 12.72 | 15.9 | 8.97 | 11.37 | 21.01 |
| 108079 | 'Prkaa2' | 3.43 | 1.93 | 0.78 | 2.79 | 3.96 | 0.93 | 0.12 | 1.62 | 1.12 | 3.02 |
| 108083 | 'Pip4k2b' | 2.95 | 3.25 | 2.26 | 1.59 | 1.46 | 0.67 | 1.14 | 2.12 | 0.45 | 1.62 |
| 108086 | 'Rnf216' | 13.57 | 10.64 | 10.6 | 3.54 | 10 | 5.3 | 6.59 | 14.23 | 8.92 | 6.11 |
| 108089 | 'Rnf144a' | 0.95 | 0.68 | 0.94 | 0.36 | 0.98 | 0 | 3 | 0.98 | 2.58 | 0.01 |
| 108097 | 'Prkab2' | 7.61 | 2.11 | 2.46 | 1.8 | 2.11 | 0.05 | 0 | 2.64 | 0 | 5.84 |
| 108098 | 'Med21' | 91.07 | 105.5 | 79.9 | 137 | 97.5 | 82.33 | 82.6 | 108.4 | 104.5 | 72.35 |
| 108099 | 'Prkag2' | 23.85 | 33.98 | 19.4 | 7.24 | 28.8 | 11.38 | 17.8 | 26.28 | 19.08 | 30.36 |
| 108100 | 'Baiap2' | 29.28 | 76.06 | 34.9 | 60.4 | 41.6 | 16.81 | 33.7 | 15.38 | 16.45 | 15.28 |
| 108101 | 'Fermt3' | 1.38 | 0 | 0 | 2.52 | 0 | 3.86 | 0 | 2.63 | 0.1 | 0 |
| 108105 | 'B3gnt5' | 0 | 0.15 | 1.58 | 0 | 0 | 0 | 0 | 0.22 | 0 | 0 |
| 108112 | 'Eif4ebp3' | 0 | 0.69 | 2.19 | 0 | 1.23 | 1.76 | 4.69 | 1.9 | 0.15 | 0.95 |
| 108114 | 'Slc22a7' | 0 | 0.02 | 0 | 0 | 0 | 0.02 | 0.2 | 0 | 0 | 0.09 |
| 108115 | 'Slco4a1' | 1.98 | 0 | 4.04 | 1.09 | 1.99 | 0 | 4.1 | 0.1 | 5.04 | 8.62 |
| 108116 | 'Slco3a1' | 5.06 | 5.83 | 1.79 | 7.81 | 4.16 | 4.49 | 20.7 | 5.06 | 2.33 | 3.63 |
| 108121 | 'U2af1' | 97.71 | 82.15 | 125 | 93 | 80.7 | 138.7 | 116 | 130 | 162.6 | 98 |
| 108123 | 'Napg' | 49.97 | 60.05 | 45.5 | 46.1 | 43.4 | 19.65 | 62.4 | 54.94 | 46.48 | 39.67 |
| 108124 | 'Napa' | 233.1 | 283.7 | 211 | 241 | 292 | 310.5 | 241 | 316 | 271.6 | 262.24 |
| 108138 | 'Xrcc4' | 4.94 | 10.68 | 5.25 | 1.45 | 16.8 | 10.91 | 12.2 | 4.07 | 20.76 | 6.7 |
| 108143 | 'Taf9' | 147.1 | 167.5 | 147 | 264 | 138 | 163.7 | 136 | 156.3 | 166.2 | 120.46 |
| 108147 | 'Atic' | 12.88 | 11.87 | 9.13 | 5.38 | 2.14 | 16.33 | 4.48 | 11.59 | 17.51 | 12.58 |
| 108148 | 'Galnt2' | 8.91 | 7.66 | 5.59 | 9.62 | 6 | 8.04 | 8.4 | 11.82 | 7.45 | 11.16 |
| 108150 | 'Galnt7' | 5.14 | 5.23 | 0.47 | 0.01 | 0.38 | 0 | 0.14 | 1.9 | 2.9 | 2.29 |
| 108151 | 'Sema3d' | 1.29 | 1.72 | 1.08 | 0 | 0.01 | 1.82 | 1.6 | 0.46 | 1.51 | 0.19 |

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|-----------|----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 108153 | 'Adamts7' | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 |
| 108154 | 'Adamts6' | 0 | 0.06 | 7.07 | 7.3 | 1.39 | 0.01 | 0 | 0 | 0.57 | 0.01 |
| 108155 | 'Ogt' | 51.55 | 46.8 | 50.3 | 40.4 | 43 | 34.36 | 56.4 | 47.31 | 48.72 | 59.48 |
| 108156 | 'Mthfd1' | 10.07 | 20.72 | 35.6 | 23.9 | 16.9 | 8.86 | 31.8 | 24.52 | 20.98 | 19.93 |
| 108159 | 'Ubxn8' | 4.89 | 10.58 | 6.74 | 18.5 | 11.1 | 14.67 | 28.4 | 12.56 | 8.01 | 16.25 |
| 108160 | 'Fam50a' | 32.93 | 30.9 | 34.6 | 21.2 | 40.7 | 25.26 | 32.6 | 44.24 | 33.04 | 16.47 |
| 108167320 | 'LOC108167320' | 15.92 | 9.59 | 10.8 | 13.5 | 11 | 12.42 | 8.7 | 6.52 | 6.87 | 16.29 |
| 108167321 | 'LOC108167321' | 1.76 | 1.02 | 2.83 | 0.56 | 1.36 | 0.36 | 2.56 | 0.93 | 3.78 | 0.51 |
| 108167339 | 'LOC108167339' | 0.02 | 0.11 | 0.44 | 0 | 0.26 | 0.02 | 0.73 | 0.09 | 0.02 | 0.41 |
| 108167344 | 'Gm45951' | 6.82 | 7.17 | 7.72 | 2.16 | 5.08 | 6.71 | 5.48 | 3.66 | 4.97 | 2.58 |
| 108167358 | 'LOC108167358' | 0.03 | 0.04 | 0.02 | 0.31 | 0.08 | 0.01 | 0.02 | 0.06 | 0.36 | 0.06 |
| 108167362 | 'Gm45961' | 0.19 | 0.31 | 1.27 | 1.94 | 0.24 | 0.13 | 0.27 | 0.49 | 0.64 | 0.15 |
| 108167368 | 'LOC108167368' | 0.66 | 3.51 | 2.19 | 0.89 | 0.83 | 0.35 | 2.03 | 0.75 | 1.99 | 0.75 |
| 108167370 | 'Gm45965' | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 |
| 108167412 | 'Gm45975' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 108167434 | 'Gm45988' | 0.79 | 1.15 | 0 | 0 | 0.23 | 1.35 | 0 | 0 | 2.02 | 1.15 |
| 108167466 | 'Gm45618' | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.34 |
| 108167476 | 'Gm46008' | 0.12 | 0.11 | 0.29 | 0.02 | 0.11 | 0 | 0.01 | 0.1 | 0 | 0 |
| 108167482 | 'Gm46011' | 0.1 | 0.04 | 0.06 | 0 | 0.02 | 0 | 0 | 0.02 | 0 | 0.12 |
| 108167549 | '108167549' | 0.33 | 0.12 | 0.67 | 0.34 | 0.85 | 1.64 | 0.29 | 0.29 | 0.65 | 0.08 |
| 108167560 | 'Gm46058' | 0 | 0 | 2.8 | 2.83 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108167571 | 'Gm43263' | 1.56 | 1.14 | 0.56 | 3.87 | 2.56 | 1.04 | 1.13 | 0.64 | 0.44 | 0 |
| 108167576 | 'Gm46066' | 1.16 | 0.59 | 0.44 | 3.77 | 0.66 | 1.03 | 0.46 | 1.47 | 0.1 | 0.72 |
| 108167614 | 'Gm46084' | 0 | 0 | 0.54 | 0 | 0 | 0 | 0.67 | 0 | 0.03 | 0 |
| 108167694 | 'LOC108167694' | 1.24 | 1.54 | 1.95 | 2.83 | 1.05 | 1.69 | 1.39 | 0.86 | 0.46 | 1.2 |
| 108167700 | 'Gm46139' | 0.17 | 0.02 | 0.05 | 0 | 0.98 | 0.92 | 0.61 | 1.07 | 0 | 0.19 |
| 108167735 | 'Gm46164' | 0 | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108167752 | 'Gm46175' | 0 | 0 | 2.37 | 0 | 0.06 | 0.01 | 0 | 0 | 0 | 0 |
| 108167806 | 'Gm46221' | 0.37 | 0.36 | 0.15 | 0.08 | 0.53 | 1.37 | 0 | 0.26 | 0.23 | 0 |
| 108167809 | 'Gm46223' | 0 | 0.23 | 0 | 0 | 0 | 0 | 0.41 | 0 | 0 | 0.9 |
| 108167814 | 'LOC108167814' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0.03 | 0 |
| 108167830 | 'Gm46240' | 0.16 | 0 | 0.13 | 0.21 | 0.14 | 0 | 0.05 | 0 | 0 | 0.08 |
| 108167848 | 'Gm12258' | 7.15 | 3.7 | 2.62 | 7.35 | 2.82 | 2.39 | 0.01 | 4.17 | 1.18 | 6.93 |
| 108167855 | 'Gm46255' | 0.66 | 0.33 | 0.79 | 0.02 | 0.03 | 0 | 0 | 0.58 | 0.3 | 0 |
| 108167858 | 'Gm46257' | 0 | 0.89 | 0.22 | 0 | 0 | 5.11 | 2.12 | 0.28 | 1.9 | 0.63 |
| 108167883 | 'Gm46270' | 0.29 | 0.48 | 3.12 | 0.25 | 0.49 | 0 | 0.22 | 0.52 | 0.12 | 1.42 |
| 108167886 | 'Gm46272' | 0 | 0.05 | 0 | 0 | 0 | 3.06 | 0 | 0 | 0 | 0 |
| 108167918 | 'Gm46290' | 0 | 0 | 0 | 3.45 | 0.35 | 0 | 0 | 0 | 2.15 | 0.12 |
| 108167922 | 'LOC108167922' | 0.09 | 0.16 | 0.15 | 0.12 | 0 | 0.04 | 0.12 | 0.01 | 0.23 | 0.07 |
| 108167925 | 'Gm46294' | 0 | 0.51 | 0 | 1.7 | 0.99 | 1.69 | 0 | 0.83 | 0 | 0.27 |
| 108167946 | 'Gm46306' | 0 | 0.07 | 0.06 | 0.49 | 0.19 | 0 | 0.69 | 0.1 | 0.05 | 0 |
| 108167951 | 'Gm46310' | 0.28 | 0.1 | 0.85 | 0.15 | 0.51 | 0 | 0 | 0 | 0.14 | 0 |
| 108167961 | 'Gm46319' | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 |
| 108167963 | 'Gm46320' | 0 | 0 | 0 | 0 | 0 | 0.07 | 0.07 | 0 | 0 | 0 |
| 108167986 | 'Gm46339' | 0.43 | 1.5 | 1.37 | 0.81 | 0.69 | 0.19 | 0.44 | 0.35 | 1.16 | 0.27 |
| 108167989 | 'Gm46340' | 0.11 | 0.16 | 0.87 | 0.29 | 0.08 | 0.02 | 0.36 | 0.81 | 0.28 | 0.19 |
| 108167995 | 'Gm46345' | 0 | 0 | 0 | 0 | 0 | 0.37 | 0 | 0 | 0.25 | 0 |
| 108168003 | 'Gm46353' | 0 | 0 | 0.4 | 0 | 0 | 0.71 | 0 | 0.49 | 0 | 0 |
| 108168034 | 'Gm46382' | 0 | 0 | 0 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108168049 | 'Gm46390' | 0.77 | 2.45 | 3.25 | 0 | 5.76 | 0.42 | 0.12 | 1.54 | 2.23 | 1.26 |
| 108168067 | 'Gm46403' | 1.52 | 1.95 | 1.71 | 8.3 | 1.86 | 3.97 | 2.74 | 1.16 | 3.69 | 3.49 |
| 108168097 | 'Gm46426' | 0 | 0.18 | 0.06 | 0.07 | 0.13 | 0 | 0 | 0.1 | 0 | 0 |
| 108168098 | 'Gm46427' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 108168101 | 'Gm46430' | 10.15 | 8.24 | 5.34 | 11.1 | 9.49 | 0.44 | 8.6 | 8.17 | 2.93 | 6.86 |
| 108168108 | 'LOC108168108' | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0.03 | 0.7 |
| 108168152 | 'Gm8126' | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 |
| 108168162 | 'Gm43305' | 1.4 | 4.29 | 10.3 | 10.6 | 18.6 | 12 | 14.7 | 12.96 | 7.74 | 2.97 |
| 108168219 | 'Gm46500' | 0.28 | 0.27 | 0.37 | 0 | 0.45 | 0.01 | 1.27 | 0 | 0.4 | 0.03 |

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|-----------|----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 108168225 | 'Gm26513' | 0 | 0 | 0 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108168226 | 'Gm46504' | 0.13 | 0.14 | 0.77 | 0 | 0 | 1.2 | 0 | 0 | 0.25 | 0.19 |
| 108168313 | 'LOC108168313' | 0 | 0 | 0.16 | 0.55 | 0.24 | 0 | 0.08 | 0.13 | 0 | 0 |
| 108168323 | 'Gm46580' | 0.37 | 0.33 | 0.03 | 0.24 | 1.23 | 0 | 0 | 0 | 1.02 | 0.42 |
| 108168336 | 'Gm46592' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0.01 |
| 108168358 | 'Gm46608' | 0 | 0 | 0.84 | 0.87 | 1.11 | 2.52 | 0.54 | 0.86 | 0.56 | 0 |
| 108168367 | 'LOC108168367' | 0 | 0 | 0.99 | 0 | 0.46 | 4.08 | 0 | 0 | 0.12 | 0 |
| 108168395 | 'Gm45871' | 1.99 | 1.71 | 2.88 | 0.42 | 2.91 | 0.92 | 3.47 | 6.71 | 6.51 | 4.79 |
| 108168405 | 'LOC108168405' | 0.32 | 0.04 | 0.07 | 0.46 | 0.3 | 0.56 | 0.04 | 0.36 | 0.12 | 0.26 |
| 108168534 | 'Gm46714' | 0 | 0.69 | 1.02 | 1.88 | 0.03 | 0 | 0 | 0.14 | 0.89 | 0 |
| 108168543 | 'LOC108168543' | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108168553 | 'LOC108168553' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.23 | 0 | 0 |
| 108168572 | 'Gm46715' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0.02 | 0 |
| 108168573 | 'Gm46716' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0.02 | 0 |
| 108168574 | 'LOC108168574' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.31 | 0 |
| 108168644 | 'Gm46717' | 0.16 | 0.2 | 0.22 | 0.18 | 0.24 | 0 | 0.04 | 0.02 | 0.05 | 0 |
| 108168679 | 'LOC108168679' | 6.61 | 12.99 | 13 | 8.94 | 0.07 | 16.61 | 7.15 | 4.55 | 2.92 | 10.34 |
| 108168680 | 'LOC108168680' | 0.01 | 0 | 0 | 0.12 | 0.01 | 0.01 | 0 | 0 | 0.02 | 0 |
| 108168683 | 'LOC108168683' | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 |
| 108168685 | 'LOC108168685' | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 |
| 108168691 | 'LOC108168691' | 0 | 0 | 0.55 | 2.11 | 0.71 | 1.08 | 0 | 0.45 | 0.55 | 0 |
| 108168724 | 'LOC108168724' | 0 | 0 | 0.08 | 0 | 0 | 0 | 0.43 | 0.21 | 0.45 | 0.6 |
| 108168740 | 'Gm46731' | 2.29 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 2.81 | 0 |
| 108168771 | 'LOC108168771' | 1.46 | 1.2 | 2.71 | 3.09 | 1.41 | 1.61 | 1.25 | 0.96 | 1.87 | 2.21 |
| 108168884 | 'Gm37500' | 0.03 | 1.61 | 0.99 | 0.55 | 4.39 | 0 | 2.82 | 0.24 | 0.54 | 2.14 |
| 108168906 | 'Gm43707' | 0.06 | 0.01 | 0.52 | 0.01 | 0.01 | 0.33 | 0 | 0 | 0.27 | 0 |
| 108168936 | 'LOC108168936' | 0 | 0 | 0 | 0 | 0.15 | 0.63 | 0 | 0.01 | 0 | 0 |
| 108168952 | '108168952' | 0.01 | 0 | 0 | 0.12 | 0.01 | 0.01 | 0 | 0 | 0.02 | 0 |
| 108168953 | 'Gm46858' | 0 | 0 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0 | 0 |
| 108168959 | 'LOC108168959' | 0.13 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 |
| 108168960 | 'Gm45533' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.09 | 0 | 0 |
| 108168962 | 'LOC108168962' | 0 | 0.26 | 0.24 | 0.34 | 0.29 | 0 | 0 | 0.02 | 0 | 0 |
| 108169010 | 'LOC108169010' | 0.7 | 0 | 0 | 0.05 | 0 | 0.75 | 0 | 1.23 | 0 | 0 |
| 108169023 | 'Gm46901' | 0 | 1.2 | 2.29 | 4.41 | 5.07 | 1.03 | 3.27 | 2.51 | 0.4 | 0.86 |
| 108169043 | 'Gm46911' | 3.61 | 4.26 | 2.79 | 24.4 | 6.56 | 1.8 | 0.58 | 3.59 | 15.66 | 6.05 |
| 108169060 | 'LOC108169060' | 0.34 | 0.05 | 0.07 | 0.08 | 0 | 0.06 | 0.22 | 0.06 | 0.07 | 0.07 |
| 108169061 | 'Gm46918' | 3.62 | 2.68 | 1.92 | 0.19 | 4.63 | 11.37 | 0 | 0.69 | 1.21 | 1.26 |
| 108169096 | 'Gm46933' | 0 | 0.12 | 2.28 | 5.38 | 4.76 | 3.35 | 0.46 | 0.96 | 1.65 | 1.91 |
| 108169098 | 'Gm46934' | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 |
| 108169100 | 'LOC108169100' | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 |
| 108169150 | 'Gm46963' | 0 | 0.09 | 0.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108169152 | 'Gm46965' | 0 | 0 | 2.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0.52 |
| 108169171 | 'Gm46977' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 |
| 108169182 | 'Gm46982' | 0.46 | 0.12 | 0 | 0 | 0 | 0.3 | 0.65 | 0 | 0.45 | 0 |
| 108169201 | 'Gm46988' | 0 | 0 | 0.02 | 0 | 0 | 0.49 | 0 | 0 | 0 | 0 |
| 108645 | 'Mat2b' | 107.8 | 73.24 | 74.8 | 84.6 | 102 | 102.2 | 145 | 94.34 | 112 | 64.19 |
| 108652 | 'Slc35b3' | 5.46 | 7.91 | 11.2 | 12.4 | 8.4 | 15.03 | 1.54 | 14.3 | 6.21 | 11.27 |
| 108653 | 'Rimklb' | 18.49 | 7.14 | 10.3 | 10.8 | 5.85 | 5.45 | 18.8 | 11.75 | 12.43 | 7.54 |
| 108654 | 'Fam210a' | 1.69 | 5.14 | 3.26 | 0.41 | 1.02 | 2.21 | 3.06 | 2.86 | 4.44 | 1.73 |
| 108655 | 'Foxp1' | 3.83 | 4.5 | 5.66 | 6.22 | 7.28 | 4.91 | 11 | 6.94 | 8.83 | 5.18 |
| 108657 | 'Rnpepl1' | 0 | 6.95 | 5.42 | 3.34 | 2.94 | 1.84 | 3.98 | 1.49 | 0.81 | 1.54 |
| 108660 | 'Rnf187' | 158.2 | 72.56 | 149 | 233 | 100 | 35.44 | 107 | 24.73 | 101.1 | 23.14 |
| 108664 | 'Atp6v1h' | 178.8 | 228.6 | 215 | 169 | 166 | 202 | 197 | 234.4 | 206.5 | 209.23 |
| 108670 | 'Epsti1' | 4.34 | 1.94 | 0 | 0 | 0 | 0 | 3.09 | 0.39 | 0 | 0 |
| 108671 | 'Dnajc9' | 46.62 | 36.14 | 56.9 | 48.1 | 49.4 | 80.71 | 34.9 | 25.68 | 70.42 | 49.82 |
| 108672 | 'Zdhhc15' | 0.02 | 0.9 | 3.4 | 0 | 0.8 | 0 | 1.71 | 0.78 | 1.44 | 1.72 |
| 108673 | 'Ccdc86' | 9.96 | 9.57 | 4.41 | 4.43 | 13.9 | 15.98 | 12.8 | 13.92 | 9.52 | 12.26 |
| 108679 | 'Cops8' | 122.2 | 131.1 | 131 | 84.2 | 145 | 218.7 | 121 | 140 | 140.7 | 110.88 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 108682 | 'Gpt2' | 9.24 | 8.41 | 9.66 | 9.81 | 4.81 | 6.04 | 23.2 | 5.03 | 8.32 | 0.63 |
| 108686 | 'Ccfdc88a' | 3.24 | 4.06 | 3.34 | 5.2 | 5.72 | 4.06 | 4.38 | 3.58 | 1.99 | 6.95 |
| 108687 | 'Edem2' | 31.1 | 28.4 | 26.1 | 44.6 | 5.11 | 21.3 | 10.4 | 22.77 | 28.42 | 30.02 |
| 108689 | 'Stn1' | 5.33 | 4.51 | 11.8 | 15.2 | 17 | 8.3 | 15.2 | 15.67 | 9.18 | 11.91 |
| 108699 | 'Chn1' | 87.77 | 120.7 | 80 | 79.6 | 64.7 | 80.37 | 64.9 | 104.5 | 41.29 | 34.95 |
| 108705 | 'Pttg1ip' | 50.07 | 44.49 | 51.4 | 13.7 | 56 | 32.53 | 22.2 | 20.22 | 53.72 | 38.86 |
| 108707 | 'Fam207a' | 10.7 | 15.33 | 25.6 | 12.6 | 8.1 | 19.28 | 15.5 | 7.94 | 32.45 | 4.96 |
| 108723 | 'Card11' | 0 | 0 | 0 | 3.52 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108735 | 'Sft2d2' | 0.11 | 3.24 | 0.95 | 0 | 4.77 | 1.53 | 0.01 | 0.09 | 0.2 | 0.54 |
| 108737 | 'Oxsr1' | 2.07 | 0.87 | 2.74 | 7.41 | 4.07 | 4.64 | 4.03 | 3.97 | 5.21 | 4.07 |
| 108755 | 'Lym2' | 32.2 | 26.12 | 25.7 | 53.8 | 32.6 | 36.2 | 31.4 | 38.67 | 38.88 | 31.69 |
| 108760 | 'Galnt16' | 92.29 | 109.6 | 78.3 | 53.5 | 69.5 | 55.84 | 91.2 | 70.69 | 78.89 | 180.97 |
| 108767 | 'Pnrc1' | 13.47 | 14.07 | 6.92 | 18.5 | 6.98 | 13.49 | 3.44 | 11.53 | 9.94 | 16.99 |
| 108797 | 'Mex3b' | 0.61 | 0.69 | 0 | 1.71 | 0.54 | 0 | 5.02 | 0.08 | 0 | 1.01 |
| 108800 | 'Ston2' | 1.36 | 0.84 | 0.11 | 0.29 | 0.52 | 0.67 | 0.37 | 0.07 | 1.06 | 0.15 |
| 108802 | 'Calr4' | 2.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108811 | 'Ccfdc122' | 0.04 | 0 | 0 | 0 | 1.08 | 0.56 | 0 | 0 | 0 | 0 |
| 108829 | 'Jmjd1c' | 7.07 | 10.38 | 5.54 | 30.1 | 3.22 | 6.15 | 5.42 | 2.39 | 2.99 | 4.41 |
| 108832 | 'Tmem74b' | 6.9 | 12.58 | 11 | 10.6 | 7.46 | 5.42 | 14.3 | 17.51 | 11.44 | 2.84 |
| 108837 | 'Ibtk' | 1.78 | 1.69 | 3.15 | 2.38 | 1.33 | 4.46 | 4.4 | 2.85 | 3.2 | 1.79 |
| 108841 | 'Rdh13' | 21.73 | 21.89 | 10.8 | 28.6 | 14.7 | 25.29 | 10.2 | 27.16 | 35.52 | 20.72 |
| 108853 | 'Mtrf1l' | 4.02 | 3.97 | 6.49 | 5.83 | 5.79 | 2.2 | 0.68 | 1.54 | 3.73 | 0 |
| 108857 | 'Ankhd1' | 2.17 | 1.83 | 2.84 | 4.56 | 2.64 | 1.58 | 3.84 | 3.13 | 2.99 | 2.19 |
| 108888 | 'Atad3a' | 20.76 | 18.79 | 39.6 | 36.2 | 26.9 | 19.59 | 17.8 | 11.93 | 13.13 | 1.96 |
| 108897 | 'Aif1l' | 1.08 | 0.98 | 3.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108899 | '2700081O15Rik' | 3.08 | 1.39 | 1.9 | 0 | 3.87 | 0 | 3.15 | 1.85 | 10.46 | 0.82 |
| 108900 | 'Fam72a' | 0.07 | 0 | 2.24 | 0 | 0 | 0 | 0.11 | 0.54 | 0 | 0 |
| 108902 | 'B4gat1' | 159.7 | 156.2 | 176 | 132 | 144 | 203.1 | 135 | 169.4 | 156.2 | 145.86 |
| 108903 | 'Tbcd' | 17.18 | 8.42 | 15.4 | 7.21 | 25.1 | 9.03 | 21 | 8.97 | 15.22 | 11.82 |
| 108907 | 'Nusap1' | 0.02 | 1.71 | 0 | 0.06 | 0 | 0.51 | 0 | 0 | 0 | 0.04 |
| 108909 | 'Aida' | 5.45 | 7.6 | 14.5 | 22.7 | 8.61 | 6.21 | 5.41 | 8.33 | 9.73 | 5.05 |
| 108911 | 'Rcc2' | 11.9 | 13.52 | 4.35 | 10.2 | 11.2 | 6.9 | 4.65 | 4.32 | 9.85 | 9.94 |
| 108912 | 'Cdca2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.26 | 0 | 0 |
| 108927 | 'Lhfp' | 7.53 | 18.17 | 4.24 | 1.25 | 18.7 | 11.19 | 7.02 | 8.15 | 10.37 | 13.28 |
| 108934 | 'Smim13' | 3.39 | 4.22 | 3.54 | 3.66 | 8.12 | 2.56 | 8.27 | 4.79 | 11.04 | 4.57 |
| 108937 | 'Rnf169' | 2.11 | 1.08 | 0.7 | 2.47 | 1.02 | 0.51 | 0.01 | 3.48 | 0.57 | 0.23 |
| 108943 | 'Trmt10a' | 9.62 | 4.53 | 8.66 | 2.5 | 2.36 | 24.98 | 6.06 | 11.52 | 10.39 | 10.4 |
| 108946 | 'Zzz3' | 3.66 | 0.77 | 3.23 | 0.21 | 3.6 | 0.92 | 0.3 | 2.84 | 5.42 | 7.48 |
| 108954 | 'Ppp1r15b' | 1.31 | 7.18 | 6 | 6.73 | 2.77 | 0.58 | 2.49 | 3.97 | 6.33 | 4.6 |
| 108958 | 'Miga2' | 15.56 | 25.24 | 36.7 | 3.91 | 39 | 8.11 | 30.6 | 20.83 | 24.43 | 28.69 |
| 108960 | 'Irak2' | 10.62 | 10.84 | 4.71 | 8.47 | 15.5 | 8.42 | 5.01 | 7.25 | 8.66 | 4.22 |
| 108978 | '4930555G01Rik' | 0.92 | 1.15 | 1.67 | 0.84 | 0.47 | 0.4 | 1.06 | 0.56 | 0.41 | 0.97 |
| 108989 | 'Tpr' | 7.14 | 8.91 | 8.49 | 17.3 | 10.4 | 13.37 | 8.36 | 8.42 | 10.52 | 4.49 |
| 108995 | 'Tbc1d10c' | 0 | 0 | 0 | 5.73 | 0 | 0 | 0 | 0 | 6.26 | 0 |
| 109006 | 'Ciapin1' | 85.69 | 38.62 | 74.6 | 67.5 | 58.4 | 76.35 | 61.6 | 63.89 | 61.86 | 77.51 |
| 109019 | 'Nabp1' | 7.7 | 12.02 | 5.6 | 2.05 | 5.16 | 0.04 | 16.3 | 1.19 | 0.58 | 4.73 |
| 109032 | 'Sp110' | 0 | 0.05 | 0.03 | 0 | 0.06 | 0.03 | 0 | 0.05 | 0.07 | 6.62 |
| 109042 | 'Cavin3' | 27.45 | 21.68 | 24.1 | 7.26 | 14.1 | 29.84 | 18.5 | 9.56 | 10.86 | 20.52 |
| 109050 | 'Inka2' | 0.01 | 0 | 4.42 | 0.38 | 1.85 | 5.68 | 1.57 | 0 | 2.51 | 7.46 |
| 109054 | 'Pfdn4' | 37.66 | 59.17 | 39.2 | 44.5 | 36.6 | 42.68 | 38.3 | 39.65 | 45.29 | 35.77 |
| 109065 | 'Dnaaf2' | 3.56 | 7.4 | 10.7 | 29.5 | 2.24 | 6.13 | 5.41 | 7.31 | 3.51 | 6.11 |
| 109075 | 'Exosc4' | 70.11 | 53.38 | 44 | 34.8 | 55.8 | 58.15 | 32.7 | 48.97 | 51.42 | 61.41 |
| 109077 | 'Ints5' | 5.19 | 2.62 | 3.54 | 0.02 | 4.39 | 3.94 | 3.64 | 8.63 | 0.89 | 3.42 |
| 109079 | 'Sephs1' | 0.25 | 2.29 | 3.77 | 3.65 | 1.52 | 5.2 | 6.14 | 1.47 | 4.11 | 3.95 |
| 109082 | 'Fbxw17' | 29.34 | 26.85 | 8.81 | 0.17 | 11.1 | 28.04 | 8.63 | 9.29 | 17.89 | 35.29 |
| 109093 | 'Rars2' | 23.14 | 24.55 | 21.8 | 49 | 23.7 | 21.83 | 29.8 | 48.58 | 37.76 | 16.94 |
| 109095 | 'Rbm15b' | 2.62 | 4.17 | 2.42 | 8.23 | 0.11 | 0.3 | 4.8 | 5.47 | 1.49 | 1.29 |
| 109108 | 'Slc30a9' | 31.83 | 28.28 | 31.9 | 51.9 | 25.1 | 18.45 | 32 | 20.41 | 50.76 | 6.38 |

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|--------|--------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 109113 | 'Uhrf2' | 8.05 | 7.94 | 5.07 | 0.98 | 4.34 | 6.07 | 4.36 | 2.74 | 5.34 | 5 |
| 109115 | 'Supt3' | 6.24 | 7.97 | 9.05 | 5.25 | 14 | 4.46 | 13.6 | 3.52 | 7.92 | 9.65 |
| 109129 | 'Mmadhc' | 48.25 | 78.27 | 63.4 | 56.3 | 70.6 | 41.8 | 69.7 | 48.86 | 59.64 | 62.14 |
| 109135 | 'Plekha5' | 5.98 | 5.79 | 6.16 | 3.42 | 10.8 | 9.8 | 9.34 | 9.27 | 7.32 | 6.7 |
| 109136 | 'Mmaa' | 1.98 | 14.69 | 6.57 | 6.55 | 10.6 | 11.53 | 4.75 | 7.25 | 5.76 | 15.01 |
| 109145 | 'Gins4' | 36.6 | 34.89 | 2.3 | 9.58 | 33.7 | 44.82 | 33.4 | 34.18 | 32.34 | 15.09 |
| 109151 | 'Chd9' | 4.24 | 5.25 | 4.55 | 3.34 | 7.7 | 4.04 | 3.92 | 3.85 | 4.9 | 3.59 |
| 109154 | 'Mlec' | 12.22 | 8.69 | 8.38 | 14.1 | 10.5 | 4.94 | 8.75 | 7.23 | 16.78 | 7.95 |
| 109161 | 'Ube2q2' | 14.29 | 16.09 | 15.1 | 19.4 | 13.9 | 13.45 | 18.5 | 10.95 | 17.42 | 17.27 |
| 109168 | 'Atl3' | 2.28 | 0 | 0.16 | 0.47 | 0.62 | 1.12 | 0.65 | 0.7 | 0.59 | 0 |
| 109169 | 'Igip' | 12.11 | 4.22 | 9.26 | 2.86 | 7.48 | 22.73 | 18.3 | 1.24 | 8.75 | 3.46 |
| 109181 | 'Trip11' | 5.64 | 8.52 | 8.84 | 12.9 | 14.5 | 14.14 | 8.89 | 7.19 | 11.84 | 10.59 |
| 109205 | 'Sobp' | 4.01 | 0.67 | 2.5 | 7.08 | 2.05 | 1.95 | 1.47 | 0.58 | 0.93 | 3.88 |
| 109222 | 'Rarres1' | 0 | 0 | 0.03 | 0 | 0 | 5.14 | 0 | 0 | 1.95 | 0 |
| 109229 | 'Fam118b' | 19.93 | 25.66 | 15.5 | 14.5 | 24.2 | 6.62 | 5.26 | 23.03 | 15.02 | 5.8 |
| 109232 | 'Sccpdh' | 252.4 | 220.6 | 167 | 309 | 126 | 203.6 | 114 | 208.6 | 127.8 | 120.41 |
| 109241 | 'Mbd5' | 7.23 | 5.89 | 5.39 | 5.74 | 3.52 | 3.31 | 10.7 | 5.89 | 2.32 | 4.45 |
| 109242 | 'Kif24' | 0.01 | 0.46 | 0.17 | 1.63 | 0.02 | 0.08 | 1.92 | 0.13 | 0.03 | 0.46 |
| 109245 | 'Lrrc39' | 0.42 | 0.04 | 0.97 | 0.1 | 0.04 | 0.04 | 0.08 | 0.19 | 3.43 | 3.54 |
| 109246 | 'Tspan9' | 5.75 | 3.27 | 1.37 | 0.02 | 6.21 | 5.41 | 0.01 | 2.8 | 0 | 0.02 |
| 109263 | 'Rlf' | 0.93 | 2.26 | 2.41 | 5.72 | 1.85 | 1.69 | 1 | 0.91 | 4.29 | 2.14 |
| 109264 | 'Me3' | 16.28 | 4.09 | 18 | 19.9 | 30.5 | 25.22 | 9.29 | 28.65 | 8.71 | 12.83 |
| 109267 | 'Ssc4d' | 1.68 | 0 | 0.11 | 0 | 0.29 | 0 | 0 | 0.07 | 2.42 | 0.03 |
| 109270 | 'Prr5' | 14.26 | 19.66 | 26.1 | 21.6 | 10.7 | 8.52 | 16.4 | 32.15 | 21.48 | 15.29 |
| 109275 | 'Actr5' | 0.25 | 2.23 | 1.64 | 0.05 | 5.09 | 0 | 6.67 | 0 | 0 | 2.81 |
| 109284 | 'R3hdm4' | 26.97 | 34.05 | 55.2 | 26.2 | 86.5 | 36.21 | 40.5 | 39.26 | 10.39 | 21.19 |
| 109294 | 'Prex2' | 1.01 | 0.64 | 0.46 | 0 | 0 | 0.53 | 1.23 | 1.1 | 0.71 | 0.01 |
| 109299 | 'Tmem250-ps' | 149.5 | 163.4 | 72.8 | 109 | 195 | 243.7 | 137 | 189 | 149.6 | 231.94 |
| 109305 | 'Orai1' | 0.17 | 0 | 7.23 | 0 | 0 | 2.28 | 0 | 0 | 0 | 0 |
| 109331 | 'Rnf20' | 6.84 | 11.19 | 8.27 | 4.15 | 7.45 | 9.47 | 10.7 | 8.4 | 9.71 | 7.09 |
| 109332 | 'Cdcp1' | 0 | 0.1 | 1.63 | 0 | 0 | 0 | 0 | 0.22 | 0.05 | 3.39 |
| 109333 | 'Pkn2' | 0.01 | 0.11 | 3.25 | 1.28 | 0.07 | 0.88 | 1.06 | 0.04 | 0.04 | 1.97 |
| 109346 | 'Ankrd39' | 16.25 | 25.08 | 36.5 | 19 | 31.3 | 13.89 | 24 | 23.27 | 21.22 | 53.56 |
| 109349 | 'Fam163b' | 19.86 | 10.3 | 9.98 | 6.66 | 16.2 | 2.45 | 8.05 | 26.43 | 5.83 | 9.23 |
| 109359 | 'Abraxas2' | 24.88 | 16.52 | 11 | 7.14 | 6.12 | 10.68 | 4.42 | 16.73 | 12.57 | 19.93 |
| 109552 | 'Sri' | 37.62 | 29.48 | 38.6 | 14.5 | 72.1 | 45.53 | 66.3 | 50.42 | 53.5 | 34.32 |
| 109575 | 'Tbx10' | 0 | 0 | 0 | 0 | 0 | 1.94 | 0.05 | 0 | 0 | 0.02 |
| 109593 | 'Lmo3' | 5.24 | 23.48 | 5.75 | 0.06 | 24.2 | 7.63 | 17.8 | 8.85 | 0.08 | 3.24 |
| 109594 | 'Lmo1' | 54.19 | 33.17 | 4.84 | 0 | 0 | 12.47 | 14.3 | 9.62 | 8.17 | 18.89 |
| 109620 | 'Dsp' | 0.02 | 0 | 0.06 | 0 | 0.01 | 0.03 | 0.03 | 0.01 | 0.02 | 0.01 |
| 109624 | 'Cald1' | 1.28 | 1.09 | 2.31 | 3.88 | 1.26 | 3.76 | 3.75 | 0.77 | 4.97 | 6.19 |
| 109637 | 'Upk1a' | 0 | 0.15 | 0.04 | 0 | 2.69 | 0 | 0 | 0 | 2.51 | 0 |
| 109648 | 'Npy' | 3.78 | 0 | 0 | 0 | 0 | 0 | 0 | 6.54 | 0 | 0 |
| 109652 | 'Acy1' | 4.47 | 15.31 | 1.79 | 5.54 | 3.5 | 7.51 | 0 | 13.13 | 9.95 | 6.22 |
| 109658 | 'Txlna' | 6.23 | 17.74 | 5.77 | 14.6 | 5.57 | 6.06 | 4.07 | 12.62 | 8.86 | 9.13 |
| 109660 | 'Ctrl' | 1.88 | 0 | 0.11 | 8.42 | 2.03 | 0 | 0 | 5.58 | 0 | 2.47 |
| 109672 | 'Cyb5a' | 130 | 160.8 | 85.5 | 170 | 111 | 183.7 | 192 | 103.2 | 117.8 | 166.02 |
| 109674 | 'Ampd2' | 54.66 | 52.89 | 55.7 | 30.1 | 40.7 | 48.09 | 54.6 | 60.34 | 116.9 | 117.99 |
| 109676 | 'Ank2' | 10.61 | 7.13 | 19.7 | 11.5 | 12.9 | 14.68 | 17.9 | 9.32 | 9.5 | 11.58 |
| 109685 | 'Hyal3' | 1.43 | 5.68 | 3.02 | 0.45 | 0.09 | 0.16 | 0.21 | 2.35 | 8.22 | 0.26 |
| 109689 | 'Arrb1' | 6.57 | 3.53 | 2.94 | 1.13 | 2.03 | 4.08 | 13.3 | 5.59 | 8.09 | 3.15 |
| 109711 | 'Actn1' | 0.74 | 0.67 | 1.58 | 0.62 | 0.58 | 0.35 | 1.55 | 0.16 | 0.97 | 0.59 |
| 109731 | 'Maob' | 9.53 | 10.55 | 17.7 | 11.1 | 2.99 | 32.43 | 11.4 | 47.76 | 26.82 | 6.21 |
| 109754 | 'Cyb5r3' | 113.9 | 116.8 | 143 | 98.4 | 170 | 125.4 | 84.4 | 108.5 | 137.4 | 151.03 |
| 109778 | 'Blvra' | 30.71 | 31.51 | 39.4 | 43.9 | 22.8 | 30.63 | 32 | 40.31 | 48.57 | 62.04 |
| 109785 | 'Pgm3' | 20.15 | 17.76 | 23.3 | 29.6 | 3.17 | 20.68 | 19.6 | 29.11 | 31.9 | 29.67 |
| 109801 | 'Glo1' | 127.9 | 133.6 | 65 | 49.1 | 111 | 130.3 | 75.9 | 80.19 | 101.4 | 119.42 |
| 109815 | 'Selenos' | 63.5 | 54.01 | 52.7 | 157 | 40.5 | 48.1 | 81.7 | 89.7 | 86.73 | 72.85 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 109828 | 'C7' | 0.02 | 0 | 0.37 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.42 |
| 109857 | 'Cbr3' | 0.08 | 3.72 | 9.68 | 0 | 3.37 | 8.54 | 8.93 | 0 | 0 | 0 |
| 109880 | 'Braf' | 4.75 | 6.21 | 5.69 | 5.78 | 6.95 | 5.37 | 4.61 | 4.76 | 2.55 | 2.11 |
| 109889 | 'Mzf1' | 2.71 | 4.48 | 3.1 | 0.02 | 7.27 | 11.12 | 8.27 | 7.77 | 6.17 | 6.71 |
| 109900 | 'Asl' | 25.06 | 51.79 | 51.5 | 67.4 | 42 | 66.1 | 43.8 | 38.04 | 123.2 | 45.69 |
| 109901 | 'Cela1' | 1.64 | 3.13 | 0 | 0 | 5.81 | 0 | 0 | 0 | 0 | 0 |
| 109904 | 'Mcf2' | 0.07 | 0 | 0 | 1.24 | 2.73 | 0.33 | 3.26 | 1.35 | 1.49 | 0 |
| 109905 | 'Rap1a' | 8.2 | 12.4 | 11.7 | 10.2 | 11.7 | 18.94 | 9.07 | 7.95 | 5.81 | 4.38 |
| 109910 | 'Zfp91' | 3.98 | 3.07 | 3.03 | 7.93 | 4.11 | 2.39 | 2.49 | 1.94 | 1.59 | 1.06 |
| 109929 | 'Zbtb25' | 6.82 | 5.68 | 6.33 | 9.89 | 6.11 | 3.24 | 11.3 | 12.66 | 6.48 | 6.1 |
| 109934 | 'Abr' | 39.89 | 57.31 | 61.8 | 40.6 | 25.1 | 12.53 | 50.3 | 32.28 | 26.57 | 32.78 |
| 109959 | 'Amy2a5' | 0 | 0 | 1.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 109978 | 'Art4' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 109979 | 'Art3' | 0.16 | 0.04 | 0.26 | 0.09 | 0 | 0.07 | 0.19 | 0.03 | 0.14 | 0.1 |
| 110006 | 'Gusb' | 13.41 | 11.79 | 9.18 | 19.2 | 15.1 | 33.91 | 24.9 | 12.26 | 27.41 | 23.54 |
| 110012 | 'Tpgs1' | 128.3 | 115.9 | 129 | 161 | 144 | 147.2 | 168 | 179.2 | 154.5 | 169.83 |
| 110033 | 'Kif22' | 1.64 | 0.84 | 0.21 | 1.96 | 4.54 | 2.41 | 1.31 | 0.56 | 0.08 | 0.02 |
| 110052 | 'Dek' | 15.15 | 14.29 | 20.4 | 27.7 | 16.7 | 6.96 | 34 | 12.63 | 20.24 | 7.55 |
| 110058 | 'Syt17' | 15.63 | 2.09 | 27.8 | 10.9 | 23.8 | 19.69 | 7.76 | 9.59 | 5.18 | 6.63 |
| 110074 | 'Dut' | 22.98 | 24.73 | 24.5 | 17.5 | 17.9 | 27.91 | 26.6 | 23.32 | 22.13 | 25.36 |
| 110075 | 'Bmp3' | 0 | 2.95 | 5.38 | 5.31 | 0.01 | 0 | 7.66 | 0.26 | 0 | 0 |
| 110078 | 'Pygb' | 68.45 | 53.53 | 61.2 | 23.6 | 43.3 | 29.45 | 73.2 | 58.82 | 91.91 | 54.81 |
| 110082 | 'Dnah5' | 0 | 0.39 | 0.69 | 0.34 | 0 | 0 | 0 | 0.15 | 0 | 0.4 |
| 110083 | 'Dnah12' | 0.64 | 0.94 | 0.69 | 0.18 | 0.07 | 0.01 | 0.03 | 0.83 | 0.03 | 0.17 |
| 110084 | 'Dnah1' | 6.65 | 13.76 | 9.07 | 5.83 | 16.6 | 3.72 | 10.1 | 6.51 | 7.15 | 15.56 |
| 110094 | 'Phka2' | 1.94 | 2.78 | 6.34 | 8.53 | 1.57 | 9.05 | 4.11 | 3.76 | 2.61 | 5.48 |
| 110095 | 'Pygl' | 2.69 | 2.62 | 2.28 | 0 | 0 | 1.01 | 0 | 5.52 | 0 | 3.85 |
| 110109 | 'Nop2' | 23.7 | 24.97 | 20 | 17.3 | 17.2 | 23.58 | 18.7 | 20.81 | 18.89 | 18.27 |
| 110119 | 'Mpi' | 78.61 | 22.73 | 42.9 | 110 | 69.9 | 93.7 | 66.7 | 78.12 | 53.53 | 42.12 |
| 110147 | 'Ehmt2' | 8.05 | 13.31 | 9.88 | 9.23 | 18.4 | 8.8 | 5.6 | 4.08 | 3.54 | 3.79 |
| 110157 | 'Raf1' | 11.27 | 5.38 | 25.2 | 29.4 | 7.48 | 4.27 | 18.5 | 15 | 5.59 | 4.69 |
| 110168 | 'Gpr18' | 0 | 0.86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110172 | 'Slc35b1' | 76.26 | 74.49 | 75.7 | 61 | 85.9 | 109.2 | 96.5 | 103.9 | 72.64 | 71.87 |
| 110173 | 'Manba' | 7.38 | 0.41 | 6.9 | 0.92 | 0.99 | 2.27 | 4.39 | 3.47 | 8 | 20.49 |
| 110175 | 'Ggct' | 15.02 | 23.72 | 18.6 | 13.3 | 16 | 20.93 | 13.9 | 8.07 | 19.46 | 8.17 |
| 110196 | 'Fdps' | 204.1 | 142.2 | 201 | 326 | 201 | 258.9 | 192 | 197 | 157.5 | 191 |
| 110197 | 'Dgkg' | 27.7 | 29.38 | 27.2 | 13.8 | 13.2 | 5.37 | 27.4 | 31.7 | 23.17 | 29 |
| 110198 | 'Akr7a5' | 38.4 | 44.96 | 44.3 | 4.86 | 27.4 | 63.84 | 54.6 | 29.29 | 40.01 | 45.82 |
| 110208 | 'Pgd' | 24.56 | 49.4 | 38.4 | 39.6 | 12.3 | 54.7 | 47.2 | 31.53 | 19.88 | 26.68 |
| 110213 | 'Tmbim6' | 265.5 | 273.4 | 285 | 253 | 270 | 412.1 | 294 | 301.3 | 308.7 | 325.51 |
| 110253 | 'Triobp' | 0.93 | 0.92 | 0 | 0 | 0.04 | 0 | 0 | 2.39 | 0.05 | 0.05 |
| 110257 | 'Hba-a2' | 19.05 | 0 | 23.1 | 45.4 | 9.34 | 14.66 | 0 | 14.75 | 21.29 | 3.57 |
| 110265 | 'Msra' | 21.75 | 3.38 | 24.9 | 9.07 | 5.03 | 19.09 | 35.4 | 52.15 | 11.84 | 10.19 |
| 110279 | 'Bcr' | 4.44 | 1.76 | 2.65 | 12.5 | 5.85 | 3.01 | 2.31 | 2.81 | 2.35 | 7.92 |
| 110304 | 'Gfra3' | 7.25 | 19.66 | 1.42 | 0.04 | 1.32 | 2.91 | 1.83 | 6.06 | 5.71 | 4.57 |
| 110323 | 'Cox6b1' | 1219 | 1097 | 1389 | 1389 | 1165 | 1729 | 1334 | 956.6 | 1563 | 1216.78 |
| 110326 | 'Tas1r1' | 1.03 | 3.6 | 1.37 | 0 | 2.75 | 0 | 0.02 | 0.87 | 0.7 | 0.02 |
| 110332 | 'Pp2d1' | 0.67 | 0.02 | 0 | 0 | 0.09 | 0 | 0.34 | 1.79 | 1.15 | 1.02 |
| 110350 | 'Dync2h1' | 10.22 | 8.34 | 4.26 | 10.1 | 8.48 | 4.61 | 4.8 | 7.63 | 8.08 | 18.91 |
| 110351 | 'Rap1gap' | 53.05 | 34.56 | 77 | 46.2 | 37.5 | 35.35 | 73.3 | 42.69 | 82.45 | 31.03 |
| 110355 | 'Grk2' | 10.23 | 10.68 | 7.19 | 5.51 | 19.8 | 19.38 | 7.12 | 8.95 | 19.44 | 9.13 |
| 110379 | 'Sec13' | 92.67 | 98.6 | 112 | 97.3 | 98 | 135 | 119 | 95.16 | 100.1 | 139.74 |
| 110380 | 'Shroom2' | 9.59 | 15 | 13.6 | 9.5 | 10.5 | 2.55 | 20.6 | 18.11 | 8.04 | 8.05 |
| 110385 | 'Pde4c' | 0.1 | 0.07 | 0.17 | 0.15 | 0.03 | 0.11 | 0.18 | 0.08 | 0 | 0.07 |
| 110391 | 'Qdpr' | 282.7 | 233 | 207 | 212 | 391 | 498.1 | 171 | 222.7 | 262.8 | 276.63 |
| 110417 | 'Pigh' | 5.18 | 15.54 | 3.26 | 6.76 | 14.5 | 3.11 | 15.3 | 24.53 | 10.6 | 11.99 |
| 110446 | 'Acat1' | 66.48 | 49.45 | 61 | 46.8 | 43.9 | 65.34 | 98.4 | 60.93 | 71.03 | 56.06 |
| 110454 | 'Ly6a' | 0 | 0 | 0 | 0 | 0 | 5.54 | 0 | 0 | 0 | 0 |

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|--------|---------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 110460 | 'Acat2' | 82.28 | 66.31 | 71.5 | 85.2 | 72.3 | 58.77 | 86.1 | 79.65 | 61.28 | 51.44 |
| 110521 | 'Hivep1' | 0.56 | 0.75 | 4.42 | 0.32 | 0.31 | 0.66 | 0.5 | 0.77 | 0.02 | 0.6 |
| 110524 | 'Dgkq' | 12.91 | 7.4 | 14.9 | 18.8 | 6.43 | 10.88 | 14.8 | 10.81 | 19.66 | 3.89 |
| 110532 | 'Adarb1' | 6.82 | 0.7 | 2.95 | 3.86 | 6.41 | 2.81 | 6.4 | 3.99 | 3.45 | 3.2 |
| 110542 | 'Amhr2' | 0 | 0.32 | 0 | 0.03 | 0.08 | 5.3 | 0 | 0 | 0 | 0.73 |
| 110557 | 'H2-Q6' | 0 | 0 | 0 | 0 | 0 | 0.14 | 0 | 0 | 0 | 0 |
| 110558 | 'H2-Q9' | 0 | 0.41 | 0.03 | 0.6 | 0.82 | 1.03 | 0 | 0.43 | 1.55 | 0 |
| 110593 | 'Prdm2' | 5.4 | 3.32 | 7.33 | 7.01 | 3.8 | 4.73 | 3.02 | 2.87 | 4.4 | 5.91 |
| 110595 | 'Timp4' | 37.99 | 23.24 | 21.5 | 3.38 | 5.31 | 19.48 | 31.8 | 12.93 | 10.98 | 12.06 |
| 110596 | 'Arhgef28' | 5.39 | 6.55 | 5.44 | 2.37 | 6.48 | 6.11 | 1.41 | 5.68 | 4.07 | 4.44 |
| 110606 | 'Fntb' | 24.74 | 45.45 | 21.8 | 21.2 | 22.1 | 14.07 | 12.4 | 34.86 | 23.7 | 26.02 |
| 110611 | 'Hdlbp' | 12.93 | 11.6 | 18.7 | 12.4 | 11.1 | 1.69 | 18.5 | 9.02 | 5.66 | 14.83 |
| 110616 | 'Atxn3' | 0.14 | 3.53 | 3 | 3.86 | 6.46 | 0 | 3.79 | 1.28 | 2.23 | 4.2 |
| 110637 | 'Grik4' | 1.13 | 6.24 | 1.07 | 2.97 | 7.76 | 0.64 | 15.5 | 2.92 | 15.41 | 7.62 |
| 110639 | 'Prps2' | 2.54 | 8.75 | 17 | 5.11 | 7.31 | 1.12 | 7.36 | 4.55 | 11.36 | 4.56 |
| 110648 | 'Lmx1a' | 0 | 0 | 0 | 0.51 | 0 | 0 | 0 | 0 | 0 | 0.45 |
| 110651 | 'Rps6ka3' | 0.01 | 0.13 | 0.01 | 0.62 | 0.05 | 0 | 1.56 | 0 | 0.73 | 0 |
| 110695 | 'Aldh7a1' | 29.01 | 19.66 | 13.1 | 5.97 | 13.8 | 38.72 | 21 | 9.8 | 17.95 | 28.56 |
| 110749 | 'Chaf1b' | 0 | 0.63 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110750 | 'Cse1l' | 31.7 | 17.56 | 26.4 | 11.1 | 13.7 | 10.1 | 30.3 | 32.08 | 16.27 | 37.79 |
| 110751 | 'Adam33' | 0.02 | 8.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 3 |
| 110784 | 'Nr3c2' | 3.42 | 1.35 | 4.57 | 5.58 | 0.24 | 1.97 | 1.15 | 1.39 | 1.39 | 1.39 |
| 110789 | 'Adgrv1' | 0.16 | 0.18 | 0 | 0.01 | 0.42 | 0 | 0 | 0.01 | 0 | 0.03 |
| 110796 | 'Tshz1' | 0.04 | 1 | 0.09 | 1.5 | 1.38 | 0.17 | 0.51 | 0 | 0.01 | 1.96 |
| 110809 | 'Srsf1' | 7.24 | 9.43 | 10.5 | 14.3 | 7.88 | 5.71 | 9.87 | 6.98 | 9.24 | 7.25 |
| 110816 | 'Pwp2' | 5.26 | 8.37 | 13.8 | 15.3 | 1.95 | 4.05 | 6.28 | 5.23 | 3.96 | 10.64 |
| 110821 | 'Pcca' | 10.81 | 13.13 | 8.65 | 15.4 | 19.8 | 13.7 | 2.32 | 15.85 | 0.78 | 20.98 |
| 110826 | 'Etfb' | 139.2 | 120.5 | 134 | 157 | 163 | 210.8 | 74 | 147.8 | 140.5 | 134.23 |
| 110829 | 'Lims1' | 10.19 | 3.77 | 7.81 | 4.24 | 5.98 | 7.35 | 4.52 | 5.09 | 6.87 | 2.81 |
| 110834 | 'Chrna3' | 22.84 | 4.6 | 18.7 | 5.12 | 0.14 | 0 | 2.19 | 1.47 | 0 | 6.34 |
| 110842 | 'Etf1a' | 51.54 | 42.88 | 63.7 | 53.4 | 60.8 | 97.03 | 36 | 61.32 | 89.64 | 51.6 |
| 110854 | 'Ptpa' | 132.2 | 126.4 | 135 | 78.1 | 88.9 | 113.9 | 156 | 130.6 | 141.5 | 122.3 |
| 110862 | 'Kcnq3' | 1.27 | 3.55 | 0.09 | 0.24 | 2.54 | 1.46 | 0.83 | 0.31 | 0.11 | 2.88 |
| 110876 | 'Scn2a' | 14.8 | 13.77 | 24.2 | 17.7 | 18.3 | 12.38 | 27.5 | 15.91 | 12.85 | 23.12 |
| 110877 | 'Slc18a1' | 0 | 0.56 | 0.97 | 0 | 2.67 | 1.42 | 0 | 0 | 1.46 | 5.96 |
| 110880 | 'Scn4a' | 0.01 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 110886 | 'Gabra5' | 16.21 | 36.77 | 32.9 | 54.2 | 20.2 | 10.55 | 28.9 | 86.78 | 29.47 | 15.06 |
| 110891 | 'Slc8a2' | 0.33 | 0.42 | 0.6 | 0.83 | 0.03 | 0.26 | 0.21 | 1.11 | 0.04 | 0 |
| 110893 | 'Slc8a3' | 7.03 | 2.11 | 9.15 | 12.6 | 5.07 | 9.65 | 10.7 | 4.32 | 2.88 | 1.3 |
| 110902 | 'Chrna2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 110911 | 'Cds2' | 15.76 | 15.89 | 21.6 | 23.1 | 20.5 | 17.21 | 26 | 15.09 | 17.49 | 15.03 |
| 110920 | 'Hspa13' | 39.21 | 41.88 | 30.5 | 31.8 | 6.42 | 15.24 | 23.7 | 21.31 | 26.39 | 28.65 |
| 110935 | 'Atp6v1b1' | 0.44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110948 | 'Hlcs' | 2.4 | 5.4 | 4.46 | 3.61 | 0.21 | 3.13 | 4.67 | 0.81 | 2.29 | 8.45 |
| 110954 | 'Rpl10' | 301.4 | 347.4 | 298 | 369 | 266 | 287 | 299 | 276.1 | 162.7 | 325.36 |
| 110956 | 'D17H6S56E-5' | 0.25 | 0.27 | 2.39 | 0.73 | 0.26 | 0.19 | 3.54 | 2.41 | 0.2 | 0.52 |
| 110957 | 'D1Pas1' | 0 | 0 | 0.03 | 0 | 0 | 0.07 | 0 | 0.01 | 0 | 0 |
| 110959 | 'Nudt19' | 50.33 | 64.56 | 72.3 | 68 | 47.9 | 73.29 | 49.6 | 57.52 | 65.64 | 25.51 |
| 110960 | 'Tars' | 19.16 | 32.31 | 16 | 36.6 | 11.5 | 21.28 | 14.1 | 17.73 | 16.61 | 38.96 |
| 110962 | 'Mbd6' | 1.96 | 2.69 | 0.71 | 1.16 | 1.86 | 3.44 | 0.02 | 0.24 | 5.15 | 0.98 |
| 111173 | 'Erc1' | 7.88 | 9.27 | 7.94 | 1.91 | 10 | 2.47 | 8.28 | 5.78 | 7.83 | 6.18 |
| 111174 | 'Taar1' | 0 | 0 | 0 | 7.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 111175 | 'Pecr' | 14.12 | 2.45 | 3 | 11.4 | 15.7 | 13.68 | 0 | 3.13 | 6.25 | 6.25 |
| 111241 | 'Hmga1b' | 0.07 | 0 | 0 | 0.06 | 0 | 0.02 | 0 | 0.05 | 0.13 | 0.04 |
| 112403 | 'Dxo' | 32.37 | 19.04 | 12 | 44.2 | 25.1 | 31.68 | 25.8 | 15.31 | 44.39 | 18.52 |
| 112405 | 'Egln1' | 0.29 | 0 | 4.72 | 2.3 | 5.44 | 1.76 | 6.56 | 2.42 | 0.06 | 1.28 |
| 112406 | 'Egln2' | 54.48 | 45.48 | 55.5 | 10.3 | 39.4 | 22.4 | 67.2 | 38.97 | 78.11 | 18.68 |
| 112407 | 'Egln3' | 2.21 | 0 | 2.48 | 0.02 | 0 | 2.37 | 0 | 0.54 | 0 | 0 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 112415 | 'Zfp607b' | 1.4 | 2.25 | 0.4 | 5.97 | 3.72 | 6.47 | 6.44 | 3.33 | 5.97 | 2.75 |
| 112418 | '1700102P08Rik' | 0 | 1.53 | 3.07 | 0 | 0.41 | 0 | 0 | 1.76 | 1.17 | 0.12 |
| 112419 | 'lfit1bl2' | 0.01 | 0 | 0.03 | 0.05 | 0.03 | 0.03 | 0.16 | 0 | 0.04 | 0 |
| 112422 | 'Zfp979' | 0.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11287 | 'Pzp' | 0 | 0.12 | 0 | 0 | 0 | 0.03 | 0.01 | 0.02 | 0 | 0 |
| 11298 | 'Aanat' | 1.77 | 0 | 0 | 0 | 0 | 0 | 0 | 1.42 | 2.97 | 0 |
| 11302 | 'Aatk' | 7.11 | 16.59 | 26 | 17.5 | 12.2 | 7.54 | 17.2 | 6.15 | 9.77 | 7.67 |
| 11303 | 'Abca1' | 0.01 | 0.18 | 0 | 1.42 | 0.67 | 0.17 | 0 | 1.4 | 0 | 0 |
| 11304 | 'Abca4' | 0.01 | 0.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11305 | 'Abca2' | 8.81 | 7.02 | 6.91 | 6.46 | 8.94 | 2.72 | 7.05 | 5.15 | 10.23 | 9.73 |
| 11306 | 'Abcb7' | 0.93 | 0.71 | 4.4 | 5.8 | 0.69 | 1.59 | 0.53 | 0.28 | 1.52 | 7.06 |
| 11307 | 'Abcg1' | 37.69 | 32.57 | 45.6 | 29.4 | 45.6 | 51.71 | 35.3 | 36.12 | 31.84 | 35.82 |
| 11308 | 'Abi1' | 39.13 | 38.52 | 34.6 | 26 | 31.6 | 27.75 | 58 | 24.44 | 37.73 | 32.55 |
| 11350 | 'Abl1' | 2.26 | 1.03 | 2.13 | 0.93 | 1.16 | 0.01 | 1.48 | 0.7 | 1.38 | 1.55 |
| 11352 | 'Abl2' | 1.09 | 1.47 | 2.53 | 3.68 | 3.08 | 0.24 | 2.58 | 1.86 | 0.62 | 0.71 |
| 11363 | 'Acadl' | 16.35 | 4.3 | 8.29 | 0.18 | 2.64 | 28.76 | 24 | 2.27 | 13.49 | 2.85 |
| 11364 | 'Acadm' | 31.44 | 23.13 | 24.2 | 18.5 | 21.1 | 20.84 | 13.9 | 18.07 | 21.74 | 11.89 |
| 11370 | 'Acadvl' | 47.98 | 66.97 | 55.6 | 43.1 | 67.5 | 51.03 | 39.6 | 74.15 | 65.2 | 35.04 |
| 113868 | 'Acaa1a' | 71.19 | 77.04 | 71.3 | 51.4 | 79.6 | 121.5 | 89 | 79.07 | 67.36 | 92.71 |
| 11409 | 'Acads' | 2.67 | 1.21 | 5.76 | 1.9 | 0.16 | 2.84 | 6.29 | 4.58 | 4.03 | 16.02 |
| 114128 | 'Laptm4b' | 37.69 | 76.41 | 74.2 | 49.8 | 39.9 | 57.63 | 33.8 | 64.56 | 44.22 | 69.19 |
| 114142 | 'Foxp2' | 0.74 | 0.22 | 1.93 | 0 | 19.5 | 6.1 | 0.22 | 0 | 0.22 | 2.41 |
| 114143 | 'Atp6v0b' | 703.2 | 608 | 650 | 767 | 723 | 875.1 | 677 | 702.5 | 800.6 | 863.47 |
| 11416 | 'Slc33a1' | 12.04 | 9.48 | 14.4 | 3.48 | 12.6 | 4.72 | 13.3 | 13.89 | 19.66 | 21.91 |
| 11418 | 'Asic2' | 10.46 | 26.64 | 33.2 | 18.4 | 14.1 | 12.85 | 20.7 | 9.95 | 27.09 | 14.31 |
| 11419 | 'Asic1' | 9.31 | 7.09 | 5.86 | 14.1 | 11.7 | 11.28 | 14.8 | 6.85 | 2.91 | 5.68 |
| 11421 | 'Ace' | 1.68 | 0.62 | 3.81 | 3.15 | 1.03 | 0.79 | 5.62 | 1.63 | 10.48 | 3.21 |
| 114229 | 'Kiss1r' | 2.44 | 2.46 | 5.8 | 0 | 28.1 | 7.18 | 0.04 | 4.64 | 0.41 | 1.18 |
| 11423 | 'Ache' | 243.2 | 220.7 | 199 | 48.9 | 309 | 252.5 | 209 | 289.8 | 208.8 | 239.6 |
| 114230 | 'Aipl1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.06 |
| 114249 | 'Npnt' | 0 | 0 | 0.01 | 0 | 0 | 0 | 2.74 | 0.01 | 6.95 | 0.92 |
| 114255 | 'Dok4' | 2.15 | 5.67 | 5.52 | 9.78 | 0 | 3.75 | 5.94 | 13.31 | 5.83 | 0.27 |
| 11426 | 'Macf1' | 7.07 | 7.21 | 6.76 | 5.01 | 5.34 | 7.42 | 6.4 | 4.92 | 6.2 | 6.85 |
| 11428 | 'Aco1' | 8.24 | 4.3 | 4.65 | 0.01 | 3.7 | 4.71 | 13.8 | 2.94 | 3.69 | 10.53 |
| 11429 | 'Aco2' | 123.6 | 186.6 | 295 | 97 | 172 | 215.5 | 165 | 190.9 | 97.12 | 164.33 |
| 11430 | 'Acox1' | 25.49 | 28.45 | 41.3 | 18.1 | 23.2 | 11.02 | 34.9 | 21.61 | 30.07 | 41.89 |
| 114301 | 'Palmd' | 16.05 | 3.46 | 0 | 8.58 | 18.9 | 0.46 | 5.12 | 4.35 | 2.25 | 2.46 |
| 114304 | 'Slc28a3' | 0.14 | 0.18 | 0.13 | 0.3 | 0.19 | 0.11 | 0.09 | 0.05 | 0.14 | 0.08 |
| 11431 | 'Acp1' | 66.26 | 55.23 | 54.8 | 62.9 | 78 | 103.9 | 53.1 | 72.25 | 77.06 | 67.87 |
| 11432 | 'Acp2' | 23.93 | 43.06 | 34.9 | 43.5 | 38.1 | 22.39 | 30.4 | 44.45 | 31 | 52.81 |
| 11434 | 'Acr' | 1.14 | 0.42 | 0.13 | 4.09 | 0.03 | 0.07 | 1.12 | 1.01 | 3.31 | 1.73 |
| 11435 | 'Chrna1' | 0.29 | 1.41 | 0.95 | 0.76 | 0.89 | 1.13 | 0.53 | 0.35 | 0.63 | 1.21 |
| 11438 | 'Chrna4' | 1.63 | 0 | 9.81 | 0 | 0.17 | 4.4 | 4.91 | 2.85 | 1.99 | 0.76 |
| 11440 | 'Chrna6' | 2.36 | 0 | 0 | 0.02 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 11441 | 'Chrna7' | 14.37 | 3.45 | 0.81 | 4.2 | 0.45 | 0 | 8.62 | 5.25 | 1.11 | 8.13 |
| 11443 | 'Chrn1' | 0 | 0 | 0 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0.04 |
| 11444 | 'Chrn2' | 8.17 | 5.44 | 13.8 | 0.69 | 11.2 | 9.57 | 6.6 | 10.05 | 4.11 | 9.9 |
| 11447 | 'Chrnd' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 114479 | 'Slc5a5' | 22.1 | 19.58 | 44.5 | 23.1 | 10.7 | 5.46 | 10.9 | 75.42 | 3.33 | 0.01 |
| 11449 | 'Chrng' | 0 | 0 | 0.52 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 114565 | 'Zbtb21' | 6.5 | 8.13 | 7.76 | 8.19 | 3.73 | 8.98 | 3.6 | 4.09 | 8.29 | 3.81 |
| 114584 | 'Clic1' | 11.93 | 5.49 | 3.07 | 9.06 | 33.1 | 37.83 | 5.45 | 8.43 | 7.09 | 37.01 |
| 114585 | 'D17H6S53E' | 12.71 | 8.07 | 8.07 | 7.83 | 27.5 | 10.99 | 6.02 | 8.78 | 13.98 | 18.14 |
| 11459 | 'Acta1' | 15.27 | 8.32 | 15 | 7.3 | 6.67 | 7.45 | 10.9 | 10.62 | 20.25 | 25.75 |
| 114601 | 'Ehbp111' | 25.45 | 34.16 | 29.3 | 23.9 | 27.5 | 69.55 | 27.9 | 25.47 | 18.54 | 16.14 |
| 114602 | 'Zmynd10' | 2.99 | 6.68 | 4.97 | 11.2 | 13.5 | 12.22 | 10.4 | 0 | 4.46 | 5.11 |
| 114604 | 'Prdm15' | 1.15 | 1.04 | 1.22 | 0 | 0.47 | 0 | 0 | 0 | 1.52 | 2.63 |
| 114606 | 'Tle6' | 1.66 | 2.01 | 0 | 3.18 | 4.47 | 0.02 | 5.82 | 2.22 | 1.42 | 0.79 |

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|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 11461 | 'Actb' | 1748 | 1508 | 1867 | 1754 | 1960 | 1289 | 1553 | 1709 | 1512 | 1754.8 |
| 114615 | 'Elac1' | 12.52 | 8.02 | 10.1 | 8.09 | 11.1 | 4.88 | 5.35 | 7.84 | 9.77 | 15.88 |
| 11464 | 'Actc1' | 4.47 | 0.77 | 13.6 | 2.5 | 2.8 | 3.94 | 6.91 | 1.48 | 4.47 | 3.97 |
| 114641 | 'Rpl31' | 123 | 132.1 | 130 | 195 | 114 | 157.4 | 117 | 98.41 | 136 | 98.03 |
| 114642 | 'Brdt' | 2.19 | 0.91 | 0.19 | 7.37 | 2.36 | 1.36 | 0.1 | 1.27 | 1.41 | 1.33 |
| 114643 | 'Oas1c' | 0 | 3.57 | 3.3 | 0 | 0 | 6.5 | 6.05 | 0 | 0 | 0.25 |
| 114644 | 'Slc13a3' | 2.25 | 0.12 | 2.3 | 7.89 | 5.59 | 1.2 | 3.23 | 0.06 | 3.36 | 1.8 |
| 11465 | 'Actg1' | 846.4 | 707.6 | 986 | 543 | 790 | 834.2 | 963 | 741.7 | 761.7 | 748.97 |
| 114652 | 'Ly6g5c' | 0 | 0 | 0 | 0.72 | 0 | 0 | 0 | 0 | 0.11 | 0.43 |
| 114654 | 'Ly6g6d' | 3.27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 114663 | 'Impa2' | 0 | 0.39 | 4.37 | 0 | 0 | 0 | 0 | 1.21 | 0 | 1.25 |
| 114664 | 'Hsd17b11' | 8.84 | 7.92 | 6.99 | 2.4 | 9.72 | 7.32 | 1.72 | 2.92 | 9.47 | 13.25 |
| 114674 | 'Gtf2ird2' | 8.77 | 5.31 | 2.48 | 0.02 | 5.5 | 0 | 7.11 | 5.23 | 7.12 | 0.84 |
| 114679 | 'Selenom' | 266.5 | 188.7 | 350 | 334 | 343 | 399.2 | 235 | 297.9 | 392.3 | 350.21 |
| 11471 | 'Actl7b' | 0 | 3.43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 114713 | 'Rasa2' | 1.6 | 3.91 | 5.78 | 0 | 1.56 | 3.54 | 6.15 | 3.33 | 5.86 | 2.73 |
| 114714 | 'Rad51c' | 6.22 | 0 | 1.18 | 0 | 0 | 0.98 | 0 | 0.48 | 4.15 | 2.08 |
| 114715 | 'Spred1' | 2.91 | 3.13 | 2.46 | 4.04 | 1.15 | 2.59 | 7.03 | 1.4 | 1.48 | 5.65 |
| 114716 | 'Spred2' | 1.51 | 3.18 | 3.52 | 8.79 | 1.43 | 0.92 | 2.1 | 1.59 | 4.08 | 2.05 |
| 11472 | 'Actn2' | 3.74 | 2.02 | 0.42 | 1.3 | 1.98 | 0.11 | 0.98 | 0.59 | 4.45 | 0.17 |
| 11474 | 'Actn3' | 0.92 | 1.17 | 0 | 0 | 0 | 0 | 0 | 0 | 1.07 | 0 |
| 114741 | 'Supt16' | 21.46 | 15.81 | 31.8 | 33.1 | 13.5 | 23.91 | 21.7 | 25.44 | 36.74 | 33.17 |
| 11475 | 'Acta2' | 0.14 | 0.07 | 0.04 | 0.4 | 0.02 | 0.02 | 0 | 0.02 | 0.25 | 0 |
| 11477 | 'Acvr1' | 2.18 | 0.48 | 0.33 | 5.37 | 1.67 | 0.55 | 0 | 2.08 | 3.15 | 4.93 |
| 11479 | 'Acvr1b' | 7.21 | 8.65 | 11.5 | 0 | 4.46 | 5.97 | 11.5 | 6.39 | 0.22 | 5.6 |
| 11480 | 'Acvr2a' | 2.47 | 4.11 | 1.17 | 7.2 | 1.04 | 0.85 | 2.73 | 1.45 | 11.85 | 7.35 |
| 11481 | 'Acvr2b' | 1.96 | 1.39 | 6.01 | 3.35 | 4.53 | 1.52 | 0.13 | 0.71 | 0.26 | 3.34 |
| 11482 | 'Acvrl1' | 0 | 0.35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11484 | 'Aspa' | 20.06 | 8.56 | 0.03 | 0 | 7.97 | 7.46 | 0 | 5.93 | 0 | 0 |
| 11486 | 'Ada' | 3.39 | 0 | 0.03 | 0 | 0.03 | 5.58 | 0 | 0 | 0 | 10.07 |
| 114863 | 'Plpbbp' | 56.91 | 29.25 | 30.7 | 28.6 | 29.1 | 37.99 | 51.4 | 43.43 | 32.02 | 45.89 |
| 11487 | 'Adam10' | 9.65 | 13.35 | 7.15 | 12.7 | 14.4 | 7.14 | 5.45 | 6.69 | 7.04 | 9.03 |
| 114871 | 'Psg28' | 0.02 | 0 | 0 | 0 | 0 | 0.12 | 0.03 | 0 | 0.07 | 0 |
| 114872 | 'Psg29' | 0.03 | 0.02 | 0.01 | 0.21 | 0.04 | 0.14 | 0.01 | 0.04 | 0.05 | 0.02 |
| 114873 | 'Dscaml1' | 2.35 | 0.9 | 6.82 | 2.81 | 1.23 | 2.59 | 2.33 | 0.08 | 2.91 | 2.26 |
| 114874 | 'Ddhd1' | 3.79 | 2.34 | 0.63 | 7.21 | 3.15 | 0.29 | 0.93 | 2.19 | 1.72 | 1.65 |
| 114875 | 'Plcz1' | 0.02 | 0 | 0 | 0 | 0 | 4.29 | 0 | 1.31 | 0 | 2.25 |
| 11488 | 'Adam11' | 9.77 | 0.64 | 14.6 | 10.4 | 20.1 | 2.9 | 23.3 | 10.61 | 8 | 1.78 |
| 114886 | 'Cygb' | 27.2 | 30.87 | 48.5 | 32.9 | 36.2 | 43.95 | 63.3 | 37.28 | 71.54 | 24.72 |
| 11489 | 'Adam12' | 0 | 1.22 | 0.23 | 1.88 | 0 | 0 | 1.8 | 0.43 | 0 | 0.02 |
| 114893 | 'Dcun1d1' | 9.41 | 12.37 | 9.33 | 24.4 | 17.8 | 11.87 | 1.97 | 13.21 | 10.17 | 15.82 |
| 114896 | 'Afg3l1' | 5.66 | 5.37 | 4.9 | 7.27 | 5.21 | 4.47 | 8.35 | 3.06 | 9.85 | 6.85 |
| 11490 | 'Adam15' | 7.57 | 15.79 | 27.4 | 18.4 | 10.7 | 6.47 | 7.28 | 14.69 | 10.53 | 7.26 |
| 11491 | 'Adam17' | 0.7 | 3.89 | 0.03 | 0 | 0.21 | 0.13 | 0 | 0.05 | 1.71 | 4.21 |
| 11492 | 'Adam19' | 0.42 | 0.05 | 2.68 | 0 | 0.69 | 1.65 | 0.45 | 0.27 | 0.45 | 0.62 |
| 11496 | 'Adam22' | 53.63 | 58.36 | 77 | 9.39 | 36.3 | 28.93 | 68.7 | 28.36 | 33.99 | 29.54 |
| 11498 | 'Adam4' | 0 | 0 | 0 | 0 | 0 | 0 | 2.22 | 0 | 1.71 | 0 |
| 11499 | 'Adam5' | 0 | 2.49 | 0 | 0 | 0 | 0.02 | 0 | 1.18 | 0 | 0 |
| 11500 | 'Adam7' | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.81 |
| 11501 | 'Adam8' | 0.13 | 4.57 | 2.37 | 2.5 | 0.02 | 1.61 | 0.97 | 1.78 | 3.5 | 2.81 |
| 11502 | 'Adam9' | 3.03 | 2.16 | 11.4 | 8.76 | 0.94 | 0.01 | 5.02 | 1.53 | 0 | 2.89 |
| 11504 | 'Adamts1' | 0.4 | 3.74 | 8.49 | 2.83 | 0 | 5.04 | 8.41 | 2.25 | 0.32 | 0 |
| 11512 | 'Adcy6' | 3.15 | 7.24 | 6.55 | 4.27 | 5.16 | 1.51 | 3.37 | 2.88 | 0.32 | 2.02 |
| 11513 | 'Adcy7' | 1.94 | 1.16 | 7.82 | 1.45 | 5.94 | 10.73 | 7.47 | 3.41 | 6.04 | 4.39 |
| 11514 | 'Adcy8' | 1.01 | 1.31 | 1.86 | 0 | 3.8 | 2.14 | 0.03 | 2.48 | 3.87 | 0.96 |
| 11515 | 'Adcy9' | 1.26 | 1.19 | 1.41 | 2.1 | 2.6 | 2.04 | 4.25 | 0.32 | 0.7 | 1.64 |
| 11516 | 'Adcyap1' | 51.17 | 174.8 | 86.4 | 90.9 | 3.05 | 22.45 | 82.1 | 20.93 | 42.31 | 78.59 |
| 11517 | 'Adcyap1r1' | 18.47 | 15.12 | 40.4 | 10.7 | 17.4 | 4.47 | 20.7 | 14.73 | 30.68 | 15.33 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 11518 | 'Add1' | 64.98 | 36.96 | 39.7 | 10 | 54.6 | 36.32 | 37 | 44.63 | 50.11 | 54.23 |
| 11519 | 'Add2' | 11.93 | 7.36 | 10.2 | 6.04 | 17.7 | 8.95 | 19.6 | 6.73 | 15.31 | 6.87 |
| 11520 | 'Plin2' | 10.48 | 4.95 | 2.71 | 18.9 | 3.63 | 8.92 | 2.05 | 2.9 | 38.49 | 15.49 |
| 11529 | 'Adh7' | 0.93 | 5.72 | 0.35 | 0 | 0 | 0 | 0 | 2.41 | 0 | 0 |
| 11532 | 'Adh5' | 33.15 | 55.74 | 37.4 | 59.5 | 83 | 46.83 | 29.8 | 44.97 | 55.87 | 58.49 |
| 11534 | 'Adk' | 43.33 | 54.51 | 34.1 | 26.3 | 21.3 | 41.35 | 47.1 | 47.41 | 42.13 | 37.16 |
| 11535 | 'Adm' | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0.03 | 1.79 |
| 11536 | 'Gpr182' | 0 | 0 | 0 | 0 | 5.77 | 0 | 4.44 | 0 | 10.57 | 2.16 |
| 11538 | 'Adnp' | 5.42 | 6.57 | 13.1 | 21 | 2.37 | 6.04 | 9.37 | 8.17 | 2.4 | 8.62 |
| 11539 | 'Adora1' | 7.78 | 2.41 | 9.47 | 7.39 | 11.5 | 2.32 | 17.9 | 6.78 | 5.15 | 0.1 |
| 11540 | 'Adora2a' | 3.54 | 0.83 | 0 | 0 | 0.03 | 3.44 | 0 | 0.98 | 1.68 | 0 |
| 11541 | 'Adora2b' | 0 | 2.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11542 | 'Adora3' | 0 | 0 | 0 | 0 | 0 | 0.69 | 2.42 | 0 | 0 | 0 |
| 11544 | 'Adprh' | 113.2 | 145.7 | 154 | 112 | 107 | 153.1 | 86.5 | 138.6 | 166.8 | 116.2 |
| 11545 | 'Parp1' | 7.14 | 2.59 | 13 | 1.7 | 0.38 | 1.38 | 15.7 | 10.36 | 0.49 | 3.36 |
| 11546 | 'Parp2' | 20.94 | 19.54 | 7.72 | 22.5 | 19.1 | 37.82 | 1.1 | 28.87 | 16.99 | 20.26 |
| 11548 | 'Adra1b' | 1.33 | 0 | 3.46 | 2.39 | 4.12 | 0.18 | 0 | 2.72 | 1.8 | 0 |
| 11549 | 'Adra1a' | 0.12 | 4.35 | 2.31 | 5 | 0.39 | 1.09 | 0.6 | 0.12 | 2.54 | 2.7 |
| 11551 | 'Adra2a' | 0.01 | 1.57 | 0 | 0 | 0 | 0 | 2.64 | 1.44 | 0.02 | 0 |
| 11552 | 'Adra2b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.12 | 0 |
| 11553 | 'Adra2c' | 0 | 0 | 0 | 0 | 0 | 1.16 | 0 | 0 | 1.06 | 0.9 |
| 11554 | 'Adrb1' | 0.72 | 0.02 | 0.02 | 0 | 0.59 | 0 | 0 | 0 | 0 | 0.02 |
| 11555 | 'Adrb2' | 0 | 0 | 0 | 0 | 3.72 | 5.54 | 0 | 1.16 | 0 | 0 |
| 11556 | 'Adrb3' | 3.18 | 1.34 | 0 | 0 | 0.02 | 1.81 | 0 | 1.06 | 0.79 | 0 |
| 11564 | 'Adsl' | 22.59 | 22.46 | 24.9 | 12 | 28.5 | 21.38 | 26.1 | 23 | 29.28 | 26.5 |
| 11565 | 'Adssl1' | 11.23 | 9.2 | 46.9 | 29.4 | 14 | 15.87 | 8.96 | 12.83 | 30.01 | 6.8 |
| 11566 | 'Adss' | 32.02 | 21.44 | 26.7 | 15.4 | 32.6 | 12.62 | 36.4 | 19.28 | 18.38 | 38.91 |
| 11567 | 'Avil' | 0 | 0.28 | 0 | 2.34 | 1.85 | 0 | 0 | 0.12 | 0.23 | 0.08 |
| 11568 | 'Aebp1' | 0.01 | 0.05 | 2.27 | 0 | 4.42 | 0 | 0 | 0 | 0.06 | 0.36 |
| 11569 | 'Aebp2' | 0.31 | 1.7 | 1.95 | 1.61 | 0.98 | 0 | 1.28 | 1.23 | 1.35 | 0.24 |
| 11576 | 'Afp' | 0 | 0 | 0 | 0 | 0 | 2.54 | 0 | 0 | 0 | 0 |
| 11593 | 'Aga' | 1.99 | 32.67 | 6.88 | 17.2 | 20.1 | 23.86 | 41 | 8.38 | 37.01 | 14.52 |
| 11595 | 'Acan' | 0 | 0 | 0.13 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 |
| 11596 | 'Ager' | 0.25 | 0.26 | 0 | 7.46 | 0 | 0 | 0.04 | 0 | 0 | 0 |
| 11600 | 'Angpt1' | 0.01 | 8.77 | 1.49 | 0.03 | 6.1 | 2.96 | 6.32 | 0.07 | 2.79 | 0 |
| 11601 | 'Angpt2' | 0.43 | 0 | 0.79 | 0 | 1.28 | 0 | 0.18 | 0 | 0 | 2.3 |
| 11602 | 'Angpt4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.01 | 0 | 0 |
| 11603 | 'Agrn' | 3.03 | 5.01 | 21.9 | 2.32 | 6.34 | 5.55 | 11 | 4.73 | 11.41 | 5.71 |
| 11604 | 'Agrp' | 2.4 | 0 | 2 | 0 | 3.2 | 6.7 | 13.7 | 0 | 0 | 0 |
| 11605 | 'Gla' | 0.89 | 7.63 | 2.72 | 5.15 | 6.18 | 6.39 | 0 | 0.99 | 5.72 | 4.95 |
| 11606 | 'Agt' | 106.2 | 139.7 | 49.6 | 106 | 45.5 | 66.44 | 72.3 | 69.42 | 82.98 | 12.36 |
| 11607 | 'Agtr1a' | 4.5 | 0 | 0 | 0.03 | 0 | 8.77 | 0 | 0.02 | 2.93 | 17.72 |
| 11609 | 'Agtr2' | 0 | 0 | 5.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11610 | 'Agtrap' | 4.97 | 5.4 | 4.71 | 6.11 | 9.77 | 10.01 | 3.24 | 11.14 | 8.39 | 17.06 |
| 11614 | 'Nr0b1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.1 |
| 11615 | 'Gm4737' | 0 | 2.83 | 0.4 | 5.32 | 0 | 0 | 0 | 0.1 | 0.09 | 0.1 |
| 11622 | 'Ahr' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 |
| 11629 | 'Aif1' | 9.21 | 14.75 | 3.97 | 51.7 | 17.1 | 31.61 | 43.9 | 9.28 | 4.64 | 2 |
| 11630 | 'Crybg1' | 0 | 0 | 0 | 0 | 0 | 0 | 1.28 | 0 | 0 | 0 |
| 11632 | 'Aip' | 124.9 | 96.12 | 145 | 125 | 129 | 245.1 | 113 | 160 | 130.1 | 175.95 |
| 11634 | 'Aire' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.31 | 0 | 0 |
| 11636 | 'Ak1' | 65.62 | 92.42 | 115 | 130 | 138 | 148.2 | 127 | 162.5 | 88.89 | 95.8 |
| 11637 | 'Ak2' | 34.95 | 31.03 | 28.6 | 69.9 | 29.6 | 56.33 | 20.1 | 30.02 | 28.52 | 43.33 |
| 11639 | 'Ak4' | 5.85 | 7.48 | 7.99 | 11.1 | 7.21 | 4.16 | 20.3 | 14.96 | 8.84 | 6.39 |
| 11640 | 'Akap1' | 2.25 | 1.78 | 0.45 | 2.07 | 0.26 | 0.57 | 0.01 | 0.7 | 0.91 | 1.4 |
| 11641 | 'Akap2' | 4.52 | 5.36 | 5.44 | 3.5 | 3.27 | 2.79 | 3.63 | 5.96 | 7.02 | 4.54 |
| 11642 | 'Akap3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.58 | 0 | 0 |
| 11647 | 'Alpl' | 5.05 | 0 | 0 | 8.72 | 0.41 | 0 | 7.12 | 3.45 | 0 | 1.59 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 11651 | 'Akt1' | 7.82 | 8.72 | 13 | 15.9 | 10.4 | 3.29 | 12 | 8.3 | 10.77 | 7.83 |
| 11652 | 'Akt2' | 9.03 | 5.78 | 9.43 | 12.3 | 4.53 | 5.83 | 6.44 | 6.18 | 14.49 | 7.22 |
| 11655 | 'Alas1' | 21.74 | 10.68 | 19.6 | 15.7 | 31.6 | 20.93 | 16.5 | 35.42 | 19.27 | 31.18 |
| 11656 | 'Alas2' | 0.42 | 0.65 | 0.12 | 0 | 0 | 0 | 0.16 | 0.5 | 0 | 0.24 |
| 11658 | 'Alcam' | 43.88 | 35.14 | 25 | 7.53 | 38 | 50.39 | 131 | 43.27 | 148.2 | 159.36 |
| 11666 | 'Abcd1' | 4.35 | 5.73 | 2.21 | 6.85 | 5.28 | 7.35 | 8.9 | 5.02 | 1.16 | 6.19 |
| 11668 | 'Aldh1a1' | 9.22 | 1.75 | 1.73 | 0.03 | 19.1 | 18.69 | 0 | 5.47 | 2.05 | 5.08 |
| 11669 | 'Aldh2' | 15.23 | 25.71 | 38.5 | 15.2 | 17.9 | 43.29 | 24.6 | 24.67 | 14.64 | 12 |
| 116701 | 'Fgfr11' | 0.18 | 0 | 6.6 | 0.02 | 1.36 | 7.61 | 0 | 3.59 | 0 | 0.02 |
| 11671 | 'Aldh3a2' | 26.65 | 6.6 | 19.2 | 18.6 | 5.87 | 10.13 | 23.1 | 19.94 | 26.96 | 31.61 |
| 116731 | 'Pcdha1' | 0 | 0 | 4.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0.11 |
| 116732 | 'Tsga13' | 0 | 0 | 0 | 0 | 0 | 0.46 | 0 | 0.9 | 0 | 0 |
| 116733 | 'Vps4a' | 78 | 67.24 | 62.5 | 44.3 | 53 | 76.62 | 78.2 | 80.76 | 67.18 | 107.39 |
| 11674 | 'Aldoa' | 2058 | 1786 | 2303 | 1734 | 2201 | 2624 | 2229 | 2545 | 2241 | 2144.97 |
| 116748 | 'Lsm10' | 43.05 | 33.65 | 11.5 | 39.8 | 52.9 | 25.46 | 21 | 46.88 | 31.55 | 44.99 |
| 11676 | 'Aldoc' | 196.9 | 241 | 294 | 215 | 69.9 | 310.7 | 381 | 348.5 | 265.2 | 177.15 |
| 11677 | 'Akr1b3' | 89.6 | 51.55 | 87.4 | 66.9 | 81.9 | 125.2 | 88 | 67.63 | 106.8 | 49.83 |
| 11682 | 'Alk' | 0.01 | 0.87 | 0.27 | 0 | 0 | 0 | 1.87 | 0 | 2.07 | 0.18 |
| 116837 | 'Rims1' | 1.74 | 0.64 | 1.88 | 0.61 | 3.54 | 2.21 | 2.11 | 5.22 | 1.48 | 3.15 |
| 116838 | 'Rims2' | 17.97 | 10.36 | 14.4 | 2.77 | 15.7 | 12.08 | 7.28 | 12.86 | 10.31 | 7.91 |
| 116847 | 'Prelp' | 1.17 | 2.13 | 0 | 0 | 1.93 | 0 | 2.09 | 1.1 | 3.59 | 0 |
| 116848 | 'Baz2a' | 0.67 | 5.13 | 2.97 | 2.29 | 3.96 | 1.46 | 1.55 | 2.09 | 0.73 | 2.98 |
| 11686 | 'Alox12b' | 0 | 0 | 0.02 | 0 | 0 | 0.02 | 13.1 | 0 | 0 | 0 |
| 11687 | 'Alox15' | 0 | 0 | 1.27 | 0.2 | 0 | 1.75 | 0.03 | 0.28 | 0 | 0 |
| 116870 | 'Mta1' | 9.67 | 1.3 | 8.86 | 7.07 | 10.3 | 2.9 | 2.82 | 2.98 | 4.02 | 2.94 |
| 116871 | 'Mta3' | 8.97 | 25.82 | 30 | 5.56 | 14.6 | 7.96 | 24.7 | 17.42 | 3.25 | 16.69 |
| 116872 | 'Serpib7' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83 | 0 | 0 |
| 116873 | 'Stim2' | 6.67 | 5.99 | 5.01 | 6.83 | 0.91 | 6.16 | 7.03 | 3.19 | 3.59 | 6.13 |
| 11688 | 'Alox8' | 0.59 | 0.91 | 3.76 | 2.19 | 3.13 | 1.67 | 0.71 | 0.29 | 1.14 | 2.5 |
| 116891 | 'Derl2' | 15.38 | 5.4 | 4.51 | 7.96 | 8.29 | 6.97 | 11 | 9.41 | 9.68 | 12.73 |
| 11690 | 'Alox5ap' | 9.47 | 5.2 | 5.3 | 68.3 | 11.2 | 18.93 | 0 | 0.29 | 8.27 | 9.4 |
| 116904 | 'Alpk3' | 0.01 | 0 | 0.02 | 0 | 0.02 | 0.02 | 0 | 0.25 | 0.01 | 0 |
| 116905 | 'Dph1' | 16.65 | 24.19 | 18.2 | 0 | 14.6 | 13.28 | 9.07 | 10 | 25.42 | 9.78 |
| 116914 | 'Slc19a2' | 6.24 | 2.1 | 0.44 | 5.07 | 3.72 | 2.42 | 12.1 | 1.6 | 4.32 | 3.32 |
| 11692 | 'Gfer' | 18.94 | 15.49 | 23.1 | 18 | 22.3 | 11.26 | 8.01 | 8.72 | 12.85 | 16.31 |
| 116939 | 'Pnpla3' | 0.81 | 3.05 | 1.91 | 0.44 | 1.67 | 0 | 4.26 | 2.99 | 0.74 | 0.12 |
| 116940 | 'Tgs1' | 15.42 | 15.77 | 8.29 | 8.3 | 5.8 | 6.83 | 16.1 | 4.57 | 10.62 | 8.79 |
| 11695 | 'Alx4' | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 116972 | 'Fam57a' | 4.44 | 11.32 | 12.9 | 1.27 | 4.84 | 24.2 | 1.01 | 12.38 | 5.6 | 12.06 |
| 11702 | 'Amd1' | 34.56 | 28.43 | 28.8 | 28.5 | 39.8 | 18.08 | 43.4 | 55.65 | 36.78 | 26.22 |
| 11704 | 'Amelx' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.82 |
| 11705 | 'Amh' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.85 | 0 | 0.23 |
| 117109 | 'Pop5' | 113.2 | 94.12 | 53.7 | 129 | 65 | 61.77 | 43.1 | 82.29 | 59.27 | 76.63 |
| 117146 | 'Ube3b' | 0.73 | 6.58 | 8.35 | 4.8 | 9.4 | 3.15 | 6.27 | 4.39 | 0.01 | 5.79 |
| 117147 | 'Acsm1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 |
| 117148 | 'Necab2' | 27.49 | 23.52 | 13.7 | 23.4 | 107 | 24.2 | 2.54 | 17.98 | 6.22 | 22.01 |
| 117149 | 'Tirap' | 1.29 | 1.38 | 1.46 | 0.4 | 0.29 | 0.99 | 0.13 | 0.1 | 1.7 | 1.34 |
| 117150 | 'Pip4k2c' | 12.71 | 10.44 | 17.4 | 0 | 10.8 | 6.75 | 15.2 | 18.26 | 15.27 | 7.54 |
| 117160 | 'Ttyh2' | 8.12 | 15.78 | 9.63 | 9.47 | 15.4 | 17.38 | 1.17 | 1.05 | 7.72 | 3.22 |
| 11717 | 'Ampd3' | 6.67 | 5.36 | 16.3 | 0.25 | 4.26 | 0.02 | 7.02 | 10.6 | 11.1 | 2.5 |
| 117171 | '1110038F14Rik' | 39.94 | 53.21 | 22.8 | 18.2 | 40.3 | 26.69 | 38.5 | 38.32 | 30.32 | 50.12 |
| 117197 | 'Bloc1s4' | 2.41 | 6.49 | 3.08 | 26.8 | 6.61 | 6.76 | 1.72 | 3.38 | 6.14 | 3.1 |
| 117198 | 'lvns1abp' | 53.1 | 47.11 | 36.4 | 22.4 | 42.1 | 23.33 | 43.2 | 41.86 | 37.69 | 41.36 |
| 11722 | 'Amy1' | 6.95 | 10.89 | 22.4 | 32 | 6.72 | 7.43 | 16.3 | 19.18 | 33.57 | 16.58 |
| 117229 | 'Stk33' | 11.8 | 18.1 | 6.03 | 10.8 | 0 | 0.02 | 19.2 | 2.83 | 0 | 9.73 |
| 11727 | 'Ang' | 2.57 | 3.9 | 5.96 | 0 | 0 | 8.27 | 0.36 | 1.09 | 6.25 | 2.82 |
| 11732 | 'Ank' | 10.16 | 7.92 | 15.4 | 19.4 | 11.5 | 16.45 | 7.48 | 3.67 | 3.67 | 2.37 |
| 11733 | 'Ank1' | 1.83 | 5.45 | 1.54 | 2.62 | 1.71 | 0.35 | 0.99 | 1.4 | 0.59 | 1.09 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 11735 | 'Ank3' | 8.08 | 7.78 | 6.7 | 10.9 | 8.19 | 6.65 | 3.92 | 6.41 | 8.25 | 5.74 |
| 11736 | 'Ankfy1' | 3.99 | 3.91 | 8.44 | 6.88 | 0.61 | 1.33 | 1.36 | 2.81 | 2.84 | 4.83 |
| 11737 | 'Anp32a' | 26.01 | 21.27 | 18.3 | 17.8 | 35.6 | 38.62 | 23.6 | 26.75 | 39.52 | 26.38 |
| 11739 | 'Slc25a4' | 1168 | 989.1 | 1204 | 1016 | 1078 | 1215 | 1024 | 1441 | 1029 | 1208.21 |
| 11740 | 'Slc25a5' | 248.7 | 164.3 | 380 | 236 | 270 | 393.7 | 275 | 288.1 | 238.2 | 157.91 |
| 11744 | 'Anxa11' | 0.66 | 0 | 0 | 1.61 | 1.99 | 0.25 | 2.89 | 0 | 1.91 | 6.04 |
| 11745 | 'Anxa3' | 0 | 0 | 0 | 11.5 | 0.12 | 8.38 | 3.77 | 5.45 | 0 | 0 |
| 11746 | 'Anxa4' | 0 | 0 | 0 | 0 | 0 | 0 | 0.93 | 0 | 0 | 0.6 |
| 11747 | 'Anxa5' | 68.56 | 36.67 | 72.6 | 173 | 115 | 123 | 25.8 | 50.89 | 120.5 | 117.87 |
| 11749 | 'Anxa6' | 76.68 | 71.59 | 51.1 | 66.2 | 45.1 | 47.55 | 33.8 | 55.99 | 27.1 | 43.96 |
| 11750 | 'Anxa7' | 26.39 | 45.48 | 21.2 | 24.5 | 14.6 | 31.91 | 30.3 | 37.07 | 47.29 | 30.66 |
| 11757 | 'Prdx3' | 77.94 | 89.67 | 95.8 | 62.5 | 91.2 | 67.38 | 118 | 103.3 | 73.84 | 55.07 |
| 11758 | 'Prdx6' | 102.1 | 85.68 | 56.5 | 96.1 | 118 | 84.74 | 86.8 | 63.97 | 49 | 51.24 |
| 117589 | 'Asb7' | 1.49 | 0.38 | 0.62 | 6.96 | 1.36 | 1.32 | 1.28 | 3.91 | 0.05 | 3.64 |
| 117590 | 'Asb10' | 0 | 0 | 0.02 | 0 | 0.02 | 0.04 | 0 | 0 | 0.02 | 0.02 |
| 117591 | 'Slc2a9' | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 117592 | 'B3galt6' | 17.08 | 19.66 | 16.3 | 4.57 | 13.1 | 16.02 | 25.8 | 4.98 | 32.17 | 4.27 |
| 117599 | 'Helb' | 0 | 0.03 | 0.13 | 0.02 | 0.98 | 0.01 | 0 | 0.06 | 0.06 | 0.02 |
| 117600 | 'Srgap1' | 1.21 | 2.38 | 1 | 1.5 | 2.27 | 2.77 | 0.5 | 0.57 | 1.07 | 1.34 |
| 117606 | 'Boc' | 3.13 | 0.42 | 0.04 | 0 | 0.62 | 2.83 | 0.4 | 0 | 0 | 0.74 |
| 11761 | 'Aox1' | 0.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 11764 | 'Ap1b1' | 56.18 | 50.53 | 86 | 18.6 | 50.3 | 29.04 | 73 | 71.89 | 39.71 | 68.04 |
| 11765 | 'Ap1g1' | 5.98 | 1.94 | 4.63 | 1.92 | 7.5 | 3.07 | 10.3 | 2.85 | 6.28 | 6.96 |
| 11766 | 'Ap1g2' | 0.32 | 0.38 | 2.97 | 0 | 0.02 | 5.46 | 1.85 | 5.32 | 0 | 1.65 |
| 11767 | 'Ap1m1' | 93.54 | 90.48 | 122 | 46.1 | 40.9 | 105 | 101 | 76.71 | 95.44 | 137.04 |
| 11768 | 'Ap1m2' | 0 | 0 | 0 | 0 | 0.23 | 0.04 | 0 | 0 | 0 | 0 |
| 11769 | 'Ap1s1' | 181.4 | 231.7 | 180 | 203 | 215 | 196.6 | 158 | 228.9 | 264.9 | 189.62 |
| 11770 | 'Fabp4' | 0 | 0 | 0.08 | 0 | 10.3 | 0.08 | 0.17 | 0 | 0.07 | 0.23 |
| 11771 | 'Ap2a1' | 29.5 | 30.1 | 68.6 | 19.3 | 36.9 | 13.4 | 49.5 | 36.21 | 42.39 | 42.05 |
| 11772 | 'Ap2a2' | 57.79 | 46.56 | 63.6 | 45.4 | 41.1 | 14.79 | 79 | 33.84 | 60.34 | 51.31 |
| 11773 | 'Ap2m1' | 499.3 | 428.6 | 459 | 443 | 588 | 689.6 | 557 | 581.5 | 556.4 | 573.69 |
| 11774 | 'Ap3b1' | 11.12 | 15.72 | 5.42 | 5.63 | 6.89 | 11.74 | 27.4 | 11.78 | 14.26 | 19.98 |
| 11775 | 'Ap3b2' | 65.07 | 52.7 | 70 | 44.7 | 46.8 | 25.99 | 22.2 | 44.98 | 35.34 | 57.7 |
| 11776 | 'Ap3d1' | 33.98 | 43.88 | 61.9 | 30.3 | 36.5 | 30.06 | 60.4 | 28.41 | 44.65 | 42.83 |
| 11777 | 'Ap3s1' | 11.46 | 20.11 | 24.1 | 16.6 | 16.4 | 26.29 | 15.8 | 14.87 | 38.69 | 10.75 |
| 11778 | 'Ap3s2' | 12.79 | 16.24 | 6.2 | 6.29 | 11.7 | 8.97 | 6.99 | 12.24 | 11.29 | 8.98 |
| 11781 | 'Ap4m1' | 1.84 | 3.05 | 7.23 | 2.64 | 13.4 | 8.51 | 11.7 | 4.16 | 8.33 | 7.23 |
| 11782 | 'Ap4s1' | 84.95 | 65.2 | 76.8 | 68 | 53.8 | 64.95 | 73.4 | 69.9 | 105.9 | 41.85 |
| 11783 | 'Apaf1' | 0.77 | 0.87 | 0.31 | 0.02 | 1.27 | 0.43 | 0.01 | 0.59 | 0.1 | 0.39 |
| 11784 | 'Apba2' | 41.76 | 44.91 | 87 | 26.3 | 46 | 43.38 | 27.3 | 83.19 | 41.53 | 31.44 |
| 11785 | 'Apbb1' | 229.2 | 250.2 | 258 | 200 | 300 | 226.4 | 202 | 280.1 | 299.5 | 329.76 |
| 11787 | 'Apbb2' | 10.34 | 11.4 | 10 | 15.5 | 13.7 | 6.95 | 12.9 | 3.17 | 13.89 | 10.49 |
| 11789 | 'Apc' | 7.64 | 4.9 | 10.1 | 5.2 | 5.17 | 5.31 | 6.82 | 6.96 | 8.93 | 15.66 |
| 11790 | 'Speg' | 3.73 | 9.73 | 2.55 | 2.16 | 11.6 | 8.97 | 2.57 | 6.66 | 0.27 | 0.73 |
| 11792 | 'Apex1' | 122.4 | 93.93 | 80 | 144 | 105 | 138.9 | 112 | 142.5 | 101.7 | 113.21 |
| 11793 | 'Atg5' | 22.63 | 32.66 | 12 | 38.6 | 21.1 | 37.1 | 20.9 | 29.21 | 32.81 | 27.84 |
| 11796 | 'Birc3' | 0 | 0 | 3.03 | 0 | 2.16 | 0 | 0 | 0 | 0 | 0.93 |
| 11797 | 'Birc2' | 19.18 | 9.5 | 6.6 | 24 | 10.4 | 7.09 | 23.6 | 24.87 | 14.13 | 15.39 |
| 11798 | 'Xiap' | 1.7 | 2.81 | 0.82 | 2.28 | 3.98 | 1.5 | 3.9 | 0.82 | 1.89 | 1.16 |
| 11799 | 'Birc5' | 2.52 | 0.35 | 0.26 | 0.27 | 0.21 | 0.14 | 0.06 | 0.09 | 3.2 | 4.8 |
| 11800 | 'Api5' | 25.8 | 26.04 | 33.2 | 11.7 | 27.7 | 11.34 | 48.4 | 33.55 | 21.75 | 42.42 |
| 11801 | 'Cd5l' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11803 | 'Aplp1' | 176.1 | 190.1 | 139 | 203 | 153 | 194.6 | 177 | 193.6 | 211 | 125.18 |
| 11804 | 'Aplp2' | 140.2 | 96.82 | 222 | 83.9 | 130 | 99.22 | 240 | 157.3 | 175.6 | 130.26 |
| 11806 | 'Apoa1' | 2.83 | 0.81 | 1.62 | 7.74 | 0.98 | 7.56 | 2.73 | 4.6 | 0.59 | 0 |
| 11807 | 'Apoa2' | 13.59 | 9.58 | 6.87 | 20.8 | 5.01 | 0 | 17.2 | 13.82 | 9.47 | 22.33 |
| 11808 | 'Apoa4' | 0 | 0.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11810 | 'Apobec1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.63 | 3.76 | 7.61 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 11811 | 'Apobec2' | 0.11 | 2.62 | 0.12 | 0 | 0 | 0.08 | 0.04 | 0 | 0.11 | 5.81 |
| 11812 | 'Apoc1' | 6.01 | 9.34 | 8.6 | 18.6 | 0 | 10.32 | 0 | 2.02 | 0 | 2.28 |
| 11814 | 'Apoc3' | 45.45 | 83.22 | 18.9 | 143 | 0 | 6.97 | 14.1 | 21.49 | 26.77 | 0 |
| 11815 | 'Apod' | 15.9 | 26.54 | 0.87 | 3.56 | 45.3 | 24.53 | 0.03 | 1.26 | 4.18 | 1.81 |
| 11816 | 'Apoe' | 1568 | 1109 | 1006 | 1351 | 826 | 1371 | 1178 | 785.4 | 758.3 | 528.18 |
| 11818 | 'Apoh' | 0 | 0.25 | 3.24 | 0 | 0 | 7.01 | 0 | 0 | 0 | 0 |
| 11819 | 'Nr2f2' | 0.64 | 17.57 | 7.1 | 6.68 | 0.02 | 0.29 | 20.3 | 14.83 | 1.29 | 0 |
| 11820 | 'App' | 155.3 | 215.5 | 154 | 246 | 133 | 103.9 | 218 | 198.7 | 153.9 | 101.49 |
| 11821 | 'Aprt' | 63.6 | 96.71 | 102 | 114 | 60.9 | 99.25 | 73.7 | 88 | 108.6 | 90.15 |
| 11826 | 'Aqp1' | 0 | 0 | 0 | 4.87 | 0.6 | 0 | 0 | 0 | 0 | 0.02 |
| 11829 | 'Aqp4' | 5.5 | 6.92 | 1.18 | 22.5 | 5.33 | 8.65 | 0 | 2.81 | 7.17 | 2.76 |
| 11830 | 'Aqp5' | 0 | 0 | 2.41 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11831 | 'Aqp6' | 0 | 0.57 | 0 | 0 | 0 | 1.86 | 0 | 0 | 0 | 0 |
| 11832 | 'Aqp7' | 0.09 | 0.22 | 0.67 | 3.75 | 0.48 | 0.25 | 0.3 | 0.93 | 0.19 | 0.2 |
| 11834 | 'Aqr' | 14.89 | 6.77 | 8.36 | 8.53 | 6.59 | 9.52 | 3.88 | 5.75 | 11.15 | 5.28 |
| 11835 | 'Ar' | 10.68 | 14.58 | 6.39 | 10.8 | 2.31 | 3.12 | 6.14 | 17.52 | 1.91 | 8.87 |
| 11836 | 'Araf' | 565.9 | 513.4 | 476 | 498 | 437 | 581.5 | 460 | 566.2 | 549 | 507.72 |
| 11837 | 'Rplp0' | 191 | 233.2 | 160 | 230 | 163 | 191.5 | 199 | 188.6 | 225.2 | 197.41 |
| 11838 | 'Arc' | 7.11 | 39.28 | 41.5 | 37.1 | 4.26 | 22.38 | 16.2 | 20.1 | 2.38 | 52.74 |
| 11840 | 'Arf1' | 531.3 | 553.6 | 467 | 410 | 536 | 599.5 | 545 | 555.7 | 456.1 | 600.62 |
| 11841 | 'Arf2' | 34.86 | 25.9 | 46.2 | 63.5 | 47.1 | 23.37 | 26.7 | 50.68 | 52.45 | 71.3 |
| 11842 | 'Arf3' | 44.88 | 38.43 | 31.7 | 47.3 | 52.9 | 37.08 | 38.4 | 55.47 | 53.41 | 35.2 |
| 11843 | 'Arf4' | 110.4 | 117.3 | 118 | 123 | 79.3 | 108.5 | 110 | 102.9 | 115.8 | 91.66 |
| 11844 | 'Arf5' | 35.16 | 36.76 | 69.6 | 60 | 55.3 | 40.75 | 37.3 | 26.51 | 51.73 | 29.13 |
| 118445 | 'Klf16' | 0.59 | 1.98 | 2.38 | 16.8 | 6.51 | 0.51 | 2.42 | 3.26 | 5.52 | 5.41 |
| 118446 | 'Gjc3' | 4.53 | 3.28 | 19.1 | 8.21 | 10.2 | 3.09 | 11.1 | 3.08 | 3.46 | 2.92 |
| 118449 | 'Synpo2' | 0.02 | 0.26 | 0.05 | 0 | 0.23 | 0.03 | 0 | 0.74 | 2.09 | 1.09 |
| 11845 | 'Arf6' | 3.05 | 4.38 | 5.12 | 2.06 | 5.66 | 2.91 | 3.24 | 1.59 | 2.76 | 4.9 |
| 118451 | 'Mrps2' | 9.18 | 24.8 | 24.8 | 27.6 | 24.4 | 14.76 | 19 | 20.83 | 9.18 | 17.36 |
| 118452 | 'Baalc' | 11.13 | 4.88 | 5.73 | 0.72 | 3.82 | 14.9 | 14 | 17.9 | 13.54 | 5.37 |
| 118453 | 'Mmp28' | 0 | 0 | 0 | 0 | 1.13 | 0 | 0 | 0 | 0 | 0 |
| 118454 | 'Gjc2' | 0.28 | 0 | 0 | 0.03 | 3.37 | 7.47 | 0.02 | 0.26 | 0 | 0 |
| 11846 | 'Arg1' | 0 | 0 | 3.07 | 0 | 30 | 0 | 0 | 0 | 0.91 | 0.7 |
| 11847 | 'Arg2' | 5.83 | 10.05 | 12.7 | 0.25 | 4.21 | 7.8 | 12.2 | 6.41 | 0 | 0.37 |
| 11848 | 'Rhoa' | 94.6 | 79.92 | 48 | 64.9 | 89.2 | 82.58 | 83 | 42.71 | 64.41 | 51 |
| 11852 | 'RhoB' | 12.86 | 18.32 | 15 | 28.5 | 9.93 | 10.55 | 19.1 | 16.18 | 14.83 | 6.6 |
| 11853 | 'RhoC' | 16.68 | 4.51 | 41.6 | 16.5 | 0 | 13.9 | 13.2 | 5.75 | 19.58 | 8.07 |
| 11855 | 'Arhgap5' | 5.67 | 4 | 6.99 | 4.76 | 6.27 | 6.7 | 0.42 | 4.41 | 2.71 | 6.64 |
| 11856 | 'Arhgap6' | 8.44 | 3.52 | 0 | 0 | 7.16 | 11.64 | 2.46 | 7.79 | 5.81 | 6.35 |
| 11857 | 'Arhgdib' | 2.06 | 0.05 | 4.05 | 18.3 | 7.41 | 42.25 | 0 | 13.22 | 7.53 | 0 |
| 11858 | 'Rnd2' | 19.65 | 57.5 | 41.4 | 49.9 | 55.5 | 46.56 | 40.4 | 36.78 | 50.31 | 23.77 |
| 11861 | 'Arl4a' | 6.41 | 12.05 | 7.36 | 32.4 | 2.41 | 3.65 | 25.2 | 5.02 | 18.33 | 10.46 |
| 11863 | 'Arnt' | 2.32 | 5.11 | 5.43 | 1.02 | 8.23 | 1.39 | 2.86 | 4.56 | 1.97 | 1.93 |
| 11864 | 'Arnt2' | 5.55 | 3.56 | 4.11 | 3.4 | 2.46 | 5.75 | 18.1 | 4.55 | 7.16 | 1.01 |
| 11865 | 'Arntl' | 7.58 | 21.76 | 8.83 | 4.08 | 9.76 | 4.11 | 3.42 | 7.62 | 5.8 | 5.47 |
| 11867 | 'Arpc1b' | 7.51 | 8.55 | 0.13 | 9.3 | 9.82 | 35.18 | 9.04 | 10.96 | 36.62 | 64.34 |
| 11870 | 'Art1' | 0.06 | 1.17 | 0.17 | 0.04 | 0 | 0 | 0.14 | 0 | 4.53 | 0.09 |
| 11875 | 'Art5' | 0 | 0 | 0.09 | 0 | 0 | 0.04 | 2.72 | 0 | 0 | 0 |
| 11876 | 'Artn' | 2.48 | 1.94 | 0 | 0 | 0 | 1.73 | 2.68 | 2.85 | 1.78 | 0.68 |
| 11877 | 'Arvcf' | 2 | 8.8 | 8.55 | 10.5 | 8.28 | 7.83 | 10.1 | 4.14 | 6.99 | 3 |
| 11878 | 'Arx' | 0 | 1.16 | 1.51 | 0 | 6.7 | 0.26 | 3.29 | 0 | 0 | 0.28 |
| 11881 | 'Arsb' | 20.58 | 23.6 | 22.5 | 5.66 | 12.2 | 1.01 | 13.4 | 26.4 | 13.29 | 24.39 |
| 11883 | 'Arsa' | 26.97 | 28.18 | 27.9 | 25.9 | 30.9 | 19.12 | 34.5 | 25.79 | 48.56 | 34.38 |
| 11886 | 'Asah1' | 62.66 | 49.92 | 61.2 | 53.9 | 27.8 | 37.07 | 30.6 | 51.75 | 41.59 | 54.24 |
| 11889 | 'Asgr1' | 1.28 | 1.44 | 0.05 | 4.73 | 0 | 0 | 0.85 | 0.27 | 0.77 | 1.73 |
| 11891 | 'Rab27a' | 5.96 | 6.7 | 3.86 | 9.9 | 6.99 | 10.04 | 0.18 | 3.07 | 0.63 | 4.17 |
| 11898 | 'Ass1' | 275.1 | 213 | 194 | 123 | 303 | 324 | 250 | 193.6 | 289.1 | 304.82 |
| 11899 | 'Astn1' | 19.91 | 13.41 | 36.1 | 21.6 | 10.1 | 2.84 | 22.3 | 9.46 | 15.91 | 20.2 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 11905 | 'Serpinc1' | 0 | 0 | 0.27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11906 | 'Zfxh3' | 1.08 | 2.14 | 2.77 | 2.01 | 1.78 | 0.92 | 3.53 | 1.77 | 2.86 | 1.29 |
| 11907 | 'Ate1' | 92.79 | 85.4 | 86.4 | 61.6 | 91.4 | 90.05 | 98.3 | 53.24 | 80.06 | 79.3 |
| 11908 | 'Atf1' | 2.75 | 4.87 | 1.11 | 7.27 | 0.02 | 0 | 3.02 | 4.42 | 8.62 | 1.24 |
| 11909 | 'Atf2' | 39.59 | 26.6 | 41.7 | 30.9 | 36.4 | 10.82 | 34.7 | 28.84 | 42.4 | 51.93 |
| 11910 | 'Atf3' | 0 | 16.92 | 5.61 | 63.9 | 0.02 | 86.51 | 4.97 | 0 | 0.02 | 0 |
| 11911 | 'Atf4' | 61.7 | 55.88 | 120 | 123 | 53.6 | 24.62 | 46.6 | 66.1 | 45.22 | 44.8 |
| 11920 | 'Atm' | 0.75 | 0.71 | 0.77 | 4.69 | 1.8 | 0.09 | 3.2 | 0.04 | 0.39 | 0.05 |
| 11927 | 'Atox1' | 202.4 | 167.1 | 177 | 220 | 156 | 272.2 | 189 | 147.7 | 215.9 | 210.42 |
| 11928 | 'Atp1a1' | 56.22 | 33.46 | 31.8 | 55.4 | 33.8 | 21.64 | 40.6 | 33 | 51.9 | 36.98 |
| 11931 | 'Atp1b1' | 822.5 | 683.2 | 804 | 487 | 725 | 711.4 | 683 | 642.2 | 749.4 | 463.28 |
| 11932 | 'Atp1b2' | 170.1 | 109.3 | 115 | 61.6 | 105 | 133.2 | 195 | 165.3 | 206.9 | 138.47 |
| 11933 | 'Atp1b3' | 123.3 | 161.2 | 87 | 145 | 90.9 | 179.1 | 140 | 117.5 | 116.3 | 169.18 |
| 11936 | 'Fxyd2' | 13.17 | 57.6 | 10.1 | 42 | 15 | 16.15 | 25.2 | 7.27 | 8.68 | 10.79 |
| 11937 | 'Atp2a1' | 0 | 0 | 0 | 0.41 | 0 | 0 | 0 | 0 | 0.65 | 0 |
| 11938 | 'Atp2a2' | 18.3 | 11.41 | 18.4 | 16.5 | 17.6 | 9.29 | 18.7 | 13.16 | 9.84 | 13.34 |
| 11941 | 'Atp2b2' | 17.48 | 12.73 | 18.2 | 11.8 | 27.6 | 7.02 | 19.8 | 10.36 | 17.78 | 15.51 |
| 11944 | 'Atp4a' | 0.03 | 0 | 1.18 | 0 | 0 | 3.76 | 0 | 1.73 | 0 | 1.91 |
| 11945 | 'Atp4b' | 0 | 0 | 1.22 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 |
| 11946 | 'Atp5a1' | 409.5 | 358.1 | 625 | 416 | 444 | 404.5 | 436 | 421 | 355.3 | 382.03 |
| 11947 | 'Atp5b' | 941.9 | 906.6 | 1516 | 687 | 990 | 1184 | 1178 | 1002 | 921.4 | 998.33 |
| 11949 | 'Atp5c1' | 437.8 | 431.2 | 496 | 307 | 476 | 516.5 | 537 | 509.2 | 399.6 | 422.46 |
| 11950 | 'Atp5f1' | 256.8 | 239.2 | 295 | 262 | 255 | 332.9 | 285 | 327.6 | 301.7 | 297.19 |
| 11951 | 'Atp5g1' | 652.4 | 589.9 | 727 | 813 | 741 | 694 | 554 | 742.2 | 580.5 | 538.46 |
| 11957 | 'Atp5j' | 760.9 | 632.1 | 836 | 791 | 705 | 920.3 | 756 | 569.4 | 672.5 | 679.86 |
| 11958 | 'Atp5k' | 155.1 | 200.9 | 254 | 413 | 146 | 528.6 | 173 | 96.69 | 297.2 | 127 |
| 11964 | 'Atp6v1a' | 159.7 | 146.6 | 169 | 149 | 135 | 112.4 | 145 | 165.1 | 126.9 | 145.74 |
| 11966 | 'Atp6v1b2' | 464.1 | 505.1 | 522 | 502 | 587 | 453.4 | 631 | 661.4 | 587.3 | 524.02 |
| 11972 | 'Atp6v0d1' | 194.7 | 165.2 | 233 | 167 | 188 | 220.6 | 230 | 216 | 325.6 | 264.25 |
| 11973 | 'Atp6v1e1' | 446.4 | 535.1 | 526 | 406 | 464 | 692.9 | 586 | 585.6 | 492.3 | 420.29 |
| 11974 | 'Atp6v0e' | 70.23 | 38.93 | 26.6 | 40.9 | 45.7 | 87.15 | 71.6 | 20.01 | 34.75 | 30.96 |
| 11975 | 'Atp6v0a1' | 101 | 98.68 | 118 | 74.4 | 89.4 | 30.06 | 82.5 | 117.1 | 102.4 | 123.03 |
| 11977 | 'Atp7a' | 4.39 | 0.76 | 0.65 | 1.23 | 0.76 | 0.56 | 0 | 0.91 | 0 | 0.85 |
| 11979 | 'Atp7b' | 0.38 | 0.77 | 1 | 4.88 | 2.17 | 0.26 | 1.48 | 0.42 | 1.9 | 0.72 |
| 11980 | 'Atp8a1' | 13.15 | 12.49 | 11.3 | 14.6 | 12.3 | 9.51 | 12.8 | 8.34 | 12.32 | 8.43 |
| 11981 | 'Atp9a' | 31.72 | 50.74 | 35.7 | 45.9 | 80.5 | 61.4 | 44.2 | 35.03 | 32.67 | 63.75 |
| 11982 | 'Atp10a' | 1 | 0.41 | 2.65 | 0.01 | 0.14 | 0 | 0 | 0.09 | 0 | 0.1 |
| 11983 | 'Atpif1' | 303.5 | 283.8 | 316 | 340 | 338 | 433.8 | 298 | 253.4 | 321.7 | 307.24 |
| 11984 | 'Atp6v0c' | 2562 | 2245 | 2245 | 2518 | 2702 | 3031 | 2391 | 2445 | 2123 | 2666.18 |
| 11987 | 'Slc7a1' | 3.1 | 4.6 | 8.15 | 5.59 | 4.18 | 0.59 | 1.96 | 1.91 | 2.54 | 3.75 |
| 11988 | 'Slc7a2' | 0.53 | 0.04 | 0.02 | 0.03 | 0.02 | 0.02 | 0.01 | 0.04 | 0.02 | 0.01 |
| 11989 | 'Slc7a3' | 38.27 | 76.29 | 46.9 | 13.9 | 33.5 | 59.12 | 76.7 | 93.33 | 82.9 | 30.82 |
| 11990 | 'Atrn' | 3.98 | 2.08 | 5.05 | 4.81 | 5.92 | 4.23 | 5.08 | 4.96 | 4.36 | 3.5 |
| 11991 | 'Hnrnpd' | 2.69 | 2.66 | 7.12 | 12.6 | 11.3 | 4.87 | 4.51 | 2.37 | 5.04 | 2.65 |
| 11992 | 'Auh' | 61.81 | 71.85 | 95.7 | 51.7 | 83.7 | 88.83 | 71.7 | 94.81 | 82.05 | 83.13 |
| 11993 | 'Aup1' | 98.33 | 65.96 | 77.7 | 54 | 68.8 | 99.46 | 86.3 | 59.44 | 86.43 | 64.06 |
| 11994 | 'Pcdh15' | 0.73 | 0.32 | 6.93 | 4.89 | 1.75 | 1.6 | 9.06 | 2.94 | 1.57 | 0 |
| 11997 | 'Akr1b7' | 0 | 0 | 4.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11998 | 'Avp' | 0 | 4.51 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0.46 |
| 12005 | 'Axin1' | 7.6 | 1.92 | 0.48 | 7.63 | 3.74 | 6.42 | 9.93 | 1.48 | 3.68 | 0 |
| 12006 | 'Axin2' | 0.27 | 0.16 | 0.86 | 0.77 | 0.43 | 0.88 | 0.02 | 0 | 0.02 | 3.46 |
| 12009 | 'Cep131' | 3.85 | 0.49 | 5.78 | 9.14 | 2.8 | 3.07 | 2.25 | 3.17 | 5.12 | 3.28 |
| 12010 | 'B2m' | 111.1 | 93.11 | 91.4 | 156 | 72.3 | 450.5 | 108 | 53.48 | 208.3 | 248.57 |
| 12013 | 'Bach1' | 0.16 | 0.38 | 0.57 | 2.79 | 1.64 | 0 | 0 | 0.74 | 0.45 | 0.01 |
| 12014 | 'Bach2' | 0.01 | 0.91 | 0.18 | 0.81 | 0.65 | 0.21 | 0.13 | 0.26 | 0.03 | 0.9 |
| 12015 | 'Bad' | 91.95 | 35.11 | 49.2 | 43.8 | 81.2 | 70.8 | 74.5 | 61.39 | 51.14 | 42.79 |
| 12017 | 'Bag1' | 16.49 | 16.53 | 15.4 | 35.5 | 16.7 | 23.9 | 11.6 | 10.08 | 38.98 | 4.86 |
| 12018 | 'Bak1' | 0.57 | 0.89 | 3.23 | 0.24 | 0 | 0 | 0.4 | 0.56 | 2.95 | 0.41 |

| | | | | | | | | | | | |
|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 12021 | 'Bard1' | 0 | 0.1 | 0 | 0 | 0.6 | 0 | 0.01 | 0 | 0.82 | 0 |
| 12023 | 'Barx2' | 0 | 2.16 | 0.54 | 0.19 | 0.66 | 0 | 0 | 1.17 | 2.43 | 0 |
| 12028 | 'Bax' | 78.18 | 54.7 | 47.6 | 152 | 108 | 66.75 | 73.4 | 65.91 | 86.49 | 70.04 |
| 12029 | 'Bcl6b' | 0 | 0 | 2.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12032 | 'Bcan' | 23.19 | 33.71 | 73.1 | 43 | 16.7 | 38.1 | 83.4 | 28.82 | 41.66 | 4.58 |
| 12033 | 'Bcap29' | 52.75 | 55.33 | 49.3 | 65.8 | 39 | 67.17 | 41.2 | 52.01 | 73.39 | 66.41 |
| 12034 | 'Phb2' | 90.97 | 90.97 | 84.8 | 138 | 72.4 | 121.5 | 68.6 | 110.7 | 98.53 | 50.23 |
| 12035 | 'Bcat1' | 22.42 | 24.57 | 28.2 | 21.8 | 24.6 | 32.08 | 28.6 | 21.5 | 5.83 | 24.19 |
| 12036 | 'Bcat2' | 8.11 | 21.15 | 0.95 | 0 | 10.9 | 9.47 | 11.9 | 9.95 | 13.29 | 0 |
| 12038 | 'Bche' | 0 | 0 | 0 | 0.01 | 0.02 | 0 | 0 | 0 | 0.01 | 0 |
| 12039 | 'Bckdha' | 34.29 | 34.31 | 43.7 | 43.4 | 59 | 53.11 | 28.2 | 24.23 | 40.39 | 24.98 |
| 12040 | 'Bckdhb' | 21.78 | 21.99 | 36.6 | 24.1 | 11.2 | 21.35 | 11.6 | 12.67 | 37.99 | 0.03 |
| 12041 | 'Bckdk' | 38.07 | 34.19 | 25.8 | 37.5 | 39.9 | 46.06 | 58.3 | 42.28 | 39.47 | 48.01 |
| 12042 | 'Bcl10' | 3.92 | 18.36 | 12 | 18.7 | 4.56 | 5.35 | 21.5 | 15.48 | 0.86 | 16.79 |
| 12043 | 'Bcl2' | 2.07 | 2.73 | 2.79 | 2.81 | 1.57 | 1.57 | 2.29 | 4.06 | 3.96 | 1.05 |
| 12044 | 'Bcl2a1a' | 1.41 | 0 | 0 | 0 | 0 | 4.73 | 0 | 0 | 0 | 0 |
| 12045 | 'Bcl2a1b' | 0 | 2.37 | 0 | 8.05 | 0 | 15.34 | 0 | 0 | 0 | 6.21 |
| 12047 | 'Bcl2a1d' | 0 | 0.28 | 0 | 1.26 | 0.46 | 5.8 | 0 | 0 | 0 | 0.59 |
| 12048 | 'Bcl2l1' | 89.11 | 98.77 | 108 | 52.3 | 124 | 80.11 | 81.4 | 91.02 | 112.3 | 95.59 |
| 12050 | 'Bcl2l2' | 3.55 | 2.62 | 0.76 | 0.23 | 1.81 | 0.04 | 2.63 | 0.54 | 3.16 | 1.91 |
| 12051 | 'Bcl3' | 1.24 | 0.53 | 0.95 | 0 | 0 | 3.33 | 0 | 0 | 0.43 | 1.47 |
| 12053 | 'Bcl6' | 3.49 | 3.22 | 0.62 | 4.7 | 1.57 | 3.83 | 0 | 1.16 | 2.82 | 1.14 |
| 12054 | 'Bcl7b' | 46.83 | 64.31 | 48.7 | 18.9 | 68.9 | 40.74 | 58.3 | 63.08 | 64.97 | 42.64 |
| 12055 | 'Bcl7c' | 0.99 | 0.57 | 2.43 | 0.01 | 0.59 | 2.1 | 0.74 | 0.13 | 0.46 | 1.08 |
| 12057 | 'Opn1sw' | 0.56 | 0 | 1.39 | 0 | 0 | 0 | 0 | 0.65 | 0 | 0.02 |
| 12061 | 'Bdkrb1' | 0 | 0 | 1.28 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12062 | 'Bdkrb2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.46 |
| 12064 | 'Bdnf' | 9.64 | 68.7 | 19.5 | 34.1 | 24.2 | 45.62 | 6.26 | 14.24 | 51.36 | 62.09 |
| 12068 | 'Bet1' | 9.42 | 16.22 | 14.8 | 15.5 | 20.7 | 20.67 | 16.4 | 16.97 | 26.01 | 47.76 |
| 12069 | 'Bex2' | 1796 | 1962 | 1521 | 2848 | 1822 | 2068 | 1396 | 1974 | 1711 | 2038.57 |
| 12070 | 'Bex3' | 899.6 | 877.5 | 843 | 1162 | 848 | 1227 | 789 | 836.9 | 869.8 | 1206.79 |
| 12075 | 'Bfsp1' | 0.02 | 2.81 | 0 | 12.1 | 3.46 | 0 | 6.3 | 0 | 0 | 0 |
| 12091 | 'Glb1' | 23.06 | 35.34 | 13.6 | 28.1 | 15.6 | 34.83 | 35.3 | 32.41 | 40.86 | 39.33 |
| 12095 | 'Bglap3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.29 | 0 |
| 121021 | 'Cspg4' | 0 | 0 | 11.2 | 1.76 | 1.14 | 0.73 | 9.61 | 0.38 | 0.01 | 0.01 |
| 121022 | 'Mrps6' | 133.7 | 62.34 | 79.5 | 69.6 | 63.5 | 57.69 | 86.5 | 68.98 | 70.62 | 75.06 |
| 12116 | 'Bhmt' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 12121 | 'Bicd1' | 19.96 | 17.96 | 23.4 | 8.84 | 19.6 | 18.39 | 12.7 | 14.43 | 18.57 | 22.07 |
| 12122 | 'Bid' | 27.65 | 27.55 | 41.1 | 32.1 | 12.6 | 42.8 | 16.6 | 28.89 | 46.6 | 37.98 |
| 12123 | 'Hrk' | 0.51 | 1.79 | 0 | 2.36 | 0.03 | 1.81 | 0.82 | 0.16 | 1.38 | 0.73 |
| 12125 | 'Bcl2l11' | 0 | 1.07 | 0.02 | 0.2 | 0.03 | 0 | 0.01 | 0 | 0.01 | 0 |
| 12140 | 'Fabp7' | 33.32 | 43.88 | 26.9 | 34.3 | 22.1 | 46.91 | 89 | 29.02 | 17.05 | 42.95 |
| 12142 | 'Prdm1' | 0 | 0 | 1.49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12144 | 'Blm' | 0 | 0 | 1.14 | 0 | 0 | 1.53 | 0 | 0.93 | 1.39 | 1.93 |
| 12145 | 'Cxcr5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.74 | 0 |
| 12151 | 'Bmi1' | 12.29 | 3.67 | 2.77 | 1.58 | 1.56 | 0 | 1.56 | 1.86 | 2.46 | 2.77 |
| 12153 | 'Bmp1' | 7.95 | 3.17 | 4.67 | 6.55 | 0.73 | 4.76 | 0.03 | 4.1 | 0.01 | 2.29 |
| 12156 | 'Bmp2' | 0 | 0 | 1.12 | 0 | 0.79 | 0 | 0 | 0 | 0 | 0 |
| 12159 | 'Bmp4' | 0 | 0 | 8.41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12161 | 'Bmp6' | 0.48 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12162 | 'Bmp7' | 0 | 0.14 | 7.83 | 0.11 | 5.02 | 0 | 2.45 | 1.23 | 0 | 0 |
| 12163 | 'Bmp8a' | 0 | 0 | 0 | 4.08 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12164 | 'Bmp8b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.99 | 2.5 |
| 12166 | 'Bmpr1a' | 2.18 | 1.35 | 1.47 | 1.89 | 1.13 | 1.33 | 2.85 | 1.12 | 1.47 | 2.95 |
| 12167 | 'Bmpr1b' | 3.18 | 0.1 | 0 | 0.01 | 0.38 | 1.92 | 0 | 0.02 | 1.35 | 0.32 |
| 12168 | 'Bmpr2' | 2.1 | 2.83 | 2.41 | 5.05 | 4.18 | 2.12 | 5.09 | 1.06 | 0.18 | 1.13 |
| 12175 | 'Bnip2' | 15.78 | 18.12 | 12.6 | 25.3 | 10.5 | 6.17 | 10.3 | 10.77 | 11.86 | 15.26 |
| 12176 | 'Bnip3' | 184 | 115.5 | 139 | 122 | 183 | 192.4 | 117 | 200.6 | 115.7 | 133.56 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 12177 | 'Bnip3l' | 58.96 | 62.01 | 33.9 | 49.1 | 81.1 | 59.02 | 54.2 | 58.21 | 51.16 | 56.41 |
| 12180 | 'Smyd1' | 1.01 | 0.01 | 0.01 | 0 | 0 | 1.78 | 0 | 0 | 0.01 | 0 |
| 12181 | 'Bop1' | 21.45 | 28.21 | 23.2 | 13.6 | 18.1 | 17.84 | 15.4 | 31.32 | 9.51 | 30.53 |
| 12183 | 'Bpgm' | 33.1 | 26.43 | 43.3 | 63.4 | 39.2 | 39.71 | 16.3 | 49.96 | 16.81 | 57.82 |
| 12189 | 'Brca1' | 0 | 0 | 1.59 | 0 | 0 | 0 | 0 | 0 | 0.11 | 0 |
| 12190 | 'Brca2' | 1.59 | 0.3 | 2.47 | 2.67 | 0.16 | 0.84 | 1.85 | 0.07 | 1.64 | 0.81 |
| 12192 | 'Zfp36l1' | 0.99 | 6.88 | 11.6 | 18.1 | 3.37 | 8.65 | 12.5 | 2.69 | 5.16 | 0.61 |
| 12193 | 'Zfp36l2' | 1.5 | 1.05 | 0.6 | 2.81 | 0.03 | 0.28 | 5.24 | 1.92 | 0.67 | 0.9 |
| 12209 | 'Brs3' | 7.89 | 16.63 | 8.61 | 0.02 | 0.02 | 0.03 | 0.02 | 34.03 | 56.16 | 110.34 |
| 12211 | 'Birc6' | 4.85 | 5.08 | 5.17 | 10.2 | 6.77 | 3.34 | 4.48 | 4.51 | 6.12 | 5.53 |
| 12212 | 'Chic1' | 13.88 | 7.94 | 30.2 | 0.75 | 3.06 | 6.24 | 19.7 | 4.36 | 7.3 | 9.75 |
| 12215 | 'Bsg' | 863.9 | 1092 | 797 | 914 | 869 | 992.5 | 784 | 1056 | 1011 | 1182.12 |
| 12217 | 'Bsn' | 0.78 | 0.95 | 2.05 | 0 | 2.92 | 0.21 | 2.19 | 1.04 | 2.01 | 1.42 |
| 12223 | 'Btc' | 0.91 | 0.7 | 0.23 | 3.63 | 0 | 0 | 0 | 0 | 0 | 0.04 |
| 12224 | 'Klf5' | 1.49 | 5.26 | 0 | 14.5 | 0.17 | 0.03 | 2.16 | 0 | 0 | 0 |
| 12226 | 'Btg1' | 5.11 | 5.7 | 1.81 | 19.6 | 3.64 | 2.34 | 1.64 | 4.25 | 5.34 | 1.12 |
| 12227 | 'Btg2' | 12.33 | 23.34 | 14.8 | 46.5 | 10.7 | 20.65 | 5.61 | 3.33 | 20.86 | 32.39 |
| 12228 | 'Btg3' | 12.35 | 8.51 | 1.41 | 11.2 | 11.4 | 0.19 | 0 | 0.37 | 8.28 | 5.31 |
| 12229 | 'Btk' | 0 | 0.17 | 0 | 0.27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12231 | 'Btn1a1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.24 | 0 | 0 |
| 12234 | 'Btrc' | 42.13 | 25.74 | 27.3 | 18.6 | 15.3 | 38.68 | 26.2 | 20.61 | 32.19 | 37.44 |
| 12235 | 'Bub1' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12236 | 'Bub1b' | 0 | 0.9 | 0 | 0 | 2.5 | 0 | 0 | 0 | 1.76 | 0 |
| 12237 | 'Bub3' | 138.9 | 109.8 | 182 | 210 | 104 | 147.7 | 109 | 270.9 | 191.4 | 148.33 |
| 12238 | 'Commd3' | 126 | 119.8 | 136 | 131 | 140 | 189.7 | 75.1 | 113.7 | 91.47 | 109.78 |
| 12257 | 'Tspo' | 0.38 | 0.18 | 4.65 | 7.57 | 0 | 31.14 | 0 | 3.45 | 0.05 | 8.44 |
| 12258 | 'Serping1' | 0 | 3.9 | 7.62 | 9.47 | 5.63 | 0.03 | 0 | 4.98 | 5.54 | 8.8 |
| 12259 | 'C1qa' | 0 | 22.78 | 9.16 | 35.1 | 45.7 | 219.4 | 37 | 4.32 | 16.08 | 3.62 |
| 12260 | 'C1qb' | 3.82 | 45.54 | 27.5 | 48.7 | 42.8 | 444.1 | 40 | 24.47 | 5.27 | 21.31 |
| 12261 | 'C1qbp' | 101.2 | 90.77 | 111 | 70.4 | 84 | 104.6 | 80.5 | 120.4 | 93.68 | 81.09 |
| 12262 | 'C1qc' | 8.31 | 8.98 | 2.92 | 44.9 | 29.9 | 50.07 | 0.05 | 1.22 | 0.04 | 0 |
| 12263 | 'C2' | 1.62 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12265 | 'Ciita' | 0 | 0 | 0 | 0 | 0.25 | 0 | 0 | 0 | 0 | 0.01 |
| 12266 | 'C3' | 0 | 0 | 0 | 0 | 1.08 | 0 | 4.48 | 2.15 | 0 | 0 |
| 12267 | 'C3ar1' | 0.46 | 0.93 | 0 | 0 | 0 | 4.18 | 0 | 0 | 0 | 0 |
| 12268 | 'C4b' | 0 | 0 | 3.43 | 5.43 | 24.3 | 0 | 0.01 | 0 | 0.01 | 0.01 |
| 12274 | 'C6' | 0 | 0 | 0 | 0.08 | 0.07 | 0 | 0 | 0 | 0 | 0.03 |
| 12282 | 'Hyou1' | 16.81 | 10.48 | 15 | 5.13 | 7.05 | 1.85 | 8.16 | 9.36 | 38.79 | 15.92 |
| 12283 | 'Cab39' | 6.39 | 4.83 | 9.83 | 34 | 10.9 | 0.52 | 5.09 | 10.6 | 6.66 | 7.78 |
| 12286 | 'Cacna1a' | 0.63 | 0.33 | 2.58 | 1.96 | 1.07 | 1.23 | 0.77 | 0.09 | 0.13 | 0.64 |
| 12287 | 'Cacna1b' | 5.28 | 10.14 | 8.91 | 5.27 | 3.96 | 6.17 | 7.22 | 7.16 | 13 | 7.45 |
| 12288 | 'Cacna1c' | 0.65 | 1.34 | 0.16 | 0.73 | 0.79 | 0.01 | 1.36 | 0.47 | 0.38 | 0.54 |
| 12289 | 'Cacna1d' | 2.25 | 2.1 | 1.93 | 1.33 | 1.85 | 0 | 1.2 | 1.01 | 2.54 | 1.55 |
| 12290 | 'Cacna1e' | 10.56 | 8.1 | 17.5 | 4.89 | 13.8 | 7.8 | 10.1 | 9.56 | 1.97 | 12.31 |
| 12291 | 'Cacna1g' | 3.04 | 4.73 | 1.99 | 9.3 | 9.24 | 1.12 | 4.38 | 2.88 | 3.91 | 1.73 |
| 12292 | 'Cacna1s' | 0.24 | 0.44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12293 | 'Cacna2d1' | 5.29 | 15.08 | 14.1 | 23 | 14.7 | 8.92 | 19.9 | 3.37 | 14.6 | 26.86 |
| 12294 | 'Cacna2d3' | 4.14 | 9.35 | 0.15 | 0.45 | 0.03 | 0 | 0 | 1.97 | 5.39 | 0 |
| 12295 | 'Cacnb1' | 15.54 | 9.46 | 8.28 | 2.14 | 10.7 | 11.38 | 8.56 | 8.2 | 13.75 | 5.64 |
| 12296 | 'Cacnb2' | 1.37 | 0.52 | 1.66 | 0.86 | 1.96 | 2.92 | 2.91 | 1.36 | 3.66 | 1.55 |
| 12297 | 'Cacnb3' | 15.76 | 36.36 | 34.3 | 10.2 | 22.4 | 32.98 | 39.9 | 31.95 | 38.08 | 22.75 |
| 12298 | 'Cacnb4' | 11.46 | 6.73 | 11.6 | 10.1 | 8.12 | 4.06 | 7.11 | 4.23 | 8.92 | 5.39 |
| 12299 | 'Cacng1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.98 | 0 | 0 |
| 12300 | 'Cacng2' | 8.43 | 5.43 | 18 | 16.1 | 11.2 | 10.67 | 12 | 8.76 | 9.63 | 4.04 |
| 12301 | 'Cacybp' | 183.6 | 186.4 | 143 | 171 | 106 | 120.5 | 105 | 141.1 | 154.7 | 179.34 |
| 12304 | 'Pdia4' | 37.11 | 91.93 | 37.1 | 14.5 | 48.4 | 41.96 | 20.7 | 52.45 | 66.11 | 78.31 |
| 12305 | 'Ddr1' | 5.41 | 5.57 | 3.11 | 3.68 | 13.3 | 2.91 | 1.5 | 5.2 | 4.5 | 4.5 |
| 12306 | 'Anxa2' | 0 | 0 | 0.04 | 0 | 7.7 | 2.24 | 0 | 0 | 0.22 | 0 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 12395 | 'Runx1t1' | 1.64 | 3.88 | 6.71 | 1.83 | 5.58 | 3.71 | 1.32 | 2.56 | 0.54 | 4.46 |
| 12396 | 'Cbfa2t2' | 15.28 | 16.15 | 10.3 | 8.19 | 13 | 13.38 | 10.9 | 12.18 | 11.78 | 14.29 |
| 12398 | 'Cbfa2t3' | 0.01 | 0.34 | 0.01 | 0.13 | 1.07 | 0 | 0 | 0 | 0 | 0.94 |
| 12399 | 'Runx3' | 0.01 | 0 | 0 | 0.02 | 0.02 | 0 | 0.01 | 0.01 | 0.01 | 0 |
| 12400 | 'Cbfb' | 3.2 | 7.09 | 2.25 | 9.67 | 3.91 | 1.44 | 1.98 | 8.36 | 12.5 | 10.25 |
| 12402 | 'Cbl' | 1.52 | 2.2 | 6.89 | 5.46 | 1.95 | 0.91 | 0.09 | 1.52 | 2.45 | 3.33 |
| 12404 | 'Cbln1' | 0.02 | 19.98 | 4.6 | 0 | 1.11 | 5.04 | 11.5 | 0 | 0.33 | 3.6 |
| 12405 | 'Cbln2' | 16.26 | 112.8 | 51.8 | 130 | 7.75 | 51.91 | 5.47 | 11.58 | 305.6 | 75.39 |
| 12406 | 'Serpinh1' | 2.58 | 0 | 0.74 | 0 | 0.11 | 0 | 0 | 0.52 | 1.94 | 1.56 |
| 12408 | 'Cbr1' | 146.5 | 133.5 | 134 | 117 | 184 | 181.4 | 198 | 179.6 | 134.7 | 133.61 |
| 12411 | 'Cbs' | 2.82 | 10.71 | 1.93 | 16.4 | 1.83 | 5.7 | 13.5 | 1.31 | 1.09 | 1.4 |
| 12412 | 'Cbx1' | 32.05 | 23.06 | 16.9 | 32.8 | 43.1 | 7.76 | 25.2 | 30.94 | 20.64 | 33.33 |
| 12416 | 'Cbx2' | 0.81 | 0 | 0.14 | 0 | 0.01 | 0.29 | 3.6 | 0 | 1.06 | 0 |
| 12417 | 'Cbx3' | 202.3 | 206 | 184 | 329 | 239 | 105.2 | 156 | 202.5 | 160.9 | 190.64 |
| 12418 | 'Cbx4' | 3.17 | 4.87 | 6.29 | 9.29 | 0.16 | 0.75 | 1.98 | 1.72 | 4.76 | 2.99 |
| 12419 | 'Cbx5' | 110.8 | 68.51 | 54.9 | 73.7 | 105 | 76.93 | 104 | 100.6 | 69.22 | 86.47 |
| 12421 | 'Rb1cc1' | 4.91 | 3.57 | 4.61 | 17.3 | 7.4 | 2.66 | 3.96 | 4.71 | 8.22 | 5.86 |
| 12424 | 'Cck' | 0 | 3.19 | 246 | 188 | 62.1 | 73.22 | 0 | 1.06 | 83.84 | 96.2 |
| 12425 | 'Cckar' | 21.54 | 5.79 | 4.36 | 0 | 4.55 | 8.44 | 1.85 | 11.24 | 0.03 | 0.01 |
| 12426 | 'Cckbr' | 3.02 | 4.38 | 2.45 | 0 | 0 | 0 | 4.93 | 7.94 | 0.02 | 1.39 |
| 12427 | 'Ccna1' | 0.03 | 0.31 | 3.19 | 0 | 0 | 0 | 0 | 2.92 | 5.8 | 0 |
| 12428 | 'Ccna2' | 1.91 | 2.96 | 0.05 | 0.21 | 0.15 | 2.37 | 0.59 | 0.83 | 0.32 | 1.37 |
| 12442 | 'Ccnb2' | 2.23 | 0 | 2.27 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74 |
| 12443 | 'Ccnd1' | 0.13 | 17.87 | 28.4 | 0 | 15.1 | 6.16 | 16.2 | 3.89 | 17.96 | 29.76 |
| 12444 | 'Ccnd2' | 0.03 | 4.75 | 5.08 | 0.04 | 3.39 | 1.41 | 4.61 | 4.85 | 4.77 | 3.95 |
| 12445 | 'Ccnd3' | 27.78 | 30.19 | 30.2 | 12.8 | 23.9 | 15.4 | 21.3 | 8.04 | 31.15 | 47.53 |
| 12447 | 'Ccne1' | 12.69 | 8.71 | 5.25 | 13.4 | 5.17 | 12.77 | 0.03 | 17.05 | 0 | 3.58 |
| 12448 | 'Ccne2' | 3.98 | 0.15 | 0.14 | 6.95 | 3.56 | 3.88 | 0.18 | 1.58 | 0.41 | 0 |
| 12449 | 'Ccnf' | 0 | 2.39 | 2.73 | 0 | 3.98 | 2.53 | 0 | 0.01 | 1.18 | 0.01 |
| 12450 | 'Ccng1' | 15.45 | 10.21 | 8.36 | 9.78 | 29.6 | 4.61 | 9.16 | 14.13 | 13.41 | 8.86 |
| 12452 | 'Ccng2' | 0 | 5.29 | 0.27 | 0.45 | 1.73 | 0 | 0 | 6.09 | 4.94 | 2.23 |
| 12453 | 'Ccnl' | 6.96 | 1.95 | 0.34 | 17.1 | 7.79 | 3.56 | 0.02 | 2.11 | 5.46 | 5.87 |
| 12454 | 'Ccnk' | 2.33 | 1.93 | 2.45 | 0.63 | 0.06 | 4.77 | 5.86 | 1.97 | 0.38 | 2.04 |
| 12455 | 'Ccnt1' | 23.78 | 21.95 | 18.2 | 18.2 | 21.2 | 14.39 | 24.7 | 19.13 | 14.27 | 20.51 |
| 12457 | 'Noct' | 3.77 | 0.98 | 7.66 | 8.26 | 4.76 | 0.38 | 2.38 | 2.33 | 3.16 | 0.3 |
| 12460 | 'Ccs' | 25.09 | 31.79 | 57.2 | 84.1 | 26.7 | 26.65 | 45.4 | 79.68 | 48.13 | 45.55 |
| 12461 | 'Cct2' | 67.84 | 125.5 | 75 | 97.9 | 66.2 | 90.88 | 122 | 81.11 | 65.32 | 74.55 |
| 12462 | 'Cct3' | 230.8 | 225.5 | 193 | 228 | 157 | 231.8 | 218 | 164.3 | 214.6 | 229.35 |
| 12464 | 'Cct4' | 145.4 | 143.2 | 106 | 65 | 74.7 | 134.8 | 88.5 | 144.3 | 157.5 | 157.21 |
| 12465 | 'Cct5' | 204.7 | 200.1 | 221 | 213 | 170 | 262.5 | 237 | 226.6 | 290.5 | 267.16 |
| 12466 | 'Cct6a' | 155.5 | 187.3 | 141 | 156 | 136 | 183.9 | 198 | 192 | 154.8 | 157.7 |
| 12467 | 'Cct6b' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12468 | 'Cct7' | 360.8 | 312.3 | 294 | 440 | 293 | 382.2 | 343 | 298.8 | 356.7 | 413.1 |
| 12469 | 'Cct8' | 246.1 | 282.7 | 266 | 229 | 160 | 255.9 | 282 | 258.7 | 227.6 | 268.98 |
| 12475 | 'Cd14' | 0 | 0 | 0 | 0 | 3.05 | 20.37 | 0 | 0 | 0.03 | 0 |
| 12476 | 'Cd151' | 27.27 | 24.56 | 21.1 | 49.6 | 37.4 | 37.48 | 22 | 29.88 | 11.56 | 40.09 |
| 12479 | 'Cd1d1' | 0 | 6.77 | 0.65 | 0 | 0.03 | 12.38 | 11.4 | 4.69 | 55.75 | 77.25 |
| 12483 | 'Cd22' | 0.02 | 0.01 | 0.02 | 0 | 0.06 | 0.03 | 0 | 0.02 | 0 | 0 |
| 12484 | 'Cd24a' | 3.32 | 50.72 | 44.5 | 28.2 | 1.63 | 0.03 | 0.03 | 21.32 | 3.94 | 4.79 |
| 12488 | 'Cd2ap' | 1.95 | 1.25 | 0.72 | 0.59 | 1.91 | 0.84 | 0.37 | 1.89 | 1.78 | 1.11 |
| 12489 | 'Cd33' | 0 | 0 | 0 | 0 | 4.65 | 0.31 | 0 | 0 | 0 | 0.02 |
| 12490 | 'Cd34' | 0 | 0 | 0 | 75.8 | 0 | 4.04 | 4.97 | 2.73 | 0 | 0 |
| 12491 | 'Cd36' | 15.2 | 9.56 | 0.6 | 5.67 | 0.18 | 4.24 | 0.18 | 4.87 | 0.51 | 2.66 |
| 12492 | 'Scarb2' | 16.88 | 19.17 | 14.3 | 7.19 | 10.2 | 8.82 | 19.1 | 18.22 | 22.22 | 17.66 |
| 12493 | 'Cd37' | 0 | 0 | 0 | 0 | 0 | 25.75 | 0 | 0 | 0 | 4.31 |
| 12494 | 'Cd38' | 10.11 | 5.8 | 0.02 | 3.97 | 0.12 | 2.85 | 0.02 | 3.21 | 3.17 | 3.04 |
| 12495 | 'Entpd1' | 0 | 0 | 0 | 0 | 1.71 | 6.46 | 3.32 | 1.49 | 0 | 1.04 |
| 12496 | 'Entpd2' | 4.04 | 12.51 | 0 | 15 | 3.93 | 12.81 | 0 | 5.02 | 5.82 | 3.97 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 12497 | 'Entpd6' | 78.9 | 92.95 | 80.4 | 53.9 | 64 | 70.02 | 68.5 | 90.39 | 102.1 | 124.44 |
| 12499 | 'Entpd5' | 6.77 | 12.15 | 6.02 | 7.46 | 8.07 | 6.64 | 8.77 | 4.91 | 11.93 | 10.01 |
| 12503 | 'Cd247' | 0 | 0 | 0 | 0 | 0.41 | 0 | 1 | 0 | 0 | 0.14 |
| 12504 | 'Cd4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.65 | 0 | 0 |
| 12505 | 'Cd44' | 0.01 | 2.04 | 0 | 0 | 0.26 | 0 | 0.01 | 0 | 0.01 | 2.66 |
| 12507 | 'Cd5' | 0 | 3.06 | 0.02 | 0 | 0.02 | 0 | 7.49 | 0 | 0 | 0.02 |
| 12508 | 'Cd53' | 0 | 0 | 0.05 | 0 | 0 | 10.14 | 3.49 | 0.55 | 0 | 2.53 |
| 12509 | 'Cd59a' | 31.22 | 16.24 | 17.5 | 39.5 | 10.5 | 12.27 | 8.21 | 21.36 | 6.15 | 9.41 |
| 12511 | 'Cd6' | 0 | 0 | 0 | 2.17 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12512 | 'Cd63' | 117 | 91.11 | 101 | 141 | 104 | 123.1 | 50.7 | 65.33 | 78.27 | 118.04 |
| 12514 | 'Cd68' | 0.94 | 8.54 | 3.75 | 12.4 | 6.57 | 15.77 | 2.26 | 0.03 | 0.92 | 9.03 |
| 12515 | 'Cd69' | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12517 | 'Cd72' | 0 | 0.04 | 0.08 | 0 | 0 | 1.27 | 0 | 0 | 0 | 0 |
| 12518 | 'Cd79a' | 0 | 0 | 0 | 0 | 0 | 0 | 2.57 | 0 | 0 | 0 |
| 12519 | 'Cd80' | 0 | 0.08 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0.03 |
| 12520 | 'Cd81' | 699.7 | 688.8 | 672 | 681 | 478 | 761.3 | 613 | 643.8 | 633 | 624.73 |
| 12521 | 'Cd82' | 17.26 | 26.39 | 11.6 | 13.8 | 5.08 | 54.1 | 0 | 23.1 | 12.24 | 5.38 |
| 12522 | 'Cd83' | 66.78 | 56.5 | 82 | 29.7 | 75.6 | 115.9 | 97.4 | 103.4 | 103.1 | 54.67 |
| 12523 | 'Cd84' | 0.75 | 0.38 | 1.14 | 0.06 | 0.64 | 3.85 | 1.17 | 0.4 | 0.93 | 1.6 |
| 12524 | 'Cd86' | 1.32 | 0 | 0 | 2.17 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 12525 | 'Cd8a' | 0 | 0 | 0.4 | 0 | 0.03 | 0 | 0 | 0 | 0.05 | 0 |
| 12526 | 'Cd8b1' | 0.03 | 0.03 | 0 | 0 | 0.04 | 0.07 | 0 | 0.21 | 0 | 0.03 |
| 12527 | 'Cd9' | 17.39 | 18.87 | 91.3 | 28.4 | 8.93 | 118 | 86.7 | 26.64 | 2.37 | 6.24 |
| 12530 | 'Cdc25a' | 4.18 | 6.36 | 1.61 | 18.5 | 2.48 | 4.5 | 6.98 | 3.28 | 5.83 | 0.12 |
| 12531 | 'Cdc25b' | 0.78 | 0.83 | 0.63 | 0 | 0.56 | 0 | 0 | 3.08 | 2.52 | 2.33 |
| 12532 | 'Cdc25c' | 0 | 0 | 0 | 0 | 0 | 5.2 | 0.03 | 0 | 0 | 0 |
| 12537 | 'Cdk11b' | 13.86 | 18 | 34.3 | 18.3 | 28.7 | 22.18 | 7.34 | 17.89 | 20.31 | 16.88 |
| 12539 | 'Cdc37' | 99.76 | 90.3 | 110 | 105 | 97.3 | 87.76 | 82.2 | 103.6 | 106.2 | 91.8 |
| 12540 | 'Cdc42' | 438.7 | 410.2 | 409 | 430 | 300 | 488 | 362 | 392.3 | 320.8 | 367.58 |
| 12544 | 'Cdc45' | 3.82 | 0 | 2.63 | 0 | 0 | 0 | 4.53 | 4.48 | 0 | 0 |
| 12545 | 'Cdc7' | 15.49 | 29.11 | 13.2 | 0 | 19.2 | 3.66 | 31.3 | 20.52 | 31.68 | 13.96 |
| 12549 | 'Arhgap31' | 0 | 0 | 0.42 | 0.18 | 0 | 0 | 2.15 | 0 | 0 | 0.04 |
| 12550 | 'Cdh1' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12552 | 'Cdh11' | 7.08 | 13.36 | 14.4 | 6.33 | 9.89 | 8.27 | 14.4 | 12.13 | 12.34 | 9.12 |
| 12554 | 'Cdh13' | 97.15 | 67.79 | 93.5 | 71 | 73.3 | 190.8 | 75.3 | 92.63 | 40.26 | 30.57 |
| 12555 | 'Cdh15' | 1.38 | 5.56 | 7.57 | 18 | 4.31 | 7.89 | 1.83 | 1.94 | 2.99 | 4.45 |
| 12556 | 'Cdh16' | 0 | 0.02 | 0 | 0.19 | 0.03 | 0 | 0.02 | 0.08 | 0.06 | 0.03 |
| 12557 | 'Cdh17' | 0 | 0 | 0.01 | 0 | 1.9 | 0.83 | 0 | 0 | 0 | 0 |
| 12558 | 'Cdh2' | 19.9 | 30.88 | 24.5 | 20.1 | 13.3 | 11.26 | 17 | 11.73 | 15.74 | 10.46 |
| 12561 | 'Cdh4' | 5.11 | 7.28 | 7.31 | 2.94 | 0.8 | 0.01 | 11.5 | 4.99 | 1.53 | 6.36 |
| 12562 | 'Cdh5' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12563 | 'Cdh6' | 2.12 | 1.4 | 1.64 | 3.37 | 2.55 | 0.15 | 0.76 | 4.49 | 0 | 0.3 |
| 12564 | 'Cdh8' | 9.71 | 8.93 | 18.2 | 1.09 | 9.98 | 1.2 | 21.9 | 25.36 | 6.8 | 3.61 |
| 12565 | 'Cdh9' | 2.95 | 0 | 0.19 | 0 | 1.69 | 6.14 | 0.05 | 1.37 | 0.01 | 12.1 |
| 12566 | 'Cdk2' | 0 | 0 | 0 | 0 | 0 | 0 | 4.69 | 0 | 0 | 0 |
| 12567 | 'Cdk4' | 53.06 | 65.4 | 53.2 | 40.8 | 82.1 | 55.02 | 86.4 | 100.4 | 51.02 | 48.71 |
| 12568 | 'Cdk5' | 144.8 | 118.3 | 130 | 157 | 103 | 169.2 | 110 | 182.2 | 93.62 | 90.38 |
| 12569 | 'Cdk5r1' | 3.74 | 1.24 | 4.33 | 6.87 | 7.4 | 4.29 | 2.75 | 2.77 | 8.28 | 3.27 |
| 12570 | 'Cdk5r2' | 3.9 | 1.08 | 1.27 | 3.93 | 4.81 | 0.87 | 1.95 | 3.99 | 2.6 | 3.2 |
| 12571 | 'Cdk6' | 0 | 0.35 | 0 | 0.01 | 0.01 | 0.73 | 0 | 0.01 | 0.01 | 0.01 |
| 12572 | 'Cdk7' | 5.89 | 4.59 | 6.75 | 2.77 | 6.55 | 5.13 | 0.96 | 6.23 | 5.8 | 7.05 |
| 12575 | 'Cdkn1a' | 2.08 | 3.8 | 5.45 | 24 | 2.25 | 10.44 | 0.34 | 1.53 | 13.25 | 13.7 |
| 12576 | 'Cdkn1b' | 9.59 | 8.06 | 6.29 | 7.19 | 9.67 | 7.54 | 2.55 | 4.25 | 12.69 | 11.45 |
| 12577 | 'Cdkn1c' | 0 | 0 | 0 | 0 | 0.93 | 0 | 1.21 | 0 | 0 | 0 |
| 12580 | 'Cdkn2c' | 0 | 0 | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0 |
| 12581 | 'Cdkn2d' | 166.6 | 153.6 | 132 | 136 | 163 | 235.9 | 136 | 186.8 | 164.1 | 130.95 |
| 12583 | 'Cdo1' | 34.85 | 36.51 | 68.7 | 33.5 | 63.2 | 34.89 | 47.4 | 34.67 | 23.42 | 22.84 |
| 12585 | 'Cdr2' | 3.89 | 1.32 | 0 | 0 | 2.04 | 0 | 0 | 0 | 3.41 | 0 |

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|-------|----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 12834 | 'Col6a2' | 0 | 4.36 | 0 | 0 | 2.67 | 0.29 | 0 | 0 | 0.01 | 0 |
| 12835 | 'Col6a3' | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 | 0.59 | 0 | 0 |
| 12836 | 'Col7a1' | 0 | 0.19 | 0.03 | 0.16 | 0.14 | 0 | 1.37 | 0.48 | 0 | 0.16 |
| 12837 | 'Col8a1' | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0.95 | 0 | 0 |
| 12839 | 'Col9a1' | 0 | 1.14 | 2.24 | 1.46 | 7.1 | 3.07 | 0 | 1.54 | 0 | 2.01 |
| 12840 | 'Col9a2' | 2.85 | 2.85 | 11.4 | 8.11 | 6.78 | 5.73 | 4.94 | 4.42 | 11.01 | 4.59 |
| 12841 | 'Col9a3' | 6.16 | 4.91 | 6.11 | 0 | 1.84 | 3.76 | 6.75 | 2.07 | 3.15 | 3.38 |
| 12842 | 'Col1a1' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 |
| 12843 | 'Col1a2' | 0 | 0 | 0 | 0 | 0.02 | 0 | 2.63 | 0 | 0 | 0.87 |
| 12845 | 'Comp' | 0 | 0.1 | 0 | 0 | 0 | 0 | 0.29 | 0.02 | 0 | 0 |
| 12846 | 'Comt' | 93.43 | 70.94 | 84.5 | 34.5 | 69.8 | 133.2 | 83.9 | 84.91 | 75.35 | 83.23 |
| 12847 | 'Copa' | 26.18 | 47.81 | 45.3 | 62.5 | 32.4 | 32.12 | 15.8 | 31.01 | 41.71 | 37.09 |
| 12848 | 'Cops2' | 26.53 | 41.73 | 26.9 | 30.7 | 32.1 | 17.92 | 27.7 | 30.35 | 19.62 | 40.07 |
| 12850 | 'Coq7' | 105 | 112.1 | 206 | 212 | 155 | 173.4 | 133 | 183.2 | 132.1 | 156.57 |
| 12854 | 'Cort' | 0 | 0 | 1.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12856 | 'Cox17' | 209.3 | 277.1 | 302 | 455 | 150 | 331 | 228 | 125.9 | 370.6 | 175.59 |
| 12857 | 'Cox4i1' | 1452 | 1159 | 1344 | 1278 | 1703 | 1990 | 1741 | 1423 | 1262 | 1691.11 |
| 12858 | 'Cox5a' | 617 | 484.7 | 662 | 561 | 565 | 813.4 | 682 | 663 | 560 | 515.39 |
| 12859 | 'Cox5b' | 722.4 | 648.7 | 985 | 606 | 837 | 1015 | 893 | 681.7 | 739.8 | 608.93 |
| 12861 | 'Cox6a1' | 818.3 | 674.2 | 893 | 839 | 818 | 981.6 | 890 | 674.7 | 742.1 | 688.26 |
| 12862 | 'Cox6a2' | 2.75 | 0.7 | 16.2 | 31 | 5.68 | 22.35 | 2.94 | 13.85 | 5.79 | 3.85 |
| 12864 | 'Cox6c' | 572 | 513.5 | 627 | 616 | 513 | 853.5 | 565 | 353.2 | 463.1 | 455.59 |
| 12865 | 'Cox7a1' | 4.61 | 0.31 | 11.9 | 2.6 | 3.77 | 9.93 | 8.97 | 4.94 | 2.53 | 3.06 |
| 12866 | 'Cox7a2' | 405.1 | 363.1 | 508 | 448 | 397 | 502.6 | 430 | 301.9 | 472.4 | 382.36 |
| 12867 | 'Cox7c' | 362.8 | 442.1 | 472 | 459 | 350 | 536.9 | 449 | 223.9 | 462.4 | 320.08 |
| 12868 | 'Cox8a' | 1286 | 1202 | 1358 | 1260 | 1124 | 1707 | 1441 | 984.1 | 1087 | 1184.36 |
| 12869 | 'Cox8b' | 1.6 | 0.62 | 6.55 | 2.44 | 1.11 | 2.89 | 2.75 | 1.05 | 1 | 1.83 |
| 12870 | 'Cp' | 0.01 | 0.11 | 4.47 | 0.25 | 0.25 | 0 | 5.82 | 1.13 | 0 | 0 |
| 12874 | 'Cpd' | 0.72 | 0.36 | 1.41 | 0.12 | 0.34 | 0.52 | 1.44 | 0.44 | 0.69 | 0.34 |
| 12876 | 'Cpe' | 257.3 | 222.2 | 142 | 594 | 169 | 208.5 | 194 | 213.9 | 428.8 | 156.55 |
| 12877 | 'Cpeb1' | 18.36 | 12.7 | 23.4 | 5.4 | 13.9 | 19.87 | 21 | 24.84 | 11.06 | 14.16 |
| 12879 | 'Cys1' | 2.01 | 0 | 0.25 | 0.26 | 2.04 | 2.19 | 0.4 | 0 | 0 | 0 |
| 12889 | 'Cplx1' | 52.65 | 36.03 | 295 | 14.9 | 154 | 33.74 | 136 | 176.9 | 23.55 | 17.51 |
| 12890 | 'Cplx2' | 33.68 | 33.89 | 49.9 | 35.3 | 64.1 | 24.37 | 29.3 | 56.04 | 48.88 | 28.15 |
| 12891 | 'Cpne6' | 131.8 | 95.64 | 120 | 128 | 116 | 90.07 | 99.3 | 178.8 | 105.4 | 112.16 |
| 12892 | 'Cpox' | 2.4 | 2.23 | 0.57 | 3.36 | 7.2 | 1.48 | 2.75 | 2.07 | 6.11 | 2.27 |
| 12894 | 'Cpt1a' | 0.01 | 4.51 | 0 | 0 | 0.05 | 0 | 0 | 0.25 | 0.01 | 0 |
| 12895 | 'Cpt1b' | 0.78 | 10.48 | 0.16 | 0.21 | 0.05 | 0.05 | 4.08 | 0.03 | 0.01 | 0.09 |
| 12896 | 'Cpt2' | 18.54 | 7.64 | 12 | 26.5 | 18.9 | 17.49 | 1.74 | 7.85 | 8.29 | 21.39 |
| 12902 | 'Cr2' | 0 | 0 | 0 | 0.03 | 0.02 | 0 | 0 | 0 | 0.01 | 0 |
| 12903 | 'Crabp1' | 0 | 6.31 | 0 | 0 | 3.68 | 0 | 0 | 2.64 | 0 | 0 |
| 12904 | 'Crabp2' | 0 | 0 | 0 | 0 | 0 | 0 | 5.57 | 0 | 5.15 | 0 |
| 12905 | 'Cradd' | 6.15 | 11.49 | 12.7 | 2.08 | 3.08 | 25.7 | 8.81 | 14.91 | 5.24 | 12.51 |
| 12908 | 'Crat' | 7.24 | 2.03 | 9.04 | 3.52 | 4.57 | 16.52 | 25.2 | 10.91 | 3.99 | 5.29 |
| 12909 | 'Crcp' | 43.29 | 47 | 45 | 31.2 | 83.7 | 89.89 | 64.5 | 71.28 | 32.52 | 85.41 |
| 12912 | 'Creb1' | 2.79 | 2.15 | 4.04 | 2.33 | 1.75 | 4.92 | 1.57 | 2.74 | 2.45 | 2.69 |
| 12913 | 'Creb3' | 93.79 | 82.83 | 122 | 159 | 64.3 | 106.9 | 94.1 | 101.3 | 138.8 | 158.51 |
| 12914 | 'Crebbp' | 8.15 | 8.15 | 6.94 | 14.8 | 10.9 | 4.95 | 7.2 | 5.02 | 5.96 | 6.63 |
| 12915 | 'Atf6b' | 12.74 | 16.29 | 20.4 | 6.97 | 14.2 | 5.88 | 11 | 5.84 | 11.77 | 23.72 |
| 12916 | 'Crem' | 16.29 | 15.37 | 2.46 | 10.1 | 11.3 | 4.92 | 2.83 | 7.53 | 34.18 | 39.71 |
| 12918 | 'Crh' | 0 | 7.79 | 0.37 | 7.45 | 0.15 | 0 | 131 | 16.7 | 2.75 | 0 |
| 12919 | 'Crhbp' | 0.03 | 5.42 | 0.03 | 0 | 15.8 | 28.25 | 1.26 | 0.02 | 3.4 | 25.9 |
| 12921 | 'Crhr1' | 0 | 1.51 | 2.07 | 2.68 | 1.39 | 0 | 3.92 | 0.03 | 0 | 0 |
| 12922 | 'Crhr2' | 95.98 | 120.6 | 86.8 | 50 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12925 | 'Crip1' | 3.39 | 4 | 0.49 | 16.8 | 14.4 | 10.61 | 0 | 1.84 | 0 | 2.73 |
| 12927 | 'Bcar1' | 5.49 | 10.4 | 5.63 | 21 | 2.56 | 0 | 3.8 | 9.45 | 0 | 11.21 |
| 12928 | 'Crk' | 7.74 | 4.49 | 4.26 | 10.5 | 7.83 | 8.25 | 13.9 | 4.53 | 9.37 | 11.25 |
| 12929 | 'Crkl' | 10.69 | 13.43 | 25.5 | 12.7 | 10.9 | 11.94 | 26.2 | 11.1 | 10.73 | 27.23 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 12931 | 'Crif1' | 0 | 0 | 3.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12933 | 'Crmp1' | 70.36 | 75.43 | 63.3 | 114 | 65.7 | 29.67 | 79.3 | 61.94 | 41.11 | 34.94 |
| 12934 | 'Dpysl2' | 627.7 | 545.7 | 406 | 365 | 599 | 571 | 369 | 566.1 | 478.2 | 540.46 |
| 12936 | 'Pcdha4' | 0.68 | 0.23 | 2.31 | 0.1 | 0 | 0 | 2.93 | 1.38 | 1.69 | 0.35 |
| 12937 | 'Pcdha6' | 0 | 0.12 | 0.26 | 0 | 0.22 | 0 | 0 | 0 | 1.37 | 0 |
| 12939 | 'Pcdha7' | 2.39 | 0.26 | 0 | 0 | 0 | 1.11 | 0 | 0.23 | 0 | 0 |
| 12941 | 'Pcdha5' | 0.38 | 1.77 | 0.03 | 0 | 4.59 | 0.24 | 11.3 | 1.13 | 1.55 | 1.61 |
| 12942 | 'Pcdha11' | 1.82 | 1.4 | 1.08 | 0 | 8.93 | 0.37 | 0.84 | 0.96 | 5.2 | 1.08 |
| 12943 | 'Pcdha10' | 0.87 | 1.85 | 1.34 | 0 | 2.03 | 0.36 | 0 | 0.03 | 2.8 | 3.3 |
| 12946 | 'Cr1l' | 18.23 | 19.2 | 29.6 | 23.3 | 8.03 | 15.12 | 20.5 | 13.29 | 12.8 | 27.62 |
| 12950 | 'Hapln1' | 0 | 0 | 0.94 | 0.01 | 0 | 1.41 | 0 | 0 | 0 | 0 |
| 12951 | 'Crx' | 0.06 | 0.09 | 0.16 | 0.2 | 0.07 | 0.08 | 0.1 | 0.04 | 0.12 | 0.04 |
| 12952 | 'Cry1' | 9.78 | 11.36 | 12.6 | 20 | 11.4 | 1.83 | 25.8 | 18 | 12.55 | 5.16 |
| 12953 | 'Cry2' | 26.1 | 32.81 | 41.4 | 44.3 | 16.2 | 14.56 | 44.1 | 27.76 | 15.96 | 10.81 |
| 12955 | 'Cryab' | 62.5 | 100.6 | 54.8 | 31.1 | 161 | 222 | 73.7 | 38.86 | 19.04 | 22.69 |
| 12959 | 'Cryba4' | 0 | 0 | 4.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12960 | 'Crybb1' | 0 | 2.81 | 1.89 | 0 | 4.46 | 0.22 | 3.94 | 0 | 0 | 8.53 |
| 12962 | 'Crybb3' | 0.06 | 6.6 | 0.1 | 2.3 | 0 | 0.33 | 0 | 1.33 | 0.06 | 0 |
| 12964 | 'Cryga' | 1.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.95 |
| 12971 | 'Crym' | 8.44 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 4.66 |
| 12972 | 'Cryz' | 23.71 | 5.82 | 6.61 | 5.43 | 4.23 | 10.89 | 11.1 | 5.43 | 3.77 | 4.95 |
| 12974 | 'Cs' | 89.21 | 88.36 | 114 | 55.7 | 67.1 | 79.12 | 94 | 134.3 | 92.41 | 59.71 |
| 12977 | 'Csf1' | 5.75 | 1.81 | 2.73 | 1.46 | 1.46 | 1.24 | 5.4 | 1.2 | 0.08 | 2.01 |
| 12978 | 'Csf1r' | 0.47 | 0.17 | 1.15 | 0 | 4.08 | 61.79 | 8.84 | 1.66 | 1.89 | 2.3 |
| 12982 | 'Csf2ra' | 6.84 | 12.01 | 10.9 | 8.42 | 9.28 | 3.34 | 0.62 | 1.94 | 5.3 | 20.77 |
| 12983 | 'Csf2rb' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12984 | 'Csf2rb2' | 0.01 | 0 | 0.01 | 0.08 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.04 |
| 12985 | 'Csf3' | 0 | 0 | 0 | 6.73 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12986 | 'Csf3r' | 2.96 | 0.68 | 0.77 | 1.26 | 3.29 | 8.63 | 0.37 | 0.23 | 0.74 | 0.66 |
| 12988 | 'Csk' | 0.25 | 6.24 | 4.57 | 2.68 | 1.66 | 1.84 | 5.35 | 2.96 | 0.02 | 0.8 |
| 12995 | 'Csnk2a1' | 68.49 | 61.07 | 52.3 | 39.3 | 62.8 | 46.16 | 29.9 | 60.79 | 58.03 | 54.85 |
| 13000 | 'Csnk2a2' | 1.44 | 0.44 | 5.02 | 6.56 | 2.55 | 4.1 | 1.63 | 0.29 | 4.48 | 6.22 |
| 13001 | 'Csnk2b' | 133.3 | 101.1 | 164 | 185 | 66.8 | 113.6 | 81.8 | 110.8 | 94.99 | 64.41 |
| 13002 | 'Dnajc5' | 91.96 | 73.38 | 114 | 51.7 | 63.1 | 45.14 | 128 | 102.3 | 111.1 | 81.89 |
| 13003 | 'Vcan' | 0.02 | 1.53 | 4.76 | 2.94 | 2.5 | 0.14 | 9.21 | 0.76 | 0 | 2.7 |
| 13004 | 'Ncan' | 20.95 | 33.23 | 37.9 | 37.2 | 16.9 | 18.82 | 23.2 | 27.86 | 23.26 | 17.16 |
| 13006 | 'Smc3' | 19.56 | 31.97 | 16.5 | 13.9 | 28.6 | 23.04 | 22.4 | 14.86 | 19.91 | 23.53 |
| 13007 | 'Csrp1' | 13.25 | 8.6 | 2.35 | 29.7 | 3.41 | 14.98 | 9.62 | 15.06 | 4.73 | 9.55 |
| 13008 | 'Csrp2' | 12.02 | 22.52 | 11.9 | 40.6 | 15.4 | 0.05 | 13.2 | 13.94 | 5.98 | 2.57 |
| 13009 | 'Csrp3' | 1.75 | 0.28 | 5.43 | 0.8 | 1.14 | 1.71 | 1.81 | 3 | 1.21 | 4.68 |
| 13010 | 'Cst3' | 2944 | 2478 | 1784 | 3554 | 1719 | 5485 | 1948 | 1576 | 2321 | 2494.52 |
| 13011 | 'Cst7' | 0 | 0 | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 |
| 13013 | 'Cst9' | 0 | 0 | 0 | 0 | 0 | 0 | 15.4 | 0 | 0 | 0 |
| 13014 | 'Cstb' | 103.8 | 102.7 | 140 | 251 | 104 | 185.8 | 165 | 83.27 | 154.7 | 168.42 |
| 13016 | 'Ctbp1' | 20.44 | 22.64 | 9.44 | 21.1 | 21 | 23.02 | 52.9 | 19.67 | 24.2 | 23.48 |
| 13017 | 'Ctbp2' | 6.78 | 9.39 | 2.08 | 13.4 | 4.74 | 10.19 | 3.37 | 6.67 | 7.01 | 8.85 |
| 13018 | 'Ctcf' | 3.52 | 4.11 | 1.67 | 7.3 | 6.06 | 2.48 | 10.1 | 4.11 | 0.23 | 1.19 |
| 13024 | 'Ctla2a' | 6.57 | 5.28 | 7.19 | 9.84 | 10.4 | 6.5 | 6.17 | 3.7 | 9.36 | 4.67 |
| 13025 | 'Ctla2b' | 0 | 0 | 0 | 12.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13026 | 'Pcyt1a' | 2.83 | 3.97 | 6.27 | 4.18 | 4.16 | 0.35 | 2.84 | 2.09 | 5.24 | 1.41 |
| 13030 | 'Ctsb' | 591.5 | 587.5 | 695 | 501 | 616 | 737.8 | 696 | 573.9 | 779.5 | 679.88 |
| 13032 | 'Ctsc' | 3.7 | 0 | 0 | 0 | 3.05 | 2.29 | 0.01 | 0 | 1.79 | 0.08 |
| 13033 | 'Ctsd' | 268.5 | 350.1 | 403 | 258 | 296 | 699.5 | 294 | 354.4 | 438.3 | 513.94 |
| 13036 | 'Ctsh' | 0.35 | 4.87 | 4.19 | 0.04 | 11.9 | 3.47 | 10.2 | 0.38 | 0.36 | 4.64 |
| 13038 | 'Ctsk' | 0.22 | 1.93 | 0 | 0 | 3.83 | 0.22 | 0 | 1.59 | 0 | 0 |
| 13039 | 'Ctsl' | 142.2 | 127.2 | 108 | 173 | 149 | 186.9 | 129 | 128.7 | 201.3 | 174.24 |
| 13040 | 'Ctss' | 25.14 | 22.83 | 13.5 | 69.3 | 62.3 | 445.6 | 45 | 12.1 | 17.63 | 14.98 |
| 13041 | 'Ctsw' | 0 | 0 | 1.05 | 0 | 0 | 0 | 0 | 0 | 3.91 | 0 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 13043 | 'Cttn' | 54.05 | 55.97 | 66.4 | 85.3 | 61.5 | 59.04 | 75.6 | 69.71 | 73.71 | 74.1 |
| 13046 | 'Celf1' | 11 | 9.74 | 9.37 | 11 | 11.3 | 2.02 | 6.85 | 7.39 | 9.57 | 6.26 |
| 13047 | 'Cux1' | 13.37 | 4.85 | 3.93 | 11.6 | 10 | 9.8 | 12.8 | 2.31 | 25.66 | 8.02 |
| 13048 | 'Cux2' | 6.03 | 2.81 | 7.76 | 7.56 | 6.09 | 5.33 | 14.1 | 5.87 | 10.16 | 4.66 |
| 13051 | 'Cx3cr1' | 0 | 2.01 | 0.03 | 0 | 0.21 | 17.12 | 11 | 0 | 2.73 | 1.6 |
| 13052 | 'Cxadr' | 0.52 | 0 | 5.71 | 4.42 | 0.1 | 4.62 | 8.89 | 1.02 | 1.6 | 1.35 |
| 13056 | 'Cyb561' | 85.87 | 107.7 | 95.3 | 85.1 | 93.9 | 105.5 | 100 | 72.95 | 129.1 | 195.54 |
| 13057 | 'Cyba' | 4.83 | 6.9 | 11.6 | 22.3 | 0.08 | 10.67 | 0 | 4.49 | 0 | 0.12 |
| 13058 | 'Cybb' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 |
| 13063 | 'Cycs' | 128.4 | 119.8 | 142 | 147 | 158 | 144.6 | 113 | 150.6 | 139.4 | 144.16 |
| 13067 | 'Cyct' | 0 | 0 | 0 | 11.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13070 | 'Cyp11a1' | 1.82 | 0.38 | 0 | 0 | 4.95 | 0.33 | 0 | 3.84 | 0 | 0.15 |
| 13075 | 'Cyp19a1' | 0.02 | 4.87 | 0 | 0.17 | 0 | 0.2 | 0.02 | 0.03 | 0 | 0 |
| 13076 | 'Cyp1a1' | 0 | 0 | 0.41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13078 | 'Cyp1b1' | 0 | 1 | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 |
| 13079 | 'Cyp21a1' | 0 | 0 | 0 | 4.25 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 13087 | 'Cyp2a5' | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0.13 |
| 13089 | 'Cyp2b13' | 0 | 0 | 0 | 0 | 4.31 | 0 | 0 | 0 | 0 | 0 |
| 13090 | 'Cyp2b19' | 0 | 0 | 0 | 0 | 0 | 0.36 | 0 | 0 | 0.16 | 0 |
| 13101 | 'Cyp2d10' | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13105 | 'Cyp2d9' | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13106 | 'Cyp2e1' | 0.4 | 0.38 | 0.92 | 0.83 | 0.84 | 1.02 | 0.89 | 0.32 | 0.37 | 0.41 |
| 13109 | 'Cyp2j5' | 0 | 0 | 0 | 0.03 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 13110 | 'Cyp2j6' | 3.49 | 5.95 | 3.41 | 7.13 | 0.07 | 5.64 | 11 | 2.1 | 0.04 | 1.48 |
| 13116 | 'Cyp46a1' | 73.05 | 71.3 | 117 | 53.4 | 98.5 | 131 | 131 | 125.7 | 96.42 | 78.74 |
| 13120 | 'Cyp4b1' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0.02 | 0 |
| 13121 | 'Cyp51' | 26.86 | 11.1 | 30 | 30.4 | 10.9 | 21.96 | 15.8 | 30.25 | 17.51 | 34.43 |
| 13122 | 'Cyp7a1' | 0 | 0.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13123 | 'Cyp7b1' | 1.38 | 2.08 | 0 | 0 | 3.91 | 5.01 | 1.64 | 1.42 | 4.86 | 5.4 |
| 13131 | 'Dab1' | 29.61 | 12.73 | 36.5 | 20.8 | 14.3 | 12.6 | 18 | 10.48 | 13.72 | 14.85 |
| 13132 | 'Dab2' | 4.14 | 1.91 | 3.43 | 0.13 | 0 | 0.38 | 2.42 | 0.77 | 2.04 | 0 |
| 13134 | 'Dach1' | 0.44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.12 | 1.27 |
| 13135 | 'Dad1' | 458.1 | 465.3 | 326 | 632 | 333 | 389.3 | 357 | 444.8 | 355.2 | 488.76 |
| 13136 | 'Cd55' | 5.44 | 3.49 | 3.28 | 1 | 4.64 | 12.73 | 0.25 | 13.26 | 10.3 | 12.11 |
| 13138 | 'Dag1' | 9.97 | 2.27 | 12.8 | 2.95 | 4.53 | 1.8 | 4.44 | 3.17 | 7.27 | 2.59 |
| 13139 | 'Dgka' | 3.36 | 6.37 | 8.11 | 0.02 | 3.75 | 9.5 | 0 | 5.11 | 3.81 | 16.06 |
| 13142 | 'Dao' | 0 | 0.19 | 0 | 0 | 0 | 2.78 | 0 | 0 | 0 | 0 |
| 13143 | 'Dapk2' | 0 | 0 | 0 | 0 | 3.56 | 0 | 0.04 | 0 | 0 | 0 |
| 13144 | 'Dapk3' | 4.45 | 4.93 | 3.3 | 14.4 | 4.29 | 0.93 | 3.3 | 0.13 | 1.01 | 0.42 |
| 13163 | 'Daxx' | 21.38 | 3.83 | 12.1 | 13.9 | 13.2 | 4.41 | 38.4 | 15.08 | 10.38 | 20.32 |
| 13164 | 'Dazl' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.6 | 0 | 0 |
| 13166 | 'Dbh' | 1.96 | 0 | 0.02 | 0 | 1.03 | 0 | 0 | 0 | 0 | 7.89 |
| 13167 | 'Dbi' | 442.4 | 302.4 | 503 | 353 | 378 | 570 | 434 | 248.6 | 254.2 | 213.18 |
| 13168 | 'Dbil5' | 0 | 1.46 | 0.91 | 0 | 2.14 | 0 | 0 | 0 | 2.14 | 1.06 |
| 13169 | 'Dbnl' | 81.61 | 93.35 | 60.7 | 38.5 | 67.1 | 80.54 | 87.5 | 69.68 | 113.4 | 77.28 |
| 13170 | 'Dbp' | 7.57 | 4.16 | 1.59 | 25.8 | 17.5 | 16.53 | 18.4 | 15.39 | 6.93 | 15.55 |
| 13171 | 'Dbt' | 4.49 | 4.91 | 8.98 | 7.59 | 0 | 3.04 | 1.89 | 0.73 | 4.94 | 5.96 |
| 13175 | 'Dclk1' | 29.3 | 29.23 | 33.5 | 20.4 | 30.4 | 27.3 | 31.2 | 26.42 | 38.37 | 22.67 |
| 13176 | 'Dcc' | 1.41 | 1.09 | 3.16 | 0.86 | 2.31 | 0.13 | 0.83 | 2.11 | 0.67 | 3.36 |
| 13177 | 'Eci1' | 26.29 | 20.68 | 19.1 | 4.37 | 30.3 | 41.26 | 26.5 | 17.48 | 12.6 | 9.12 |
| 13178 | 'Dck' | 16.7 | 17.31 | 9.46 | 0 | 5.63 | 10.04 | 4.13 | 16.02 | 7.05 | 8.56 |
| 13179 | 'Dcn' | 0 | 0 | 0 | 0 | 3.04 | 0 | 0 | 0 | 0 | 0 |
| 13180 | 'Pcbd1' | 222.6 | 150 | 203 | 224 | 151 | 210.2 | 49.4 | 227.1 | 132.5 | 242.29 |
| 13185 | 'Vps26c' | 38.45 | 30.3 | 30 | 44.6 | 30.6 | 51.66 | 59 | 60.94 | 30.1 | 36.93 |
| 13190 | 'Dct' | 0 | 0 | 0.02 | 0 | 8.89 | 2.13 | 3.55 | 0 | 0 | 0 |
| 13191 | 'Dctn1' | 89.92 | 80.91 | 108 | 33 | 76.3 | 61.17 | 120 | 70.93 | 102.4 | 86.08 |
| 13193 | 'Dcx' | 2.7 | 1.09 | 1.22 | 1.16 | 2.22 | 1.46 | 1.44 | 0.5 | 1.15 | 1.1 |
| 13194 | 'Ddb1' | 52.43 | 47.14 | 89.7 | 24.1 | 35.8 | 19.28 | 67.2 | 40.33 | 83.99 | 80.54 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 13195 | 'Ddc' | 117.7 | 81.17 | 29.8 | 94.9 | 31.2 | 12.03 | 4.26 | 12.82 | 16.34 | 7.03 |
| 13196 | 'Asap1' | 5.59 | 3.94 | 7.57 | 5.71 | 9.15 | 2.19 | 9.84 | 4.5 | 7.45 | 6.85 |
| 13197 | 'Gadd45a' | 4.91 | 11.64 | 6.47 | 12.8 | 6.58 | 7.43 | 4.56 | 4.87 | 4.49 | 3.5 |
| 13198 | 'Ddit3' | 24.85 | 27.43 | 48.7 | 39.5 | 58.9 | 86.25 | 55.4 | 25.88 | 90.38 | 89.98 |
| 13199 | 'Ddn' | 0.67 | 0.86 | 1.05 | 1.73 | 4.38 | 0.92 | 0.01 | 0.57 | 0 | 0 |
| 13200 | 'Ddost' | 138.7 | 274.6 | 195 | 206 | 155 | 195.2 | 147 | 188.9 | 263.6 | 263.16 |
| 13202 | 'Ddt' | 86.14 | 58.82 | 60.4 | 26.1 | 62.3 | 73.89 | 64.5 | 58.31 | 121.5 | 74.89 |
| 13204 | 'Dhx15' | 24.76 | 16.31 | 20.8 | 13.1 | 14.8 | 5.34 | 24.8 | 14.75 | 13.45 | 30.98 |
| 13205 | 'Ddx3x' | 22.4 | 12.64 | 31.7 | 45.8 | 12.1 | 9.69 | 16.7 | 14.03 | 16.86 | 10.06 |
| 13206 | 'Ddx4' | 0 | 2.27 | 2.77 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 13207 | 'Ddx5' | 388.9 | 512.4 | 356 | 534 | 278 | 160.8 | 412 | 320.6 | 261.4 | 448.03 |
| 13209 | 'Ddx6' | 29.66 | 21.53 | 22.3 | 11 | 41.4 | 29.37 | 30.8 | 38.14 | 17.23 | 26.17 |
| 13211 | 'Dhx9' | 7.31 | 5.7 | 5.37 | 5.11 | 10.4 | 6.82 | 2.17 | 4.78 | 2.42 | 3.72 |
| 13214 | 'Defb1' | 0 | 0 | 0 | 0 | 0 | 0 | 35.1 | 0 | 0 | 0 |
| 13218 | 'Defa29' | 0 | 0 | 0 | 0 | 0 | 0 | 6.37 | 4.07 | 0 | 0 |
| 13237 | 'Defa3' | 0 | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13244 | 'Degs1' | 106.7 | 70.73 | 50.3 | 39.9 | 63.8 | 98.39 | 92.8 | 103 | 76.35 | 109.55 |
| 13340 | 'Slc29a2' | 5.48 | 2.44 | 7.3 | 8.73 | 1.85 | 9.74 | 3.47 | 8.08 | 19.09 | 5.99 |
| 13345 | 'Twist2' | 0 | 6.85 | 0 | 0 | 0.75 | 5.27 | 0 | 0 | 2.85 | 0 |
| 13346 | 'Des' | 0.1 | 0 | 0.22 | 0 | 0.05 | 0.03 | 0 | 0.05 | 0.07 | 0.04 |
| 13347 | 'Dffa' | 4.17 | 7.92 | 24 | 18.3 | 9.07 | 10.33 | 5.69 | 15.2 | 14.54 | 14.37 |
| 13349 | 'Ackr1' | 7.36 | 0.17 | 0.6 | 8.36 | 13 | 0.2 | 21.7 | 4.09 | 9.46 | 10.83 |
| 13350 | 'Dgat1' | 7.99 | 20.33 | 26.9 | 4.77 | 20.2 | 2.75 | 29.3 | 14.03 | 18.01 | 2.94 |
| 13353 | 'Dgcr6' | 63.73 | 97.21 | 50.6 | 51 | 89.5 | 126.5 | 62.1 | 87.34 | 90.3 | 80.53 |
| 13356 | 'Dgcr2' | 91.69 | 103.1 | 127 | 72.5 | 71.8 | 115 | 117 | 105.8 | 111.7 | 100.05 |
| 13358 | 'Slc25a1' | 80.25 | 92.83 | 90.4 | 74.2 | 75.3 | 98.25 | 113 | 45.45 | 87.72 | 78.39 |
| 13360 | 'Dhcr7' | 18.94 | 28.31 | 44.5 | 18.3 | 13.7 | 33.59 | 23.5 | 23.04 | 20.85 | 14.57 |
| 13361 | 'Dhfr' | 0.66 | 0.51 | 0.01 | 0 | 1.05 | 2.39 | 0 | 0.83 | 1.4 | 0 |
| 13363 | 'Dhh' | 0 | 0 | 0 | 0 | 0.42 | 0 | 0 | 0 | 0 | 0 |
| 13367 | 'Diaph1' | 1.9 | 4.57 | 2.5 | 1.51 | 0.58 | 3.59 | 3.28 | 2.36 | 2.12 | 3.62 |
| 13368 | 'Dffb' | 0.27 | 12.25 | 2.47 | 22.1 | 0 | 4.75 | 9.18 | 3.89 | 11.68 | 1.01 |
| 13370 | 'Dio1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 |
| 13371 | 'Dio2' | 0.17 | 0.01 | 0 | 1.42 | 0 | 0 | 0 | 0 | 0 | 0.98 |
| 13382 | 'Dld' | 33.91 | 76.19 | 32.4 | 43.4 | 34.4 | 51.75 | 24.7 | 59.74 | 38.45 | 44.67 |
| 13383 | 'Dlg1' | 11.32 | 12.41 | 18.7 | 17.8 | 8.31 | 4.49 | 10.6 | 7.66 | 9.62 | 13.62 |
| 13384 | 'Mpp3' | 8.59 | 22.41 | 19.7 | 9.66 | 10.7 | 17.11 | 31.2 | 18.07 | 34.88 | 43.8 |
| 13385 | 'Dlg4' | 14.51 | 9.38 | 6.88 | 5.36 | 16 | 10.58 | 3.9 | 10.72 | 25.36 | 21.82 |
| 13386 | 'Dlk1' | 20.92 | 18.49 | 0.33 | 6.22 | 30.6 | 29.39 | 8.24 | 12.46 | 18.49 | 51.22 |
| 13388 | 'Dil1' | 3.97 | 2.05 | 10.5 | 3.59 | 0 | 0.45 | 7.21 | 0 | 6.07 | 4.72 |
| 13389 | 'Dil3' | 0.33 | 1.46 | 4.71 | 0 | 0 | 1.29 | 5.83 | 2.44 | 1.01 | 4.31 |
| 13390 | 'Dlx1' | 46.03 | 20.55 | 20.3 | 31.5 | 0.95 | 4.18 | 6.09 | 39.83 | 15.26 | 1.85 |
| 13392 | 'Dlx2' | 19.95 | 7.29 | 8.21 | 5.13 | 0.02 | 0.11 | 0.5 | 3.85 | 4.02 | 0 |
| 13393 | 'Dlx3' | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 |
| 13394 | 'Dlx4' | 0 | 0 | 0 | 0 | 2.09 | 0 | 0 | 0 | 0 | 0.16 |
| 13395 | 'Dlx5' | 15.76 | 13.57 | 6.06 | 7.56 | 53.3 | 18.89 | 0.13 | 20.23 | 23.87 | 0 |
| 13396 | 'Dlx6' | 17.79 | 9.66 | 9.26 | 7.93 | 16.3 | 12.32 | 2.6 | 20 | 14.97 | 0.74 |
| 13400 | 'Dmpk' | 1.23 | 2.53 | 1.83 | 8.5 | 1.54 | 2.65 | 2.03 | 1.03 | 0 | 2.39 |
| 13401 | 'Dmwd' | 17.63 | 8.23 | 10.6 | 10.8 | 8.36 | 13.23 | 10.1 | 8.81 | 2.32 | 10.96 |
| 13405 | 'Dmd' | 6.07 | 11.21 | 3.23 | 11.9 | 12.5 | 21.67 | 11 | 9.39 | 13.18 | 12.16 |
| 13411 | 'Dnah11' | 1.95 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13417 | 'Dnah8' | 0.28 | 1.12 | 0 | 0 | 0 | 0 | 0.23 | 0 | 0 | 0.21 |
| 13418 | 'Dnajc1' | 2.94 | 2.41 | 3.57 | 3.91 | 2.84 | 0.34 | 8.5 | 3.75 | 4.12 | 3.02 |
| 13419 | 'Dnase1' | 0.57 | 0.79 | 0.61 | 0.82 | 1.69 | 0 | 0.52 | 0.26 | 0.1 | 0.58 |
| 13421 | 'Dnase1l3' | 1.36 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.52 |
| 13423 | 'Dnase2a' | 0.46 | 0 | 0 | 0.04 | 0 | 4.49 | 0 | 0 | 0 | 0.05 |
| 13424 | 'Dync1h1' | 7 | 4.86 | 9.17 | 9.07 | 7.82 | 7.1 | 13.2 | 5.12 | 7.26 | 7.91 |
| 13426 | 'Dync1i1' | 167.3 | 143 | 137 | 106 | 106 | 76.72 | 57 | 202.9 | 116.8 | 97.94 |
| 13427 | 'Dync1i2' | 78.73 | 84.13 | 61.6 | 103 | 54.4 | 81.97 | 120 | 84.01 | 97.2 | 101.82 |

| | | | | | | | | | | | |
|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 13429 | 'Dnm1' | 41.35 | 35.97 | 38.5 | 10.2 | 56.2 | 50.83 | 59.3 | 42.15 | 36.76 | 33.77 |
| 13430 | 'Dnm2' | 18.1 | 16.08 | 23.9 | 13.9 | 32.9 | 8.17 | 9.07 | 15.79 | 23.98 | 17.05 |
| 13433 | 'Dnmt1' | 6.85 | 12.65 | 14.6 | 3.93 | 2.53 | 5.15 | 8.15 | 6.12 | 15.93 | 21.21 |
| 13434 | 'Trdmt1' | 0.51 | 2.31 | 0.04 | 6.67 | 5.36 | 0.03 | 0 | 2.51 | 3.47 | 8.65 |
| 13435 | 'Dnmt3a' | 4.68 | 5.32 | 5.92 | 3.85 | 8.94 | 2.26 | 3.11 | 3.65 | 4.37 | 1.36 |
| 13437 | 'Dnpep' | 36.39 | 58.43 | 29 | 21.8 | 72.9 | 60.26 | 39.1 | 72.39 | 69.06 | 66.59 |
| 13445 | 'Cdk2ap1' | 21.66 | 14.96 | 18.5 | 24.8 | 26.5 | 13.26 | 23 | 11.29 | 17.55 | 22.21 |
| 13446 | 'Doc2a' | 19.05 | 14.66 | 6.89 | 11.1 | 13.8 | 11.64 | 18.9 | 12.22 | 7.67 | 4.53 |
| 13447 | 'Doc2b' | 1.4 | 2.59 | 1.16 | 7.42 | 2.63 | 1.61 | 0.98 | 0.61 | 1.33 | 0.74 |
| 13449 | 'Dok2' | 0.05 | 0 | 0.04 | 0.06 | 1.79 | 0 | 0.2 | 1.12 | 0 | 0 |
| 13476 | 'Reep5' | 239.5 | 199.6 | 180 | 163 | 204 | 204.7 | 236 | 148.9 | 154.8 | 218.96 |
| 13478 | 'Dpagt1' | 11.15 | 21.53 | 22.3 | 0.5 | 25.6 | 6.69 | 16.6 | 9.97 | 15.46 | 20.75 |
| 13480 | 'Dpm1' | 28.73 | 28.5 | 22 | 50.8 | 32.7 | 28.12 | 35.3 | 30.32 | 40.79 | 37.29 |
| 13481 | 'Dpm2' | 88.25 | 125.5 | 50.9 | 126 | 130 | 115.8 | 93.6 | 86.84 | 96.31 | 90.67 |
| 13482 | 'Dpp4' | 0.15 | 0.4 | 0.46 | 0.89 | 0.36 | 1.15 | 0.17 | 0.31 | 0.96 | 0.24 |
| 13483 | 'Dpp6' | 114.7 | 62.54 | 102 | 84.6 | 96.7 | 61.18 | 106 | 106.5 | 88.11 | 124.99 |
| 13486 | 'Dr1' | 7.64 | 2.32 | 10.6 | 10.7 | 8.69 | 4.04 | 2.72 | 10.72 | 6.62 | 4.8 |
| 13488 | 'Drd1' | 0.07 | 0 | 0.01 | 0 | 2.36 | 0 | 0 | 0 | 0 | 4.17 |
| 13489 | 'Drd2' | 3.03 | 0 | 5.18 | 0 | 0 | 0 | 0.02 | 0 | 0.26 | 1.03 |
| 13490 | 'Drd3' | 36.3 | 0 | 64 | 0 | 40.5 | 190.2 | 0 | 114.3 | 154.3 | 267.35 |
| 13492 | 'Drd5' | 0 | 0.76 | 1.6 | 0.77 | 5.84 | 5.69 | 0 | 0 | 8.13 | 2.25 |
| 13494 | 'Drg1' | 183.2 | 133.7 | 142 | 208 | 113 | 131.8 | 147 | 180.4 | 115.5 | 182.09 |
| 13495 | 'Drg2' | 85 | 78.47 | 106 | 152 | 44.3 | 96.98 | 69.1 | 83.73 | 87.76 | 44.8 |
| 13496 | 'Arid3a' | 0.17 | 0.81 | 0.04 | 0 | 0.87 | 0.03 | 0 | 0.68 | 0.15 | 0.07 |
| 13497 | 'Drp2' | 14.2 | 4.8 | 2.25 | 0.01 | 1.45 | 0.34 | 2.09 | 5.58 | 2.75 | 0.95 |
| 13498 | 'Atn1' | 7.99 | 7.19 | 13.8 | 5.98 | 10.7 | 9.13 | 10.8 | 5.8 | 12.64 | 8.47 |
| 13506 | 'Dsc2' | 1.7 | 2.62 | 0.08 | 0 | 0.78 | 0.07 | 0 | 1.94 | 0.01 | 0.01 |
| 13508 | 'Dscam' | 3.04 | 1.41 | 6.26 | 3.1 | 5.72 | 1.43 | 9.15 | 3.82 | 6.36 | 3.3 |
| 13511 | 'Dsg2' | 0 | 0 | 0 | 3.42 | 0.64 | 0 | 0.02 | 0.37 | 0 | 0.01 |
| 13518 | 'Dst' | 5.93 | 3.4 | 7.96 | 8.36 | 6.59 | 5.86 | 8.32 | 3.09 | 8.69 | 7.57 |
| 13521 | 'Slc26a2' | 0.07 | 1.13 | 0 | 3.86 | 0.01 | 0.57 | 0 | 0.61 | 0.02 | 2.72 |
| 13522 | 'Adam28' | 0.27 | 0.21 | 0.46 | 0.76 | 0.31 | 0.26 | 0.25 | 0.21 | 0.31 | 0.24 |
| 13524 | 'Adam18' | 0 | 0 | 0 | 0 | 0 | 0 | 0.91 | 0 | 0 | 0 |
| 13527 | 'Dtna' | 10.82 | 7.51 | 14 | 4.89 | 10.5 | 8.01 | 28.6 | 8.72 | 6.6 | 15.84 |
| 13528 | 'Dtnb' | 12.22 | 13.16 | 16.2 | 4.43 | 14.6 | 10.86 | 20.8 | 5.38 | 21.5 | 13.01 |
| 13531 | 'Usp17la' | 0.08 | 0.05 | 0.02 | 0.19 | 0.12 | 0.05 | 0.11 | 0.03 | 0.03 | 0.06 |
| 13537 | 'Dusp2' | 0 | 0 | 2.64 | 5.94 | 1.2 | 0 | 0 | 0 | 0 | 0 |
| 13542 | 'Dvl1' | 3.49 | 4.15 | 2.28 | 6.61 | 9.85 | 7.47 | 6.94 | 9.43 | 7.61 | 10.33 |
| 13543 | 'Dvl2' | 2.36 | 0.39 | 1.66 | 0.33 | 1.01 | 1.25 | 1.69 | 0.82 | 5.9 | 0.95 |
| 13544 | 'Dvl3' | 4.37 | 5.35 | 6.04 | 7.44 | 3.34 | 6.65 | 11.6 | 3.48 | 6.47 | 0.01 |
| 13548 | 'Dyrk1a' | 8.89 | 10.7 | 7.34 | 12.1 | 8.06 | 3.32 | 8.29 | 7.2 | 7.28 | 7.35 |
| 13549 | 'Dyrk1b' | 2.86 | 1.94 | 3.52 | 0.01 | 1.34 | 0.24 | 2.13 | 2.16 | 0.81 | 7.81 |
| 13555 | 'E2f1' | 0 | 1.26 | 0 | 0 | 0 | 0.02 | 0.07 | 0 | 0 | 0 |
| 13557 | 'E2f3' | 0.02 | 1.36 | 0.31 | 2.64 | 1.53 | 0.77 | 0.78 | 1.48 | 0 | 0.04 |
| 13559 | 'E2f5' | 2.56 | 0.28 | 4.66 | 0.67 | 1.5 | 4.58 | 6.06 | 0.99 | 1.68 | 0.72 |
| 13560 | 'E4f1' | 11.58 | 19.08 | 15.3 | 0.9 | 8.96 | 0.73 | 9.37 | 16.52 | 15.49 | 19.24 |
| 13589 | 'Mapre1' | 17.46 | 20.59 | 16.1 | 25.6 | 23.2 | 10.44 | 22.2 | 16.78 | 20.98 | 20.37 |
| 13590 | 'Lefty1' | 0 | 2.48 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13591 | 'Ebf1' | 0.02 | 31.04 | 1.76 | 3.82 | 2.15 | 0 | 7.83 | 0 | 2 | 0 |
| 13592 | 'Ebf2' | 0 | 2.05 | 0.77 | 0 | 0.58 | 0 | 0.01 | 0.33 | 2.79 | 1.22 |
| 13593 | 'Ebf3' | 0 | 0 | 0 | 0 | 0.97 | 0.87 | 0 | 0 | 0 | 0 |
| 13595 | 'Ebp' | 15.68 | 17.92 | 5.5 | 0.03 | 22.7 | 27.02 | 16.2 | 24.96 | 37.96 | 16.91 |
| 13599 | 'Ecel1' | 366.7 | 166.3 | 178 | 45.2 | 104 | 52.98 | 144 | 281.6 | 78.75 | 72.52 |
| 13601 | 'Ecm1' | 0 | 3.25 | 0 | 0 | 0 | 5.46 | 0 | 0.02 | 2.45 | 0 |
| 13602 | 'Sparcl1' | 290.6 | 222.5 | 170 | 219 | 138 | 220.9 | 236 | 144.7 | 207.5 | 145.11 |
| 13603 | 'Opn3' | 5.16 | 3.87 | 0.07 | 28.1 | 2.29 | 0.03 | 0.09 | 0.56 | 6.26 | 2.08 |
| 13605 | 'Ect2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.46 | 0 | 0 |
| 13607 | 'Eda' | 0.71 | 0.07 | 0 | 0.03 | 0 | 0.01 | 0 | 0.12 | 0.74 | 0.78 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 13608 | 'Edar' | 2.35 | 0 | 0 | 1.22 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13609 | 'S1pr1' | 28.64 | 21.3 | 2.59 | 24.2 | 6.96 | 22.28 | 10.1 | 15.87 | 40.7 | 0.93 |
| 13610 | 'S1pr3' | 2.26 | 2.74 | 0 | 0.09 | 2.19 | 0 | 0.01 | 1.61 | 5.25 | 0 |
| 13611 | 'S1pr4' | 0 | 0.3 | 1.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13612 | 'Edil3' | 21.46 | 15.05 | 56.9 | 28.6 | 28.8 | 7.17 | 19.8 | 20.76 | 73.6 | 56.54 |
| 13616 | 'Edn3' | 0 | 0 | 0 | 0.02 | 1.36 | 0 | 0 | 0 | 0 | 1.68 |
| 13617 | 'Ednra' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13618 | 'Ednrb' | 38.72 | 21.55 | 11.7 | 27.3 | 2.02 | 9.54 | 15.1 | 15.49 | 20.4 | 4.2 |
| 13619 | 'Phc1' | 4.57 | 2.32 | 4.79 | 9.88 | 1.34 | 0.01 | 3.51 | 1.8 | 0.57 | 6.96 |
| 13626 | 'Eed' | 3.4 | 2.16 | 3.6 | 20.2 | 0 | 7.51 | 3.21 | 2.01 | 3.08 | 1.24 |
| 13627 | 'Eef1a1' | 645.6 | 840.5 | 714 | 819 | 563 | 644.5 | 671 | 475.1 | 359.4 | 430.89 |
| 13628 | 'Eef1a2' | 10.04 | 3.81 | 4.38 | 0.14 | 4.05 | 3.42 | 5.09 | 6.76 | 7.07 | 3.19 |
| 13629 | 'Eef2' | 72.9 | 76.94 | 81.1 | 79.7 | 91 | 76 | 65.4 | 65.98 | 63.3 | 75.96 |
| 13631 | 'Eef2k' | 3.59 | 3.58 | 8.66 | 4.36 | 4.36 | 9.28 | 6.02 | 4.17 | 5.43 | 2.51 |
| 13636 | 'Efna1' | 0 | 2.63 | 2.99 | 0 | 0 | 10.81 | 0 | 3.56 | 0 | 0 |
| 13637 | 'Efna2' | 4.15 | 1.04 | 0.09 | 1.39 | 2.45 | 0 | 0 | 2.82 | 3.32 | 0.82 |
| 13638 | 'Efna3' | 14.47 | 3.95 | 14.9 | 11.3 | 15.8 | 7.39 | 5.03 | 3.5 | 15.43 | 3.64 |
| 13639 | 'Efna4' | 0 | 0 | 1.92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13640 | 'Efna5' | 41.49 | 47.47 | 29.8 | 57.3 | 14.5 | 11.25 | 30.2 | 25.98 | 22.8 | 27.59 |
| 13641 | 'Efnb1' | 1.24 | 0.31 | 2.59 | 0.23 | 2.26 | 0.55 | 0.47 | 2.79 | 2.92 | 1.43 |
| 13642 | 'Efnb2' | 0.66 | 1.96 | 0.7 | 1.09 | 1.48 | 2.55 | 1.47 | 2.77 | 0 | 0.94 |
| 13643 | 'Efnb3' | 64.05 | 88.45 | 96.9 | 33.2 | 88.2 | 67.82 | 91.4 | 45.34 | 87.53 | 51.58 |
| 13644 | 'Efs' | 3.55 | 3.23 | 4.65 | 0 | 0 | 0 | 2.75 | 2.35 | 0.4 | 2.47 |
| 13645 | 'Egf' | 0 | 1.96 | 0 | 10.4 | 1.96 | 0 | 0 | 1.34 | 0 | 0 |
| 13649 | 'Egfr' | 0 | 0 | 0 | 0.34 | 0.04 | 4.68 | 0 | 0 | 0.11 | 0 |
| 13650 | 'Rhdbdf1' | 2.23 | 0.58 | 1.44 | 0 | 1.47 | 5.15 | 3.79 | 0 | 0.13 | 0.76 |
| 13653 | 'Egr1' | 111 | 232.8 | 223 | 292 | 38.5 | 452.9 | 194 | 94 | 28.15 | 190.09 |
| 13654 | 'Egr2' | 4.81 | 3.69 | 2.22 | 19.7 | 0.21 | 2.39 | 0.02 | 0 | 0 | 0.2 |
| 13655 | 'Egr3' | 0 | 2.36 | 0 | 3.54 | 0 | 0 | 0 | 1.17 | 0.04 | 0.02 |
| 13656 | 'Egr4' | 0 | 1.33 | 1.05 | 20.1 | 0 | 2.98 | 5.91 | 0 | 0 | 0.79 |
| 13660 | 'Ehd1' | 13.79 | 9.67 | 2.89 | 0.02 | 8.04 | 14.28 | 1.63 | 8.53 | 9.97 | 4.64 |
| 13663 | 'Ei24' | 7.45 | 16.39 | 6.77 | 11.6 | 16.4 | 11.38 | 3.42 | 11.81 | 28.67 | 8.58 |
| 13664 | 'Eif1a' | 49.96 | 59.53 | 59.7 | 98 | 42.9 | 35.74 | 64 | 58.26 | 74.77 | 46.94 |
| 13665 | 'Eif2s1' | 33.26 | 33.95 | 17.3 | 33 | 22.6 | 32.31 | 21.5 | 31.54 | 28.47 | 27.05 |
| 13666 | 'Eif2ak3' | 2.2 | 0.4 | 2.87 | 4.62 | 3.06 | 0.06 | 0 | 0.01 | 0 | 0.85 |
| 13667 | 'Eif2b4' | 34.19 | 14.91 | 32 | 21.7 | 39.8 | 28.84 | 36.9 | 35.02 | 36.66 | 32.5 |
| 13669 | 'Eif3a' | 32.04 | 22.53 | 17.4 | 23.5 | 29.6 | 20.75 | 21.1 | 17.37 | 17.62 | 22.88 |
| 13680 | 'Ddx19a' | 1.05 | 3.65 | 2.32 | 0.02 | 0.76 | 0.68 | 2.52 | 1.67 | 2.6 | 5.09 |
| 13681 | 'Eif4a1' | 352.7 | 379.9 | 234 | 263 | 268 | 333.5 | 377 | 396.9 | 279.6 | 374.79 |
| 13682 | 'Eif4a2' | 319.7 | 372.8 | 310 | 383 | 255 | 264.9 | 321 | 261.2 | 220.1 | 236 |
| 13684 | 'Eif4e' | 190.9 | 256.6 | 145 | 175 | 166 | 194.7 | 141 | 219.2 | 181.7 | 243.43 |
| 13685 | 'Eif4ebp1' | 0.65 | 0 | 0.1 | 0 | 5.36 | 5.78 | 0.16 | 0 | 0.05 | 0 |
| 13688 | 'Eif4ebp2' | 6.53 | 8.6 | 1.39 | 2.05 | 4.02 | 0.03 | 1.14 | 0.79 | 2.41 | 8.09 |
| 13690 | 'Eif4g2' | 40.04 | 25.59 | 36.3 | 35.6 | 35.7 | 13.45 | 29.7 | 32.81 | 53.31 | 58.85 |
| 13706 | 'Cela2a' | 0 | 0.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13709 | 'Elf1' | 0 | 0.27 | 0.09 | 1.1 | 0.1 | 3.46 | 0.07 | 0.67 | 0.31 | 0.03 |
| 13710 | 'Elf3' | 0 | 0 | 0.19 | 3.39 | 2.07 | 0 | 0 | 0 | 0 | 0 |
| 13712 | 'Elk1' | 4.97 | 3.49 | 5.03 | 8.39 | 3.28 | 6.03 | 16 | 9.02 | 2.97 | 5.47 |
| 13713 | 'Elk3' | 1.02 | 3.52 | 1.02 | 1.32 | 0.95 | 0.3 | 3.15 | 1.77 | 0 | 1.54 |
| 13714 | 'Elk4' | 1.45 | 3.51 | 1.23 | 2.66 | 0.71 | 5.07 | 0.28 | 0.56 | 2.78 | 0 |
| 13716 | 'Eli' | 1.36 | 8.34 | 4.61 | 15.4 | 10.8 | 1.49 | 5.65 | 6.55 | 8.35 | 3.88 |
| 13717 | 'Eln' | 0 | 1.08 | 1.83 | 0 | 0.98 | 0 | 3.81 | 0.97 | 0 | 0.22 |
| 13722 | 'Aimp1' | 46.37 | 52.16 | 36.1 | 41.3 | 35.8 | 13.74 | 44.4 | 51.93 | 31.52 | 35.88 |
| 13723 | 'Emb' | 77.99 | 70.72 | 25.6 | 70.3 | 53.4 | 70.24 | 55.6 | 34.24 | 96.47 | 101.25 |
| 13726 | 'Emd' | 38.54 | 40.04 | 60.6 | 38.3 | 52.9 | 45.67 | 60.8 | 54.14 | 42.39 | 78.35 |
| 13728 | 'Mark2' | 11.71 | 10.26 | 7.03 | 8.89 | 13.7 | 5.56 | 10.8 | 10.09 | 7.37 | 11.08 |
| 13730 | 'Emp1' | 0 | 0 | 0.04 | 1.56 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13731 | 'Emp2' | 0.72 | 0.8 | 2.59 | 0 | 3.21 | 2.24 | 0 | 0 | 3.66 | 5.41 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 13732 | 'Emp3' | 0 | 0.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13733 | 'Adgre1' | 0 | 2.84 | 0.25 | 0 | 4.56 | 2.78 | 0 | 0 | 0.71 | 0 |
| 13796 | 'Emx1' | 0 | 0 | 0 | 0 | 6.88 | 10.14 | 0 | 0 | 0 | 2.28 |
| 13797 | 'Emx2' | 0 | 0 | 0 | 0 | 0 | 3.04 | 0 | 0 | 11.93 | 3.61 |
| 13800 | 'Enah' | 9.7 | 3.76 | 7.33 | 12.9 | 6.63 | 4.1 | 5.65 | 7.05 | 1.1 | 3.09 |
| 13803 | 'Enc1' | 46.94 | 44 | 19.8 | 4.73 | 39.4 | 15.51 | 67.5 | 41.29 | 23.83 | 16.62 |
| 13804 | 'Endog' | 7.76 | 6.76 | 9.77 | 9.86 | 12.9 | 12.41 | 0 | 4.23 | 11.87 | 4.82 |
| 13805 | 'Eng' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.86 |
| 13806 | 'Eno1' | 1030 | 928.3 | 1000 | 851 | 876 | 1503 | 1320 | 1291 | 1390 | 1215.65 |
| 13807 | 'Eno2' | 243.5 | 243.3 | 335 | 137 | 261 | 221.2 | 248 | 253.1 | 150.3 | 239.73 |
| 13808 | 'Eno3' | 8.23 | 7.01 | 8.47 | 18.7 | 10.3 | 9.08 | 6.97 | 6.76 | 1.65 | 11.63 |
| 13813 | 'Eomes' | 0 | 0.9 | 10.9 | 6.62 | 0 | 0 | 2.82 | 2.33 | 0.01 | 0 |
| 13819 | 'Epas1' | 0.85 | 2.01 | 8.9 | 4.98 | 0.45 | 4.23 | 4.54 | 1.58 | 2.59 | 1.92 |
| 13821 | 'Epb4111' | 15.72 | 12.59 | 12.2 | 18.8 | 19.9 | 6.04 | 18 | 15.93 | 8.12 | 12.52 |
| 13822 | 'Epb4112' | 6.91 | 4.71 | 5.85 | 10.1 | 2.77 | 13.11 | 5.47 | 1.74 | 5.72 | 4.68 |
| 13823 | 'Epb4113' | 41.31 | 50.59 | 48.6 | 24.6 | 43.7 | 31.4 | 40.2 | 57.78 | 28.75 | 46.91 |
| 13824 | 'Epb4114a' | 3.57 | 8.35 | 5.1 | 0 | 3.95 | 0.03 | 1.23 | 7.19 | 1.39 | 8.18 |
| 13829 | 'Dmtn' | 218.3 | 283 | 156 | 119 | 194 | 213.5 | 192 | 257.2 | 240 | 252.08 |
| 13830 | 'Stom' | 0 | 0 | 0 | 4.05 | 0.4 | 0 | 2.52 | 1.93 | 0 | 0 |
| 13831 | 'Epc1' | 7.71 | 15.48 | 5.62 | 37 | 8.13 | 15.18 | 2.81 | 7.58 | 10.62 | 6.15 |
| 13835 | 'Epha1' | 0 | 0 | 0.05 | 0.31 | 0.15 | 0.11 | 0 | 0 | 0 | 0 |
| 13837 | 'Epha3' | 0 | 1.06 | 0.42 | 0 | 0 | 0 | 0 | 0.06 | 0 | 1.92 |
| 13838 | 'Epha4' | 3.97 | 3.28 | 1.4 | 3.07 | 2.26 | 1.29 | 1.13 | 5.57 | 2.67 | 2.06 |
| 13839 | 'Epha5' | 9.56 | 13.21 | 5.43 | 6.44 | 3.94 | 11.91 | 14 | 12.24 | 16.39 | 4.18 |
| 13840 | 'Epha6' | 2.99 | 4.89 | 7.49 | 0.6 | 3.63 | 1.43 | 14.3 | 3.05 | 1.13 | 1.18 |
| 13841 | 'Epha7' | 2.96 | 2.49 | 1.89 | 0 | 7.95 | 2.79 | 11.5 | 4.98 | 16.98 | 4.91 |
| 13842 | 'Epha8' | 0.05 | 0 | 0 | 0 | 1.58 | 1.14 | 0 | 0 | 0 | 0 |
| 13844 | 'Ephb2' | 0 | 0.02 | 0.02 | 0 | 0.54 | 0 | 0.65 | 0.77 | 0 | 0.72 |
| 13845 | 'Ephb3' | 1.69 | 0 | 0.02 | 0 | 0.47 | 0.09 | 2.81 | 0 | 0 | 0 |
| 13846 | 'Ephb4' | 0 | 0 | 0 | 1.51 | 0 | 0 | 0 | 0 | 1.5 | 0 |
| 13848 | 'Ephb6' | 4 | 5.01 | 11 | 0 | 13.5 | 8.79 | 19.4 | 5.69 | 26.84 | 6.11 |
| 13849 | 'Ephx1' | 25.54 | 2.89 | 5.76 | 0.17 | 0.94 | 15.4 | 2.4 | 15.9 | 4.05 | 18.83 |
| 13850 | 'Ephx2' | 3.57 | 3.71 | 5.39 | 11.8 | 7.6 | 5.27 | 5.66 | 2.12 | 0.02 | 0.56 |
| 13852 | 'Stx2' | 0.76 | 7.33 | 8.37 | 9.45 | 6.64 | 1.6 | 1.2 | 1.65 | 0.65 | 8.4 |
| 13853 | 'Epm2a' | 0.97 | 0 | 0 | 0 | 0.05 | 0 | 0 | 1.57 | 0 | 0 |
| 13854 | 'Epn1' | 3.45 | 5.11 | 11.9 | 0.18 | 4.04 | 3.98 | 6.14 | 3.64 | 6.13 | 3.46 |
| 13855 | 'Epn2' | 15.03 | 8.02 | 20.3 | 14.2 | 9.48 | 11.93 | 32.2 | 16.24 | 12.74 | 3.87 |
| 13857 | 'Epor' | 1.82 | 0 | 3.57 | 0 | 0 | 3.33 | 0 | 2.35 | 0 | 0 |
| 13858 | 'Eps15' | 15.25 | 24.16 | 12.5 | 8.48 | 11 | 10.46 | 14.1 | 15.49 | 13.43 | 15.14 |
| 13859 | 'Eps15l1' | 14.41 | 26.25 | 19.3 | 7.41 | 15 | 19.76 | 33.1 | 35.46 | 28.59 | 29.44 |
| 13860 | 'Eps8' | 4.69 | 6.87 | 5.67 | 3.44 | 2.4 | 4.82 | 5.89 | 3.04 | 3.52 | 0.04 |
| 13861 | 'Epx' | 0 | 2.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13864 | 'Nr2f6' | 8.81 | 2.47 | 1.24 | 7.75 | 5.38 | 2.9 | 10.8 | 0.53 | 1.13 | 2.94 |
| 13865 | 'Nr2f1' | 1.8 | 6.5 | 0.79 | 3.57 | 1.39 | 0 | 4.05 | 0.05 | 0 | 0 |
| 13866 | 'Erbb2' | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.05 | 2.4 | 0 |
| 13867 | 'Erbb3' | 0.17 | 0 | 0.75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13869 | 'Erbb4' | 2.45 | 0.48 | 1.77 | 0.12 | 1.34 | 1.65 | 0.15 | 0.65 | 1.94 | 0.01 |
| 13870 | 'Ercc1' | 33.8 | 22.54 | 24.5 | 14.3 | 31.7 | 26.5 | 36.5 | 31.58 | 44.75 | 26.77 |
| 13871 | 'Ercc2' | 0.84 | 2.49 | 1.21 | 1.23 | 4.21 | 0.93 | 2.38 | 0.14 | 0.26 | 4.53 |
| 13872 | 'Ercc3' | 12.2 | 6.26 | 9.02 | 13.7 | 9.9 | 14.74 | 13.1 | 12.74 | 15.69 | 8.48 |
| 13875 | 'Erf' | 0 | 0 | 0.66 | 0.1 | 0.31 | 0 | 0 | 0 | 0.08 | 0.02 |
| 13877 | 'Erh' | 305.1 | 287 | 224 | 449 | 201 | 381.5 | 224 | 340.2 | 239.7 | 328.31 |
| 13885 | 'Esd' | 90.21 | 102 | 107 | 79.2 | 73.1 | 162.6 | 88.9 | 95.33 | 109.7 | 119.02 |
| 13924 | 'Ptpv' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.12 | 0 |
| 13929 | 'Amz2' | 15.66 | 19.21 | 11.1 | 0.02 | 8.78 | 24.71 | 15.8 | 6.25 | 13.39 | 15.91 |
| 13972 | 'Gnb1l' | 1.12 | 1.89 | 4.7 | 0.02 | 7.29 | 0 | 9.25 | 5.47 | 3.01 | 0 |
| 13982 | 'Esr1' | 26.19 | 11.6 | 6.7 | 30.2 | 2.73 | 1.65 | 4.89 | 20.49 | 0.02 | 2.95 |
| 13983 | 'Esr2' | 2.38 | 0.11 | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 2.67 | 0 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 13990 | 'Smarcad1' | 5.45 | 0.59 | 3.44 | 6.81 | 1.61 | 5.79 | 3.75 | 1.67 | 1.96 | 2.39 |
| 13992 | 'Khdrbs3' | 27.51 | 11.36 | 9.61 | 36.3 | 7.54 | 4.72 | 15.5 | 11.44 | 16.34 | 15.27 |
| 13998 | 'Fgd6' | 0.11 | 0.04 | 0 | 0 | 0 | 0 | 0.46 | 0.6 | 0 | 0 |
| 13999 | 'Gm14288' | 38.81 | 65.13 | 46.9 | 56.4 | 56 | 62.04 | 40.9 | 34.67 | 37.05 | 39.55 |
| 14000 | 'Droscha' | 9.17 | 15.3 | 15.4 | 20.5 | 13.6 | 4.06 | 17.7 | 15.61 | 20.86 | 27.51 |
| 14004 | 'Chchd2' | 1103 | 967.8 | 911 | 798 | 1117 | 1563 | 1008 | 924.7 | 1014 | 1117.67 |
| 14007 | 'Celf2' | 8.67 | 8.82 | 4.56 | 14.1 | 11.8 | 11.67 | 14.3 | 8.66 | 3.51 | 4.9 |
| 14009 | 'Etv1' | 11.23 | 5.85 | 9.51 | 1.03 | 12.7 | 37.56 | 4.77 | 2.89 | 25.8 | 61.93 |
| 14011 | 'Etv6' | 1.81 | 0.67 | 0.93 | 0.23 | 0.57 | 0 | 0 | 0.19 | 0.86 | 1.69 |
| 14013 | 'Mecom' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14017 | 'Evi2a' | 5.28 | 16.78 | 14.5 | 0.59 | 21.8 | 34.48 | 19.3 | 3.29 | 3.61 | 5.62 |
| 14020 | 'Evi5' | 6.2 | 1.65 | 5.61 | 15.4 | 7.12 | 6.67 | 7.3 | 4.08 | 5.84 | 3.58 |
| 14025 | 'Bcl11a' | 5.9 | 6.39 | 26.7 | 12.4 | 16.5 | 4.51 | 0 | 16.17 | 11.86 | 3.13 |
| 14026 | 'Evl' | 9.69 | 10.32 | 13.3 | 23 | 13.4 | 8.38 | 8.82 | 7.72 | 14.3 | 4.21 |
| 14027 | 'Evpl' | 3.92 | 3.18 | 1.01 | 4.42 | 0.1 | 2.31 | 0.57 | 0.86 | 0.28 | 3.19 |
| 14030 | 'Ewsr1' | 160.1 | 204.4 | 151 | 180 | 193 | 172.8 | 124 | 230.6 | 249.6 | 199.13 |
| 14038 | 'Wfdc18' | 0 | 3.68 | 0 | 0 | 1.69 | 3 | 0 | 2.85 | 0 | 0 |
| 14042 | 'Ext1' | 0.2 | 0.78 | 3.25 | 4.17 | 5.58 | 2.55 | 1.5 | 0.7 | 1.98 | 2.37 |
| 14043 | 'Ext2' | 32.51 | 39.33 | 29 | 23.5 | 12.8 | 10.1 | 51.2 | 13.7 | 50 | 19.97 |
| 140476 | 'Strc' | 0 | 0 | 0 | 0 | 0 | 0 | 0.48 | 0 | 0.07 | 0 |
| 140477 | 'Dmbx1' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 14048 | 'Eya1' | 1.47 | 0.13 | 4.18 | 8.97 | 0 | 0 | 8.16 | 0.18 | 0 | 1.79 |
| 140481 | 'Man2a2' | 9.87 | 3.57 | 3.24 | 21.6 | 13.3 | 9.29 | 3.08 | 5.69 | 12.46 | 2.47 |
| 140482 | 'Zfp358' | 6.67 | 2.36 | 13.5 | 6.88 | 10.5 | 12.12 | 10.3 | 6.11 | 15.02 | 17.14 |
| 140483 | 'Hnmt' | 39.74 | 21.07 | 22.9 | 1.65 | 20.1 | 59.94 | 29.5 | 23.58 | 41.45 | 23.3 |
| 140484 | 'Pofut1' | 0.45 | 2.45 | 0.67 | 1.16 | 1.34 | 2.8 | 0.49 | 0.69 | 1.72 | 1.29 |
| 140488 | 'Igf2bp3' | 0.12 | 0.08 | 0.18 | 0.37 | 0.2 | 0.55 | 0 | 0.08 | 0 | 0.26 |
| 140489 | 'Bhlhe23' | 0 | 1.42 | 0 | 0.02 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 14049 | 'Eya2' | 0 | 0 | 0 | 0 | 0.72 | 0.02 | 0 | 0 | 0 | 0 |
| 140491 | 'Ppp1r3a' | 0.01 | 0 | 0.03 | 0.01 | 0 | 0 | 0.01 | 0 | 0.01 | 0.01 |
| 140492 | 'Kcnn2' | 3.4 | 2.46 | 11.9 | 0.03 | 8.01 | 13.21 | 13 | 1.5 | 1.46 | 1.44 |
| 140493 | 'Kcnn3' | 3.08 | 0.91 | 4.46 | 3.47 | 1.42 | 2.87 | 4.31 | 0.74 | 0.36 | 1.1 |
| 140494 | 'Atp6v0a4' | 0 | 1.02 | 0 | 0 | 0 | 1.75 | 0 | 0.64 | 0 | 0 |
| 140497 | 'Cd300c2' | 0 | 0 | 0.04 | 0 | 0 | 13.93 | 0 | 0 | 0 | 0 |
| 140498 | 'Rxfp2' | 1.97 | 0 | 0.03 | 0 | 0 | 4.46 | 0 | 0 | 0 | 1.77 |
| 140499 | 'Ube2j2' | 11.06 | 9 | 8.52 | 9.99 | 7.61 | 5.92 | 7.47 | 9.94 | 15.32 | 8.12 |
| 14050 | 'Eya3' | 2.22 | 5.65 | 2.52 | 0 | 0.86 | 0.02 | 5.98 | 1.87 | 0 | 1.02 |
| 140500 | 'Acap3' | 9.34 | 5.08 | 16.5 | 5.21 | 9.25 | 9.01 | 7.46 | 15.51 | 16.66 | 6.07 |
| 14051 | 'Eya4' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 140546 | 'Eri3' | 163.7 | 183.5 | 165 | 345 | 198 | 187.3 | 111 | 216.4 | 227.2 | 162.75 |
| 14055 | 'Ezh1' | 15.96 | 16.26 | 18 | 10.2 | 10.7 | 17.68 | 25.5 | 15.16 | 26.29 | 19.24 |
| 140557 | 'Smc1b' | 0.76 | 0 | 0 | 0.03 | 0 | 0 | 0.04 | 0 | 0 | 0.28 |
| 140559 | 'Igsf8' | 64.96 | 72.83 | 103 | 38.6 | 135 | 51.98 | 133 | 107.8 | 128.8 | 81.66 |
| 14056 | 'Ezh2' | 0 | 0 | 0 | 0 | 2.27 | 0.11 | 0 | 0 | 0 | 0 |
| 14057 | 'Sfxn1' | 76.44 | 78.71 | 53.7 | 64.3 | 83.3 | 101.7 | 57.1 | 70.8 | 49.95 | 80.41 |
| 140570 | 'Plxnb2' | 2.28 | 3.91 | 8.17 | 8.47 | 4.25 | 2.08 | 5.5 | 1.96 | 7.21 | 5.91 |
| 140571 | 'Plxnb3' | 2.44 | 0 | 4.01 | 0.09 | 0 | 0.16 | 0.04 | 0 | 0 | 0 |
| 140577 | 'Ankrd6' | 14.99 | 11.23 | 11.4 | 23.8 | 15.1 | 12.99 | 24.9 | 18.05 | 13.25 | 18.57 |
| 140579 | 'Elmo2' | 24.76 | 51.15 | 22.7 | 22.1 | 41 | 26.41 | 40.7 | 55.1 | 54.77 | 29.43 |
| 14058 | 'F10' | 0 | 0 | 0 | 0 | 0.02 | 0.02 | 0 | 0 | 0 | 1.47 |
| 140580 | 'Elmo1' | 51.91 | 31.72 | 61.6 | 36.4 | 50.5 | 31.46 | 20.6 | 40 | 67.41 | 25.78 |
| 14061 | 'F2' | 0 | 0 | 0 | 0.39 | 0 | 0 | 0 | 0.1 | 0.5 | 0.13 |
| 14062 | 'F2r' | 7.19 | 10.62 | 14.8 | 0 | 0 | 0.55 | 4.28 | 7.74 | 5.52 | 3.91 |
| 140629 | 'Ubox5' | 1.43 | 0 | 3.6 | 6.5 | 5.12 | 0 | 4.89 | 3.67 | 3.55 | 1.74 |
| 14063 | 'F2rl1' | 0 | 0 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140630 | 'Ube4a' | 3.34 | 2.12 | 3.39 | 4.97 | 2.66 | 0.34 | 8.45 | 0.87 | 3.74 | 3.37 |
| 14064 | 'F2rl2' | 12.18 | 3.26 | 1.88 | 0 | 0 | 3.43 | 0 | 0 | 0.05 | 6.42 |
| 14065 | 'F2rl3' | 0 | 1.15 | 0 | 0 | 0 | 2.45 | 0 | 0 | 2.25 | 2.3 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 14066 | 'F3' | 41.03 | 36.53 | 16.9 | 61.6 | 7.67 | 38.31 | 16.2 | 24.62 | 49.85 | 3.17 |
| 14069 | 'F8' | 0.45 | 0 | 0.43 | 0 | 0 | 0.04 | 0 | 0.82 | 1.13 | 0.81 |
| 14070 | 'F8a' | 14.57 | 29.05 | 33.7 | 46.4 | 16.7 | 23.18 | 36.5 | 24.69 | 18.73 | 17.15 |
| 140703 | 'Emid1' | 0 | 4.2 | 4.35 | 0 | 0 | 0 | 8.38 | 3.93 | 4.64 | 0 |
| 140709 | 'Col26a1' | 0 | 0.29 | 0.74 | 0 | 0.8 | 0.02 | 0.07 | 0 | 0 | 0.05 |
| 140721 | 'Caskin2' | 0.06 | 0.01 | 3.92 | 0 | 0.11 | 0.01 | 2.85 | 1.38 | 0.88 | 0.24 |
| 140723 | 'Cacng5' | 31.24 | 2.04 | 27.8 | 10.4 | 15.7 | 20.65 | 2.95 | 12.23 | 69.11 | 109.68 |
| 14073 | 'Faah' | 25.88 | 15.8 | 23.6 | 13.9 | 8.97 | 4.25 | 11.9 | 10.24 | 15.23 | 19.04 |
| 140740 | 'Sec63' | 3.21 | 0.41 | 1.58 | 2.14 | 3.84 | 2.97 | 5.66 | 0.45 | 1.74 | 3.14 |
| 140741 | 'Gpr6' | 25.67 | 3.77 | 3.23 | 29.6 | 0 | 10.24 | 0.02 | 12.55 | 14.06 | 11.35 |
| 140742 | 'Sesn1' | 30.47 | 22.14 | 19.7 | 20.6 | 23.8 | 14.5 | 13.3 | 24 | 22.82 | 14.01 |
| 140743 | 'Rem2' | 15 | 34.06 | 17.4 | 31.9 | 20.7 | 0.95 | 1.86 | 15.44 | 1.51 | 13.22 |
| 14077 | 'Fabp3' | 252.5 | 156.9 | 186 | 250 | 122 | 252.6 | 152 | 203.2 | 336 | 306.3 |
| 140780 | 'Bmp2k' | 0 | 0.12 | 0.14 | 0 | 0.01 | 1.14 | 0 | 0 | 1.2 | 0 |
| 140781 | 'Myh7' | 4.89 | 8.85 | 4.75 | 8.04 | 3.29 | 4.83 | 9.88 | 2.86 | 2.79 | 5.27 |
| 140792 | 'Colec12' | 2.87 | 4.75 | 4.06 | 11.7 | 4.62 | 2.81 | 3.82 | 2.36 | 5.7 | 4.92 |
| 140795 | 'P2ry14' | 2.05 | 0 | 0.09 | 3.98 | 0.03 | 0 | 0.55 | 0.31 | 2.43 | 0 |
| 140806 | 'Il25' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.06 |
| 14081 | 'Acsl1' | 11.86 | 15.12 | 16.3 | 7.05 | 12.6 | 5.68 | 15.5 | 16.83 | 10.02 | 23.21 |
| 140810 | 'Ttbk2' | 1.81 | 3.21 | 1.91 | 2.07 | 4.87 | 0.36 | 2.09 | 1.61 | 2.97 | 1.92 |
| 14082 | 'Fadd' | 0.67 | 0.07 | 3.13 | 0.14 | 1.76 | 0.93 | 0.04 | 0.28 | 2.21 | 4.23 |
| 14083 | 'Ptk2' | 8.08 | 7.15 | 4.31 | 6.1 | 4.87 | 3.05 | 10.1 | 6.52 | 9.07 | 7.01 |
| 14084 | 'Faf1' | 10.82 | 4.07 | 2.55 | 5.72 | 5.62 | 3.79 | 9.76 | 1.68 | 4.96 | 1.53 |
| 14085 | 'Fah' | 11.44 | 4.32 | 10.1 | 12.6 | 12.9 | 18.74 | 14.8 | 4.12 | 25.37 | 17.86 |
| 140858 | 'Wdr5' | 1.44 | 20.32 | 9.9 | 41.8 | 23.4 | 3.88 | 21 | 9.16 | 4.44 | 6.5 |
| 140859 | 'Nek8' | 0 | 5.76 | 0.14 | 0.57 | 4.37 | 8.72 | 0.73 | 6.32 | 3.54 | 0.02 |
| 14086 | 'Fscn1' | 35.75 | 36.67 | 43.5 | 28.3 | 36 | 26.03 | 40.1 | 38.85 | 37.19 | 43.53 |
| 14087 | 'Fanca' | 0.03 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14088 | 'Fancc' | 4.02 | 5.58 | 7.48 | 6.67 | 8.96 | 0.11 | 6.77 | 0.16 | 5.67 | 9.31 |
| 140887 | 'Lnx2' | 0.81 | 1.32 | 0.29 | 3.02 | 0.93 | 0.01 | 0 | 0.78 | 0.01 | 2.45 |
| 14089 | 'Fap' | 0 | 0 | 0 | 0 | 0 | 0 | 2.91 | 0 | 0 | 0 |
| 140904 | 'Caln1' | 11.95 | 15.21 | 13.8 | 8.6 | 28.5 | 13.72 | 13.9 | 16.79 | 6.9 | 3.69 |
| 140917 | 'Dclre1b' | 3.65 | 1.16 | 1.73 | 6.29 | 0.36 | 1.64 | 4.43 | 1.8 | 6.18 | 1.2 |
| 140919 | 'Slc17a6' | 39.26 | 68.01 | 110 | 104 | 78.4 | 83.55 | 155 | 67.8 | 72.68 | 134.26 |
| 14102 | 'Fas' | 0 | 0 | 0 | 0 | 0 | 0 | 3.1 | 0 | 0.06 | 0 |
| 14104 | 'Fasn' | 6.76 | 8.91 | 11.7 | 10.1 | 10.9 | 10.52 | 9.79 | 6.21 | 12.83 | 10.28 |
| 14105 | 'Srsf10' | 40.01 | 30.63 | 30.7 | 31.7 | 28.1 | 24.3 | 30.2 | 25.32 | 36.74 | 19.85 |
| 14106 | 'Foxh1' | 0.04 | 0.06 | 0.03 | 0.06 | 0.04 | 0.04 | 0.13 | 0.03 | 0 | 0.11 |
| 14107 | 'Fat1' | 0.88 | 1.16 | 0.76 | 0.29 | 0.48 | 0 | 0 | 0.02 | 0.01 | 0.11 |
| 14109 | 'Fau' | 486.2 | 450.8 | 698 | 682 | 444 | 569.1 | 514 | 247.6 | 493.5 | 460.07 |
| 14113 | 'Fbl' | 27.27 | 25.81 | 31.6 | 57.5 | 30.7 | 15.09 | 28.6 | 13.86 | 42.11 | 39.18 |
| 14114 | 'Fbln1' | 6.69 | 1.33 | 0.02 | 0 | 1.03 | 0 | 12.7 | 2.72 | 2.43 | 0.65 |
| 14115 | 'Fbln2' | 0 | 0.58 | 0.01 | 3.42 | 0 | 0 | 7.06 | 0.76 | 0 | 0 |
| 14118 | 'Fbn1' | 0 | 0 | 0 | 0.07 | 0.27 | 0.16 | 0 | 0.03 | 0 | 0 |
| 14119 | 'Fbn2' | 2.16 | 1.41 | 1.14 | 0 | 1.38 | 0 | 0.01 | 0.03 | 0.14 | 0 |
| 14120 | 'Fbp2' | 0 | 0 | 0.11 | 0.09 | 0 | 0.04 | 0 | 0 | 0.03 | 0 |
| 14121 | 'Fbp1' | 0 | 0 | 6.3 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 |
| 14123 | 'Fbrs' | 6.72 | 8.43 | 8.6 | 9.71 | 0.59 | 3.66 | 6.06 | 1.07 | 2.84 | 2.7 |
| 14127 | 'Fcer1g' | 18.63 | 16.77 | 10.5 | 47.9 | 15.7 | 176.3 | 28.6 | 7.3 | 11.6 | 17.04 |
| 14128 | 'Fcer2a' | 0.01 | 0.36 | 0.12 | 0.88 | 0.01 | 0.69 | 0.05 | 0 | 0 | 0.18 |
| 14129 | 'Fcgr1' | 0 | 0 | 0 | 0 | 0 | 6.74 | 0 | 1.46 | 0 | 0.74 |
| 14130 | 'Fcgr2b' | 0 | 0 | 0 | 0 | 6.73 | 0 | 0 | 0 | 0 | 0.06 |
| 14131 | 'Fcgr3' | 13.59 | 2.67 | 3.87 | 18.9 | 3.91 | 100.8 | 6.74 | 2.78 | 0 | 3.37 |
| 14132 | 'Fcgrt' | 2.99 | 8.26 | 0.03 | 0 | 0 | 8.55 | 0 | 6.55 | 0 | 0 |
| 14137 | 'Fdft1' | 62.94 | 53.02 | 72.3 | 45.4 | 81.7 | 36.94 | 75.2 | 71.35 | 56.79 | 58.49 |
| 14148 | 'Fdx1' | 13.55 | 14.59 | 22.4 | 16.2 | 26.7 | 23.14 | 22.3 | 10.89 | 8.34 | 7.85 |
| 14149 | 'Fdxr' | 3.38 | 18.35 | 10 | 0 | 7.37 | 16.05 | 4.51 | 6.79 | 5.17 | 12.38 |
| 14151 | 'Fech' | 39.18 | 43.2 | 34.1 | 21.4 | 31 | 24.19 | 13.8 | 32 | 32.6 | 51.3 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 14154 | 'Fem1a' | 1.5 | 5.7 | 4.98 | 10.5 | 1.58 | 0.44 | 0.01 | 3.5 | 2.35 | 2.41 |
| 14155 | 'Fem1b' | 8.89 | 6.84 | 6.59 | 16 | 1.86 | 5.52 | 8.01 | 3.75 | 8.14 | 2.96 |
| 14156 | 'Fen1' | 3.53 | 6.95 | 6.37 | 17.8 | 23.4 | 24.77 | 0.07 | 8.41 | 5.7 | 31.33 |
| 14158 | 'Fer' | 14.65 | 8.07 | 9.3 | 5.43 | 10.9 | 11.27 | 16.6 | 6.15 | 11.79 | 15.59 |
| 14159 | 'Fes' | 0 | 0 | 0.59 | 3.05 | 0.07 | 0 | 1.76 | 0 | 4.5 | 6.07 |
| 14160 | 'Lgr5' | 0.03 | 0.03 | 1.3 | 1.54 | 0.55 | 0.06 | 0.09 | 1.38 | 0.11 | 0.03 |
| 14163 | 'Fgd1' | 0 | 0.63 | 0 | 0.71 | 0.02 | 0.54 | 0 | 1.45 | 0 | 0 |
| 14164 | 'Fgf1' | 3.24 | 12.35 | 14 | 3.77 | 14.7 | 7.02 | 9.14 | 9.12 | 20.42 | 11.38 |
| 14165 | 'Fgf10' | 0.01 | 0.06 | 0 | 0 | 0.35 | 0 | 0 | 0 | 0.47 | 1.58 |
| 14166 | 'Fgf11' | 0.96 | 0 | 0.69 | 0 | 4.28 | 0 | 1.61 | 2.06 | 0 | 0.48 |
| 14167 | 'Fgf12' | 44.6 | 47.94 | 40.2 | 46.8 | 29 | 36.39 | 52 | 49.74 | 31.3 | 32.94 |
| 14168 | 'Fgf13' | 41.1 | 28.87 | 25 | 14.9 | 51.7 | 43.03 | 93.9 | 80.55 | 31.77 | 50.24 |
| 14169 | 'Fgf14' | 12.96 | 10.16 | 18.7 | 17.1 | 24.5 | 12.57 | 7.49 | 13.55 | 6.08 | 16.23 |
| 14170 | 'Fgf15' | 0 | 0 | 0 | 0 | 0 | 0 | 0.33 | 0 | 0 | 0 |
| 14171 | 'Fgf17' | 2.16 | 2.46 | 1.32 | 0 | 14.3 | 26.9 | 1.75 | 0.03 | 21.94 | 33.82 |
| 14172 | 'Fgf18' | 0 | 0 | 0.06 | 0 | 1.19 | 0 | 0.36 | 0 | 0 | 0 |
| 14178 | 'Fgf7' | 0 | 1.05 | 0 | 0 | 0 | 1.07 | 0 | 0 | 0 | 0.98 |
| 14180 | 'Fgf9' | 5.99 | 7.51 | 8.93 | 8.12 | 10.3 | 3.82 | 1.42 | 6.4 | 4.41 | 0.07 |
| 14182 | 'Fgfr1' | 12.28 | 12.3 | 5.57 | 25.7 | 7.78 | 4.77 | 7.87 | 11.25 | 10.73 | 3.34 |
| 14183 | 'Fgfr2' | 1.47 | 0.75 | 3.48 | 0 | 0.34 | 1.77 | 0 | 0.82 | 0.05 | 0 |
| 14184 | 'Fgfr3' | 5.94 | 0.85 | 5.04 | 6.4 | 2.16 | 0.46 | 0 | 3.24 | 7.69 | 0.15 |
| 14187 | 'Akr1b8' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14190 | 'Fgl2' | 0 | 0.91 | 0 | 0 | 0.61 | 0 | 0 | 0 | 0.91 | 0 |
| 14191 | 'Fgr' | 0 | 0.14 | 0 | 0 | 0.68 | 0 | 0 | 0 | 0 | 0 |
| 14194 | 'Fh1' | 96.05 | 95.23 | 84.9 | 60.6 | 89 | 127.8 | 143 | 109.1 | 94.48 | 86.29 |
| 14198 | 'Fhit' | 4.65 | 0 | 14 | 1.05 | 20.3 | 2.01 | 3.65 | 13.1 | 8.06 | 7.88 |
| 14199 | 'Fhl1' | 84.71 | 107.9 | 98.4 | 69.1 | 76.3 | 77.6 | 92.5 | 120 | 59.19 | 62.48 |
| 14200 | 'Fhl2' | 7.48 | 8.46 | 14.5 | 0.41 | 0.55 | 6.85 | 25.8 | 8.35 | 0.43 | 8.87 |
| 14201 | 'Fhl3' | 0 | 0.09 | 0 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 |
| 14202 | 'Fhl4' | 0 | 4.24 | 0 | 0 | 0 | 0.07 | 0 | 1.76 | 0.02 | 0 |
| 14204 | 'Il4i1' | 0 | 2.87 | 3.69 | 2.45 | 1.18 | 0 | 0 | 0.35 | 0.02 | 0 |
| 14205 | 'Vegfd' | 0 | 0 | 0 | 0 | 0 | 4.26 | 0 | 0.23 | 0.28 | 0 |
| 14208 | 'Ppm1g' | 78.06 | 54.16 | 65.1 | 56.6 | 59.8 | 39.36 | 83.2 | 43.79 | 55.73 | 67.05 |
| 14211 | 'Smc2' | 2.74 | 1.98 | 3.01 | 1.28 | 1.29 | 1.05 | 13.2 | 0.87 | 2.65 | 4.92 |
| 14218 | 'Sh3pxd2a' | 0.06 | 0.08 | 1.45 | 0.01 | 0.28 | 0 | 0 | 0.08 | 0 | 0 |
| 14219 | 'Ctgf' | 0 | 0 | 3.45 | 0.71 | 0 | 0 | 0.02 | 0 | 0 | 0.35 |
| 14221 | 'Fjx1' | 0.34 | 0.47 | 0 | 3.44 | 0.73 | 1.22 | 2.09 | 0.02 | 2.18 | 0 |
| 14225 | 'Fkbp1a' | 504.8 | 517.8 | 395 | 441 | 574 | 597.2 | 437 | 671.4 | 397.1 | 439.62 |
| 14226 | 'Fkbp1b' | 33 | 4.37 | 17.6 | 3.67 | 8.81 | 17.62 | 9.27 | 27.63 | 9.99 | 14 |
| 14227 | 'Fkbp2' | 541.3 | 474.6 | 476 | 412 | 538 | 716.8 | 436 | 474.2 | 657.7 | 673.05 |
| 14228 | 'Fkbp4' | 150.8 | 168.3 | 139 | 156 | 134 | 167.3 | 144 | 160.7 | 244.8 | 169.94 |
| 14229 | 'Fkbp5' | 1.27 | 0.59 | 2.4 | 13 | 0.05 | 1.25 | 0.03 | 5.89 | 2.53 | 1.94 |
| 14230 | 'Fkbp10' | 0 | 1.5 | 0.72 | 0.33 | 1.05 | 0 | 0.15 | 0 | 1.13 | 0 |
| 14231 | 'Fkbp7' | 4.54 | 5.69 | 4.45 | 12.6 | 0.08 | 5.53 | 0 | 8.79 | 0 | 2.49 |
| 14232 | 'Fkbp8' | 88.48 | 115.9 | 127 | 115 | 118 | 155 | 127 | 108 | 119.4 | 130.13 |
| 14233 | 'Foxi1' | 0 | 0 | 0 | 0 | 0 | 1.64 | 0 | 0 | 0 | 0 |
| 14234 | 'Foxc2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 14235 | 'Foxm1' | 0.03 | 0.04 | 0.28 | 0 | 0 | 0.01 | 0 | 0.12 | 0 | 0.01 |
| 14236 | 'Foxn2' | 2.08 | 1.08 | 0.94 | 4.41 | 0.71 | 0.56 | 0 | 0.53 | 0.59 | 0.48 |
| 14241 | 'Foxl1' | 0.03 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.01 | 0 |
| 14245 | 'Lpin1' | 11.1 | 10 | 7.67 | 7.47 | 18 | 1.57 | 9.2 | 16.86 | 9.01 | 13.7 |
| 14247 | 'Fli1' | 0 | 0 | 0 | 3.91 | 0 | 0.25 | 0 | 0 | 0 | 0 |
| 14248 | 'Flii' | 23.52 | 14.35 | 23.3 | 13.6 | 14.8 | 11.62 | 18.7 | 12.57 | 31.27 | 27.13 |
| 14251 | 'Flot1' | 92.13 | 112.3 | 125 | 125 | 127 | 137.3 | 140 | 123.7 | 106.6 | 115.16 |
| 14252 | 'Flot2' | 76.64 | 62.9 | 62.6 | 111 | 51.9 | 64.42 | 54.6 | 72.49 | 63.6 | 57.67 |
| 14254 | 'Flt1' | 0 | 0 | 0 | 0 | 0.56 | 0 | 0 | 0 | 0 | 0 |
| 14255 | 'Flt3' | 4.35 | 7.2 | 14.8 | 5.13 | 3.69 | 0.01 | 11 | 5.33 | 2.33 | 0 |
| 14256 | 'Flt3l' | 0 | 7.68 | 0 | 0 | 0 | 4.36 | 0 | 0 | 5.24 | 13.42 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 14260 | 'Fmn1' | 0.36 | 0.46 | 0.9 | 0 | 1.06 | 2 | 0.22 | 0.46 | 1.76 | 0.16 |
| 14261 | 'Fmo1' | 0 | 0.69 | 3.45 | 0 | 0 | 0.06 | 0 | 2.71 | 0.75 | 0 |
| 14263 | 'Fmo5' | 1.87 | 1.16 | 0 | 0 | 1.25 | 0 | 0 | 0 | 0 | 2.13 |
| 14264 | 'Fmod' | 0 | 0 | 0 | 0 | 0 | 0 | 1.93 | 0 | 0 | 0 |
| 14265 | 'Fmr1' | 1.46 | 0.41 | 1.77 | 1.56 | 3.04 | 2.25 | 4.2 | 2.47 | 0.09 | 0.01 |
| 14266 | 'Aff2' | 2.83 | 0.35 | 0.71 | 0.21 | 0.8 | 0.84 | 2.29 | 2.57 | 2 | 1.57 |
| 14268 | 'Fn1' | 0 | 0.04 | 0 | 0 | 1.6 | 0 | 0 | 0 | 0.01 | 0 |
| 142681 | 'Slc34a3' | 0 | 0 | 0 | 0 | 1.97 | 0 | 0 | 0 | 0 | 0 |
| 142682 | 'Zcchc14' | 2.45 | 3.86 | 3.51 | 6.24 | 2.51 | 0.73 | 4.79 | 5.19 | 2.5 | 1.87 |
| 142687 | 'Asb14' | 0 | 0.24 | 0.24 | 0 | 0.03 | 0 | 0.03 | 0 | 0 | 0.21 |
| 142688 | 'Asb13' | 18.36 | 17.35 | 37.3 | 17 | 28.2 | 28.92 | 11.9 | 31.95 | 19.6 | 20.49 |
| 14269 | 'Fnbp1' | 10.96 | 10.93 | 16 | 7.79 | 8.65 | 6.55 | 10.3 | 4.12 | 8.99 | 9.25 |
| 14270 | 'Srgap2' | 5.72 | 4.2 | 4.08 | 6.34 | 2.53 | 6.45 | 4.08 | 5.68 | 2.54 | 9.22 |
| 14272 | 'Fnta' | 14.62 | 15.92 | 17.5 | 44.1 | 2.29 | 17.79 | 8.07 | 37.82 | 31.82 | 7.03 |
| 14281 | 'Fos' | 166.7 | 604.7 | 453 | 1226 | 12.1 | 367.2 | 336 | 82 | 39.46 | 122.88 |
| 14282 | 'Fosb' | 2.45 | 30.72 | 52 | 77.7 | 0.04 | 5.97 | 43.3 | 3.55 | 1.93 | 30.82 |
| 14283 | 'Fosl1' | 0 | 1.22 | 0 | 5.76 | 0.03 | 0 | 1.08 | 0 | 0 | 1.45 |
| 14284 | 'Fosl2' | 0 | 1.16 | 0.5 | 0 | 0.07 | 1.25 | 0 | 0 | 1.35 | 1.2 |
| 14287 | 'Fpgs' | 4.95 | 4.91 | 9.15 | 7.97 | 6.73 | 7.68 | 4.52 | 5.51 | 6.77 | 4.15 |
| 14289 | 'Fpr2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.29 | 0 |
| 14293 | 'Fpr1' | 0.03 | 2.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14296 | 'Frat1' | 43.64 | 49.12 | 27.1 | 34.9 | 47.4 | 48.75 | 67.8 | 52.28 | 23.14 | 37.86 |
| 14297 | 'Fxn' | 30.89 | 27.01 | 19.9 | 51.2 | 24.9 | 14.89 | 1.21 | 16.21 | 42.91 | 16.19 |
| 142980 | 'Tlr3' | 0 | 0.45 | 0 | 0 | 0.12 | 0 | 0 | 1.58 | 0 | 1.15 |
| 14299 | 'Ncs1' | 128.7 | 107.8 | 90.7 | 110 | 98.1 | 139.5 | 92.2 | 127 | 68.83 | 102.01 |
| 14300 | 'Frg1' | 44.71 | 28.93 | 40.8 | 65.5 | 59.6 | 80.5 | 49.2 | 50.82 | 53.81 | 64.16 |
| 14312 | 'Brd2' | 28.02 | 37.97 | 35.1 | 70.7 | 29.3 | 36.17 | 37.5 | 20.25 | 37.8 | 32.69 |
| 14313 | 'Fst' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.06 |
| 14314 | 'Fstl1' | 5.44 | 1.68 | 3.09 | 0 | 5.81 | 2.06 | 6.19 | 7.86 | 2.34 | 4.7 |
| 14317 | 'Ftcd' | 0 | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0.26 | 0 |
| 14319 | 'Fth1' | 1945 | 2060 | 1704 | 2059 | 9095 | 2966 | 2461 | 2095 | 1358 | 1916.33 |
| 14325 | 'Ftl1' | 778.6 | 1024 | 635 | 1795 | 875 | 1294 | 674 | 879.7 | 802.6 | 1075.28 |
| 14339 | 'Aktip' | 124.7 | 130.9 | 137 | 103 | 146 | 129.5 | 140 | 105.5 | 158.9 | 120.24 |
| 14345 | 'Fut4' | 0 | 0 | 1.9 | 0 | 0.13 | 0 | 2.26 | 1 | 0 | 0 |
| 14348 | 'Fut9' | 4.24 | 2.72 | 2.18 | 1.8 | 4.85 | 2.12 | 2.71 | 2.07 | 1.9 | 2.87 |
| 14349 | 'Fv1' | 7.54 | 3.82 | 2.62 | 0 | 0 | 0.54 | 0 | 0 | 0.09 | 0 |
| 14356 | 'Timm10b' | 43.09 | 47.66 | 73.8 | 94.2 | 60.3 | 62.71 | 52.3 | 64.33 | 47.98 | 54.48 |
| 14357 | 'Dtx1' | 8.92 | 9.1 | 9.07 | 10.8 | 6.35 | 2.41 | 7.96 | 6.97 | 15.11 | 1.96 |
| 14359 | 'Fxr1' | 31.49 | 39.17 | 9.88 | 37.1 | 21 | 38.38 | 28.7 | 27.33 | 36.12 | 19.85 |
| 14360 | 'Fyn' | 8.05 | 14.03 | 18.9 | 11.4 | 10.8 | 8.45 | 8.26 | 5.87 | 7.38 | 2.87 |
| 14362 | 'Fzd1' | 0.01 | 3.7 | 0.01 | 0 | 1.2 | 0 | 0 | 0 | 0.87 | 0 |
| 14365 | 'Fzd3' | 2.89 | 2.77 | 3.94 | 1.47 | 2.22 | 2.03 | 0.89 | 1.43 | 0.44 | 2.49 |
| 14367 | 'Fzd5' | 0.21 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 1.81 |
| 14368 | 'Fzd6' | 0 | 0 | 1.16 | 0 | 0.04 | 0 | 0 | 0 | 1.75 | 0 |
| 14369 | 'Fzd7' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14370 | 'Fzd8' | 0.64 | 0 | 0 | 0 | 0 | 0 | 0 | 0.21 | 0.04 | 0 |
| 14371 | 'Fzd9' | 3.44 | 0.52 | 0 | 9.29 | 1.87 | 1.77 | 4.98 | 0.04 | 0.02 | 0 |
| 14373 | 'G0s2' | 7.28 | 9.14 | 5.39 | 27.1 | 3.43 | 0.11 | 19.5 | 10.36 | 0.05 | 2.29 |
| 14375 | 'Xrcc6' | 20.94 | 20.68 | 7.33 | 21.6 | 21 | 8.48 | 2.3 | 15.91 | 22.34 | 25.03 |
| 14376 | 'Ganab' | 33.62 | 22.62 | 21.4 | 23.4 | 28.6 | 17.74 | 23.5 | 27.21 | 27.84 | 27.86 |
| 14381 | 'G6pdx' | 22.77 | 35.45 | 27.3 | 23.8 | 11.4 | 26.71 | 1.58 | 20.97 | 10.02 | 17.37 |
| 14385 | 'Slc37a4' | 7.74 | 10.9 | 11.5 | 10.8 | 3.39 | 19.58 | 14.1 | 10.37 | 21.87 | 4.27 |
| 14387 | 'Gaa' | 964.3 | 1181 | 985 | 598 | 735 | 588.4 | 773 | 984.9 | 1024 | 1131.14 |
| 14388 | 'Gab1' | 4.25 | 0.49 | 3.55 | 0 | 0.5 | 0 | 0 | 0.41 | 3.04 | 0.01 |
| 14389 | 'Gab2' | 5.38 | 1.36 | 2.86 | 8.96 | 3.83 | 0.01 | 3.94 | 1.72 | 2.71 | 0 |
| 14390 | 'Gabpa' | 7.83 | 2.6 | 2.59 | 0 | 1.88 | 2.39 | 3.05 | 1.3 | 4.01 | 7.14 |
| 14391 | 'Gabpb1' | 17 | 16.58 | 15.4 | 3.47 | 10.7 | 18.4 | 6.27 | 12.8 | 5.74 | 10.61 |
| 14394 | 'Gabra1' | 74.93 | 41.94 | 186 | 5.76 | 87.9 | 11.67 | 142 | 56.18 | 72.32 | 33.67 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 14395 | 'Gabra2' | 60.23 | 75.01 | 29.2 | 11.5 | 9.36 | 27.61 | 43 | 37.51 | 39.05 | 48.73 |
| 14396 | 'Gabra3' | 68.45 | 46.27 | 41.4 | 38.1 | 23.1 | 21.3 | 49 | 52.38 | 25.57 | 71.73 |
| 14397 | 'Gabra4' | 16.76 | 11.49 | 14.9 | 21.6 | 7.81 | 9.56 | 11.5 | 19.51 | 10.81 | 23.21 |
| 14400 | 'Gabrb1' | 134.4 | 131.1 | 103 | 58.4 | 61.1 | 89.48 | 139 | 175.6 | 84.49 | 83.69 |
| 14401 | 'Gabrb2' | 13.88 | 9.95 | 30.7 | 4.25 | 23 | 3.97 | 12.9 | 9.54 | 10.82 | 6.28 |
| 14402 | 'Gabrb3' | 12.54 | 9.38 | 7.79 | 11.9 | 10 | 4.9 | 5.29 | 5.33 | 5.88 | 6.5 |
| 14403 | 'Gabrd' | 0.92 | 2.64 | 0 | 0 | 0 | 0 | 0 | 0 | 1.12 | 0 |
| 14404 | 'Gabre' | 26.13 | 19.9 | 2.9 | 18.8 | 3.02 | 6.93 | 11.7 | 2.35 | 16.53 | 16.24 |
| 14405 | 'Gabrg1' | 69.81 | 35.7 | 11 | 3.13 | 11.3 | 14.98 | 27.1 | 13.43 | 31.84 | 45.46 |
| 14406 | 'Gabrg2' | 130.3 | 126.3 | 138 | 69.9 | 88.8 | 54.86 | 161 | 129.8 | 95.35 | 108.31 |
| 14407 | 'Gabrg3' | 4.89 | 5.53 | 6.27 | 1.83 | 3.63 | 10.21 | 18.4 | 3.01 | 0.88 | 11.92 |
| 14409 | 'Gabbr2' | 0 | 3.24 | 0 | 0 | 11.5 | 4.04 | 0 | 1.15 | 10.38 | 12.52 |
| 14415 | 'Gad1' | 277.7 | 114.7 | 236 | 44.3 | 104 | 23.54 | 74.6 | 285.4 | 106.6 | 11.21 |
| 14417 | 'Gad2' | 121.6 | 30.41 | 53.6 | 22.2 | 64.3 | 32.43 | 41.4 | 88.46 | 109.5 | 101.13 |
| 14419 | 'Gal' | 1348 | 1976 | 1191 | 904 | 182 | 115.3 | 151 | 1404 | 446.6 | 240.42 |
| 14420 | 'Galc' | 1.14 | 3.14 | 1.18 | 0.75 | 3.23 | 0.05 | 2.87 | 1.23 | 2.96 | 3.26 |
| 14421 | 'B4galnt1' | 41.01 | 58.94 | 43.3 | 14.8 | 26.2 | 48.2 | 45.6 | 24.6 | 67.52 | 32.97 |
| 14422 | 'B4galnt2' | 0.19 | 0.23 | 0.3 | 0.45 | 0.47 | 0.32 | 0.73 | 0.13 | 0.24 | 0.5 |
| 14423 | 'Galnt1' | 5.95 | 3.79 | 4.16 | 6.39 | 5.5 | 1.45 | 11.4 | 1.72 | 6.87 | 9.72 |
| 14425 | 'Galnt3' | 0 | 0 | 0 | 0 | 0 | 0 | 0.15 | 0 | 0 | 0 |
| 14426 | 'Galnt4' | 0.7 | 0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14427 | 'Galr1' | 8.2 | 18.8 | 23.8 | 0 | 0 | 75.9 | 45.5 | 51.7 | 49.6 | 60.3 |
| 14428 | 'Galr2' | 0 | 2.4 | 17.5 | 0 | 0 | 0 | 0 | 0 | 9.4 | 0 |
| 14429 | 'Galr3' | 0 | 0 | 0 | 13.6 | 0 | 0 | 0 | 0 | 0 | 0.9 |
| 14430 | 'Galt' | 37.71 | 35.09 | 27.9 | 26.8 | 35.6 | 35.48 | 29.8 | 25.94 | 48.08 | 36.71 |
| 14431 | 'Gamt' | 42.1 | 11.87 | 30.4 | 0 | 20 | 51.67 | 5.85 | 13.98 | 7.19 | 8.84 |
| 14432 | 'Gap43' | 1080 | 1066 | 746 | 1410 | 1153 | 1539 | 817 | 1582 | 1141 | 1302.51 |
| 14433 | 'Gapdh' | 2194 | 2252 | 2798 | 1387 | 2162 | 2788 | 2613 | 2251 | 1862 | 2094.59 |
| 14447 | 'Gapdhs' | 0.09 | 0 | 0 | 0 | 2.07 | 0.03 | 0 | 1.38 | 0.03 | 1.21 |
| 14450 | 'Gart' | 21.13 | 20.77 | 20.6 | 32 | 7.26 | 16.09 | 7.58 | 16.46 | 23.04 | 20.29 |
| 14451 | 'Gas1' | 0.47 | 0 | 0.73 | 0 | 0.51 | 0 | 0.4 | 0 | 1.1 | 0 |
| 14453 | 'Gas2' | 7.31 | 8.33 | 10.7 | 17.4 | 8.84 | 3.56 | 0.62 | 13.43 | 10.87 | 9.74 |
| 14456 | 'Gas6' | 38.44 | 130.4 | 41.4 | 53.1 | 29.5 | 29.64 | 115 | 59.92 | 54.28 | 31.57 |
| 14457 | 'Gas7' | 62.16 | 81.66 | 30.9 | 28.3 | 123 | 92.28 | 28 | 65.27 | 28.08 | 71.78 |
| 14459 | 'Gast' | 21.7 | 172.8 | 0 | 47.3 | 3.59 | 15.57 | 0.12 | 33.26 | 6.71 | 11.71 |
| 14461 | 'Gata2' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14462 | 'Gata3' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0.09 |
| 14463 | 'Gata4' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 14465 | 'Gata6' | 0.01 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14466 | 'Gba' | 30.64 | 32.44 | 33.8 | 0.11 | 16.3 | 20.83 | 20.7 | 34.37 | 35.05 | 47.8 |
| 14467 | 'Nipsnap2' | 66.85 | 41.97 | 82.1 | 68 | 71.1 | 49.43 | 47.3 | 56.36 | 65.37 | 84.61 |
| 14469 | 'Gbp2' | 0 | 0 | 1.09 | 0 | 0 | 4.81 | 0 | 0 | 0 | 0 |
| 14470 | 'Rabac1' | 500.3 | 427.1 | 532 | 564 | 601 | 723.2 | 603 | 589.8 | 504.4 | 587.72 |
| 14472 | 'Gbx2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.49 | 0 | 0 |
| 14473 | 'Gc' | 0 | 0.03 | 0 | 0 | 0 | 0.08 | 0 | 0 | 0.02 | 0 |
| 14479 | 'Usp15' | 37.16 | 32.23 | 35.5 | 16.8 | 43.9 | 58.07 | 44.6 | 43.12 | 37.59 | 42.95 |
| 14489 | 'Mtpn' | 47.95 | 57.55 | 49 | 59.6 | 67 | 18.67 | 54.4 | 52.43 | 44.24 | 63.55 |
| 14528 | 'Gch1' | 1.41 | 0 | 0 | 1.47 | 0 | 0 | 4.71 | 0.16 | 4.92 | 0.61 |
| 14531 | 'Gcm1' | 0.07 | 0.07 | 0.02 | 0.06 | 0.05 | 2.52 | 3.47 | 0.08 | 0.04 | 0 |
| 14533 | 'Bloc1s1' | 108.6 | 127.1 | 193 | 209 | 164 | 151.6 | 143 | 142.1 | 139.7 | 183.97 |
| 14534 | 'Kat2a' | 22.47 | 18.9 | 31.7 | 13.2 | 13.5 | 10.96 | 35.5 | 13.93 | 35.55 | 5.63 |
| 14536 | 'Nr6a1' | 0 | 0 | 1.04 | 2.01 | 1.27 | 0 | 0 | 0 | 0 | 1.61 |
| 14537 | 'Gcnt1' | 1.43 | 0 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0 | 0 |
| 14538 | 'Gcnt2' | 0 | 1.01 | 2.92 | 0 | 2.24 | 0.01 | 0.55 | 0 | 0.15 | 0 |
| 14539 | 'Opn1mw' | 1.96 | 0 | 0 | 0 | 0 | 8.33 | 0 | 0 | 0 | 4.26 |
| 14544 | 'Gda' | 30.55 | 22.64 | 16.8 | 28.6 | 9 | 1.44 | 14.3 | 12.44 | 2.69 | 7.28 |
| 14545 | 'Gdap1' | 47.34 | 60.31 | 47.6 | 26 | 40 | 34.57 | 58.2 | 43.49 | 47.34 | 41.88 |
| 14547 | 'Gdap2' | 22.66 | 28.39 | 15.2 | 8.29 | 14.9 | 5.25 | 12.3 | 19.94 | 8.89 | 18.64 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 14548 | 'Mrps33' | 167.8 | 167.2 | 155 | 202 | 215 | 220.7 | 130 | 167.5 | 195.8 | 209.18 |
| 14555 | 'Gpd1' | 0.45 | 0.51 | 6.8 | 10.1 | 0.19 | 0.03 | 0 | 0.09 | 0.15 | 0.02 |
| 14559 | 'Gdf1' | 21.23 | 0 | 34.1 | 27.5 | 0 | 0.01 | 0 | 9.67 | 0 | 0.01 |
| 14560 | 'Gdf10' | 0 | 0 | 0.55 | 0 | 0 | 2.6 | 0 | 0 | 0 | 0 |
| 14561 | 'Gdf11' | 1.49 | 0 | 0.05 | 0 | 2.98 | 0 | 0 | 0.67 | 0 | 1.73 |
| 14562 | 'Gdf3' | 0.02 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 4.64 | 17.18 |
| 14566 | 'Gdf9' | 0 | 4.34 | 2.78 | 0.51 | 0 | 1.22 | 0 | 0 | 3.37 | 9.1 |
| 14567 | 'Gdi1' | 623.8 | 612.3 | 594 | 625 | 704 | 642.5 | 598 | 647.6 | 646.7 | 631.57 |
| 14569 | 'Gdi2' | 76.92 | 77.23 | 103 | 91.1 | 84.7 | 88.38 | 112 | 81.54 | 91.56 | 90.59 |
| 14570 | 'Arhgdig' | 160 | 183.6 | 202 | 292 | 143 | 173.8 | 119 | 252.1 | 236.3 | 100.2 |
| 14571 | 'Gpd2' | 16.96 | 23.08 | 24.4 | 32.3 | 17.3 | 9.89 | 17.5 | 27.06 | 7.7 | 22.85 |
| 14579 | 'Gem' | 7.03 | 14.4 | 2.64 | 27.3 | 2.18 | 5.55 | 0.04 | 0.43 | 0 | 2.52 |
| 14580 | 'Gfap' | 23.87 | 3.15 | 3.32 | 8.85 | 256 | 21.34 | 4.9 | 6.12 | 13.52 | 22.89 |
| 14583 | 'Gfpt1' | 3.07 | 1.36 | 1.03 | 0.31 | 1.17 | 1.72 | 1.64 | 2.36 | 1.21 | 1.86 |
| 14584 | 'Gfpt2' | 0.58 | 3.48 | 2.09 | 0.4 | 0.02 | 0 | 4.77 | 0 | 0 | 5.78 |
| 14585 | 'Gfra1' | 33.49 | 15.91 | 40.6 | 15.3 | 18.8 | 10.49 | 16.4 | 21.07 | 33.14 | 15.35 |
| 14586 | 'Gfra2' | 5.48 | 33.94 | 58.1 | 36.4 | 12.6 | 8.2 | 1.24 | 30.88 | 3.08 | 3.25 |
| 14587 | 'Gfra3' | 1.94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14588 | 'Gfra4' | 46.46 | 38.39 | 50.5 | 50.7 | 32.4 | 42.79 | 52.9 | 35.72 | 71.29 | 17 |
| 14590 | 'Ggh' | 16.26 | 33.84 | 18.9 | 23.5 | 14.9 | 18.33 | 32.8 | 17.82 | 14.62 | 17.98 |
| 14593 | 'Ggps1' | 29.13 | 37.83 | 19.7 | 20.8 | 41.5 | 36.4 | 17.6 | 26.94 | 50.32 | 31.61 |
| 14594 | 'Ggta1' | 0.79 | 2.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14595 | 'B4galt1' | 3.21 | 1.12 | 1.12 | 0.25 | 1.1 | 8.09 | 3.24 | 1.71 | 2.49 | 2.82 |
| 14600 | 'Ghr' | 7.66 | 3.68 | 1.17 | 0.01 | 2.1 | 0.14 | 0.52 | 3.49 | 0.05 | 2.78 |
| 14601 | 'Ghrh' | 8.82 | 102.5 | 1.5 | 259 | 0.51 | 5.7 | 0.49 | 22.61 | 0.03 | 0.07 |
| 14605 | 'Tsc22d3' | 88.18 | 49.72 | 89.1 | 46.3 | 91.1 | 78.64 | 50.6 | 84.87 | 32.77 | 34.74 |
| 14608 | 'Gpr83' | 5.41 | 1.55 | 33.2 | 0.02 | 2.73 | 10.58 | 47.2 | 38.8 | 0 | 0.01 |
| 14609 | 'Gja1' | 36.21 | 60.04 | 2.35 | 54.7 | 14.5 | 21.46 | 0.08 | 27.82 | 27.98 | 14.15 |
| 14612 | 'Gja4' | 3.58 | 0 | 0 | 0 | 0 | 0 | 6.67 | 6.38 | 0 | 0 |
| 14615 | 'Gjc1' | 0.02 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14616 | 'Gja8' | 0 | 0.15 | 0.27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14617 | 'Gjd2' | 3.56 | 2.22 | 0.46 | 0 | 1.38 | 0 | 0 | 1.89 | 0.25 | 1.19 |
| 14618 | 'Gjb1' | 6.06 | 8.15 | 0 | 0 | 3.76 | 8.49 | 0 | 0 | 0 | 0.14 |
| 14619 | 'Gjb2' | 0 | 0 | 0 | 0 | 0.8 | 0 | 0 | 1.01 | 0 | 0 |
| 14623 | 'Gjb6' | 31.04 | 37.21 | 12.9 | 0 | 0.39 | 37.52 | 15.4 | 27.35 | 7.38 | 0 |
| 14628 | 'Ostm1' | 33.86 | 31.97 | 23.4 | 16.9 | 22.9 | 22.61 | 11.9 | 37.98 | 38.03 | 57.09 |
| 14629 | 'Gclc' | 4.17 | 1.3 | 8.57 | 16.4 | 4.45 | 4.05 | 0.53 | 7.18 | 3.65 | 2.48 |
| 14630 | 'Gclm' | 4.47 | 6.12 | 2.93 | 4.32 | 4.78 | 1.39 | 3.5 | 1.12 | 2.92 | 0.82 |
| 14632 | 'Gli1' | 0 | 0.63 | 0.66 | 0.03 | 0 | 0.74 | 0 | 0 | 0 | 0.07 |
| 14633 | 'Gli2' | 0.01 | 0.03 | 0 | 0.01 | 0 | 0 | 0.06 | 0 | 0.05 | 0 |
| 14634 | 'Gli3' | 0.93 | 0 | 0 | 0.18 | 0.64 | 0.96 | 0.01 | 0 | 1.1 | 0.21 |
| 14635 | 'Galk1' | 12.49 | 12.08 | 7.02 | 29.7 | 21.8 | 26.88 | 27.5 | 16.26 | 12.04 | 31.47 |
| 14645 | 'Glul' | 114.9 | 81.61 | 39.3 | 58.4 | 51.9 | 165 | 82.8 | 63.29 | 76.68 | 41.72 |
| 14651 | 'Hagh' | 221.7 | 227.3 | 253 | 181 | 163 | 259.7 | 163 | 226.9 | 240.9 | 296.5 |
| 14652 | 'Glp1r' | 0.76 | 0.69 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 |
| 14654 | 'Glr1' | 0.4 | 1.06 | 0.4 | 0 | 0.16 | 0.17 | 0.83 | 0.27 | 0 | 0.07 |
| 14657 | 'Glr4' | 0.03 | 0 | 2.85 | 0 | 0.93 | 0.01 | 0 | 0 | 0 | 0 |
| 14658 | 'Glrb' | 47.91 | 41.55 | 94.9 | 33.3 | 33.2 | 27.65 | 45.9 | 48.19 | 92 | 46.85 |
| 14660 | 'Gls' | 10.91 | 5.02 | 14.2 | 17.1 | 14 | 10.74 | 24.2 | 10.75 | 16.04 | 10.22 |
| 14661 | 'Glud1' | 38.22 | 48.96 | 55.8 | 48.7 | 20.7 | 26.74 | 59.2 | 6.9 | 50.06 | 20.36 |
| 14664 | 'Slc6a9' | 14.31 | 17.67 | 4.39 | 10.4 | 8.65 | 27.65 | 16.3 | 17.83 | 12.12 | 3.43 |
| 14667 | 'Gm2a' | 17.02 | 12.28 | 40.6 | 19.5 | 9.87 | 14.02 | 43.1 | 19.32 | 6.99 | 7.69 |
| 14670 | 'Gnl1' | 34.42 | 37.58 | 23.6 | 58.5 | 44.3 | 24.18 | 25.5 | 21.47 | 20.96 | 26.67 |
| 14672 | 'Gna11' | 47.26 | 62.16 | 63.8 | 97.9 | 67 | 55.92 | 54.4 | 88.12 | 43.85 | 48.69 |
| 14673 | 'Gna12' | 5.03 | 0 | 2.18 | 6.33 | 3.79 | 0.02 | 0.08 | 0 | 0 | 0.71 |
| 14674 | 'Gna13' | 4.42 | 0.37 | 3.22 | 10.2 | 2.63 | 5.67 | 2.57 | 2.84 | 2.6 | 1.24 |
| 14675 | 'Gna14' | 0 | 2.18 | 0.01 | 0 | 0 | 0 | 0 | 3.05 | 0 | 0 |
| 14676 | 'Gna15' | 0 | 0 | 0 | 0 | 0.05 | 3.91 | 0 | 0 | 0 | 0 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 14677 | 'Gnai1' | 32.55 | 31.04 | 8.72 | 25.5 | 17.2 | 13.27 | 30.9 | 15.58 | 69.38 | 12.35 |
| 14678 | 'Gnai2' | 45.34 | 31.32 | 30.7 | 52.6 | 45.3 | 49.02 | 43 | 49.98 | 46.37 | 51.7 |
| 14679 | 'Gnai3' | 9.53 | 17.3 | 13 | 7.74 | 13.7 | 0.01 | 7.67 | 9.47 | 5.97 | 13.63 |
| 14680 | 'Gnal' | 12.89 | 9.85 | 5.8 | 8.24 | 6.82 | 3.65 | 10.5 | 1.93 | 7.39 | 6.67 |
| 14681 | 'Gnao1' | 66.16 | 64.44 | 67.4 | 49.9 | 71.2 | 32.3 | 73.9 | 47.45 | 58.42 | 47.03 |
| 14682 | 'Gnaq' | 44.29 | 51.25 | 27.5 | 48.8 | 39.6 | 37.2 | 31.4 | 31.34 | 28.12 | 32.61 |
| 14683 | 'Gnas' | 773.3 | 644.3 | 555 | 630 | 701 | 817.7 | 664 | 574.2 | 785.5 | 745.97 |
| 14686 | 'Gnat2' | 0 | 0 | 0 | 0 | 1.02 | 0 | 0 | 0 | 0 | 0 |
| 14687 | 'Gnaz' | 45.4 | 58.85 | 37.1 | 98.5 | 39.2 | 24.69 | 51.4 | 38.43 | 58.3 | 18.62 |
| 14688 | 'Gnb1' | 507.9 | 485.6 | 378 | 548 | 627 | 541.5 | 404 | 580.8 | 599.3 | 600.8 |
| 14693 | 'Gnb2' | 38.8 | 29.13 | 33.8 | 62.3 | 56.8 | 26.16 | 44.3 | 39.27 | 55.45 | 43.35 |
| 14694 | 'Rack1' | 97.93 | 131.6 | 86.1 | 136 | 88.3 | 83.44 | 80.2 | 110.3 | 105.5 | 113.34 |
| 14695 | 'Gnb3' | 1.01 | 0 | 7.69 | 0 | 0 | 0 | 0.44 | 0.11 | 0 | 2.27 |
| 14696 | 'Gnb4' | 5.77 | 28.75 | 17.4 | 5.16 | 17.8 | 3.44 | 20.6 | 11.68 | 52.92 | 37.39 |
| 14697 | 'Gnb5' | 99.52 | 79.04 | 122 | 101 | 96.9 | 122.9 | 98.6 | 90.8 | 102.9 | 91.21 |
| 14699 | 'Gngt1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 |
| 14700 | 'Gng10' | 70.48 | 140.1 | 49 | 231 | 58.6 | 109.9 | 68.3 | 94.91 | 23.48 | 81.87 |
| 14701 | 'Gng12' | 2.35 | 2.96 | 5.94 | 11.1 | 1.19 | 1.53 | 4.85 | 3.18 | 3.15 | 1.05 |
| 14702 | 'Gng2' | 74.96 | 68.38 | 53.9 | 46.4 | 61.6 | 61.02 | 49.5 | 72.74 | 69.21 | 65.8 |
| 14704 | 'Gng3' | 586.7 | 512.1 | 509 | 754 | 526 | 637.4 | 528 | 585.9 | 475 | 543.11 |
| 14705 | 'Bscl2' | 195.5 | 213.5 | 134 | 205 | 118 | 222.6 | 179 | 219.5 | 248.4 | 238.7 |
| 14706 | 'Gng4' | 51.32 | 36.14 | 30.6 | 39.9 | 20.6 | 16.64 | 3.59 | 18.98 | 31.69 | 22.35 |
| 14707 | 'Gng5' | 68.77 | 54.99 | 53 | 51.8 | 30.9 | 122.4 | 90 | 33.81 | 68.74 | 61.92 |
| 14708 | 'Gng7' | 11.45 | 14.4 | 4.76 | 0.18 | 2.29 | 1.68 | 6.06 | 7.25 | 6.54 | 4.62 |
| 14709 | 'Gng8' | 2.14 | 0 | 0 | 13.9 | 68.3 | 92.18 | 1.29 | 0.05 | 38.5 | 84.92 |
| 14710 | 'Gngt2' | 8.51 | 12.6 | 0 | 33.6 | 13.5 | 21.6 | 7.08 | 0.09 | 0 | 5.78 |
| 14711 | 'Gnmt' | 0 | 0 | 8.8 | 0 | 4.88 | 0 | 13 | 0.73 | 0 | 3.33 |
| 14712 | 'Gnpat' | 31.13 | 16.89 | 26.1 | 28.8 | 28.5 | 21.26 | 34.7 | 35.71 | 36.34 | 26.85 |
| 14714 | 'Gnrh1' | 0.94 | 0.28 | 4.52 | 0.99 | #### | 84.26 | 9.39 | 1.7 | 1.58 | 1836.64 |
| 14718 | 'Got1' | 225.5 | 195.4 | 304 | 155 | 204 | 433 | 352 | 323.3 | 259.6 | 251.77 |
| 14719 | 'Got2' | 124 | 149.7 | 211 | 106 | 145 | 173.2 | 237 | 176.3 | 148.9 | 104 |
| 14723 | 'Gp1ba' | 0.86 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0.31 |
| 14724 | 'Gp1bb' | 0.35 | 0 | 0.89 | 5.33 | 0 | 0 | 0 | 0.67 | 0.5 | 0.04 |
| 14725 | 'Lrp2' | 0 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 14726 | 'Pdpr' | 6.5 | 5.27 | 8.49 | 22.1 | 7.22 | 4.86 | 9.98 | 3.48 | 0.74 | 0.05 |
| 14728 | 'Lilrb4a' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14729 | 'Gp5' | 0.92 | 0.44 | 0 | 0 | 0 | 4.14 | 1.45 | 1.36 | 6.99 | 0.7 |
| 14731 | 'Gpaa1' | 44.94 | 34.56 | 52 | 27.3 | 45.8 | 25.61 | 10.3 | 34.49 | 17.69 | 31.57 |
| 14732 | 'Gpam' | 2.44 | 2.21 | 2.16 | 5.72 | 0.78 | 1.75 | 2.41 | 2.65 | 4.86 | 2.37 |
| 14733 | 'Gpc1' | 3.56 | 4.02 | 13.7 | 8.45 | 8.75 | 8.77 | 11.8 | 5.74 | 8.04 | 8.66 |
| 14734 | 'Gpc3' | 14.91 | 20 | 49 | 61.5 | 11.6 | 0.04 | 34 | 46.25 | 2.88 | 14.25 |
| 14735 | 'Gpc4' | 2.84 | 0.75 | 13.5 | 0.54 | 0.01 | 4.05 | 0 | 9.9 | 6.52 | 0.14 |
| 14738 | 'Gpr12' | 3.43 | 1.06 | 6.52 | 0 | 10.3 | 9.45 | 2.83 | 9.34 | 7.6 | 3.88 |
| 14739 | 'S1pr2' | 0 | 0.49 | 5.66 | 0 | 0 | 0 | 0 | 2.84 | 0 | 0 |
| 14744 | 'Gpr65' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 14745 | 'Lpar1' | 4.38 | 2.11 | 1.76 | 0 | 20.4 | 1.71 | 7.66 | 1.78 | 1.75 | 2.65 |
| 14747 | 'Cmklr1' | 0 | 0 | 0 | 0 | 0 | 0.13 | 0 | 0.22 | 0 | 0 |
| 14748 | 'Gpr3' | 0.02 | 1.34 | 12.8 | 0 | 0 | 0 | 0.16 | 0 | 0.68 | 3.79 |
| 14751 | 'Gpi1' | 194 | 181.4 | 343 | 120 | 204 | 232.6 | 294 | 243 | 240.4 | 275.24 |
| 14755 | 'Pigq' | 30.84 | 17.85 | 22.8 | 15.4 | 20.9 | 15.61 | 16.3 | 13.78 | 12.87 | 32.09 |
| 14756 | 'Gpld1' | 32.34 | 18.94 | 22 | 51.6 | 5.52 | 14.5 | 11.9 | 16.19 | 20.98 | 15.18 |
| 14758 | 'Gpm6b' | 79.31 | 60.21 | 54.9 | 63.7 | 102 | 97.07 | 93 | 52.18 | 42.15 | 48.58 |
| 14760 | 'Gpr19' | 31.43 | 41.43 | 20.4 | 64.4 | 15.9 | 26.57 | 30 | 33.95 | 16.04 | 45.36 |
| 14761 | 'Gpr27' | 0.68 | 0.91 | 0.17 | 0.41 | 0.62 | 0 | 0 | 0.11 | 0.35 | 0.12 |
| 14763 | 'Gpr37' | 8.35 | 21.87 | 1.97 | 0.63 | 0.15 | 19.53 | 1.25 | 5.43 | 0.3 | 0.01 |
| 14765 | 'Gpr50' | 0 | 0 | 0.02 | 32.2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14766 | 'Adgrg1' | 33.13 | 58.3 | 44.8 | 24.1 | 52.3 | 29.77 | 43.5 | 33.45 | 32.86 | 64.51 |
| 14768 | 'Lancl1' | 55.55 | 46.45 | 68.7 | 59.5 | 50 | 82.35 | 69.6 | 62.99 | 48.79 | 56.54 |

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|-------|----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 14772 | 'Grk4' | 13.18 | 16.68 | 16.7 | 29.3 | 20.7 | 20.08 | 17.9 | 10.44 | 15.2 | 16.03 |
| 14773 | 'Grk5' | 0.01 | 1.64 | 0.33 | 0 | 0 | 0 | 2 | 0.01 | 0.95 | 0 |
| 14775 | 'Gpx1' | 218.6 | 179.2 | 208 | 212 | 259 | 242.9 | 211 | 200.3 | 242.9 | 314.26 |
| 14776 | 'Gpx2' | 0 | 0 | 0 | 4.14 | 0 | 0.18 | 0 | 0 | 0 | 0 |
| 14778 | 'Gpx3' | 973.3 | 1167 | 589 | 814 | 602 | 1059 | 595 | 929.7 | 1050 | 1290.07 |
| 14780 | 'Gpx5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.13 | 0 |
| 14782 | 'Gsr' | 5.71 | 6.8 | 4.93 | 8.66 | 6.28 | 4.61 | 8.24 | 6.05 | 9.52 | 4.64 |
| 14783 | 'Grb10' | 28.6 | 36.92 | 38.7 | 12.5 | 22 | 11.65 | 49.6 | 24.32 | 31.59 | 38.33 |
| 14784 | 'Grb2' | 30.86 | 31.98 | 19.5 | 37.9 | 22.5 | 17.52 | 22.7 | 19.92 | 35.25 | 29.91 |
| 14786 | 'Grb7' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14787 | 'Rhpn1' | 11.28 | 7.89 | 8.97 | 5.85 | 7.42 | 6.07 | 0.02 | 8.51 | 7.26 | 9.84 |
| 14788 | 'Gpr162' | 0.72 | 0.66 | 1 | 1.61 | 2.16 | 0.17 | 1.45 | 1.18 | 5.96 | 1.03 |
| 14789 | 'P3h3' | 0.37 | 3.6 | 2.93 | 2.64 | 5.84 | 2.17 | 14.2 | 9.33 | 5.21 | 11.52 |
| 14790 | 'Grcc10' | 638.4 | 654.3 | 524 | 595 | 671 | 746 | 625 | 458.5 | 615.2 | 655.86 |
| 14791 | 'Emg1' | 50.37 | 38.75 | 49.9 | 24.2 | 41.7 | 82.92 | 50.6 | 36.85 | 38.37 | 36.17 |
| 14792 | 'Lpcat3' | 7.94 | 13.8 | 13.8 | 0.03 | 7.34 | 21.41 | 3.59 | 6.17 | 5.54 | 7.05 |
| 14793 | 'Cdca3' | 0 | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0.06 | 1.82 |
| 14794 | 'Spsb2' | 9.14 | 6.97 | 3.64 | 3.58 | 7.91 | 26.56 | 9.13 | 2.21 | 12.78 | 30.15 |
| 14797 | 'Aes' | 45.74 | 91.2 | 122 | 73.4 | 93.5 | 76.6 | 156 | 83.34 | 69.81 | 54.74 |
| 14799 | 'Gria1' | 33.89 | 48.14 | 44.6 | 31.7 | 31.3 | 20.84 | 31.2 | 39.52 | 59.13 | 43.85 |
| 14800 | 'Gria2' | 166.8 | 147.7 | 104 | 94.1 | 162 | 77.3 | 161 | 146.7 | 185.6 | 174.72 |
| 14802 | 'Gria4' | 11.88 | 9.32 | 25.4 | 9.9 | 19.6 | 17.93 | 29.1 | 12.52 | 16.61 | 15.85 |
| 14803 | 'Grid1' | 9.06 | 7.33 | 13 | 20.4 | 4.84 | 8.3 | 6.51 | 4.06 | 7.52 | 9.69 |
| 14804 | 'Grid2' | 3.48 | 2.53 | 7.98 | 0.62 | 4.48 | 5.33 | 3.9 | 1.94 | 3.13 | 1.91 |
| 14805 | 'Grik1' | 40.4 | 23.7 | 9.88 | 9.59 | 7.49 | 14.2 | 16.3 | 30.54 | 0.04 | 22.58 |
| 14806 | 'Grik2' | 5.95 | 8.88 | 6.22 | 0.01 | 7.07 | 2.62 | 6.38 | 7.76 | 7.86 | 1.06 |
| 14807 | 'Grik3' | 2.01 | 3.42 | 0.54 | 0.68 | 1.45 | 0.14 | 0.01 | 0.8 | 0 | 0.01 |
| 14809 | 'Grik5' | 3.41 | 2.98 | 1.71 | 0.18 | 3.05 | 3.98 | 0.95 | 1.31 | 2.04 | 3.41 |
| 14810 | 'Grin1' | 99.54 | 65.27 | 138 | 16.4 | 64.5 | 45.53 | 109 | 61.58 | 91.21 | 36.78 |
| 14811 | 'Grin2a' | 2.29 | 1.66 | 4.29 | 0 | 0.73 | 0.43 | 0.03 | 0 | 0.3 | 0.55 |
| 14812 | 'Grin2b' | 7.39 | 6.28 | 11.4 | 11.2 | 6.12 | 14.15 | 9.37 | 5.17 | 7.07 | 8 |
| 14813 | 'Grin2c' | 0 | 0.44 | 3.12 | 0 | 0 | 0.33 | 0 | 0 | 1.6 | 0.01 |
| 14814 | 'Grin2d' | 0.11 | 0.24 | 0.76 | 1.25 | 0.54 | 0.25 | 0.85 | 0.16 | 1.49 | 0.24 |
| 14815 | 'Nr3c1' | 15.26 | 7.26 | 16.5 | 16.8 | 5.48 | 5.19 | 5.24 | 7.05 | 8.26 | 7.4 |
| 14816 | 'Grm1' | 1.31 | 3.4 | 9.23 | 1.01 | 8.83 | 8.68 | 33.2 | 9.85 | 15.8 | 1.37 |
| 14823 | 'Grm8' | 0.55 | 4.49 | 8.21 | 1.72 | 3.04 | 5.74 | 7.89 | 14.72 | 0.01 | 1.15 |
| 14824 | 'Grn' | 19.66 | 33.81 | 31.5 | 18.4 | 20.6 | 55.3 | 14.2 | 42.41 | 25.07 | 21.55 |
| 14825 | 'Cxcl1' | 0 | 0 | 0 | 8.72 | 0 | 0 | 0.05 | 0 | 0 | 0 |
| 14827 | 'Pdia3' | 245.5 | 302.7 | 155 | 271 | 180 | 191.4 | 166 | 168.4 | 259.3 | 312.03 |
| 14828 | 'Hspa5' | 421.1 | 625 | 286 | 502 | 251 | 381.4 | 265 | 282.2 | 493 | 655.53 |
| 14829 | 'Grpr' | 0.92 | 0 | 3.85 | 0 | 0.85 | 0 | 7.9 | 0.02 | 0 | 0 |
| 14840 | 'Gsg1' | 0 | 0 | 0.08 | 0 | 0 | 3.76 | 0.04 | 0.7 | 0 | 0.48 |
| 14842 | 'Gsx1' | 0 | 0 | 3.41 | 0 | 0.03 | 0 | 4.91 | 0 | 0 | 0 |
| 14843 | 'Gsx2' | 0 | 0 | 0 | 0 | 2.18 | 0 | 0.03 | 0 | 0 | 0 |
| 14852 | 'Gspt1' | 5.63 | 1.62 | 2.61 | 0.6 | 1.2 | 2.71 | 1.65 | 2.85 | 1.4 | 0.63 |
| 14853 | 'Gspt2' | 19.2 | 20.93 | 12.3 | 13.5 | 3.83 | 22.43 | 31.8 | 11.09 | 14.75 | 6.61 |
| 14854 | 'Gss' | 19.8 | 22.31 | 13.9 | 8.9 | 28.9 | 24.15 | 5.32 | 11.89 | 20.11 | 22.37 |
| 14857 | 'Gsta1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 |
| 14859 | 'Gsta3' | 0 | 0 | 1.85 | 4.86 | 0.15 | 4.4 | 0 | 0 | 0.35 | 1.87 |
| 14860 | 'Gsta4' | 16.41 | 61.56 | 43.6 | 15.5 | 35.1 | 90.76 | 30.9 | 46.03 | 13.65 | 26.46 |
| 14862 | 'Gstm1' | 257.6 | 157.4 | 164 | 311 | 101 | 441.7 | 277 | 178.9 | 152.5 | 154.2 |
| 14863 | 'Gstm2' | 0.04 | 6.58 | 0.09 | 5.64 | 0 | 0.14 | 21.2 | 1.94 | 0.04 | 4.18 |
| 14864 | 'Gstm3' | 0.04 | 4.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14865 | 'Gstm4' | 22.74 | 29.16 | 23.7 | 50 | 22.9 | 37.93 | 24.6 | 44.3 | 38.8 | 32.34 |
| 14866 | 'Gstm5' | 297.6 | 359.7 | 288 | 381 | 271 | 414.6 | 323 | 421.8 | 247.7 | 253.04 |
| 14867 | 'Gstm6' | 142.6 | 138.7 | 159 | 262 | 97.3 | 111.7 | 64.4 | 139.1 | 83.97 | 71.42 |
| 14869 | 'Gstp2' | 19.77 | 13.9 | 1.46 | 0.31 | 0.7 | 3.87 | 0.11 | 3.53 | 0 | 1.89 |
| 14870 | 'Gstp1' | 1307 | 1327 | 1001 | 1022 | 1335 | 1747 | 1219 | 1221 | 1082 | 1368.34 |

| | | | | | | | | | | | |
|-------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 14871 | 'Gstt1' | 19.59 | 34.03 | 38.5 | 29.5 | 8.38 | 19.11 | 20.7 | 8.93 | 16.86 | 12.14 |
| 14872 | 'Gstt2' | 9.08 | 12.35 | 6.78 | 16.2 | 5.88 | 39.35 | 28.7 | 9.83 | 19.1 | 36.51 |
| 14873 | 'Gsto1' | 85.09 | 102.7 | 124 | 47.7 | 35.7 | 91.58 | 184 | 123.1 | 131.4 | 66.66 |
| 14874 | 'Gstz1' | 40.49 | 50.56 | 45.7 | 47.1 | 29.2 | 72.48 | 9.39 | 51.84 | 50.92 | 28.65 |
| 14884 | 'Gtf2h1' | 16 | 19.53 | 11.2 | 25.1 | 6.16 | 11.18 | 19.3 | 15.67 | 11.48 | 19.1 |
| 14885 | 'Gtf2h4' | 21.57 | 8.39 | 19.7 | 0 | 22.2 | 20.25 | 24.6 | 12.66 | 11.14 | 10.51 |
| 14886 | 'Gtf2i' | 28.8 | 22.32 | 21.3 | 36.4 | 23.1 | 17.19 | 23.8 | 14.84 | 30.61 | 20.69 |
| 14894 | 'Cfap20' | 131.2 | 155.5 | 129 | 195 | 124 | 109.2 | 81.7 | 125.5 | 77.42 | 108.74 |
| 14897 | 'Trip12' | 3.93 | 6.64 | 9.28 | 11.6 | 4.62 | 4.52 | 12.1 | 4.52 | 4.92 | 4.68 |
| 14904 | 'Gtpbp1' | 11.29 | 2.07 | 4.4 | 0 | 3.62 | 1.08 | 6.31 | 3.18 | 4.11 | 3.51 |
| 14911 | 'Thumpd3' | 26.8 | 25.98 | 40.6 | 28.1 | 19.8 | 6.43 | 16.8 | 26.97 | 27.09 | 24.94 |
| 14912 | 'Nkx6-2' | 9.2 | 3.56 | 0.19 | 0.18 | 0.88 | 10.65 | 4.34 | 0.5 | 1.91 | 0 |
| 14913 | 'Guca1a' | 0 | 0.88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14919 | 'Gucy2e' | 0.78 | 0.21 | 0.97 | 0 | 0.79 | 0 | 0.23 | 0.3 | 0.49 | 0 |
| 14923 | 'Guk1' | 283.5 | 289.9 | 291 | 275 | 310 | 361.3 | 219 | 317.5 | 216.6 | 303.34 |
| 14924 | 'Magi1' | 20.09 | 36.77 | 17.1 | 22.6 | 18.8 | 11.19 | 28.2 | 23.14 | 25.61 | 17.66 |
| 14933 | 'Gk' | 6.29 | 4.59 | 11 | 5.53 | 3.37 | 0.69 | 4.71 | 6.07 | 0 | 4.56 |
| 14934 | 'Gypa' | 0 | 0.95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14936 | 'Gys1' | 8.65 | 6.01 | 8.4 | 3.86 | 0.04 | 5.84 | 1.89 | 1.78 | 1.55 | 6.06 |
| 14938 | 'Gzma' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 |
| 14945 | 'Gzmk' | 0 | 2.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.23 |
| 14950 | 'H13' | 133.8 | 122.8 | 63.3 | 98.4 | 81.4 | 121.9 | 115 | 110.7 | 132.9 | 154.06 |
| 14957 | 'Hist1h1d' | 0 | 0 | 0 | 0 | 0 | 3.92 | 0 | 0 | 0 | 0 |
| 14958 | 'H1f0' | 19.92 | 28.06 | 31.4 | 34.6 | 41.1 | 35.92 | 24.3 | 38.45 | 39.93 | 23.25 |
| 14960 | 'H2-Aa' | 0 | 0 | 0 | 0 | 2.28 | 0 | 0 | 0 | 0 | 0 |
| 14961 | 'H2-Ab1' | 0 | 0 | 0 | 0 | 0 | 9.44 | 0 | 0 | 0 | 0 |
| 14962 | 'Cfb' | 0 | 0 | 0 | 0.82 | 0.11 | 2.7 | 0 | 0 | 0 | 0.2 |
| 14963 | 'H2-BI' | 0.12 | 0 | 3.73 | 4.03 | 7.81 | 0 | 0 | 0 | 1.78 | 0 |
| 14964 | 'H2-D1' | 70.01 | 41.7 | 82.2 | 133 | 64.5 | 223.8 | 83.5 | 34.4 | 339.7 | 362.98 |
| 14969 | 'H2-Eb1' | 0.05 | 0.03 | 0 | 6.03 | 0.45 | 0.03 | 0 | 2.18 | 6.79 | 0 |
| 14972 | 'H2-K1' | 4.29 | 1.69 | 9.03 | 22.3 | 9.37 | 31.34 | 6.82 | 0.34 | 14.37 | 25.17 |
| 14976 | 'Pfdn6' | 187.3 | 100.3 | 147 | 168 | 240 | 139.6 | 214 | 254.6 | 196.2 | 123.24 |
| 14977 | 'Slc39a7' | 50 | 98.05 | 109 | 67.5 | 74.9 | 105.4 | 87.7 | 85.4 | 100.2 | 125.56 |
| 14979 | 'H2-Ke6' | 10.25 | 4.91 | 9.69 | 32.9 | 19.8 | 25.04 | 12.5 | 18.31 | 24.94 | 11.57 |
| 14991 | 'H2-M3' | 19.49 | 3.56 | 0 | 13.3 | 2.28 | 12.16 | 0 | 3.6 | 5.57 | 14.87 |
| 14998 | 'H2-DMa' | 3.83 | 8.75 | 9.81 | 28.3 | 5.01 | 26.24 | 1.34 | 11.95 | 3.76 | 11.7 |
| 14999 | 'H2-DMb1' | 0.35 | 0 | 2.52 | 0 | 0 | 7.06 | 6.25 | 5.36 | 0 | 0 |
| 15000 | 'H2-DMb2' | 0 | 0 | 10.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15006 | 'H2-Q1' | 0.09 | 0 | 0.08 | 0.25 | 0.09 | 0.27 | 0.15 | 0.07 | 0.26 | 0.4 |
| 15007 | 'H2-Q10' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 |
| 15013 | 'H2-Q2' | 31.12 | 19.62 | 24.8 | 50.9 | 10.7 | 10.36 | 0.05 | 14.21 | 17.94 | 11.18 |
| 15015 | 'H2-Q4' | 16.97 | 18.92 | 18.7 | 20 | 26.6 | 20.32 | 18.9 | 12.23 | 29.57 | 17.52 |
| 15018 | 'H2-Q7' | 0 | 0 | 0 | 0 | 0 | 0.11 | 0 | 0.95 | 0.03 | 1.18 |
| 15019 | 'H2-Q8' | 2.86 | 0 | 0 | 0 | 0 | 0 | 0 | 0.25 | 0 | 0 |
| 15024 | 'H2-T10' | 0.92 | 0.22 | 0.95 | 2.56 | 1.3 | 0.94 | 0.47 | 1.45 | 3.15 | 0.99 |
| 15033 | 'H2-T18' | 0.04 | 0.05 | 0.07 | 0.3 | 0.01 | 0.13 | 0.02 | 0 | 0.08 | 0.02 |
| 15039 | 'H2-T22' | 6.47 | 8.05 | 13.9 | 38.1 | 31.2 | 0.06 | 12.9 | 4.42 | 12.04 | 23.61 |
| 15040 | 'H2-T23' | 18.86 | 35.6 | 47.3 | 133 | 21.4 | 70.14 | 37.2 | 26.98 | 52.45 | 24.95 |
| 15042 | 'H2-T24' | 0.89 | 4.6 | 3.38 | 0.79 | 1.85 | 2.67 | 3.57 | 1.49 | 1.58 | 0.86 |
| 15064 | 'Mr1' | 0 | 3.94 | 0 | 0 | 0 | 6.03 | 0 | 0 | 1.39 | 1.45 |
| 15077 | 'Hist2h3c1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.04 | 0 |
| 15078 | 'H3f3a' | 144.6 | 191.2 | 111 | 157 | 147 | 125.5 | 174 | 149.5 | 62.64 | 124.33 |
| 15081 | 'H3f3b' | 254.5 | 364.1 | 345 | 508 | 386 | 430.6 | 292 | 341.4 | 411.8 | 349.91 |
| 15107 | 'Hadh' | 8.65 | 0 | 5.84 | 11.7 | 9.8 | 14.25 | 0.03 | 3.18 | 5.43 | 5.15 |
| 15108 | 'Hsd17b10' | 63.95 | 66.07 | 33.9 | 84.9 | 60.3 | 45.35 | 82.6 | 76.86 | 53.97 | 55.43 |
| 15109 | 'Hal' | 0 | 0 | 0 | 1.67 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15114 | 'Hap1' | 225.1 | 282.2 | 282 | 111 | 209 | 98.42 | 226 | 354.8 | 345.6 | 272.72 |
| 15115 | 'Hars' | 89.35 | 87.11 | 102 | 111 | 84.5 | 160.1 | 114 | 87.85 | 109.8 | 107.18 |

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|-------|--------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 15116 | 'Has1' | 0 | 0.11 | 1.06 | 0 | 0.25 | 0.83 | 4.16 | 0.04 | 6.46 | 2.24 |
| 15117 | 'Has2' | 0 | 0 | 0 | 0 | 0 | 0 | 0.39 | 0 | 0 | 0 |
| 15118 | 'Has3' | 0 | 0 | 0.43 | 0.06 | 0 | 0.34 | 0 | 1.03 | 0 | 0 |
| 15122 | 'Hba-a1' | 6.17 | 0 | 19.9 | 79.1 | 7.89 | 12.27 | 7.05 | 35.78 | 16.83 | 8.37 |
| 15129 | 'Hbb-b1' | 0 | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0 | 0.09 |
| 15132 | 'Hbb-bh1' | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15139 | 'Hc' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.34 | 0 | 0.53 |
| 15159 | 'Hccs' | 3.01 | 13.66 | 13.5 | 6.92 | 7.45 | 6.37 | 14 | 5.14 | 9.37 | 7.23 |
| 15160 | 'Serpind1' | 0 | 2.09 | 0 | 0 | 0.85 | 0 | 0 | 0.02 | 0 | 0 |
| 15161 | 'Hcfc1' | 12.88 | 18.48 | 21.8 | 21.6 | 15.2 | 15.13 | 24.3 | 16.71 | 13.83 | 23.75 |
| 15162 | 'Hck' | 3.07 | 0 | 1.95 | 0 | 0 | 4.67 | 5.22 | 2.61 | 0 | 0 |
| 15163 | 'Hcls1' | 0 | 0 | 0 | 0 | 0 | 0.72 | 0 | 0 | 0.26 | 0 |
| 15165 | 'Hcn1' | 0.96 | 2.59 | 0.78 | 1.07 | 0.91 | 0.43 | 0 | 0.65 | 1.36 | 0.38 |
| 15166 | 'Hcn2' | 0.01 | 0 | 0.06 | 0.32 | 0.5 | 0 | 0.76 | 0 | 0.32 | 0.3 |
| 15168 | 'Hcn3' | 7.03 | 6.9 | 5.41 | 3.09 | 2.27 | 0.79 | 2.4 | 3.79 | 3.14 | 0.94 |
| 15170 | 'Ptpn6' | 1.94 | 0 | 0 | 5.28 | 0 | 10.82 | 0 | 0.09 | 0 | 0.11 |
| 15171 | 'Hcrt' | 0.25 | 1.61 | 0 | 0.96 | 0 | 0.95 | 0.09 | 0 | 0 | 0 |
| 15182 | 'Hdac2' | 16.14 | 9.2 | 11.3 | 22.6 | 11.7 | 18.37 | 15.1 | 21.11 | 20.23 | 5.86 |
| 15183 | 'Hdac3' | 85.27 | 106.1 | 104 | 85.8 | 103 | 56.63 | 77.7 | 131 | 104.4 | 87.82 |
| 15184 | 'Hdac5' | 3.07 | 3.55 | 12.7 | 6.54 | 4.74 | 9.79 | 0.8 | 6.99 | 2.69 | 7.23 |
| 15185 | 'Hdac6' | 10.2 | 11.85 | 17.9 | 0.93 | 16.1 | 6.34 | 27.9 | 16.25 | 24.98 | 19.63 |
| 15186 | 'Hdc' | 0 | 0 | 0.73 | 0 | 2.31 | 0 | 0 | 0 | 0 | 0.1 |
| 15191 | 'Hdgf' | 48.73 | 64.39 | 42.7 | 44.4 | 59.4 | 59.01 | 85.1 | 47.02 | 59.4 | 57.49 |
| 15193 | 'Hdglf2' | 24.82 | 55.81 | 50 | 36.4 | 38.6 | 37.96 | 44.9 | 27.19 | 35.96 | 37.28 |
| 15194 | 'Htt' | 1.56 | 1.8 | 0.92 | 0.52 | 1.12 | 3.44 | 2.35 | 1.47 | 3.23 | 0.88 |
| 15199 | 'Hebp1' | 26.53 | 35.73 | 31.6 | 27.9 | 18.2 | 40.33 | 27.9 | 58.87 | 54.58 | 18.26 |
| 15200 | 'Hbegf' | 6.58 | 11.39 | 4.06 | 22.2 | 1.69 | 0.04 | 1.93 | 9.13 | 8.92 | 3.7 |
| 15201 | 'Hells' | 0.18 | 0.79 | 0.31 | 9.23 | 0.3 | 0.31 | 1.74 | 0.37 | 0.51 | 0.11 |
| 15202 | 'Gml2' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15204 | 'Herc2' | 4.41 | 3.66 | 7.56 | 3.77 | 4.63 | 1.33 | 2.15 | 3.07 | 6.35 | 2.26 |
| 15205 | 'Hes1' | 2.63 | 1.51 | 0.61 | 40.5 | 0 | 0.13 | 0.13 | 0 | 0.06 | 1.27 |
| 15207 | 'Hes3' | 0 | 0 | 0 | 0 | 0 | 0 | 5.21 | 0 | 5.17 | 0.89 |
| 15208 | 'Hes5' | 21.93 | 7.28 | 6.46 | 4.81 | 3.67 | 5.23 | 8.64 | 8.62 | 27.98 | 0.03 |
| 15211 | 'Hexa' | 78 | 83.52 | 52.6 | 76.4 | 26.7 | 106.3 | 113 | 70.36 | 106.1 | 73.12 |
| 15212 | 'Hexb' | 20.42 | 47.15 | 21.8 | 4.29 | 47 | 321.1 | 55.9 | 34.37 | 27.33 | 28.54 |
| 15213 | 'Hey1' | 13.44 | 10.03 | 3.35 | 10.9 | 8.36 | 9.13 | 7.44 | 7.57 | 4.78 | 3.01 |
| 15214 | 'Hey2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.16 | 0 |
| 15216 | 'Hfe' | 1.17 | 1.94 | 2 | 13.8 | 4.83 | 1.18 | 1.38 | 3.3 | 1.89 | 1.3 |
| 15220 | 'Foxq1' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15223 | 'Foxj1' | 0.53 | 0.87 | 0.35 | 4.06 | 1.99 | 1.62 | 0.04 | 1.98 | 0 | 1.22 |
| 15227 | 'Foxf1' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15228 | 'Foxg1' | 7.55 | 6.96 | 7.69 | 25.6 | 1.92 | 0 | 0 | 3.27 | 4.03 | 2.88 |
| 15233 | 'Hgd' | 0.26 | 0 | 0 | 0 | 0 | 2.37 | 0 | 0 | 2.05 | 0 |
| 15234 | 'Hgf' | 0 | 0 | 0 | 0 | 0 | 0.94 | 0 | 0 | 0 | 0.29 |
| 15239 | 'Hgs' | 47.49 | 55.9 | 68.6 | 42.6 | 71.8 | 42.93 | 62.5 | 37.74 | 73.5 | 94.96 |
| 15245 | 'Hhip' | 1.03 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.31 | 0.01 | 0 |
| 15247 | 'Mfsd14a' | 35.67 | 46.46 | 21.6 | 11.7 | 34.6 | 32.11 | 21.7 | 38.64 | 44.25 | 26.88 |
| 15248 | 'Hic1' | 0 | 0 | 0 | 0.77 | 0 | 0 | 0 | 0.14 | 0 | 0 |
| 15251 | 'Hif1a' | 11.06 | 19.81 | 19.5 | 19.4 | 12.4 | 3.77 | 13.7 | 18.25 | 6.29 | 13.14 |
| 15254 | 'Hint1' | 582.3 | 594 | 645 | 667 | 472 | 597.1 | 622 | 471.9 | 574.5 | 525.7 |
| 15257 | 'Hipk1' | 3.17 | 2.66 | 4.88 | 22 | 0.3 | 2.7 | 6.51 | 0.89 | 1.95 | 4.11 |
| 15258 | 'Hipk2' | 12.5 | 6.13 | 4.05 | 4.68 | 9.87 | 1.7 | 4.93 | 4.34 | 4.73 | 6.65 |
| 15259 | 'Hipk3' | 1.48 | 2.82 | 2.19 | 6.53 | 3.89 | 1.07 | 1.66 | 1.8 | 0.13 | 1.31 |
| 15260 | 'Hira' | 4.95 | 0.42 | 5.73 | 2.51 | 0.06 | 2.49 | 0.1 | 1.79 | 1.5 | 1.84 |
| 15267 | 'Hist2h2aa1' | 36.69 | 33.84 | 26 | 52 | 73.4 | 67.92 | 38.8 | 26.11 | 11.04 | 31.62 |
| 15270 | 'H2afx' | 76.31 | 66.91 | 49.4 | 44.8 | 37.5 | 45.21 | 68.7 | 69.75 | 53.16 | 69.03 |
| 15273 | 'Hivep2' | 2.39 | 1.58 | 1.51 | 1.56 | 4.26 | 0.71 | 4.78 | 1.73 | 3.69 | 2.42 |
| 15275 | 'Hk1' | 33.74 | 40.47 | 62.6 | 24.1 | 37.2 | 25.52 | 47.3 | 47.68 | 30.59 | 29.59 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 15277 | 'Hk2' | 0.05 | 9.13 | 0.61 | 3.23 | 0.95 | 2.66 | 0.02 | 1.24 | 0.03 | 1.41 |
| 15278 | 'Tfb2m' | 16.55 | 12.7 | 8.44 | 21.3 | 18 | 7.53 | 13.4 | 17.42 | 11.49 | 16.23 |
| 15288 | 'Hmbs' | 41.95 | 24.41 | 10.7 | 30 | 40.6 | 29.42 | 13.6 | 26.62 | 36.74 | 22.59 |
| 15289 | 'Hmgb1' | 106.3 | 124 | 131 | 213 | 143 | 140.8 | 127 | 149.7 | 133.7 | 135.73 |
| 15312 | 'Hmgn1' | 148.5 | 120.3 | 74.7 | 118 | 104 | 81.42 | 85.4 | 91.42 | 96.13 | 98.67 |
| 15331 | 'Hmgn2' | 239 | 343.9 | 236 | 588 | 318 | 284.2 | 168 | 251.3 | 289 | 298.51 |
| 15353 | 'Hmg20b' | 2.08 | 1.28 | 3.38 | 3.84 | 4.22 | 3.63 | 1.73 | 1.94 | 2.66 | 2.58 |
| 15354 | 'Hmgb3' | 39.54 | 56.77 | 90.9 | 110 | 26.7 | 31.24 | 50.1 | 81.63 | 14.91 | 30.43 |
| 15356 | 'Hmgcl' | 39.99 | 45.81 | 33.6 | 26.1 | 48.5 | 54.02 | 87.9 | 47.37 | 62.52 | 43.53 |
| 15357 | 'Hmgcr' | 18.19 | 17.35 | 19.8 | 16.7 | 12.9 | 7.43 | 16.5 | 24.97 | 25.71 | 32.33 |
| 15360 | 'Hmgcs2' | 4.74 | 1.69 | 0 | 0 | 0 | 0 | 2.51 | 0 | 2.99 | 1.8 |
| 15361 | 'Hmga1' | 64.81 | 19.48 | 59.6 | 42 | 38.3 | 47.51 | 19.7 | 49.32 | 66.38 | 65.44 |
| 15364 | 'Hmga2' | 0.03 | 0.27 | 0.09 | 0.13 | 0.15 | 0.06 | 0.22 | 0.09 | 0.09 | 0.11 |
| 15366 | 'Hmmr' | 0.36 | 0.32 | 0.45 | 0.56 | 0.7 | 0.33 | 0.55 | 0.35 | 0.33 | 0.3 |
| 15368 | 'Hmox1' | 6.53 | 0.34 | 3.95 | 18.6 | 0 | 0 | 0 | 0 | 1.87 | 3.75 |
| 15369 | 'Hmox2' | 135.3 | 111.7 | 126 | 130 | 149 | 144.2 | 146 | 81.63 | 139.8 | 109.54 |
| 15370 | 'Nr4a1' | 5.11 | 51.75 | 38.4 | 114 | 2.35 | 9.67 | 19.4 | 7.86 | 10.11 | 25.35 |
| 15371 | 'Hmx1' | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15372 | 'Hmx2' | 4.48 | 1.73 | 7.26 | 0.21 | 0 | 5.44 | 0 | 5.93 | 1.61 | 1.13 |
| 15373 | 'Hmx3' | 0.03 | 0.09 | 10.8 | 0.12 | 0 | 0 | 0 | 1.46 | 0 | 0.19 |
| 15374 | 'Jpt1' | 161 | 162.7 | 151 | 144 | 148 | 162.7 | 125 | 188.6 | 161.1 | 185.81 |
| 15379 | 'Onecut1' | 0 | 0 | 0 | 0 | 0.79 | 4.88 | 0 | 0 | 0.02 | 2.96 |
| 15381 | 'Hnrnpc' | 175.5 | 173.7 | 114 | 129 | 89.4 | 170.3 | 138 | 126.1 | 109.5 | 146.9 |
| 15382 | 'Hnrnpa1' | 108.4 | 178.8 | 143 | 159 | 88.4 | 129 | 104 | 138.9 | 136.3 | 121.14 |
| 15384 | 'Hnrnpab' | 8.36 | 7.18 | 5.27 | 16.5 | 7.67 | 6.94 | 15.8 | 12.84 | 13.58 | 7.39 |
| 15387 | 'Hnrnpk' | 361.5 | 392.8 | 407 | 457 | 371 | 377.2 | 333 | 439 | 352.8 | 361.59 |
| 15388 | 'Hnrnpl' | 6.9 | 8.46 | 7.34 | 12.4 | 10.3 | 6.2 | 4.59 | 5.37 | 16.54 | 9.39 |
| 15400 | 'Hoxa3' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 15425 | 'Hoxc6' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15431 | 'Hoxd11' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 15436 | 'Hoxd4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.33 | 0 |
| 15441 | 'Hp1bp3' | 60.99 | 69.41 | 54.2 | 61.5 | 71.4 | 58.37 | 78.9 | 51.03 | 55.83 | 66.99 |
| 15442 | 'Hpse' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0 | 0 |
| 15444 | 'Hpca' | 22.93 | 14.12 | 62.7 | 20 | 27.2 | 18.7 | 20 | 82.41 | 14.23 | 1.95 |
| 15446 | 'Hpgd' | 1.16 | 8.61 | 1.78 | 0 | 1.82 | 6.48 | 0 | 1.08 | 1.71 | 0 |
| 15450 | 'Lipc' | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 15452 | 'Hprt' | 414.8 | 498.6 | 348 | 432 | 408 | 550.1 | 313 | 474.4 | 392.6 | 413.83 |
| 15458 | 'Hpx' | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15460 | 'Hr' | 1.19 | 0.01 | 0.5 | 0 | 0 | 0.03 | 0 | 2.13 | 0 | 0 |
| 15461 | 'Hras' | 36.04 | 11.88 | 32.8 | 42.9 | 35.4 | 70.54 | 43 | 20.31 | 18.62 | 17.11 |
| 15463 | 'Agfg1' | 1.79 | 1.79 | 0 | 0.08 | 1.08 | 0.08 | 2.55 | 0.08 | 2.87 | 2.46 |
| 15464 | 'Hrc' | 0.02 | 0 | 0.12 | 0.05 | 0.02 | 0.02 | 0.04 | 0 | 0.02 | 0 |
| 15465 | 'Hrh1' | 10.67 | 20.02 | 11.8 | 10.4 | 8.39 | 6.6 | 23.6 | 16.22 | 18.84 | 10.71 |
| 15466 | 'Hrh2' | 0 | 0 | 0 | 3.04 | 0.35 | 0 | 0 | 2.17 | 1.56 | 2.79 |
| 15467 | 'Eif2ak1' | 6.86 | 23.25 | 28.9 | 9.79 | 21.6 | 8.88 | 19.4 | 26.39 | 21.8 | 9.68 |
| 15468 | 'Prmt2' | 339 | 386.1 | 351 | 365 | 421 | 525.5 | 307 | 404.8 | 520.8 | 549.6 |
| 15469 | 'Prmt1' | 28.05 | 24.69 | 29.8 | 33.8 | 19.7 | 16.79 | 30.3 | 28.53 | 60.15 | 35.91 |
| 15473 | 'Rida' | 58.15 | 41.71 | 48.9 | 69.8 | 49.9 | 37.91 | 58.7 | 41.64 | 60.57 | 48.75 |
| 15476 | 'Hs3st1' | 5.14 | 13.48 | 5.26 | 0 | 26.1 | 47.48 | 2.75 | 37.16 | 5.01 | 13.14 |
| 15478 | 'Hs3st3a1' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 |
| 15481 | 'Hspa8' | 2342 | 2151 | 1859 | 1956 | 1452 | 1653 | 1935 | 2135 | 2266 | 2498.84 |
| 15482 | 'Hspa1l' | 1.49 | 1.75 | 3.24 | 0 | 0 | 0 | 4.54 | 0 | 2.3 | 0 |
| 15483 | 'Hsd11b1' | 10.67 | 5.47 | 0 | 0 | 0.04 | 0 | 0 | 1.61 | 0 | 0 |
| 15485 | 'Hsd17b1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.63 | 0 |
| 15486 | 'Hsd17b2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.32 | 0 | 0 |
| 15488 | 'Hsd17b4' | 24.48 | 22.36 | 13.3 | 9.46 | 11.5 | 12.83 | 20.1 | 20.91 | 31.58 | 11.29 |
| 15490 | 'Hsd17b7' | 1.66 | 0.76 | 2.18 | 3.22 | 2.57 | 0 | 8.29 | 4.17 | 0.63 | 1.47 |
| 15494 | 'Hsd3b3' | 0 | 0.23 | 0.03 | 0.03 | 0.05 | 0 | 0.21 | 1.21 | 0.01 | 0.03 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 15496 | 'Hsd3b5' | 0 | 0 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 |
| 15499 | 'Hsf1' | 40.68 | 34.99 | 28.5 | 58.5 | 41.1 | 56.24 | 44.8 | 31.39 | 50.29 | 37.19 |
| 15500 | 'Hsf2' | 22.45 | 33.84 | 18.5 | 39.4 | 30.2 | 11.92 | 8.45 | 24.64 | 18.89 | 23.8 |
| 15502 | 'Dnaja1' | 194.4 | 221.2 | 156 | 114 | 147 | 150.4 | 144 | 185.5 | 181.5 | 174.81 |
| 15504 | 'Dnab3' | 5.76 | 4.4 | 3.48 | 14.1 | 9.41 | 10.37 | 7.99 | 7.69 | 6.93 | 2.7 |
| 15505 | 'Hsph1' | 181.7 | 172.5 | 70.5 | 114 | 87.6 | 62.11 | 177 | 133.2 | 117 | 170.43 |
| 15507 | 'Hspb1' | 18.52 | 0 | 5.5 | 12.8 | 0.17 | 37.5 | 0.46 | 0.14 | 17.15 | 33.99 |
| 15510 | 'Hspd1' | 212.4 | 172.9 | 130 | 190 | 144 | 209.5 | 134 | 165.4 | 170.8 | 197.9 |
| 15511 | 'Hspa1b' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0.25 | 0.02 | 0.63 |
| 15512 | 'Hspa2' | 0.6 | 8.05 | 2.2 | 33.7 | 9.7 | 15.94 | 4.53 | 3.54 | 2.57 | 10.23 |
| 15516 | 'Hsp90ab1' | 1054 | 1033 | 742 | 733 | 942 | 1090 | 917 | 890 | 996 | 1153.26 |
| 15519 | 'Hsp90aa1' | 866.3 | 825.4 | 710 | 855 | 498 | 719.5 | 568 | 530.7 | 482 | 674.8 |
| 15525 | 'Hspa4' | 14.51 | 18.81 | 14.2 | 17.6 | 11.5 | 19.97 | 16 | 19.32 | 21.71 | 8.02 |
| 15526 | 'Hspa9' | 72.89 | 80.54 | 102 | 84.1 | 65.1 | 95.98 | 102 | 107.6 | 94.96 | 103 |
| 15528 | 'Hspe1' | 300.7 | 238.7 | 299 | 329 | 185 | 329.9 | 250 | 238.8 | 308.5 | 299.68 |
| 15529 | 'Sdc2' | 32.34 | 65.33 | 46.7 | 52.5 | 24.2 | 22.32 | 47 | 35.49 | 25.55 | 44.7 |
| 15530 | 'Hspg2' | 0 | 0.06 | 0.75 | 0 | 0 | 0 | 1.18 | 0 | 0 | 0.01 |
| 15531 | 'Ndst1' | 4.08 | 1.33 | 4.74 | 8.72 | 1.88 | 0.86 | 4.68 | 1.96 | 3.21 | 4.9 |
| 15547 | 'Trmt2a' | 51.16 | 34.17 | 41.4 | 47.2 | 40.6 | 58.64 | 26 | 62.46 | 32.2 | 36.54 |
| 15550 | 'Htr1a' | 3.4 | 41.4 | 10.7 | 0 | 72.9 | 2.2 | 57.2 | 27.4 | 32.1 | 14.1 |
| 15551 | 'Htr1b' | 40.6 | 1.3 | 51.9 | 0 | 79.2 | 44.2 | 41.1 | 40.1 | 87.5 | 34.4 |
| 15552 | 'Htr1d' | 0 | 0 | 0.2 | 0 | 29 | 0 | 0 | 0 | 0 | 18.4 |
| 15557 | 'Htr1f' | 54.4 | 33.2 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15558 | 'Htr2a' | 39.8 | 0.3 | 42.3 | 0 | 9.7 | 0 | 0 | 0 | 16.6 | 38 |
| 15559 | 'Htr2b' | 0 | 4.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15560 | 'Htr2c' | 53.8 | 39.4 | 94.8 | 0 | 164 | 16.7 | 77.1 | 25.5 | 46.7 | 34.5 |
| 15561 | 'Htr3a' | 0 | 0 | 98.3 | 0 | 88.5 | 0 | 3.4 | 0 | 0 | 0 |
| 15562 | 'Htr4' | 0.1 | 9.8 | 54 | 0 | 4.9 | 0 | 3.5 | 9.3 | 0 | 0 |
| 15563 | 'Htr5a' | 0 | 1.4 | 27 | 0 | 12 | 0.3 | 24.1 | 8.6 | 2.2 | 0.1 |
| 15564 | 'Htr5b' | 18.4 | 0 | 0 | 0 | 116 | 109 | 45.4 | 0.2 | 0 | 24.5 |
| 15565 | 'Htr6' | 0 | 0 | 0 | 0 | 12.1 | 0 | 7 | 0 | 39.8 | 0 |
| 15566 | 'Htr7' | 151.1 | 132.9 | 112 | 0 | 145 | 98.7 | 1.9 | 106.4 | 34 | 75.8 |
| 15567 | 'Slc6a4' | 0 | 1.94 | 0 | 0.04 | 0 | 0 | 0 | 0.09 | 0 | 0 |
| 15568 | 'Elavl1' | 4.22 | 2.74 | 10.4 | 3.36 | 3.33 | 1.91 | 2.03 | 2.41 | 2.22 | 2.8 |
| 15569 | 'Elavl2' | 31.91 | 21.59 | 41.8 | 12.5 | 20.8 | 12.64 | 40.6 | 15.93 | 45.28 | 25.9 |
| 15571 | 'Elavl3' | 29.3 | 12.55 | 14.1 | 18.7 | 38 | 15.82 | 14.3 | 13.46 | 20.05 | 18.81 |
| 15572 | 'Elavl4' | 61.74 | 51.92 | 29.7 | 73.8 | 42.4 | 67.34 | 41.3 | 58.47 | 54.66 | 42.35 |
| 15574 | 'Hus1' | 4.19 | 1.14 | 0.02 | 4.39 | 0.1 | 6.57 | 4.56 | 0 | 0.95 | 0 |
| 15586 | 'Hyal1' | 6.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.15 | 0.02 |
| 15587 | 'Hyal2' | 17.57 | 17.84 | 3.92 | 0 | 13 | 17.02 | 29 | 23.83 | 20.41 | 19.29 |
| 15874 | 'lapp' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.59 | 0 | 0 |
| 15893 | 'lca1' | 59.91 | 50.96 | 55.5 | 62 | 61.2 | 39.53 | 60.7 | 60.62 | 62.25 | 64.21 |
| 15894 | 'lcam1' | 0 | 0 | 0 | 0 | 0 | 6.16 | 0 | 0 | 0 | 0 |
| 15896 | 'lcam2' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15898 | 'lcam5' | 6.74 | 10.41 | 4.68 | 16.5 | 8.33 | 0.17 | 7 | 7.44 | 3.29 | 4.68 |
| 15900 | 'lrf8' | 0.08 | 0 | 0 | 5.14 | 0 | 22.15 | 0 | 0 | 0 | 0.01 |
| 15901 | 'ld1' | 5.57 | 5.57 | 4.07 | 40.3 | 3.56 | 0.05 | 0 | 0.76 | 0 | 0 |
| 15902 | 'ld2' | 56.95 | 119.4 | 72.8 | 189 | 27.3 | 191 | 48.5 | 37.56 | 29.13 | 51.62 |
| 15903 | 'ld3' | 8.78 | 36.07 | 2.78 | 68.3 | 22 | 30.14 | 0 | 6.58 | 12.41 | 0.05 |
| 15904 | 'ld4' | 7.93 | 2.8 | 10.9 | 21.7 | 7.51 | 17.8 | 11 | 7.92 | 5.87 | 5.54 |
| 15925 | 'lde' | 6.86 | 8.5 | 11.6 | 5.56 | 3.08 | 6.37 | 19.7 | 5.36 | 5.22 | 11.75 |
| 15926 | 'ldh1' | 51.48 | 40.7 | 46 | 51.5 | 49.8 | 20.8 | 23.3 | 47.99 | 26.73 | 47.84 |
| 15929 | 'ldh3g' | 296.7 | 264 | 285 | 321 | 306 | 506.2 | 315 | 268.2 | 303.1 | 293.4 |
| 15930 | 'ldo1' | 1.63 | 4.26 | 3.1 | 0 | 0 | 17.36 | 3 | 2.73 | 8.25 | 5.03 |
| 15931 | 'lds' | 1.87 | 3.89 | 2.76 | 5.05 | 5.61 | 7.26 | 12.3 | 5.43 | 4.7 | 3.07 |
| 15932 | 'ldua' | 8.93 | 11.59 | 19 | 19.4 | 17 | 13.15 | 20.8 | 13.04 | 15.85 | 10.8 |
| 15936 | 'ler2' | 1.64 | 40.98 | 42.3 | 120 | 0.79 | 14.6 | 32.7 | 4.21 | 0 | 5.28 |
| 15937 | 'ler3' | 3.13 | 26.46 | 29.8 | 28.8 | 17.5 | 20.11 | 19.1 | 11.96 | 7.81 | 6.46 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 15939 | 'ler5' | 0.78 | 0.81 | 0.12 | 0.89 | 1.31 | 4.26 | 8.08 | 0.94 | 0.01 | 0.41 |
| 15944 | 'lrgm1' | 11.46 | 7.54 | 13.5 | 24.2 | 0.04 | 13.47 | 27.1 | 6.02 | 13.77 | 0.91 |
| 15945 | 'Cxcl10' | 0 | 0 | 0.04 | 13.3 | 5.7 | 0 | 0 | 0 | 0 | 0 |
| 15950 | 'lfi203' | 0.01 | 0 | 0.01 | 0 | 0 | 0.03 | 0.01 | 0 | 0 | 0.64 |
| 15951 | 'lfi204' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.07 |
| 15953 | 'lfi47' | 0 | 0 | 0 | 13 | 0.6 | 0 | 0 | 0 | 0 | 0 |
| 15957 | 'lfit1' | 2.82 | 0 | 17.3 | 29.9 | 0 | 0 | 0 | 0 | 7.1 | 4.59 |
| 15958 | 'lfit2' | 0.72 | 1.71 | 1.52 | 2.71 | 1.4 | 0.24 | 7.95 | 0 | 2.47 | 2.91 |
| 15959 | 'lfit3' | 8.3 | 2.97 | 35 | 134 | 6.27 | 11.05 | 10.1 | 2.18 | 2.32 | 4.25 |
| 15975 | 'lfnar1' | 3.47 | 11.01 | 8.38 | 14 | 7.62 | 6.2 | 7.58 | 9.25 | 17.8 | 11.63 |
| 15976 | 'lfnar2' | 20.64 | 32.29 | 9.77 | 17.5 | 12.4 | 22.71 | 20.1 | 12.35 | 24.26 | 31.61 |
| 15979 | 'lfngr1' | 10.37 | 9.11 | 9.35 | 13.7 | 6.1 | 10.07 | 16.6 | 10.71 | 7.19 | 11.79 |
| 15980 | 'lfngr2' | 17.84 | 26.93 | 20.9 | 26.2 | 14.4 | 8.54 | 4.19 | 27.31 | 20.12 | 16.52 |
| 15982 | 'lfrd1' | 11.41 | 23.61 | 9.71 | 32 | 13.2 | 0.88 | 6.79 | 4.19 | 4.56 | 0.5 |
| 15983 | 'lfrd2' | 3.66 | 1.77 | 1.44 | 5.08 | 4.51 | 3.16 | 6.03 | 3.33 | 6.49 | 6.06 |
| 16000 | 'lgf1' | 0.43 | 0 | 0.44 | 0 | 0 | 1.82 | 0 | 0.71 | 0 | 0.25 |
| 16001 | 'lgf1r' | 0.06 | 2.34 | 1.01 | 0.91 | 3.07 | 0.95 | 0.69 | 0.26 | 1.31 | 2.48 |
| 16002 | 'lgf2' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16004 | 'lgf2r' | 1.6 | 1.63 | 3.38 | 4.16 | 2.23 | 1.4 | 0.17 | 0.63 | 0.45 | 2.3 |
| 16006 | 'lgfbp1' | 0 | 0 | 0 | 1.44 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16007 | 'Cyr61' | 2.54 | 38.51 | 6.17 | 86.6 | 3.43 | 9.64 | 13 | 2.97 | 0.08 | 0.06 |
| 16008 | 'lgfbp2' | 0 | 0 | 3.34 | 0 | 0.05 | 0 | 0 | 0 | 2.88 | 0 |
| 16009 | 'lgfbp3' | 3.47 | 2.37 | 4.84 | 0 | 3.21 | 3.92 | 5.55 | 3 | 0.05 | 4.47 |
| 16010 | 'lgfbp4' | 0.02 | 1.56 | 7.88 | 0 | 2.9 | 0 | 0 | 2.17 | 0 | 0 |
| 16011 | 'lgfbp5' | 2.34 | 0.56 | 12.6 | 11.5 | 7.73 | 6.35 | 0.8 | 2.59 | 5.23 | 1.66 |
| 16012 | 'lgfbp6' | 0 | 3.19 | 0 | 0 | 0 | 0.11 | 0 | 0 | 1.26 | 0 |
| 16068 | 'lI18bp' | 2.65 | 1.39 | 7.7 | 0 | 4.75 | 0 | 6.57 | 2.33 | 17.6 | 12.22 |
| 16069 | 'Jchain' | 0.98 | 0.02 | 0.02 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 16145 | 'lgtp' | 2.59 | 0 | 0.15 | 31.3 | 4.14 | 0 | 0.02 | 0 | 0 | 0 |
| 16149 | 'Cd74' | 0.07 | 0 | 0.04 | 0 | 0 | 1.95 | 0 | 0.69 | 0 | 3.19 |
| 16150 | 'lkbkb' | 15.21 | 7.07 | 5.45 | 3.83 | 7.16 | 8.03 | 16.4 | 8.24 | 7.24 | 16.46 |
| 16151 | 'lkbkg' | 4.09 | 8.03 | 6.65 | 0.31 | 4.26 | 2.8 | 9.02 | 7.1 | 6.43 | 8.89 |
| 16154 | 'lI10ra' | 0 | 2.15 | 0 | 3.69 | 0.9 | 8.06 | 0 | 0 | 0 | 0 |
| 16155 | 'lI10rb' | 8.68 | 0 | 0.03 | 16.7 | 1.95 | 1.36 | 4.27 | 2.39 | 3.89 | 0.05 |
| 16156 | 'lI11' | 0 | 1.88 | 0.04 | 1.35 | 0.04 | 0 | 0.04 | 0 | 0 | 0 |
| 16157 | 'lI11ra1' | 8.91 | 23.14 | 17.1 | 30.7 | 34.3 | 51.79 | 11.2 | 0.72 | 22.31 | 53.9 |
| 16158 | 'lI11ra2' | 0 | 0.14 | 0.05 | 0.34 | 0.26 | 0 | 0 | 0.64 | 0.09 | 0 |
| 16159 | 'lI12a' | 0 | 2.82 | 0 | 0 | 4.97 | 0 | 0 | 0 | 0 | 0 |
| 16162 | 'lI12rb2' | 0.7 | 0 | 1.15 | 5.78 | 0 | 0 | 0 | 0 | 0.5 | 0.34 |
| 16164 | 'lI13ra1' | 7.69 | 13.78 | 4.06 | 12.6 | 5.22 | 3.53 | 7.72 | 5.06 | 6.42 | 7.55 |
| 16168 | 'lI15' | 0 | 0 | 0 | 0 | 0 | 0 | 0.57 | 0 | 0 | 0 |
| 16169 | 'lI15ra' | 4.36 | 6.05 | 2.86 | 4.57 | 0.13 | 1.6 | 3.82 | 3.88 | 2.25 | 9.47 |
| 16170 | 'lI16' | 0 | 0.35 | 0 | 0 | 0 | 7.73 | 0 | 0.97 | 0 | 0 |
| 16172 | 'lI17ra' | 0 | 0 | 0 | 0 | 0 | 1.51 | 0.01 | 0 | 5.92 | 4.38 |
| 16173 | 'lI18' | 8.62 | 25.58 | 23.9 | 5.33 | 18.9 | 26.16 | 35.9 | 10.86 | 17.44 | 35.64 |
| 16175 | 'lI1a' | 7.18 | 0.12 | 0 | 13.9 | 6.87 | 8.94 | 0 | 0 | 0.22 | 0 |
| 16177 | 'lI1r1' | 0.92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16178 | 'lI1r2' | 0 | 3.97 | 4.52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16179 | 'lI1rak1' | 14.2 | 7.8 | 8.2 | 11.4 | 8.2 | 9.53 | 10 | 3.35 | 11.07 | 9.6 |
| 16180 | 'lI1rap' | 8.89 | 5.11 | 6.23 | 15 | 9.47 | 3.42 | 5.91 | 14.16 | 2.65 | 4.66 |
| 16181 | 'lI1rn' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16184 | 'lI2ra' | 0.08 | 0.01 | 0.06 | 0.04 | 0.1 | 0.1 | 0.06 | 0.02 | 0.1 | 0.05 |
| 16188 | 'lI3ra' | 0 | 1.8 | 0 | 5.14 | 2.62 | 0 | 0.15 | 1.72 | 2.59 | 1.04 |
| 16190 | 'lI4ra' | 0.54 | 3.37 | 2.59 | 0.56 | 0 | 3.98 | 0 | 0 | 0.01 | 4.27 |
| 16192 | 'lI5ra' | 0.13 | 0.07 | 0.21 | 0.25 | 0.33 | 0.11 | 0.24 | 0.08 | 0.23 | 0.08 |
| 16194 | 'lI6ra' | 0 | 1.03 | 0 | 0 | 0.14 | 2.33 | 0 | 0 | 0 | 2.14 |
| 16195 | 'lI6st' | 7.1 | 7.29 | 4.06 | 0 | 3.09 | 4.82 | 5.26 | 1.44 | 7.77 | 2.79 |
| 16196 | 'lI7' | 0 | 0 | 0 | 0 | 3.73 | 0 | 0.02 | 0 | 0 | 1.64 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 16197 | 'Ii7r' | 0.46 | 0.12 | 0 | 0 | 0 | 0.58 | 0 | 0 | 0.03 | 0 |
| 16199 | 'Ii9r' | 0 | 0 | 0.03 | 0.01 | 0 | 0.01 | 0.01 | 0.02 | 0.03 | 0.01 |
| 16201 | 'Ilf3' | 55.02 | 64.61 | 42 | 23.1 | 53.5 | 42.61 | 62.4 | 48.85 | 64.3 | 60.37 |
| 16202 | 'Ilk' | 24.14 | 25.4 | 38.7 | 34 | 36 | 22.5 | 41.3 | 30.92 | 32.77 | 16.21 |
| 16205 | 'Gimap1' | 1.41 | 1.51 | 1.72 | 2.35 | 2.64 | 1.2 | 1.99 | 1.68 | 1.1 | 0.89 |
| 16206 | 'Lrig1' | 1.16 | 3.43 | 0.01 | 3.43 | 2.18 | 2.79 | 1.26 | 4.05 | 2.02 | 1.57 |
| 16210 | 'Impact' | 398.1 | 451.6 | 490 | 307 | 308 | 202.6 | 411 | 444.3 | 499.9 | 481.41 |
| 16211 | 'Kpnb1' | 9.94 | 10.78 | 9.57 | 16.4 | 10.2 | 14.71 | 7.63 | 9.3 | 10.59 | 8.09 |
| 16319 | 'Incenp' | 3.84 | 1.31 | 4.32 | 8.56 | 1.38 | 6.94 | 6.4 | 0.59 | 8.95 | 0 |
| 16322 | 'Inha' | 2.44 | 12.46 | 8.53 | 16.3 | 17.9 | 6.97 | 9.51 | 5.17 | 3.63 | 11.89 |
| 16323 | 'Inhba' | 2.89 | 0.84 | 0.53 | 1.24 | 0 | 0 | 0.22 | 0.17 | 0 | 0 |
| 16324 | 'Inhbb' | 0 | 0 | 0.17 | 0 | 0 | 0 | 0 | 0 | 1.17 | 0 |
| 16325 | 'Inhbc' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.41 |
| 16326 | 'Inhbe' | 0 | 0.04 | 0 | 0 | 0 | 0.24 | 0 | 0 | 0 | 0 |
| 16328 | 'Cep250' | 1.37 | 1.69 | 4.81 | 3.06 | 2.59 | 0.33 | 1.35 | 3.53 | 4.72 | 4.37 |
| 16329 | 'Inpp1' | 26.93 | 25.77 | 26.9 | 9.14 | 22 | 32.89 | 15.6 | 24.97 | 25.33 | 14.89 |
| 16330 | 'Inpp5b' | 9.38 | 6.99 | 11.6 | 12.3 | 1.69 | 1.99 | 4.5 | 6.82 | 3.93 | 14.6 |
| 16331 | 'Inpp5d' | 0 | 0 | 2.05 | 0 | 0 | 1.24 | 0 | 0 | 0 | 0 |
| 16332 | 'Inppl1' | 0.15 | 0 | 0.73 | 0.91 | 0 | 0 | 0 | 1.1 | 0 | 0.49 |
| 16334 | 'Ins2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74 | 0 | 0 |
| 16336 | 'Insl3' | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 0 | 0 | 0 |
| 16337 | 'Insr' | 1.52 | 9.53 | 3.94 | 2.56 | 0.75 | 3.01 | 8.92 | 1.94 | 1.84 | 1.16 |
| 16341 | 'Eif3e' | 66.76 | 77.6 | 45.8 | 90.8 | 42.1 | 86.18 | 38.2 | 82.15 | 53.7 | 74.74 |
| 16348 | 'Invs' | 0.91 | 0.8 | 0.75 | 0.87 | 2.3 | 0.16 | 0 | 0.55 | 1.12 | 5.46 |
| 16351 | 'lpp' | 2.91 | 3.22 | 6.31 | 10.5 | 1.08 | 19.93 | 10 | 4.64 | 7.89 | 15.29 |
| 16362 | 'lrf1' | 12.94 | 6.78 | 15.5 | 32.1 | 0 | 4.57 | 4.62 | 3.13 | 8.24 | 5.1 |
| 16363 | 'lrf2' | 6.46 | 4.3 | 2.61 | 9.78 | 8.65 | 0.98 | 2.37 | 6.68 | 7.91 | 3.11 |
| 16367 | 'lrs1' | 0.23 | 0.25 | 2.08 | 0.79 | 0.1 | 0.62 | 0 | 0.06 | 0 | 0.88 |
| 16370 | 'lrs4' | 20.45 | 17.07 | 17.1 | 34.2 | 3.89 | 1.32 | 18.8 | 20.96 | 15.23 | 23.55 |
| 16373 | 'lrx3' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16391 | 'lrf9' | 1.16 | 6.62 | 14.5 | 4.24 | 5.13 | 7.09 | 11.1 | 4.02 | 3.19 | 8.82 |
| 16392 | 'lsl1' | 24.99 | 22.03 | 28.5 | 49.1 | 28.2 | 5.16 | 3.56 | 7.47 | 27.56 | 2.96 |
| 16396 | 'ltch' | 4.29 | 2.13 | 7.04 | 0.56 | 4.14 | 3.46 | 1.01 | 4.97 | 9.45 | 3.33 |
| 16398 | 'ltga2' | 0 | 0 | 0.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16399 | 'ltga2b' | 1.11 | 0.36 | 0.94 | 4.53 | 2.01 | 4.58 | 0.65 | 0.68 | 0.48 | 1.93 |
| 16400 | 'ltga3' | 3.11 | 11.43 | 9.07 | 14 | 8.54 | 6.33 | 6.45 | 9.35 | 26.69 | 17.42 |
| 16401 | 'ltga4' | 0.18 | 0.3 | 0.41 | 0.4 | 0.38 | 0.21 | 0.23 | 0.79 | 0.29 | 0.32 |
| 16402 | 'ltga5' | 0 | 0.16 | 0.01 | 0.01 | 0.07 | 0.14 | 0 | 0 | 0 | 0.01 |
| 16403 | 'ltga6' | 0.14 | 0.6 | 0.92 | 3.85 | 0.84 | 0.03 | 0 | 0.16 | 0.1 | 0.83 |
| 16404 | 'ltga7' | 0.02 | 0.01 | 0.04 | 0 | 0.14 | 0.02 | 4 | 0.01 | 0.86 | 1.1 |
| 16409 | 'ltgam' | 0 | 0 | 1.23 | 0 | 0 | 0.23 | 0 | 0 | 0 | 1.32 |
| 16410 | 'ltgav' | 0.07 | 0.43 | 3.3 | 1.86 | 0.48 | 0.02 | 1.1 | 0.09 | 0.15 | 0 |
| 16412 | 'ltgb1' | 12.35 | 2.48 | 7.54 | 10.7 | 14.5 | 3.01 | 6.86 | 6.96 | 7.39 | 10.39 |
| 16413 | 'ltgb1bp1' | 33.64 | 21.72 | 20.6 | 82.3 | 37.1 | 29.83 | 78.4 | 32.23 | 16.9 | 21.76 |
| 16414 | 'ltgb2' | 0 | 0 | 0 | 0 | 0 | 5.89 | 0 | 0 | 0 | 0.08 |
| 16416 | 'ltgb3' | 0 | 0 | 1.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16418 | 'Eif6' | 96.33 | 85.53 | 77.8 | 91.4 | 86.2 | 114.6 | 78.8 | 76.07 | 79.54 | 78 |
| 16419 | 'ltgb5' | 20.01 | 5.2 | 10.1 | 0 | 30.8 | 58.03 | 80.8 | 101.2 | 50.03 | 40.01 |
| 16420 | 'ltgb6' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 16421 | 'ltgb7' | 0 | 0 | 0 | 0 | 0 | 0 | 0.49 | 0 | 0 | 0 |
| 16423 | 'Cd47' | 135.5 | 152.9 | 120 | 72.6 | 114 | 103.4 | 154 | 118.1 | 148.3 | 129.94 |
| 16425 | 'ltih2' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16426 | 'ltih3' | 151.8 | 154.1 | 44.4 | 135 | 13 | 148.7 | 41 | 43.26 | 91.23 | 48.84 |
| 16428 | 'ltk' | 0 | 0 | 1.18 | 5.43 | 0 | 0.04 | 0 | 0 | 0 | 0 |
| 16430 | 'Stt3a' | 16.22 | 20.38 | 22.1 | 38.5 | 24.7 | 7.93 | 18 | 18.1 | 27.34 | 20.62 |
| 16431 | 'ltm2a' | 12.24 | 1.07 | 7.52 | 27.8 | 11 | 18.37 | 36.1 | 11.68 | 6.37 | 7.49 |
| 16432 | 'ltm2b' | 698.3 | 918.6 | 742 | 864 | 884 | 961.6 | 742 | 792.9 | 736.2 | 951.29 |
| 16433 | 'Cuzd1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 |

| | | | | | | | | | | | |
|-------|----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 16434 | 'ltpa' | 92.05 | 60.99 | 90.5 | 76.9 | 72.6 | 73.06 | 89.8 | 71.82 | 61.7 | 101.6 |
| 16438 | 'ltp1' | 5.5 | 5.55 | 6.05 | 6.88 | 3.3 | 1.84 | 1.9 | 0.26 | 2.39 | 2.11 |
| 16439 | 'ltp2' | 0.28 | 1.45 | 0.82 | 2.01 | 0 | 0.59 | 1.63 | 0.59 | 1.48 | 0.03 |
| 16440 | 'ltp3' | 0 | 0 | 0 | 1.33 | 0 | 0 | 0 | 0 | 0 | 0.18 |
| 16443 | 'ltsn1' | 8.14 | 6.35 | 4.2 | 3.03 | 3.72 | 3.15 | 4.05 | 3.62 | 5.84 | 3.14 |
| 16449 | 'Jag1' | 0.06 | 0.31 | 2.1 | 1.96 | 0.14 | 0 | 0.48 | 0.08 | 0.24 | 0 |
| 16450 | 'Jag2' | 3 | 8.12 | 14 | 12.4 | 2.37 | 7.96 | 8.25 | 3.05 | 5.91 | 0.02 |
| 16451 | 'Jak1' | 27.41 | 25.94 | 31.3 | 27.4 | 17.9 | 12.9 | 55.2 | 23.74 | 22.37 | 45.33 |
| 16452 | 'Jak2' | 0.9 | 3.1 | 6.03 | 10.2 | 0.21 | 5.2 | 3.76 | 1.34 | 1.92 | 1.99 |
| 16453 | 'Jak3' | 1 | 1.7 | 0 | 0 | 0.96 | 0 | 0.01 | 0.64 | 0 | 0.05 |
| 16456 | 'F11r' | 0.46 | 0 | 0.04 | 0 | 35.2 | 23.24 | 0.02 | 0 | 0 | 5.69 |
| 16467 | 'Atcay' | 85.62 | 76.83 | 93.9 | 62.3 | 96.8 | 82.21 | 115 | 117.6 | 86.35 | 87.49 |
| 16468 | 'Jarid2' | 1.4 | 2.79 | 4.57 | 7.73 | 2.15 | 2.2 | 0.71 | 2.74 | 5.04 | 4.54 |
| 16469 | 'Jrk' | 2.28 | 0.9 | 0.96 | 0.01 | 2.78 | 1.42 | 1.77 | 1.36 | 0 | 1.86 |
| 16470 | 'Ush1g' | 1.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16475 | 'Ajuba' | 0.05 | 0.01 | 0.07 | 0 | 0.33 | 0 | 0 | 0 | 0.02 | 0 |
| 16476 | 'Jun' | 83.55 | 162.4 | 259 | 163 | 65.8 | 180.1 | 179 | 98.2 | 61.77 | 106.84 |
| 16477 | 'Junb' | 100.9 | 281.6 | 143 | 311 | 10.2 | 150.6 | 121 | 87.83 | 65.88 | 194.1 |
| 16478 | 'Jund' | 5.05 | 3.76 | 4.56 | 12.5 | 3.19 | 5.97 | 6 | 3.09 | 3.98 | 4.63 |
| 16480 | 'Jup' | 8.99 | 10.54 | 3.19 | 6.67 | 7.48 | 0.73 | 2.43 | 2.95 | 4.75 | 13.87 |
| 16485 | 'Kcna1' | 3.21 | 1.01 | 3.07 | 3.3 | 9.19 | 0.97 | 0.47 | 1.25 | 0 | 0.01 |
| 16490 | 'Kcna2' | 1.36 | 1.33 | 2.54 | 0 | 4.26 | 0.92 | 1.91 | 1.21 | 1.09 | 1.33 |
| 16491 | 'Kcna3' | 3.41 | 0.66 | 0.73 | 0 | 2.11 | 0 | 1.81 | 0.8 | 3.49 | 7.31 |
| 16492 | 'Kcna4' | 1.25 | 2.89 | 0.19 | 0.32 | 3.07 | 1.71 | 1.97 | 2.75 | 4.77 | 2.73 |
| 16493 | 'Kcna5' | 6.69 | 5.7 | 1.7 | 3.79 | 5.59 | 2.13 | 0.03 | 6.14 | 1.44 | 9.79 |
| 16494 | 'Kcna6' | 6.91 | 3.26 | 15.1 | 2.81 | 8.18 | 5.79 | 15.7 | 7.08 | 13.23 | 1.79 |
| 16497 | 'Kcnab1' | 21.68 | 20.91 | 47.7 | 23 | 15.6 | 14.51 | 41.4 | 23.33 | 16.03 | 7.02 |
| 16498 | 'Kcnab2' | 13.45 | 7.11 | 33.9 | 6.23 | 28.6 | 7.68 | 25.9 | 20.21 | 6.14 | 8.24 |
| 16499 | 'Kcnab3' | 4.72 | 0.25 | 5.41 | 0 | 15.7 | 0.23 | 0.04 | 0 | 0.24 | 0.17 |
| 16500 | 'Kcnb1' | 0.86 | 0.8 | 1.51 | 0.08 | 5.34 | 2.67 | 0.38 | 1.67 | 0.41 | 1.3 |
| 16502 | 'Kcnc1' | 3.51 | 4.38 | 6.19 | 15.7 | 18.2 | 9.36 | 14.5 | 9.24 | 5.22 | 3.35 |
| 16504 | 'Kcnc3' | 0.54 | 0.04 | 0.42 | 1.25 | 1 | 0.71 | 0.65 | 0.02 | 0.54 | 0.11 |
| 16506 | 'Kcnd1' | 0.72 | 3.1 | 1.43 | 0.56 | 1.67 | 4.47 | 5.28 | 2.12 | 0.98 | 2.58 |
| 16508 | 'Kcnd2' | 16.2 | 5.87 | 8.89 | 12.9 | 4.71 | 6.24 | 9.46 | 9.19 | 1.82 | 6.7 |
| 16509 | 'Kcne1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 16510 | 'Kcnh1' | 2.29 | 0.91 | 2.41 | 0 | 1.72 | 2.91 | 4.44 | 4.46 | 3.22 | 1.3 |
| 16511 | 'Kcnh2' | 3.27 | 1.71 | 2.7 | 1.52 | 9.17 | 5.21 | 0.03 | 0.31 | 2.4 | 5.34 |
| 16513 | 'Kcnj10' | 3.57 | 1.39 | 0.02 | 3.65 | 1.69 | 0.42 | 0.07 | 2.5 | 1.54 | 0.14 |
| 16514 | 'Kcnj11' | 0.07 | 0 | 0.02 | 5.98 | 3.82 | 4.73 | 0.47 | 0.92 | 4.21 | 0 |
| 16515 | 'Kcnj12' | 1.26 | 0 | 2.16 | 0 | 1.06 | 0.02 | 0.01 | 0.4 | 0 | 0 |
| 16517 | 'Kcnj16' | 7.86 | 0.17 | 8.18 | 0.09 | 0.32 | 5.8 | 0 | 5.34 | 4.42 | 11.15 |
| 16518 | 'Kcnj2' | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16519 | 'Kcnj3' | 8.67 | 7 | 5.37 | 11.4 | 3.46 | 1.19 | 4.13 | 5.25 | 3.51 | 4.92 |
| 16520 | 'Kcnj4' | 0.02 | 0 | 0 | 0 | 1.92 | 0 | 0 | 0 | 0 | 1.03 |
| 16521 | 'Kcnj5' | 0 | 3.62 | 0.03 | 0 | 0 | 4.45 | 1.41 | 0 | 2 | 5.72 |
| 16522 | 'Kcnj6' | 4.1 | 9.29 | 1.6 | 9.91 | 3.9 | 15.03 | 4.74 | 3.68 | 17.18 | 0.82 |
| 16523 | 'Kcnj8' | 0.02 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16524 | 'Kcnj9' | 17.51 | 18.83 | 26.6 | 2.72 | 15.5 | 26.98 | 24.4 | 16.8 | 22.86 | 32.75 |
| 16525 | 'Kcnk1' | 31.34 | 30.31 | 36.8 | 11.9 | 44 | 28.64 | 28.1 | 52.04 | 24.7 | 30.75 |
| 16526 | 'Kcnk2' | 5.98 | 14.73 | 7.78 | 7.97 | 2.13 | 1.99 | 17.1 | 11.91 | 6.99 | 3.95 |
| 16527 | 'Kcnk3' | 0.13 | 1.18 | 1.54 | 0.04 | 7.59 | 3.51 | 5.89 | 2.36 | 5.46 | 3.36 |
| 16528 | 'Kcnk4' | 0 | 0.55 | 0 | 0 | 2.32 | 2.03 | 5.67 | 3.89 | 3.83 | 1.57 |
| 16530 | 'Kcnk7' | 0 | 1.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16531 | 'Kcnma1' | 1.77 | 9.42 | 7.75 | 13.1 | 4.5 | 6.9 | 11 | 4.81 | 3.83 | 3.39 |
| 16532 | 'Kcnu1' | 0 | 3.42 | 0 | 0 | 2.54 | 1.9 | 0 | 1.17 | 2.01 | 1.56 |
| 16535 | 'Kcnq1' | 0 | 1.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 16536 | 'Kcnq2' | 6.04 | 6.65 | 5.31 | 15.6 | 10.1 | 7.4 | 7.19 | 4.66 | 7.85 | 3.61 |
| 16538 | 'Kcns1' | 0 | 2.43 | 4.01 | 0.04 | 4.71 | 4.39 | 1.39 | 0 | 12.03 | 7.22 |

| | | | | | | | | | | | |
|-------|-------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 16539 | 'Kcns2' | 0.79 | 2.08 | 9.15 | 3.37 | 0.37 | 0 | 3.28 | 3.2 | 0 | 3.34 |
| 16541 | 'Napsa' | 0 | 0 | 0.26 | 0 | 0 | 0.09 | 0.82 | 0 | 0.44 | 0.47 |
| 16542 | 'Kdr' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.05 | 0 |
| 16543 | 'Mdfic' | 0 | 0 | 0 | 0 | 0 | 0.92 | 0 | 0.63 | 0 | 0 |
| 16545 | 'Kera' | 0 | 0 | 0 | 0 | 0 | 1.13 | 0 | 0 | 0 | 0 |
| 16548 | 'Khk' | 9.57 | 21.23 | 9.34 | 40.5 | 13.5 | 16.57 | 10.9 | 34.47 | 18.23 | 15.83 |
| 16549 | 'Khsrp' | 1.78 | 0.85 | 1.99 | 2.28 | 4.02 | 1.76 | 4.24 | 1.65 | 2.34 | 1.94 |
| 16551 | 'Kif11' | 0.76 | 0.1 | 1.99 | 2.51 | 0.45 | 0.1 | 0 | 0.33 | 0.29 | 0.4 |
| 16553 | 'Kif13a' | 0.19 | 2.02 | 0.71 | 2.97 | 1.31 | 0.01 | 0.01 | 0.34 | 1.09 | 0.13 |
| 16554 | 'Kif13b' | 1.01 | 1.42 | 0.31 | 0 | 2.16 | 0.81 | 0.51 | 1.01 | 0.35 | 0.95 |
| 16558 | 'Kif16b' | 0.31 | 0.61 | 0.15 | 0 | 0.76 | 0.01 | 0 | 1.89 | 0.01 | 0.01 |
| 16559 | 'Kif17' | 2.84 | 7.73 | 7.52 | 0.04 | 8.9 | 6.16 | 7.86 | 2.77 | 6.76 | 8.98 |
| 16560 | 'Kif1a' | 56.3 | 49.14 | 72.1 | 56 | 53.7 | 44.29 | 57.2 | 31.74 | 35.55 | 66.09 |
| 16561 | 'Kif1b' | 18.29 | 11.89 | 20.2 | 33.2 | 19.7 | 11.4 | 16 | 8.23 | 11.12 | 11.94 |
| 16562 | 'Kif1c' | 0.56 | 0.56 | 0.65 | 0 | 0.23 | 1.06 | 1.26 | 0.28 | 2.28 | 0.33 |
| 16563 | 'Kif2a' | 4.68 | 8.46 | 4.38 | 10.2 | 10.8 | 8.43 | 9.91 | 7.21 | 5.61 | 12.23 |
| 16564 | 'Kif21a' | 36.49 | 48.76 | 35.6 | 39.3 | 37.8 | 45.76 | 43.3 | 37.38 | 28.17 | 31.64 |
| 16565 | 'Kif21b' | 1.41 | 2.25 | 4.37 | 3.07 | 0.69 | 5.91 | 0.62 | 1.29 | 1.52 | 1.23 |
| 16568 | 'Kif3a' | 73.07 | 71.92 | 71.2 | 61.7 | 66.9 | 75.33 | 75.3 | 86.3 | 56.74 | 82.84 |
| 16569 | 'Kif3b' | 2.99 | 4.61 | 2.72 | 2.46 | 4.38 | 9.31 | 5.02 | 4.33 | 1.6 | 1.65 |
| 16570 | 'Kif3c' | 15.94 | 12.24 | 31.2 | 15.7 | 6.91 | 4.63 | 8.75 | 15.97 | 20.33 | 12.98 |
| 16571 | 'Kif4' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16572 | 'Kif5a' | 27.59 | 20.08 | 25.5 | 12.2 | 32.8 | 26.36 | 37.3 | 27.09 | 45.29 | 21.7 |
| 16573 | 'Kif5b' | 35.27 | 35.76 | 21.6 | 42.9 | 57.9 | 28.64 | 31.1 | 27.73 | 32.98 | 36.16 |
| 16574 | 'Kif5c' | 28.37 | 35.22 | 30 | 21.8 | 36.7 | 19.4 | 26.6 | 26.14 | 24.2 | 16.57 |
| 16576 | 'Kif7' | 0 | 0.45 | 0 | 0 | 0.63 | 0.33 | 0.14 | 1.09 | 0.88 | 0 |
| 16578 | 'Kif9' | 1.69 | 4.63 | 2.75 | 0 | 0.45 | 6.25 | 0 | 0.95 | 0.02 | 8.98 |
| 16579 | 'Kifap3' | 62.46 | 50.98 | 77.1 | 31.6 | 47.9 | 51.88 | 84.3 | 65.82 | 62.05 | 55.16 |
| 16580 | 'Kifc5b' | 3.8 | 0 | 0.35 | 0 | 0.91 | 4.2 | 0 | 2.56 | 0.53 | 0.02 |
| 16581 | 'Kifc2' | 37.73 | 44.65 | 87.1 | 28.7 | 65.7 | 38.06 | 53.3 | 66.31 | 51.94 | 35.41 |
| 16582 | 'Kifc3' | 11.7 | 3.93 | 8.73 | 4.09 | 4.99 | 4.43 | 21.4 | 4.18 | 8.71 | 4.56 |
| 16588 | 'Kin' | 17.38 | 12.9 | 8.42 | 13.6 | 18.5 | 8.84 | 2.17 | 8.66 | 6.05 | 10.15 |
| 16589 | 'Uhmk1' | 1.83 | 0.14 | 1.9 | 0.58 | 0 | 0 | 0 | 1.65 | 0 | 1.07 |
| 16590 | 'Kit' | 0.02 | 3.23 | 3.86 | 0 | 3.89 | 0.38 | 3.78 | 0.49 | 6.38 | 3.65 |
| 16591 | 'Kl' | 1.53 | 1.42 | 0 | 2.03 | 0.01 | 0.02 | 0.01 | 0 | 0 | 1.4 |
| 16592 | 'Fabp5' | 127.5 | 113 | 158 | 222 | 97.8 | 144.3 | 127 | 176.8 | 100.9 | 69.73 |
| 16593 | 'Klc1' | 314.7 | 291.7 | 317 | 313 | 279 | 226.8 | 386 | 261.6 | 248.7 | 175.6 |
| 16594 | 'Klc2' | 6.7 | 4.55 | 9.31 | 3.81 | 11.7 | 1.35 | 7.54 | 7.81 | 16.48 | 6.07 |
| 16596 | 'Klf1' | 0 | 0 | 0 | 0 | 3.57 | 0 | 0 | 0.9 | 0 | 0 |
| 16597 | 'Klf12' | 4.81 | 2.26 | 7.27 | 2.8 | 4.83 | 7.25 | 15.2 | 4.78 | 3.24 | 6.77 |
| 16598 | 'Klf2' | 0 | 3.16 | 2.13 | 0.06 | 0 | 0.03 | 0.03 | 0 | 0 | 0 |
| 16599 | 'Klf3' | 0.11 | 0.88 | 4.09 | 0 | 0.01 | 3.16 | 0.02 | 0.05 | 1.47 | 2.72 |
| 16600 | 'Klf4' | 0 | 2.3 | 2.69 | 13.7 | 0.42 | 6.61 | 0.91 | 0.85 | 0 | 3.59 |
| 16601 | 'Klf9' | 6.04 | 3.86 | 5.29 | 5.57 | 5.22 | 0.57 | 4.69 | 4 | 0.03 | 0.25 |
| 16612 | 'Klk1' | 4.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16618 | 'Klk1b26' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 |
| 16619 | 'Klk1b27' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.52 |
| 16625 | 'Serpina3c' | 0 | 0 | 0.19 | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 |
| 16633 | 'Klra2' | 1.43 | 0.23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16646 | 'Kpna1' | 20.06 | 10.75 | 22.4 | 27 | 16.3 | 3.62 | 15.8 | 18.8 | 20.16 | 18.1 |
| 16647 | 'Kpna2' | 56.36 | 16.26 | 61.8 | 42.1 | 25.3 | 64.41 | 20.3 | 53.03 | 31.53 | 57.47 |
| 16648 | 'Kpna3' | 34.59 | 23.56 | 21.8 | 14.7 | 16.4 | 7.19 | 17.8 | 25 | 14.89 | 15.63 |
| 16649 | 'Kpna4' | 1.29 | 4.04 | 4.99 | 7.68 | 3.85 | 1.99 | 3.38 | 3.89 | 7.33 | 1.84 |
| 16650 | 'Kpna6' | 5.7 | 4.7 | 0.97 | 2.75 | 4.89 | 1.44 | 0.52 | 5.27 | 1.54 | 3.87 |
| 16651 | 'Sspn' | 3.44 | 3.99 | 1.88 | 0.01 | 3.46 | 1.77 | 0.02 | 1.59 | 2.42 | 3.65 |
| 16653 | 'Kras' | 5.5 | 7.69 | 5.74 | 13.3 | 6.13 | 5.12 | 3.22 | 2.31 | 2.68 | 3.41 |
| 16656 | 'Hivep3' | 9.4 | 14.15 | 3.79 | 18.2 | 6.05 | 7.56 | 9.69 | 2.03 | 17.26 | 4.61 |
| 16658 | 'Mafb' | 0.46 | 0 | 0.03 | 3.77 | 0.73 | 4.24 | 2.8 | 1.4 | 0 | 0.02 |

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|-------|-------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 16661 | 'Krt10' | 4.07 | 6.81 | 1.31 | 0 | 5.19 | 10.8 | 8.47 | 2.35 | 4.28 | 7.56 |
| 16667 | 'Krt17' | 0 | 9.98 | 0.03 | 0 | 0 | 3.42 | 0.2 | 2.61 | 0 | 4.56 |
| 16668 | 'Krt18' | 0 | 5.23 | 0 | 0 | 0 | 0 | 0 | 1.46 | 5.36 | 0 |
| 16669 | 'Krt19' | 0.05 | 2.79 | 0 | 0 | 0 | 7.2 | 0 | 0 | 0 | 3.83 |
| 16673 | 'Krt36' | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16675 | 'Krt27' | 0 | 0 | 0 | 0 | 10.3 | 0 | 0 | 0 | 0 | 0 |
| 16678 | 'Krt1' | 6.61 | 4.12 | 0.88 | 13.8 | 2.28 | 6.51 | 1.65 | 7.4 | 5.28 | 4.8 |
| 16680 | 'Krt84' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.18 | 0 |
| 16681 | 'Krt2' | 0 | 0 | 0 | 0 | 0 | 0 | 3.27 | 0 | 0 | 0 |
| 16691 | 'Krt8' | 0 | 0 | 0.03 | 0.03 | 24.3 | 0 | 0 | 0 | 0 | 0.07 |
| 16694 | 'Krtap12-1' | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16706 | 'Ksr1' | 1.88 | 1.11 | 0 | 3.38 | 1.49 | 0 | 1.96 | 0.1 | 2.03 | 0.26 |
| 16709 | 'Ktn1' | 10.64 | 14.11 | 17.1 | 16.5 | 12.1 | 9.91 | 7.56 | 8.39 | 12.55 | 12.59 |
| 16716 | 'Ky' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.08 |
| 16728 | 'L1cam' | 24.05 | 18.29 | 44.9 | 6.97 | 32.3 | 6.61 | 37.4 | 26.18 | 27.5 | 45.9 |
| 16763 | 'Lad1' | 0 | 0 | 2.01 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 16764 | 'Aff3' | 1.26 | 0.82 | 1 | 0.18 | 3.34 | 0 | 0.66 | 1.46 | 1.74 | 1.08 |
| 16765 | 'Stmn1' | 1226 | 931.3 | 993 | 1077 | 1525 | 1982 | 1264 | 1157 | 1240 | 1341.45 |
| 16768 | 'Lag3' | 0.77 | 0.67 | 2.16 | 0 | 6.38 | 0 | 0 | 0.02 | 0 | 0 |
| 16772 | 'Lama1' | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0.51 | 0 | 0 |
| 16773 | 'Lama2' | 0.23 | 0.01 | 0 | 1.01 | 0 | 1.91 | 0 | 2.07 | 0.49 | 0 |
| 16774 | 'Lama3' | 0.61 | 0 | 0 | 0.16 | 0 | 0 | 0.09 | 0.35 | 0 | 0 |
| 16775 | 'Lama4' | 0 | 0 | 0.75 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16776 | 'Lama5' | 0 | 0.17 | 0.07 | 0 | 0.31 | 0.04 | 0 | 0 | 0 | 0 |
| 16777 | 'Lamb1' | 0.94 | 3.13 | 1.95 | 1.95 | 0.83 | 1.44 | 0 | 1.3 | 0 | 2.67 |
| 16779 | 'Lamb2' | 0.87 | 0.49 | 0.01 | 0 | 0.76 | 0.83 | 0.01 | 0 | 0.33 | 0.36 |
| 16780 | 'Lamb3' | 8.37 | 60.5 | 1.54 | 30.3 | 1.02 | 9.02 | 0.05 | 3.64 | 0.03 | 3.06 |
| 16782 | 'Lamc2' | 0 | 0.2 | 0.01 | 4.15 | 4.11 | 0 | 0.51 | 0.01 | 0 | 0.07 |
| 16783 | 'Lamp1' | 70.76 | 29.41 | 65.2 | 186 | 73.7 | 24.4 | 59.8 | 12.38 | 37.26 | 16.81 |
| 16784 | 'Lamp2' | 34.09 | 29.66 | 29.2 | 40.7 | 28.1 | 31.09 | 37 | 16.67 | 16.48 | 41.66 |
| 16785 | 'Rpsa' | 145.4 | 102.6 | 146 | 76.1 | 173 | 165.5 | 111 | 125.4 | 103.1 | 90.91 |
| 16792 | 'Laptm5' | 2.33 | 7.36 | 2.5 | 5.32 | 31.2 | 46.48 | 0 | 2.87 | 0 | 0 |
| 16795 | 'Large1' | 1.96 | 6.47 | 6.86 | 5.5 | 2.31 | 0.42 | 3.69 | 4.71 | 0.01 | 4.93 |
| 16796 | 'Lasp1' | 23.48 | 27.6 | 34.3 | 14.4 | 29.8 | 21.23 | 31.1 | 12.29 | 34.57 | 26.95 |
| 16797 | 'Lat' | 0 | 0 | 0 | 1.83 | 0 | 0 | 2.11 | 0 | 1.42 | 0 |
| 16798 | 'Lats1' | 0.4 | 1.2 | 0.07 | 1.52 | 1.26 | 1.51 | 0 | 0.75 | 1.94 | 1.07 |
| 16800 | 'Arhgef2' | 8.06 | 3.91 | 11.3 | 7.99 | 11.2 | 5.43 | 6.89 | 3.21 | 8.63 | 15.07 |
| 16801 | 'Arhgef1' | 6.25 | 10.54 | 6.61 | 12 | 9.05 | 7.39 | 4.4 | 4.14 | 8.12 | 7.15 |
| 16803 | 'Lbp' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 16816 | 'Lcat' | 8.08 | 4.27 | 2.55 | 8.57 | 0 | 4.72 | 0 | 0 | 6.61 | 6.7 |
| 16818 | 'Lck' | 0.35 | 2.93 | 1.97 | 0 | 4.36 | 0.75 | 1.4 | 2.47 | 0.36 | 2.09 |
| 16822 | 'Lcp2' | 2.22 | 2.84 | 3.46 | 6.01 | 0 | 6.78 | 2.54 | 0.4 | 0.04 | 1.22 |
| 16825 | 'Ldb1' | 8.72 | 18.19 | 13.2 | 13.8 | 16.7 | 7.48 | 25.4 | 18.73 | 13.75 | 20.97 |
| 16826 | 'Ldb2' | 34.69 | 19.72 | 26.3 | 11.5 | 44.9 | 16.47 | 37.6 | 28.19 | 5.94 | 11.4 |
| 16828 | 'Ldha' | 410.9 | 462.9 | 443 | 381 | 441 | 543.1 | 510 | 475 | 420.6 | 612.17 |
| 16832 | 'Ldhb' | 630.5 | 489.8 | 819 | 806 | 774 | 1101 | 714 | 843.6 | 756.4 | 612.38 |
| 16833 | 'Ldhc' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 |
| 16834 | 'Cog1' | 34.53 | 27.34 | 29.1 | 1.78 | 20.5 | 12.77 | 28.4 | 15.15 | 30.48 | 7.5 |
| 16835 | 'Ldlr' | 1.6 | 4.5 | 8.19 | 8.97 | 1.32 | 0.03 | 2.63 | 2.47 | 0 | 1.26 |
| 16840 | 'Cnmd' | 3.42 | 0 | 0 | 0 | 5.51 | 0.21 | 7.03 | 0 | 3.14 | 4.29 |
| 16841 | 'Lect2' | 0 | 0.52 | 0 | 2.35 | 0.65 | 0 | 0 | 0 | 0.02 | 0.34 |
| 16842 | 'Lef1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 |
| 16847 | 'Lepr' | 1.1 | 2.1 | 1.8 | 0 | 2.6 | 4.3 | 3.6 | 1.9 | 7.7 | 7.1 |
| 16848 | 'Lfng' | 2.58 | 0.36 | 0.04 | 0.1 | 0 | 0.16 | 0 | 0.24 | 0.88 | 0 |
| 16852 | 'Lgals1' | 0.35 | 4.81 | 2.98 | 11.5 | 7.13 | 5.34 | 0.2 | 1.33 | 1.08 | 1.81 |
| 16854 | 'Lgals3' | 0 | 1.63 | 0 | 0 | 4.41 | 0 | 0.04 | 2.46 | 3.14 | 0 |
| 16855 | 'Lgals4' | 0.44 | 13.28 | 3.32 | 1.29 | 0.03 | 0.03 | 0 | 0 | 0.61 | 5.28 |
| 16858 | 'Lgals7' | 0 | 0 | 0 | 10.4 | 0 | 0 | 0 | 0 | 0 | 0 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 16859 | 'Lgals9' | 0 | 0 | 0.03 | 27.9 | 9.82 | 33.64 | 0 | 0 | 0.06 | 3.3 |
| 16865 | 'Eif2d' | 21.2 | 18.73 | 33.1 | 19.7 | 14.9 | 27.39 | 52.4 | 27.44 | 26.74 | 17.86 |
| 16867 | 'Lhcgr' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.97 | 0 |
| 16869 | 'Lhx1' | 1.33 | 0 | 0 | 0 | 0.25 | 3.01 | 3.4 | 0.1 | 2.04 | 3.95 |
| 16870 | 'Lhx2' | 1.67 | 1.41 | 3.53 | 0.03 | 4 | 13.13 | 0.06 | 0 | 3.34 | 5.33 |
| 16872 | 'Lhx4' | 0 | 0.01 | 0.4 | 0 | 0 | 0 | 0 | 0.29 | 0 | 0 |
| 16873 | 'Lhx5' | 7.15 | 1.85 | 10.3 | 8.47 | 3.25 | 18.41 | 4.34 | 5.94 | 11.13 | 8.96 |
| 16874 | 'Lhx6' | 0 | 10.37 | 0 | 0 | 4.73 | 0.2 | 7.99 | 3.58 | 0 | 0.01 |
| 16875 | 'Lhx8' | 0.02 | 0 | 0 | 0 | 31.5 | 6.08 | 7.16 | 0 | 0 | 0 |
| 16876 | 'Lhx9' | 0.88 | 1.93 | 6.04 | 8.75 | 12.8 | 28.41 | 4.45 | 0.33 | 7.65 | 21.13 |
| 16880 | 'Lifr' | 10.85 | 3.2 | 3.89 | 3.98 | 2.55 | 1.19 | 4.27 | 2.73 | 5.61 | 3.55 |
| 16881 | 'Lig1' | 9.05 | 6.89 | 14.3 | 0.51 | 5.81 | 9.23 | 7.79 | 5.32 | 8.93 | 9.77 |
| 16882 | 'Lig3' | 3.8 | 1.26 | 5.27 | 1.12 | 7.88 | 0 | 1.65 | 2.68 | 5.92 | 4.01 |
| 16885 | 'Limk1' | 3.37 | 5.78 | 3.62 | 0 | 2.07 | 0.84 | 1.23 | 6.14 | 0.03 | 0.98 |
| 16886 | 'Limk2' | 47.7 | 51.19 | 42.2 | 13.2 | 39.7 | 25.7 | 61.3 | 57.68 | 50.99 | 31.92 |
| 16889 | 'Lipa' | 5.72 | 9.5 | 3.05 | 0 | 2.24 | 5.74 | 6.91 | 13.91 | 11.91 | 8.64 |
| 16890 | 'Lipe' | 1.04 | 3.23 | 0.96 | 0.59 | 8.46 | 10.6 | 12.3 | 6.75 | 5.07 | 4.59 |
| 16891 | 'Lipg' | 3.06 | 0.24 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16897 | 'Ligl1' | 13.64 | 3.52 | 3.26 | 6.41 | 2.43 | 3.69 | 0.54 | 1.53 | 6.96 | 2.4 |
| 16898 | 'Rps2' | 104 | 161.9 | 187 | 250 | 129 | 53.15 | 113 | 64.17 | 126.2 | 47.51 |
| 16904 | 'Gzmm' | 0 | 1.9 | 0.98 | 2.32 | 0 | 0 | 0 | 1.13 | 6.63 | 0.79 |
| 16905 | 'Lmna' | 45.65 | 48.91 | 53.1 | 99.6 | 31.3 | 34.42 | 20.2 | 32.51 | 40.83 | 44.43 |
| 16906 | 'Lmnb1' | 0.57 | 2.78 | 3.93 | 1.07 | 2.22 | 0 | 0 | 1.45 | 0 | 2.88 |
| 16907 | 'Lmnb2' | 1.71 | 6.97 | 11.7 | 6.44 | 6.63 | 0.59 | 6.59 | 6.03 | 1.58 | 2.03 |
| 16909 | 'Lmo2' | 1.32 | 0 | 3.88 | 16.6 | 1.61 | 4.08 | 4.84 | 0 | 3.18 | 0.2 |
| 16911 | 'Lmo4' | 9.33 | 11.17 | 17.6 | 11.9 | 31.9 | 27.65 | 30.6 | 35 | 7.81 | 17.47 |
| 16912 | 'Psemb9' | 0 | 0 | 0 | 13.2 | 5.29 | 10.23 | 0 | 0 | 4.52 | 0.06 |
| 16913 | 'Psemb8' | 3.25 | 2.49 | 3.18 | 5.35 | 0 | 1.46 | 0.04 | 10.08 | 8.35 | 6.54 |
| 16918 | 'Mycl' | 2.71 | 5.61 | 5.87 | 18.4 | 2.22 | 2.8 | 0.08 | 6.18 | 1.95 | 5.87 |
| 16922 | 'Phyh' | 137.6 | 141.9 | 125 | 142 | 178 | 199.6 | 143 | 144.2 | 122.9 | 199.79 |
| 16923 | 'Sh2b3' | 0.9 | 1.27 | 0 | 4.41 | 0.06 | 0 | 0 | 0.18 | 0.04 | 3.99 |
| 16924 | 'Lnx1' | 16.73 | 24.31 | 18 | 10.2 | 12.2 | 15.51 | 50.9 | 18.25 | 23.17 | 24.73 |
| 16939 | 'Lor' | 0.77 | 0.81 | 0.38 | 8.99 | 1.56 | 3.87 | 2.72 | 1.07 | 0.15 | 0.7 |
| 16949 | 'Loxl1' | 2.64 | 0.26 | 6.07 | 6.02 | 8.77 | 25.04 | 0.01 | 7.79 | 17.82 | 6.14 |
| 16950 | 'Loxl3' | 0.35 | 0 | 1.89 | 0 | 1.75 | 0.46 | 0.01 | 0.32 | 0.33 | 0 |
| 16956 | 'Lpl' | 0.22 | 1.12 | 0.85 | 0.14 | 1.87 | 0.25 | 0.16 | 0.24 | 0.23 | 0.28 |
| 16969 | 'Zbtb7a' | 7.43 | 3.79 | 6.13 | 5.91 | 7.96 | 0.95 | 6.22 | 2.77 | 4.66 | 3.39 |
| 16971 | 'Lrp1' | 9.05 | 6.93 | 19 | 9.16 | 9.01 | 5.81 | 15.1 | 7.67 | 8.51 | 5.98 |
| 16973 | 'Lrp5' | 0 | 0 | 0.04 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 16974 | 'Lrp6' | 0.61 | 0.21 | 0.13 | 0.68 | 0.1 | 0.1 | 2.51 | 1.04 | 0.48 | 0 |
| 16975 | 'Lrp8' | 0.77 | 5.33 | 1.28 | 8.16 | 1.65 | 3.17 | 3.25 | 1.63 | 3.33 | 1.78 |
| 16976 | 'Lrpap1' | 287.3 | 434.8 | 218 | 378 | 261 | 426.1 | 277 | 365.8 | 501.9 | 558.69 |
| 16977 | 'Lrrc23' | 0.03 | 5.45 | 0.82 | 0 | 0.42 | 0.74 | 0 | 4.72 | 0.11 | 6.64 |
| 16978 | 'Lrrfip1' | 30.57 | 19.38 | 17.3 | 63.5 | 27.3 | 6.81 | 31.5 | 20.79 | 24.54 | 14.97 |
| 16979 | 'Lrrn1' | 7.06 | 9.61 | 16.4 | 7.44 | 4.19 | 0.92 | 36.1 | 6.37 | 3.97 | 4.16 |
| 16980 | 'Lrrn2' | 33.55 | 33.86 | 46.5 | 17.3 | 39.1 | 26.43 | 30.8 | 53.13 | 54.71 | 27 |
| 16981 | 'Lrrn3' | 43.54 | 25.96 | 14.5 | 15.9 | 27.3 | 13.23 | 21.8 | 37.33 | 11.73 | 43.72 |
| 16985 | 'Lsp1' | 0 | 0 | 7.93 | 0 | 4.09 | 0.97 | 0 | 0 | 4.72 | 1.81 |
| 16987 | 'Lss' | 8.22 | 3.5 | 10.6 | 18.7 | 7.33 | 1.51 | 0.03 | 0.27 | 6.33 | 0.46 |
| 16988 | 'Lst1' | 0 | 1.45 | 2.38 | 0 | 3.78 | 1.67 | 20.6 | 0.22 | 0 | 2.03 |
| 16992 | 'Lta' | 3.59 | 0.04 | 3.91 | 0 | 0 | 0 | 5.64 | 0 | 0 | 0 |
| 16993 | 'Lta4h' | 39.53 | 44.11 | 67 | 61.6 | 25.1 | 42.44 | 23.4 | 33.77 | 50.25 | 56.22 |
| 16994 | 'Ltb' | 0 | 0 | 0.05 | 0 | 0 | 0 | 3.81 | 0 | 0 | 2.61 |
| 16997 | 'Ltbp2' | 0 | 0 | 3.15 | 1.42 | 0 | 0 | 0 | 0.37 | 0 | 0 |
| 16998 | 'Ltbp3' | 4.86 | 10.79 | 3.9 | 8.02 | 3.23 | 0.71 | 5.93 | 2.8 | 5.36 | 2.73 |
| 17000 | 'Ltbr' | 0 | 0 | 6.07 | 0.46 | 0 | 0.04 | 0 | 0 | 0.02 | 4.16 |
| 17001 | 'Ltc4s' | 3.61 | 0 | 0 | 0 | 10.2 | 8.19 | 0 | 3.54 | 0 | 11.18 |
| 17005 | 'Ltk' | 0 | 0 | 0 | 0 | 2.86 | 0 | 0.18 | 0 | 0 | 0 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 17025 | 'Alad' | 53.11 | 52.84 | 67.9 | 63 | 57.8 | 65.4 | 66.4 | 68.28 | 80.88 | 49.91 |
| 17035 | 'Lxn' | 64.82 | 51.55 | 20.8 | 40.6 | 18 | 84.44 | 68.1 | 66.86 | 60.23 | 69.31 |
| 170439 | 'Elov16' | 8.09 | 8.87 | 8.76 | 6.88 | 7.21 | 12.26 | 9.54 | 15.02 | 19.09 | 7.58 |
| 170441 | 'Slc2a10' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 170442 | 'Bbox1' | 3.28 | 5.01 | 0.03 | 7.4 | 0 | 1.73 | 6 | 0 | 0 | 2.14 |
| 170459 | 'Stard4' | 12.05 | 13.31 | 5.58 | 7.71 | 14.8 | 5.5 | 23.6 | 13.56 | 4.21 | 7.04 |
| 170460 | 'Stard5' | 0.2 | 1.89 | 0.85 | 0.07 | 4.77 | 0 | 0 | 1.25 | 0 | 0.03 |
| 170461 | 'Stard6' | 0.03 | 3.83 | 0 | 0 | 0 | 0 | 0.11 | 0.32 | 0.03 | 0 |
| 170472 | 'Recql5' | 14.65 | 13.64 | 10.4 | 4.5 | 4.91 | 0.06 | 13.7 | 4.23 | 4.05 | 16.17 |
| 170483 | 'Grin3b' | 0 | 0 | 0.31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170484 | 'Nphs2' | 0 | 0 | 0 | 3.61 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170571 | 'Cntnap4' | 40.62 | 21.19 | 16 | 11.5 | 21.2 | 7.02 | 30 | 30.93 | 36.69 | 32.17 |
| 170574 | 'Sp7' | 0 | 0 | 0 | 2.04 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17060 | 'Blnk' | 0 | 0 | 0 | 0 | 0 | 2.31 | 0.02 | 2.58 | 0 | 0 |
| 170625 | 'Snx18' | 0.6 | 0.96 | 1.38 | 2.3 | 1.94 | 0.6 | 0.45 | 1.17 | 0 | 1.61 |
| 170638 | 'Hpcal4' | 110.5 | 143.7 | 60.5 | 79.7 | 67.9 | 92.18 | 87.5 | 112.7 | 46.9 | 80.93 |
| 17064 | 'Cd93' | 0 | 0 | 0.01 | 0.02 | 0.02 | 0.01 | 0 | 0 | 0.01 | 0.11 |
| 170643 | 'Kirrel' | 0 | 0.06 | 0 | 0 | 0 | 0 | 0.03 | 0.12 | 0.17 | 0 |
| 170644 | 'Ubn1' | 1.58 | 0.56 | 2.21 | 6.46 | 2.69 | 0.92 | 0.91 | 0.21 | 1.37 | 2.71 |
| 17067 | 'Ly6c1' | 0.05 | 0 | 0.12 | 0 | 0.91 | 0 | 0.06 | 0 | 0 | 0 |
| 170676 | 'Peg10' | 2.95 | 1.72 | 1.58 | 0.07 | 0.2 | 2.24 | 7.16 | 3.79 | 10.58 | 13.92 |
| 170677 | 'Cdhr1' | 0 | 0.53 | 2.37 | 0 | 1.52 | 0.01 | 0.01 | 0 | 4.33 | 2.17 |
| 17069 | 'Ly6e' | 164.8 | 150.7 | 116 | 193 | 104 | 272.7 | 118 | 151.2 | 176.9 | 166.71 |
| 170706 | 'Tmem37' | 0.04 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170707 | 'Usp48' | 6.46 | 10.2 | 10.8 | 15.8 | 15 | 3.94 | 9.96 | 4.55 | 11.11 | 4.96 |
| 170711 | 'Otud7a' | 0 | 0.21 | 0.01 | 1.21 | 0.35 | 2 | 1.44 | 0.69 | 0.17 | 0.74 |
| 170716 | 'Cyp4f13' | 0.39 | 0 | 4.15 | 6.12 | 4.11 | 0 | 12 | 4.73 | 4.93 | 11.95 |
| 170718 | 'Idh3b' | 271.6 | 233.3 | 422 | 221 | 336 | 348.4 | 401 | 325.2 | 304.7 | 312.7 |
| 170719 | 'Oxr1' | 31.08 | 21.05 | 48.4 | 38.2 | 35 | 41.48 | 43.3 | 41.69 | 40.4 | 55.26 |
| 170721 | 'Papln' | 0 | 0 | 0.19 | 1.69 | 0.35 | 0 | 0 | 0.26 | 0.6 | 1.03 |
| 170728 | 'Rtn4ip1' | 13.99 | 5.36 | 9.58 | 5.62 | 15.4 | 9.62 | 3.18 | 11.43 | 5.2 | 19.96 |
| 170729 | 'Scrt1' | 0 | 0 | 0.08 | 0 | 0 | 0.01 | 0 | 0.06 | 0.73 | 0 |
| 170731 | 'Mfn2' | 25.34 | 29.83 | 66.6 | 18.6 | 25.5 | 8.02 | 61.8 | 42.51 | 52.54 | 37.32 |
| 170732 | 'Trhr2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.34 | 0 | 0 |
| 170734 | 'Zscan5b' | 0.02 | 0.02 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0.02 | 0.02 |
| 170735 | 'Arr3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.64 |
| 170736 | 'Parvb' | 0.07 | 1.61 | 0.24 | 2.86 | 1.06 | 0 | 0 | 1.33 | 2.42 | 3.46 |
| 170737 | 'Znrf1' | 12.07 | 13.14 | 13.2 | 15.9 | 11.7 | 15.19 | 13.3 | 10.35 | 8.33 | 9.93 |
| 170738 | 'Kcnh7' | 6.09 | 2.03 | 1.97 | 5.03 | 2.4 | 3.45 | 3.85 | 3.32 | 2.21 | 10.83 |
| 170740 | 'Zfp287' | 2.25 | 3.88 | 2.49 | 1.61 | 2.42 | 3.86 | 11 | 4.09 | 2.07 | 10.3 |
| 170741 | 'Pilrb1' | 0 | 0 | 0 | 0 | 6.39 | 0 | 0 | 0 | 0 | 0 |
| 170742 | 'Sertad3' | 0 | 0 | 9.89 | 7.29 | 5.52 | 5.14 | 6.1 | 3 | 2.8 | 0.97 |
| 170743 | 'Tlr7' | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 |
| 170748 | 'Smco4' | 2.36 | 3.14 | 0.05 | 0 | 0 | 4.85 | 13.6 | 4.38 | 2.87 | 3.59 |
| 170749 | 'Mtmr4' | 11.06 | 4.02 | 12.1 | 7.17 | 3.92 | 2.86 | 3.15 | 7.12 | 7.02 | 6.62 |
| 17075 | 'Epcam' | 0 | 0 | 2.03 | 0 | 22.2 | 0 | 0 | 0 | 0 | 0.04 |
| 170750 | 'Xpnpep1' | 20.02 | 17.75 | 10.1 | 31.1 | 15.7 | 9.66 | 16.7 | 37.61 | 38.06 | 41.09 |
| 170752 | 'Bco2' | 0 | 1.62 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170753 | 'Zfp704' | 0.73 | 0.52 | 0.83 | 1.83 | 0.87 | 0.75 | 1.42 | 0.24 | 1.73 | 1.89 |
| 170755 | 'Sgk3' | 0.44 | 0.14 | 0.07 | 0.09 | 0.02 | 0.04 | 0.04 | 0.3 | 0 | 0.02 |
| 170756 | 'Slc8b1' | 0.64 | 0.96 | 0.15 | 0.12 | 0.59 | 5.83 | 2.47 | 0.03 | 0.02 | 0.09 |
| 170757 | 'Adgrl4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.6 | 0 |
| 170758 | 'Rac3' | 239.9 | 107.2 | 230 | 154 | 134 | 146.1 | 246 | 83.96 | 122.2 | 64.76 |
| 170759 | 'Atp13a1' | 22.63 | 17.02 | 23.8 | 37.1 | 14.4 | 14.39 | 34.2 | 31.67 | 36.12 | 33.12 |
| 170760 | 'Acbd3' | 4.47 | 3.61 | 2.27 | 12.7 | 7.39 | 6.49 | 4.1 | 2.54 | 1.3 | 2.8 |
| 170761 | 'Pdzd3' | 1.21 | 5.48 | 2.97 | 10.6 | 7.4 | 0 | 0 | 1.89 | 4.83 | 1.27 |
| 170762 | 'Nup155' | 2.24 | 0.23 | 4.59 | 0 | 1.15 | 0 | 0.06 | 2.33 | 1.27 | 0.41 |
| 170763 | 'Zfp87' | 9.26 | 5.99 | 2.68 | 0.29 | 10.9 | 9.35 | 16.1 | 12.74 | 0.38 | 5.01 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 170765 | 'Ripply3' | 1.6 | 1.17 | 1.18 | 2.71 | 1.91 | 0.47 | 0.63 | 0.6 | 1.82 | 1.05 |
| 170767 | 'Rfxap' | 2.61 | 1.35 | 2.78 | 6.64 | 2.64 | 2.78 | 0 | 1.74 | 6.46 | 0 |
| 170768 | 'Pfkfb3' | 9.83 | 3.98 | 6.74 | 5.43 | 2.35 | 1.12 | 7.05 | 6.27 | 3.22 | 8.36 |
| 170770 | 'Bbc3' | 1.04 | 1.19 | 0.67 | 6.66 | 0 | 0.09 | 0 | 1.68 | 1.63 | 0.49 |
| 170771 | 'Khdrbs2' | 23.52 | 23.46 | 43.8 | 18.3 | 54.5 | 38.61 | 38 | 23.75 | 11.61 | 30.76 |
| 170772 | 'Glcci1' | 2.58 | 2.93 | 3.17 | 0.62 | 3.3 | 0.94 | 1.14 | 0.43 | 0.01 | 3.06 |
| 170776 | 'Cd209c' | 5.98 | 8.9 | 9.77 | 16.9 | 7.39 | 11.81 | 10.9 | 9.07 | 9.21 | 6.88 |
| 170787 | 'Hdac10' | 7.22 | 11.18 | 17.5 | 0.38 | 18.1 | 9.13 | 4.43 | 8.66 | 17.78 | 17.74 |
| 170788 | 'Crb1' | 1.54 | 3.3 | 0 | 0 | 0.7 | 0.04 | 0 | 1.41 | 0.01 | 4 |
| 170789 | 'Acot8' | 33.36 | 31.7 | 36.2 | 31 | 13.5 | 22.38 | 16.7 | 42.1 | 36.43 | 30.14 |
| 17079 | 'Cd180' | 0 | 0 | 0 | 0 | 0 | 0.22 | 0 | 0 | 0.17 | 0 |
| 170790 | 'Mlc1' | 59.63 | 33.48 | 30.6 | 65.6 | 35.1 | 68.56 | 27.9 | 15.25 | 45.66 | 31.45 |
| 170791 | 'Rbm39' | 79.55 | 120.3 | 87.5 | 147 | 79 | 107.7 | 89.5 | 78.78 | 70.9 | 80.17 |
| 170799 | 'Rtkn2' | 0.08 | 0.01 | 0.05 | 0 | 0.79 | 0.83 | 0.01 | 1.38 | 0 | 0 |
| 170813 | 'Ms4a3' | 0 | 0 | 0.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17082 | 'Il1rl1' | 0 | 0 | 0.02 | 0.01 | 0.03 | 0.02 | 0 | 0.01 | 0.01 | 0.01 |
| 170822 | 'Usp33' | 35.42 | 49.98 | 50 | 50.2 | 25.5 | 17.61 | 28.8 | 37.78 | 50.94 | 50.94 |
| 170823 | 'Glmn' | 6.03 | 11.84 | 8.82 | 6.37 | 3.72 | 8.96 | 11.8 | 18.81 | 9.82 | 6.35 |
| 170826 | 'Ppargc1b' | 4.26 | 4.02 | 8.83 | 3.48 | 3.11 | 1.78 | 8.47 | 8.21 | 1.07 | 2.77 |
| 170829 | 'Tram2' | 0.03 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0.25 |
| 17083 | 'Tmed1' | 42.92 | 46.26 | 44 | 32.6 | 90.8 | 35.76 | 36.9 | 46.23 | 59.33 | 84.77 |
| 170833 | 'Hook2' | 37.16 | 14.69 | 19.5 | 46.8 | 34.1 | 15.93 | 9.33 | 18.84 | 26.8 | 22.83 |
| 170835 | 'Inpp5j' | 4.9 | 5.61 | 20.4 | 6.1 | 5.03 | 5.45 | 0.78 | 4.17 | 6.01 | 1.98 |
| 17084 | 'Ly86' | 3.26 | 11.13 | 1.05 | 11.8 | 12.4 | 69.04 | 5.67 | 9.56 | 2.6 | 2.36 |
| 17087 | 'Ly96' | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.96 | 9.28 |
| 17089 | 'Lyar' | 6.04 | 11.44 | 4.9 | 29.8 | 8.71 | 15.62 | 18.9 | 17.21 | 18.32 | 18.98 |
| 170930 | 'Sumo2' | 322.7 | 311.3 | 289 | 431 | 395 | 262.7 | 300 | 321.5 | 219 | 313.79 |
| 170935 | 'Grid2ip' | 0 | 0.76 | 1.85 | 0 | 0.31 | 0.01 | 0 | 0 | 0 | 0 |
| 170936 | 'Zfp369' | 0.42 | 0 | 2.04 | 0 | 0.22 | 0 | 0 | 0.18 | 1.61 | 2.1 |
| 170938 | 'Zfp617' | 16.17 | 13.18 | 11.6 | 8.05 | 11.6 | 9.4 | 15.5 | 21.09 | 5.16 | 7.88 |
| 170947 | 'Myoz3' | 0.93 | 0.01 | 0.01 | 0.03 | 0.01 | 0.01 | 0 | 0 | 0.02 | 0.01 |
| 17095 | 'Lyl1' | 0 | 0 | 0.08 | 0 | 4.93 | 6.57 | 0 | 0 | 0 | 0.02 |
| 170952 | 'Prima1' | 0 | 0.14 | 2.19 | 0 | 2.7 | 6.6 | 0 | 0 | 0 | 0.01 |
| 17096 | 'Lyn' | 1.31 | 0 | 0.01 | 0 | 0 | 1.29 | 0 | 0 | 2.63 | 4.78 |
| 17101 | 'Lyst' | 1.2 | 2.2 | 1.79 | 2.41 | 1.23 | 2.26 | 1.84 | 1.47 | 2.18 | 1.21 |
| 17105 | 'Lyz2' | 0 | 3.61 | 6.44 | 0 | 0 | 8.92 | 0 | 0 | 0 | 6.51 |
| 171095 | 'Il17rc' | 1.14 | 4.72 | 3.11 | 0 | 0.48 | 5.85 | 0.9 | 1.02 | 0.32 | 1.43 |
| 17110 | 'Lyz1' | 0 | 0.2 | 0.5 | 0 | 0 | 0.48 | 0 | 0 | 0 | 0.34 |
| 17113 | 'M6pr' | 85.61 | 90.7 | 91.6 | 82 | 78.6 | 108.4 | 66.7 | 96.93 | 136.3 | 132.64 |
| 17116 | 'Mab2111' | 0 | 0 | 0.02 | 0 | 28.4 | 25.21 | 0.05 | 7.21 | 4.87 | 3 |
| 171166 | 'Mcoln3' | 0 | 0 | 0 | 0 | 1.99 | 3.73 | 0 | 0 | 0 | 0 |
| 171167 | 'Fut10' | 0 | 1.5 | 0.02 | 0 | 5.71 | 3.58 | 4.75 | 3.08 | 2.61 | 0 |
| 171168 | 'Acer1' | 0.11 | 0.1 | 0.33 | 0.14 | 0.13 | 0.16 | 0.07 | 0.07 | 0.22 | 0.04 |
| 17117 | 'Amacr' | 33.28 | 9.24 | 27 | 19.8 | 17.5 | 23.55 | 6.36 | 27.53 | 25.76 | 17.3 |
| 171170 | 'Mbnl3' | 0.29 | 0 | 0.01 | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 |
| 171171 | 'Ntng2' | 0 | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17118 | 'Marcks' | 32.91 | 25.92 | 26.4 | 16 | 24.7 | 16.38 | 23.2 | 15.09 | 13.81 | 24.45 |
| 171180 | 'Sy12' | 6.93 | 3.98 | 12 | 0.1 | 3.08 | 5.07 | 22.3 | 10.66 | 5.07 | 8.44 |
| 17119 | 'Mxd1' | 5.29 | 7.34 | 0.87 | 0.3 | 2.95 | 1.67 | 6.86 | 5.05 | 0.64 | 2.29 |
| 17120 | 'Mad111' | 10.71 | 23.97 | 14.6 | 0.03 | 12.4 | 9.71 | 5.74 | 11.65 | 9.65 | 3.57 |
| 171207 | 'Arhgap4' | 0 | 0.14 | 0.11 | 0 | 0 | 5.12 | 4.75 | 1.51 | 0.87 | 2.38 |
| 171209 | 'Asic3' | 0.14 | 0.16 | 1.41 | 0.23 | 2.24 | 0.25 | 0.11 | 0.12 | 0.11 | 0.53 |
| 17121 | 'Mxd3' | 0 | 0 | 0 | 0 | 5.16 | 0 | 0 | 0 | 0 | 0 |
| 171210 | 'Acot2' | 2.54 | 13.3 | 5.53 | 6.43 | 12.5 | 8 | 5.02 | 5.25 | 6.52 | 15.37 |
| 171211 | 'Edaradd' | 0 | 0 | 0.94 | 0 | 0 | 0 | 0 | 0 | 1.41 | 0 |
| 171212 | 'Galnt10' | 3.32 | 1.46 | 0.1 | 2.89 | 0.89 | 0.35 | 3.05 | 0.84 | 0.27 | 0.87 |
| 17122 | 'Mxd4' | 2.19 | 2.76 | 2.97 | 0 | 0.04 | 0 | 0 | 2.44 | 10.48 | 4.35 |
| 17123 | 'Madcam1' | 0 | 0 | 4.67 | 0 | 0.22 | 9.78 | 0 | 0 | 0.29 | 0.49 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 17125 | 'Smad1' | 4.02 | 4.1 | 5.62 | 7.62 | 1.31 | 3.08 | 2.2 | 5.74 | 2.74 | 0.03 |
| 17126 | 'Smad2' | 2.77 | 4.46 | 3.4 | 3.33 | 1.81 | 2.97 | 3.22 | 5.7 | 5.81 | 6.15 |
| 17127 | 'Smad3' | 1.68 | 2.13 | 4.09 | 0 | 0.01 | 0.31 | 0 | 0.24 | 2.35 | 0.01 |
| 171270 | 'Vmn1r203' | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17128 | 'Smad4' | 1.54 | 2.15 | 2.5 | 12.5 | 5.07 | 2.12 | 0.38 | 1.5 | 2.53 | 0.88 |
| 171281 | 'Acot3' | 1.28 | 4.45 | 5.51 | 0.2 | 1.14 | 3.54 | 8.93 | 0.12 | 0.32 | 1.34 |
| 171282 | 'Acot4' | 1.49 | 0 | 0.29 | 0 | 2.34 | 0.1 | 0 | 0.78 | 2.81 | 0 |
| 171283 | 'Havcr1' | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 171285 | 'Havcr2' | 0 | 0 | 0 | 0 | 0 | 8.3 | 0 | 0 | 4.65 | 0 |
| 171286 | 'Slc12a8' | 0.1 | 0.28 | 0.2 | 0.4 | 1.91 | 0.22 | 0.05 | 3.92 | 0.15 | 0.18 |
| 17129 | 'Smad5' | 0.82 | 5.15 | 6.9 | 0.26 | 1.38 | 0.05 | 0 | 0.92 | 6.55 | 1.04 |
| 17130 | 'Smad6' | 0.59 | 0.17 | 0 | 0 | 0 | 0 | 0 | 0.69 | 0 | 0 |
| 17131 | 'Smad7' | 1.13 | 2.27 | 2.33 | 3.63 | 0.02 | 0.06 | 2.27 | 0.03 | 0.97 | 0 |
| 17132 | 'Maf' | 0 | 0 | 0.78 | 0 | 0.53 | 0 | 0.01 | 1.12 | 0 | 0.16 |
| 17133 | 'Maff' | 0 | 1.19 | 0.03 | 14 | 0.31 | 0.16 | 0 | 0.62 | 0.04 | 0.66 |
| 17134 | 'Mafg' | 8.55 | 6.36 | 9.67 | 12.2 | 7.98 | 8.09 | 15.3 | 8.35 | 4.94 | 8.52 |
| 17135 | 'Mafk' | 11.11 | 15.28 | 16.2 | 7.62 | 18.3 | 0.06 | 10.7 | 6.5 | 8.18 | 16.13 |
| 17136 | 'Mag' | 22.88 | 12.51 | 5.12 | 10.2 | 19.9 | 58.17 | 0.76 | 13.2 | 12.39 | 19.28 |
| 171382 | 'Trpm8' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 |
| 171388 | 'Bnpl' | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 1.47 | 0 | 0 |
| 171395 | 'Pkd111' | 0 | 0 | 0.03 | 0 | 0 | 0.41 | 0 | 0 | 0 | 0 |
| 171429 | 'Slc26a6' | 4.6 | 0.67 | 0 | 3.79 | 2.38 | 5.07 | 2.24 | 0 | 5.41 | 0 |
| 171463 | 'Il17rd' | 0.57 | 0.16 | 0 | 1.8 | 0 | 0 | 0.01 | 0.01 | 0.3 | 1.27 |
| 171469 | 'Gpr3711' | 69.69 | 59.47 | 99.1 | 64.6 | 29.5 | 131.5 | 58.1 | 58.03 | 62.23 | 12.49 |
| 171486 | 'Cd99l2' | 53.95 | 56.55 | 67.4 | 34.6 | 60.9 | 64.25 | 35.7 | 49.15 | 45.7 | 78.64 |
| 17149 | 'Magoh' | 33.86 | 39.28 | 38.1 | 72.5 | 66.9 | 51.08 | 46.9 | 56.89 | 57.28 | 40.83 |
| 17150 | 'Mfap2' | 15.9 | 20.87 | 20.9 | 44.8 | 17.7 | 3.68 | 11.6 | 9.08 | 5.75 | 18.03 |
| 171504 | 'Apobr' | 0 | 0 | 0 | 0 | 0 | 3.12 | 0 | 1.47 | 0 | 0.02 |
| 171508 | 'Creld1' | 81.16 | 112.8 | 65.8 | 30.5 | 62.5 | 50.93 | 75.6 | 90.86 | 84.55 | 92.02 |
| 17151 | 'Ccndbp1' | 55.14 | 53.81 | 82.7 | 114 | 41.3 | 77.97 | 58.6 | 71.98 | 68.67 | 70.49 |
| 17152 | 'Mak' | 0.04 | 5.57 | 2.49 | 2.64 | 0.93 | 0.94 | 0.02 | 1.99 | 0.05 | 0 |
| 17153 | 'Mal' | 15.92 | 22.19 | 1.94 | 0 | 25.4 | 57.14 | 0.04 | 11.25 | 0.07 | 1.44 |
| 171531 | 'Mlph' | 0.02 | 0 | 0 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 0 | 0.01 |
| 171543 | 'Bmf' | 0.01 | 0 | 0 | 0 | 0.01 | 0.03 | 0 | 0 | 0 | 0 |
| 17155 | 'Man1a' | 1.79 | 0 | 0.78 | 0 | 0 | 1.1 | 0 | 0.82 | 0.11 | 0 |
| 17156 | 'Man1a2' | 7.63 | 11.39 | 7.48 | 12.8 | 7.4 | 1 | 8.55 | 4.05 | 6.06 | 3.5 |
| 171567 | 'Nme7' | 2.79 | 5.86 | 6.31 | 0.02 | 14.1 | 5.28 | 10.5 | 15.35 | 12.73 | 9.08 |
| 17158 | 'Man2a1' | 0 | 0 | 0.05 | 0.83 | 0 | 0.01 | 0 | 0 | 0.34 | 0 |
| 171580 | 'Mical1' | 4.92 | 0.73 | 0 | 4.17 | 0 | 0 | 0 | 0 | 0 | 0.24 |
| 17159 | 'Man2b1' | 5.31 | 12.78 | 19.7 | 11.2 | 11.4 | 11.87 | 9.48 | 24.2 | 29.17 | 12.38 |
| 17160 | 'Man2b2' | 3.6 | 5.24 | 15.7 | 8.3 | 15 | 3.55 | 16.7 | 9.92 | 36.01 | 30.66 |
| 17161 | 'Maoa' | 10.48 | 17.06 | 11.7 | 1.16 | 9.14 | 2.69 | 8.79 | 18.13 | 10.43 | 7.75 |
| 17164 | 'Mapkapk2' | 0.68 | 1.99 | 0.1 | 6.43 | 1.05 | 0.02 | 8.02 | 0.73 | 0.35 | 0 |
| 17165 | 'Mapkapk5' | 1.59 | 7.69 | 5.05 | 8.81 | 11.3 | 6.93 | 10.1 | 9.77 | 13.2 | 1.6 |
| 17168 | 'Nprl3' | 23.91 | 30.69 | 21.7 | 6.1 | 23.1 | 14.88 | 25.7 | 21.37 | 23.48 | 37.07 |
| 17169 | 'Mark3' | 1.78 | 3.05 | 2.14 | 4.08 | 5.04 | 4.38 | 2.86 | 1.83 | 3.33 | 5.53 |
| 17171 | 'Mas1' | 0.03 | 0.01 | 0.01 | 0.04 | 0.14 | 0.01 | 0 | 0.02 | 0.1 | 0.01 |
| 17172 | 'Ascl1' | 1.19 | 1.36 | 2.19 | 8.5 | 0 | 0 | 2.23 | 0.02 | 0 | 0.32 |
| 17173 | 'Ascl2' | 0 | 0.57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17174 | 'Masp1' | 0.07 | 1.72 | 2.71 | 0 | 0.17 | 0.32 | 4.63 | 0.12 | 3.78 | 0.67 |
| 17175 | 'Masp2' | 1.37 | 0.02 | 0 | 0 | 0.77 | 0 | 0 | 0 | 0 | 0 |
| 17179 | 'Matk' | 191.3 | 147.2 | 133 | 126 | 270 | 307.4 | 225 | 187.1 | 142 | 210.35 |
| 17180 | 'Matn1' | 0 | 0 | 0.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17181 | 'Matn2' | 2.81 | 7 | 16.2 | 1.47 | 0.39 | 7.71 | 0.49 | 3.95 | 1.15 | 0.16 |
| 17183 | 'Matn4' | 0.02 | 0 | 18.3 | 2 | 1.5 | 0 | 6.49 | 0.34 | 0 | 0.08 |
| 17184 | 'Matr3' | 99.4 | 98.52 | 111 | 73.2 | 55.8 | 54.65 | 126 | 82.18 | 99.13 | 112.4 |
| 17187 | 'Max' | 68.63 | 55.89 | 53 | 33.8 | 43.6 | 48.18 | 62.4 | 90.99 | 85 | 73.64 |
| 17188 | 'Maz' | 7.5 | 5.64 | 5.44 | 9.42 | 8.81 | 0.69 | 9.44 | 2.96 | 2.61 | 4.26 |

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|-------|----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 17189 | 'Mb' | 6.88 | 1.12 | 26.4 | 4.1 | 6.58 | 8.17 | 7.08 | 5.6 | 5.86 | 7.29 |
| 17190 | 'Mbd1' | 11.2 | 5.28 | 8.28 | 8.12 | 17.9 | 10.98 | 11.1 | 5.08 | 13.18 | 7.57 |
| 17191 | 'Mbd2' | 6.94 | 0.99 | 0 | 2.72 | 0.02 | 0 | 4.4 | 2.15 | 1.84 | 1.85 |
| 17192 | 'Mbd3' | 16.49 | 13.24 | 11.9 | 50.7 | 25.9 | 13.12 | 27.4 | 29.71 | 31.77 | 15.12 |
| 17193 | 'Mbd4' | 4.64 | 10.23 | 5.73 | 2.49 | 1.01 | 0.97 | 0.58 | 5.8 | 3.45 | 2.41 |
| 17196 | 'Mbp' | 431.4 | 211.9 | 150 | 104 | #### | 1136 | 130 | 249.7 | 246.9 | 483.5 |
| 17199 | 'Mc1r' | 0.4 | 2.7 | 2.1 | 0 | 0.4 | 1.1 | 0.1 | 0.5 | 20.9 | 0.6 |
| 17201 | 'Mc3r' | 52.9 | 103.4 | 0 | 0 | 0.2 | 0 | 487 | 66.6 | 0 | 0.2 |
| 17202 | 'Mc4r' | 54.3 | 36.3 | 23.3 | 0 | 0 | 69.9 | 0.2 | 145.2 | 36 | 36.3 |
| 17203 | 'Mc5r' | 1.5 | 12.5 | 10 | 0 | 0.4 | 0 | 0 | 0 | 5.3 | 0 |
| 17207 | 'Mcf2l' | 6.15 | 12.38 | 7.02 | 10.4 | 4.94 | 4.96 | 15.8 | 9.7 | 13.32 | 10.95 |
| 17210 | 'Mcl1' | 5.69 | 7.11 | 2.94 | 22.7 | 2.22 | 4.28 | 1.03 | 3.41 | 4.77 | 4.6 |
| 17215 | 'Mcm3' | 0 | 2.82 | 0 | 0 | 0 | 0 | 0 | 0 | 4.35 | 0 |
| 17216 | 'Mcm2' | 0 | 0 | 3.06 | 0 | 0 | 0.01 | 0 | 1.6 | 4.18 | 2.81 |
| 17217 | 'Mcm4' | 7.09 | 9.78 | 10 | 11.7 | 1.33 | 0.76 | 8.29 | 4.24 | 4.85 | 5.27 |
| 17218 | 'Mcm5' | 0 | 0.03 | 3.55 | 0.02 | 0.45 | 0.04 | 0 | 0.58 | 0 | 0.02 |
| 17219 | 'Mcm6' | 7.14 | 12.28 | 5.62 | 4.58 | 6.71 | 15.13 | 18.8 | 12 | 7.37 | 12.84 |
| 17220 | 'Mcm7' | 5.58 | 4.43 | 4.72 | 8.45 | 14.7 | 11.31 | 13.3 | 12.11 | 2.7 | 1.65 |
| 17221 | 'Cd46' | 1.28 | 0.73 | 1.58 | 1.57 | 0.6 | 0.65 | 0.52 | 0.65 | 1.07 | 2.29 |
| 17222 | 'Anapc1' | 2.79 | 2.1 | 9.3 | 2.31 | 5.06 | 4.25 | 2.52 | 1.42 | 3.44 | 0.93 |
| 17229 | 'Tpsb2' | 0 | 0 | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17237 | 'Mgrn1' | 52.77 | 43.48 | 73.1 | 50.1 | 55.3 | 42.58 | 79.1 | 73.04 | 88.11 | 82.21 |
| 17242 | 'Mdk' | 28.71 | 13.81 | 12.7 | 27 | 9.29 | 29.13 | 30.7 | 15.1 | 19.73 | 6 |
| 17245 | 'Mdm1' | 6.7 | 3.17 | 2.94 | 4.05 | 13.5 | 3.17 | 2.88 | 2.26 | 0.55 | 4.15 |
| 17246 | 'Mdm2' | 9.8 | 12.26 | 13.9 | 33.2 | 20.1 | 7.52 | 10.3 | 13.83 | 5.43 | 15.18 |
| 17248 | 'Mdm4' | 8.92 | 5.33 | 2.76 | 7.57 | 4.39 | 11.23 | 6.92 | 3.07 | 3.76 | 7.75 |
| 17250 | 'Abcc1' | 7.17 | 1.08 | 0.16 | 5.46 | 1.21 | 2.44 | 0 | 7.55 | 2.41 | 2.8 |
| 17252 | 'Rdh11' | 14.19 | 14.65 | 18.6 | 27.5 | 5.75 | 20.9 | 0.03 | 21.45 | 1.41 | 10.22 |
| 17254 | 'Slc3a2' | 55.27 | 92.18 | 84.8 | 99.9 | 60 | 116 | 45.7 | 55.23 | 64.72 | 75.48 |
| 17256 | 'Mea1' | 318.7 | 231.2 | 267 | 266 | 274 | 340.7 | 199 | 251.4 | 199.6 | 209.49 |
| 17257 | 'Mecp2' | 1.57 | 1.64 | 1.77 | 0.14 | 3.01 | 1.54 | 1.36 | 2.48 | 1.93 | 1.4 |
| 17258 | 'Mef2a' | 3.22 | 3.77 | 5.61 | 10.7 | 5.89 | 2.27 | 2.34 | 2.04 | 5.21 | 0.19 |
| 17259 | 'Mef2b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.54 | 0 | 0 |
| 17260 | 'Mef2c' | 12.37 | 10.75 | 2.74 | 14.4 | 19.7 | 18.09 | 7.42 | 5.34 | 21.84 | 6.2 |
| 17261 | 'Mef2d' | 13.51 | 10.01 | 12.1 | 12.2 | 12.5 | 5.79 | 3.89 | 4.32 | 10.38 | 6.56 |
| 17268 | 'Meis1' | 2.1 | 0.41 | 0.03 | 0.07 | 16.5 | 0 | 0.05 | 0 | 2.39 | 0 |
| 17274 | 'Rab8a' | 58.56 | 62.29 | 53.5 | 58.9 | 43.3 | 55.39 | 43.2 | 65.19 | 62.3 | 75.54 |
| 17281 | 'Fyco1' | 2.58 | 0.57 | 4.75 | 1.01 | 2.7 | 5.63 | 0.81 | 1.31 | 2.03 | 3.32 |
| 17283 | 'Men1' | 35.53 | 17.85 | 22.4 | 28.6 | 33.2 | 36.85 | 33.8 | 28.4 | 36.3 | 30.59 |
| 17285 | 'Meox1' | 1.69 | 3.61 | 0 | 13 | 0 | 0 | 0.02 | 2.07 | 0 | 6.82 |
| 17286 | 'Meox2' | 5.59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17288 | 'Mep1b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.8 |
| 17289 | 'Mertk' | 0 | 0.03 | 0 | 2.01 | 0.92 | 1.68 | 0.01 | 2.39 | 0.19 | 0 |
| 17293 | 'Mesp2' | 0 | 0 | 0 | 0 | 0 | 1.51 | 0 | 0 | 4.02 | 0 |
| 17294 | 'Mest' | 86.76 | 113.5 | 112 | 83.4 | 136 | 97.62 | 92.6 | 85.65 | 101.2 | 122.2 |
| 17295 | 'Met' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.17 |
| 17299 | 'Mettl1' | 41.67 | 28.73 | 20.1 | 17.1 | 37.3 | 14.25 | 12.2 | 38.47 | 40.88 | 30.81 |
| 17300 | 'Foxc1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 |
| 17301 | 'Foxd2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 |
| 17304 | 'Mfge8' | 48.73 | 56.54 | 15.5 | 9.63 | 17.1 | 48.23 | 21.2 | 21.23 | 29.05 | 56.16 |
| 17305 | 'Mfng' | 4.56 | 1.31 | 6.95 | 15.2 | 0 | 7.67 | 0 | 0 | 0 | 24.59 |
| 17306 | 'Sypl2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.16 |
| 17308 | 'Mgat1' | 2.94 | 2.91 | 0.7 | 25.5 | 8.97 | 9.21 | 15.7 | 4.91 | 12.64 | 3.55 |
| 17309 | 'Mgat3' | 3.97 | 5.56 | 5.58 | 10.3 | 7.69 | 1.59 | 5.46 | 4.49 | 3.64 | 2.25 |
| 17311 | 'Kitl' | 0.75 | 0 | 0.01 | 0 | 0.43 | 0.59 | 3.31 | 0.23 | 0 | 0.29 |
| 17313 | 'Mgp' | 0 | 0 | 0 | 6.04 | 0.8 | 0 | 0 | 2.48 | 13.29 | 0 |
| 17314 | 'Mgmt' | 4.72 | 0.07 | 0.07 | 0.84 | 0 | 0 | 12.3 | 0 | 3.55 | 0.06 |
| 17318 | 'Mid1' | 2.32 | 2.97 | 1.86 | 1.95 | 1.63 | 0.02 | 1.23 | 1.06 | 3.57 | 2.04 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 17319 | 'Mif' | 935.8 | 976.4 | 1408 | 1418 | 744 | 1242 | 1004 | 991.8 | 895.1 | 979.75 |
| 17329 | 'Cxcl9' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17330 | 'Minpp1' | 53.63 | 44.12 | 58.4 | 33.6 | 28 | 36.82 | 54.2 | 27.09 | 55.44 | 23.93 |
| 17341 | 'Bhlha15' | 0 | 0.03 | 0 | 5.66 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 17342 | 'Mitf' | 0.78 | 0.69 | 0.33 | 2.4 | 0.2 | 2.98 | 0 | 0 | 0 | 0.02 |
| 17344 | 'Pias2' | 6.15 | 8.02 | 3.94 | 11.7 | 13.7 | 5.12 | 6.44 | 4.34 | 14.1 | 5.51 |
| 17345 | 'Mki67' | 0 | 0.02 | 0.01 | 0.01 | 0.01 | 0 | 0.3 | 0 | 0.03 | 0.01 |
| 17346 | 'Mknk1' | 6.96 | 6.4 | 3.04 | 10.6 | 11.7 | 5.37 | 4.63 | 7.24 | 9.4 | 6.27 |
| 17347 | 'Mknk2' | 0.59 | 0.63 | 1.94 | 0.29 | 3.08 | 0.01 | 0.03 | 1.85 | 1.68 | 1.11 |
| 17349 | 'Mlf1' | 0.2 | 3.58 | 5.26 | 91.6 | 3.4 | 6.25 | 0.75 | 0.07 | 0.04 | 5.13 |
| 17350 | 'Mlh1' | 14.37 | 11.03 | 9.16 | 0 | 15.4 | 11.78 | 5.27 | 6 | 12.96 | 11.3 |
| 17354 | 'Milt10' | 5.78 | 6.75 | 6.09 | 8.2 | 8.16 | 2.88 | 5.09 | 2.69 | 8.61 | 6.84 |
| 17355 | 'Aff1' | 0.24 | 0.55 | 0.47 | 0.51 | 0 | 0.33 | 0 | 0.44 | 0.43 | 0.03 |
| 17356 | 'Afdn' | 4.72 | 3.16 | 3.64 | 5.36 | 4.96 | 1.64 | 2.99 | 0.92 | 4.19 | 2.29 |
| 17357 | 'Marcksl1' | 129.2 | 71.66 | 54.9 | 223 | 75.7 | 24.05 | 48.6 | 72.68 | 77.68 | 43.48 |
| 17380 | 'Mme' | 0.11 | 0.01 | 0 | 0 | 1.47 | 0 | 1.29 | 0.1 | 0.84 | 0 |
| 17385 | 'Mmp11' | 0.02 | 1.3 | 2.16 | 0.09 | 3.55 | 5.28 | 0.03 | 4.14 | 0 | 1.36 |
| 17387 | 'Mmp14' | 2.77 | 1.11 | 2.81 | 1.86 | 1.7 | 0.2 | 0 | 1.68 | 2.04 | 0 |
| 17388 | 'Mmp15' | 1.01 | 1.08 | 2.34 | 0 | 4.38 | 0.03 | 2.13 | 0.16 | 2.18 | 0.4 |
| 17389 | 'Mmp16' | 4.5 | 2.12 | 3.93 | 1.13 | 8.4 | 5.64 | 8.53 | 4.51 | 5.89 | 3.75 |
| 17390 | 'Mmp2' | 2.98 | 1.64 | 11.3 | 4.07 | 0 | 0 | 7.18 | 0 | 1.26 | 0.01 |
| 17391 | 'Mmp24' | 22 | 15.86 | 13.1 | 7.63 | 12.5 | 25.12 | 21 | 18.34 | 24.43 | 16.97 |
| 17392 | 'Mmp3' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 17394 | 'Mmp8' | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 |
| 17395 | 'Mmp9' | 0 | 0.01 | 0 | 0 | 0.91 | 0 | 0.02 | 0 | 0 | 0.01 |
| 17420 | 'Mnat1' | 18.52 | 28.49 | 28.7 | 18.6 | 10.8 | 34.46 | 10 | 11.41 | 8.92 | 20.3 |
| 17423 | 'Ndst2' | 1.18 | 3.55 | 0.27 | 0.22 | 0.69 | 1.37 | 1.62 | 0.56 | 3.22 | 2.07 |
| 17425 | 'Foxk1' | 0 | 0 | 1.18 | 0 | 0.63 | 0.39 | 0.63 | 0.02 | 0.01 | 0 |
| 17427 | 'Mns1' | 0.43 | 0 | 0.13 | 4 | 0.2 | 3.83 | 0.79 | 0.77 | 0 | 0.18 |
| 17428 | 'Mnt' | 1.09 | 0.85 | 0.57 | 8.32 | 2.83 | 0.03 | 2.21 | 1.11 | 3.98 | 1.06 |
| 17433 | 'Mobp' | 101.8 | 51.9 | 6.67 | 8.32 | 3102 | 175.7 | 48.4 | 51.3 | 29.72 | 68.78 |
| 17434 | 'Mocs2' | 40.23 | 41.86 | 44.7 | 48.3 | 38.9 | 65.41 | 25.4 | 39.43 | 61.72 | 37.94 |
| 17436 | 'Me1' | 15.72 | 9.71 | 15 | 13.8 | 23.7 | 9.87 | 10.8 | 13.56 | 14.38 | 7.71 |
| 17441 | 'Mog' | 21.14 | 19.67 | 0 | 0 | 18 | 84.91 | 0.05 | 15.19 | 0 | 0.6 |
| 17444 | 'Grap2' | 0 | 0 | 0 | 0 | 0 | 0.49 | 0 | 0 | 0 | 0 |
| 17448 | 'Mdh2' | 707.1 | 570.2 | 806 | 765 | 845 | 1083 | 843 | 1087 | 847.4 | 804.8 |
| 17449 | 'Mdh1' | 756.9 | 673.5 | 1066 | 711 | 820 | 1153 | 1000 | 1062 | 847.3 | 795.35 |
| 17454 | 'Mov10' | 8.85 | 10.34 | 7.94 | 0 | 12.1 | 1.9 | 3.45 | 6.76 | 5.91 | 4.97 |
| 17463 | 'Psmc7' | 170.3 | 140.2 | 156 | 152 | 135 | 142.2 | 106 | 188.3 | 119.7 | 131.55 |
| 17470 | 'Cd200' | 285.5 | 392.9 | 266 | 205 | 241 | 239.6 | 213 | 367.4 | 343.6 | 318.46 |
| 17475 | 'Mpdz' | 0.41 | 0.66 | 1.52 | 6.43 | 0.5 | 4.65 | 3.16 | 0.33 | 0.97 | 2.5 |
| 17476 | 'Mpeg1' | 1.55 | 0 | 0 | 0 | 1.91 | 4.9 | 0 | 0 | 0 | 0 |
| 17480 | 'Mpl' | 0 | 0 | 0 | 0 | 0 | 0.19 | 0.02 | 0 | 0 | 0 |
| 17523 | 'Mpo' | 0 | 0.02 | 0.49 | 0 | 0 | 0 | 0 | 1.11 | 0 | 0 |
| 17524 | 'Mpp1' | 31.68 | 44.89 | 42.6 | 57.7 | 33.2 | 36.54 | 21.1 | 47.72 | 32.51 | 36.79 |
| 17527 | 'Mpv17' | 48.28 | 85.42 | 52.8 | 66.3 | 65.7 | 107.6 | 78.5 | 110.3 | 110.5 | 97.87 |
| 17532 | 'Mras' | 8.92 | 8.89 | 11.6 | 1.39 | 8.27 | 2.12 | 10.1 | 5.96 | 7.34 | 6.88 |
| 17534 | 'Mrc2' | 0 | 0.2 | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17535 | 'Mre11a' | 1.77 | 1.67 | 0.12 | 1.99 | 0.92 | 1.38 | 1.06 | 1.39 | 0.23 | 3.02 |
| 17536 | 'Meis2' | 0.2 | 0 | 0 | 0 | 6.19 | 3.45 | 0 | 3.19 | 0.26 | 0 |
| 17537 | 'Meis3' | 25.65 | 17.63 | 39.7 | 37 | 20.7 | 25.28 | 29.9 | 29.34 | 30.48 | 26.42 |
| 17540 | 'Mrvi1' | 0 | 0 | 0 | 0 | 0 | 0.35 | 0 | 0 | 0 | 0 |
| 17681 | 'Msc' | 0 | 0.08 | 1.04 | 0 | 0 | 0 | 0 | 0 | 3.69 | 1.4 |
| 17684 | 'Cited2' | 4.17 | 6.33 | 2.18 | 4.82 | 3.23 | 3.07 | 21.5 | 1.49 | 12.18 | 3.04 |
| 17685 | 'Msh2' | 171.8 | 224.6 | 256 | 0 | 184 | 175.8 | 90.7 | 327.8 | 292.4 | 278.4 |
| 17686 | 'Msh3' | 57.6 | 75.4 | 82.6 | 0 | 19.8 | 2.6 | 63.8 | 23.9 | 69.3 | 38.5 |
| 17687 | 'Msh5' | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0.09 |
| 17688 | 'Msh6' | 65.4 | 21.2 | 22.9 | 0 | 12.7 | 1.9 | 35.1 | 12.8 | 18.3 | 66.8 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 17690 | 'Msi1' | 1.47 | 0.69 | 4.31 | 3.08 | 2.3 | 0.2 | 1.32 | 0.5 | 1.34 | 0.76 |
| 17691 | 'Sik1' | 0.88 | 3.89 | 3.27 | 7.02 | 0.19 | 2.16 | 2.26 | 0 | 1.02 | 0.89 |
| 17692 | 'Msl3' | 2.1 | 5.15 | 3.26 | 7.49 | 2.18 | 5.23 | 0.02 | 0.81 | 0.45 | 3.54 |
| 17698 | 'Msn' | 1.15 | 0 | 2.49 | 0 | 2.1 | 2.68 | 5.67 | 1.07 | 2.05 | 1.92 |
| 17701 | 'Msx1' | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 |
| 17702 | 'Msx2' | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 |
| 17713 | 'Grpel1' | 35.71 | 31.74 | 55 | 41 | 39.2 | 36.92 | 48.9 | 47.28 | 37.16 | 28.31 |
| 17714 | 'Grpel2' | 13.4 | 13.28 | 4.59 | 13.2 | 8.32 | 18.21 | 5.91 | 12.09 | 11.76 | 5.2 |
| 17748 | 'Mt1' | 136.8 | 161.1 | 267 | 297 | 96.7 | 281.4 | 176 | 107.8 | 140 | 68.24 |
| 17749 | 'Polr2k' | 74.26 | 144.3 | 94 | 160 | 110 | 85.97 | 88.9 | 67.24 | 114.9 | 130.36 |
| 17750 | 'Mt2' | 30.97 | 45.47 | 86.7 | 78.8 | 36.9 | 96.16 | 62.7 | 27.03 | 5.39 | 8.99 |
| 17751 | 'Mt3' | 348.5 | 470.6 | 531 | 415 | 501 | 968.4 | 495 | 303.5 | 389.6 | 349 |
| 17754 | 'Map1a' | 5.23 | 5.5 | 12.8 | 11.3 | 15.1 | 10.63 | 8.56 | 6.39 | 5.57 | 9.57 |
| 17755 | 'Map1b' | 144.5 | 159.5 | 139 | 149 | 155 | 161.3 | 103 | 187.5 | 126.2 | 156.49 |
| 17756 | 'Map2' | 17.88 | 18.09 | 12.8 | 17.8 | 12.2 | 10.64 | 12.9 | 10.29 | 14.41 | 17.53 |
| 17758 | 'Map4' | 77.12 | 67.29 | 74.5 | 61.4 | 98.3 | 41.52 | 64.5 | 84.72 | 84.52 | 77.88 |
| 17760 | 'Map6' | 60.23 | 47.14 | 66.1 | 30.5 | 50.3 | 31.61 | 47.8 | 37.94 | 34.66 | 33.57 |
| 17761 | 'Map7' | 11.33 | 11.39 | 2.65 | 20.5 | 10.7 | 7.24 | 13.3 | 5.52 | 2.43 | 11.06 |
| 17762 | 'Mapt' | 109.6 | 91.51 | 110 | 53.5 | 95 | 113.8 | 82 | 109.6 | 84.5 | 77.96 |
| 17763 | 'Mtcp1' | 3.13 | 2.52 | 0.04 | 0 | 0 | 0 | 0 | 3.99 | 3.49 | 0 |
| 17764 | 'Mtf1' | 2.11 | 3.06 | 1.1 | 7.42 | 2.19 | 2.59 | 2.25 | 1.33 | 0.95 | 2.08 |
| 17765 | 'Mtf2' | 23.79 | 9.78 | 11.9 | 33.1 | 28.6 | 26.15 | 21.8 | 19.83 | 30.38 | 23.35 |
| 17766 | 'Nudt1' | 10.93 | 9.52 | 4.18 | 0.06 | 8.75 | 37.4 | 0 | 6.42 | 7.4 | 8.83 |
| 17768 | 'Mthfd2' | 11.07 | 24.09 | 13.2 | 2.8 | 15 | 18.75 | 20.5 | 16.87 | 3.4 | 28.9 |
| 17769 | 'Mthfr' | 0.01 | 3.4 | 7.1 | 0 | 2.25 | 2.2 | 6.43 | 1.41 | 4.61 | 2.72 |
| 17771 | 'Tesmin' | 0.04 | 0 | 0.02 | 0 | 0.37 | 0.02 | 0 | 0.93 | 0 | 0 |
| 17772 | 'Mtm1' | 1.08 | 0.61 | 2.91 | 4.93 | 1.79 | 2.01 | 5.58 | 1.1 | 9.9 | 3.09 |
| 17773 | 'Mtnr1a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 | 0 | 0 |
| 17775 | 'Laptm4a' | 169.8 | 157.9 | 94.3 | 145 | 112 | 161.4 | 125 | 122.6 | 170.1 | 169.84 |
| 17776 | 'Mast2' | 8.33 | 7.7 | 3.98 | 4.46 | 0.55 | 6.42 | 18.1 | 6.23 | 7.13 | 3.42 |
| 17777 | 'Mttp' | 4.61 | 1.6 | 11.4 | 6.91 | 2.35 | 0.29 | 9.01 | 4.28 | 5.96 | 10.01 |
| 17826 | 'Fam89b' | 28.46 | 31.15 | 23.3 | 36.8 | 20.8 | 17.34 | 38.3 | 33.62 | 19.59 | 28.47 |
| 17827 | 'Mtx1' | 23.67 | 27.38 | 39.6 | 60.1 | 37.6 | 68.06 | 45.1 | 38.41 | 35.07 | 28.43 |
| 17828 | 'Bloc1s5' | 44.33 | 21.23 | 28.3 | 10.4 | 18.1 | 19.82 | 6.32 | 29.82 | 35.73 | 9.31 |
| 17829 | 'Muc1' | 0 | 0 | 0.17 | 1.39 | 0 | 0 | 0 | 0.07 | 0.38 | 0.09 |
| 17831 | 'Muc2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.57 |
| 17833 | 'Muc5ac' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17837 | 'Mug2' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17841 | 'Mup2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.14 | 0 | 0 |
| 17843 | 'Mup4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 |
| 17844 | 'Mup5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 |
| 17846 | 'Commd1' | 79.98 | 85.02 | 28.5 | 113 | 121 | 118.1 | 110 | 83.34 | 62.01 | 84.06 |
| 17847 | 'Usp34' | 4.37 | 3.64 | 6.9 | 10.5 | 1.62 | 3.24 | 5.66 | 3.11 | 7.68 | 4.68 |
| 17850 | 'Mut' | 9.09 | 10.05 | 13.5 | 0.48 | 4.89 | 5.4 | 12.6 | 4.87 | 10.29 | 9.68 |
| 17855 | 'Mvk' | 26.51 | 17.87 | 15 | 19.5 | 16.9 | 18.98 | 11.6 | 11.79 | 11.13 | 10.37 |
| 17859 | 'Mxi1' | 4.73 | 4.9 | 3.3 | 7.98 | 7.37 | 12 | 12.7 | 2.88 | 7.43 | 3.22 |
| 17863 | 'Myb' | 3.31 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.95 | 0 | 0.09 |
| 17864 | 'Mybl1' | 0.01 | 0.07 | 0.22 | 0 | 1.05 | 0.01 | 0.21 | 0.04 | 0.31 | 1.11 |
| 17865 | 'Mybl2' | 0.65 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.06 | 0 | 0.02 |
| 17868 | 'Mybpc3' | 0.12 | 0 | 0.39 | 0.6 | 0.05 | 0.11 | 0.04 | 0.04 | 0.12 | 0.13 |
| 17869 | 'Myc' | 0.51 | 13.95 | 4.51 | 34.9 | 0.04 | 0 | 19.6 | 3.69 | 2.6 | 2.48 |
| 17872 | 'Ppp1r15a' | 35.39 | 100.8 | 64.4 | 239 | 27.9 | 72.49 | 61.9 | 19.98 | 21.26 | 86.89 |
| 17873 | 'Gadd45b' | 1.64 | 25.65 | 9.89 | 9.12 | 4.92 | 3.73 | 6.78 | 4.76 | 4.61 | 3.76 |
| 17874 | 'Myd88' | 2.16 | 3.44 | 3.27 | 6.87 | 2.72 | 11.13 | 4.64 | 2.28 | 0.5 | 3.88 |
| 17876 | 'Myef2' | 44.77 | 45.27 | 34.6 | 34.4 | 36.7 | 34.79 | 27 | 41.44 | 53.86 | 28.38 |
| 17880 | 'Myh11' | 0 | 0.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17882 | 'Myh2' | 0 | 0 | 1.01 | 5.32 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17883 | 'Myh3' | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0.59 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 17884 | 'Myh4' | 0 | 0 | 0.66 | 1.45 | 0 | 0 | 0 | 0.2 | 0 | 0 |
| 17885 | 'Myh8' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.24 | 0 | 0 |
| 17886 | 'Myh9' | 0.24 | 0.16 | 0.58 | 0.01 | 1.35 | 0 | 0.02 | 1.62 | 0.81 | 0.78 |
| 17888 | 'Myh6' | 0.62 | 0.08 | 1.93 | 0.45 | 0.4 | 0.55 | 0.37 | 0.17 | 0.5 | 0.49 |
| 17896 | 'Myl4' | 5.56 | 11.75 | 0.06 | 0 | 10.3 | 6.66 | 24 | 5.65 | 9.48 | 0.2 |
| 17897 | 'Myl3' | 4.37 | 0.73 | 14.9 | 3.33 | 3.37 | 4.92 | 3.67 | 1.87 | 3.56 | 4.63 |
| 17898 | 'Myl7' | 0.08 | 1.86 | 0.27 | 8.16 | 0.09 | 0 | 0 | 0 | 2.16 | 0 |
| 17901 | 'Myl1' | 0.06 | 0.07 | 0.25 | 0.66 | 0.39 | 0.17 | 0 | 0 | 0.06 | 0.11 |
| 17904 | 'Myl6' | 681.7 | 559.6 | 724 | 678 | 882 | 824.3 | 680 | 684.3 | 669 | 603.05 |
| 17906 | 'Myl2' | 8.13 | 1.14 | 29.6 | 6.52 | 6.25 | 12.61 | 8.34 | 3.59 | 8.41 | 12.83 |
| 17907 | 'Mylpf' | 0 | 0 | 0.15 | 0 | 0 | 0 | 0.62 | 0 | 0 | 0 |
| 17909 | 'Myo10' | 6.32 | 6.61 | 7.63 | 10.1 | 2.33 | 1.17 | 2.8 | 3.63 | 2.78 | 5.57 |
| 17910 | 'Myo15' | 0.27 | 0.17 | 1.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17912 | 'Myo1b' | 2.77 | 3.23 | 1.54 | 2.06 | 4.98 | 0.1 | 0.11 | 0.88 | 0.21 | 1.99 |
| 17913 | 'Myo1c' | 0.01 | 0.12 | 4.97 | 2.82 | 1.07 | 1.52 | 5.7 | 2.86 | 2.52 | 5.93 |
| 17916 | 'Myo1f' | 0 | 0 | 0 | 0 | 0 | 3.36 | 0 | 0 | 0 | 0 |
| 17918 | 'Myo5a' | 7.8 | 7.25 | 14 | 9.96 | 5.48 | 7.12 | 10.9 | 6 | 6.99 | 5.55 |
| 17919 | 'Myo5b' | 0.58 | 0 | 2.73 | 1.8 | 0.01 | 0.01 | 1.84 | 0.35 | 0 | 0 |
| 17920 | 'Myo6' | 6.45 | 8.92 | 2.35 | 9.09 | 6.47 | 8.67 | 4.66 | 1.47 | 3.44 | 6.98 |
| 17921 | 'Myo7a' | 0.28 | 3.67 | 0.96 | 1.59 | 1.84 | 0.76 | 1.62 | 0.41 | 0.94 | 1.29 |
| 17922 | 'Myo7b' | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17925 | 'Myo9b' | 4.93 | 2.44 | 0.76 | 8.2 | 7.25 | 1.09 | 5.81 | 2.9 | 7.18 | 4.26 |
| 17926 | 'Myoc' | 2.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17927 | 'Myod1' | 0 | 1.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17929 | 'Myom1' | 0.01 | 0.01 | 0.22 | 0.04 | 0.01 | 1.6 | 0.01 | 0 | 0.01 | 0.05 |
| 17930 | 'Myom2' | 0.02 | 0 | 1.22 | 6.04 | 0 | 0.06 | 0.02 | 3.06 | 0.03 | 0.03 |
| 17931 | 'Ppp1r12a' | 15.14 | 14.45 | 5.79 | 19.9 | 19 | 15.37 | 17.3 | 20.17 | 17.98 | 21.87 |
| 17932 | 'Myt1' | 0.13 | 1.33 | 3.76 | 3.61 | 1.03 | 1.22 | 2.41 | 0.86 | 0.26 | 4.26 |
| 17933 | 'Myt1l' | 37.78 | 43.35 | 30.8 | 24.4 | 35.4 | 30.32 | 28.4 | 37.06 | 19.55 | 25.17 |
| 17936 | 'Nab1' | 2.18 | 1.67 | 0.35 | 0 | 1.54 | 2.81 | 0.11 | 3.78 | 3.53 | 0.16 |
| 17937 | 'Nab2' | 0.61 | 1.21 | 1.69 | 3.33 | 8.54 | 0.1 | 0.02 | 0.03 | 0.07 | 0 |
| 17938 | 'Naca' | 298.9 | 298.1 | 257 | 307 | 260 | 364.8 | 396 | 303.1 | 239.5 | 250.57 |
| 17939 | 'Naga' | 7.96 | 28.68 | 23.9 | 7.73 | 21.4 | 37.68 | 23.4 | 27.41 | 66.12 | 52.08 |
| 17948 | 'Naip2' | 0.01 | 0.05 | 0.1 | 0.16 | 0.06 | 1.46 | 0 | 0.29 | 0.05 | 0 |
| 17951 | 'Naip5' | 0.42 | 2.85 | 1.33 | 2.16 | 1.53 | 0.99 | 2.08 | 0.54 | 1.63 | 0.64 |
| 17954 | 'Nap1l2' | 55.53 | 88.8 | 97.6 | 47.9 | 56.1 | 48.41 | 96 | 82 | 52.18 | 44.93 |
| 17955 | 'Nap1l4' | 141.2 | 152.9 | 133 | 200 | 138 | 165.6 | 157 | 122.7 | 134.1 | 126.48 |
| 17957 | 'Napb' | 120.9 | 144 | 179 | 189 | 95.7 | 52.05 | 190 | 172 | 109.7 | 90.42 |
| 17960 | 'Nat1' | 0 | 0.91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.97 |
| 17961 | 'Nat2' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0.1 | 0 |
| 17965 | 'Nbl1' | 0.05 | 2.08 | 0.06 | 0 | 20.7 | 0 | 3.09 | 2.12 | 0.02 | 0.15 |
| 17966 | 'Nbr1' | 16.08 | 13.26 | 25.2 | 8.32 | 9.43 | 5.27 | 19.5 | 16.33 | 19.64 | 23.74 |
| 17967 | 'Ncam1' | 137.5 | 165 | 129 | 100 | 96.8 | 55.11 | 136 | 154.5 | 144.4 | 154.54 |
| 17968 | 'Ncam2' | 4.77 | 4.48 | 3.86 | 1.9 | 2.21 | 2.49 | 6.68 | 6.3 | 2.15 | 0.8 |
| 17969 | 'Ncf1' | 0 | 0.05 | 0.05 | 0.04 | 0.25 | 7.55 | 0.07 | 1.52 | 0.02 | 0.02 |
| 17970 | 'Ncf2' | 0.02 | 0 | 2.72 | 0 | 0 | 2.41 | 0 | 0.05 | 0 | 0.01 |
| 17972 | 'Ncf4' | 0 | 1.32 | 0 | 0 | 0 | 1.69 | 0 | 0 | 0 | 0 |
| 17973 | 'Nck1' | 21.5 | 18.69 | 13.9 | 6.5 | 12.3 | 24.86 | 10.3 | 18.69 | 8.58 | 3.39 |
| 17974 | 'Nck2' | 0.83 | 0.22 | 0.53 | 3.75 | 6.76 | 0.16 | 1.32 | 3.05 | 3.91 | 4.9 |
| 17975 | 'Ncl' | 28.96 | 25.43 | 29.9 | 51.1 | 31.1 | 30.02 | 25.1 | 33.35 | 33.52 | 24.94 |
| 17977 | 'Ncoa1' | 7.83 | 6.33 | 5.96 | 6.9 | 4.34 | 4.44 | 3.21 | 3.82 | 5.19 | 4.3 |
| 17978 | 'Ncoa2' | 2.25 | 3.55 | 6.61 | 0 | 0.88 | 1.64 | 6.26 | 1.51 | 1.18 | 5.72 |
| 17979 | 'Ncoa3' | 6.96 | 7.32 | 8.83 | 18.1 | 6.69 | 5.79 | 5.88 | 3.64 | 6.62 | 5.96 |
| 17984 | 'Ndn' | 1802 | 1607 | 1305 | 944 | 1295 | 1442 | 1404 | 609.2 | 1525 | 1780.72 |
| 17986 | 'Ndp' | 2.83 | 1.94 | 0 | 6.04 | 3.23 | 0 | 0.28 | 0 | 3.35 | 1.67 |
| 17988 | 'Ndrgr1' | 45.51 | 38.54 | 46.9 | 45.2 | 37.4 | 72.8 | 41.2 | 27.11 | 15.37 | 6.05 |
| 17991 | 'Ndufa2' | 448.7 | 394.7 | 560 | 446 | 383 | 767.6 | 448 | 286.2 | 540.4 | 381.56 |
| 17992 | 'Ndufa4' | 1027 | 991 | 1199 | 958 | 962 | 1161 | 1125 | 1000 | 1019 | 997.95 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 18099 | 'Nlk' | 6.87 | 2.43 | 1.76 | 2.43 | 5.8 | 1.57 | 4.24 | 1.28 | 0.32 | 2.04 |
| 18100 | 'Mrpl40' | 97.8 | 71.7 | 103 | 73.8 | 82.4 | 125.5 | 113 | 139.1 | 115 | 122.96 |
| 18101 | 'Nmbr' | 0 | 13.77 | 0 | 0 | 1.59 | 0 | 0 | 1.58 | 0 | 0.86 |
| 18102 | 'Nme1' | 631.5 | 641 | 565 | 842 | 561 | 928.3 | 541 | 838.9 | 780.6 | 663.07 |
| 18103 | 'Nme2' | 241.7 | 242 | 193 | 261 | 155 | 291 | 239 | 278.7 | 266.5 | 260.55 |
| 18104 | 'Nqo1' | 0.29 | 2.82 | 1.41 | 0.04 | 0.38 | 11.32 | 0 | 2.64 | 0.03 | 3.92 |
| 18105 | 'Nqo2' | 7.71 | 2.73 | 3.84 | 6.86 | 3.02 | 4.55 | 6.09 | 1.95 | 0.68 | 1.78 |
| 18107 | 'Nmt1' | 40.68 | 30.41 | 26.2 | 42.4 | 39.6 | 23.71 | 48.9 | 25.02 | 36.46 | 42.61 |
| 18108 | 'Nmt2' | 6.34 | 6.3 | 4.54 | 0.88 | 4.62 | 3.41 | 4.08 | 2.25 | 1.41 | 7.92 |
| 18109 | 'Mycn' | 6.02 | 7.58 | 2.1 | 14.9 | 0 | 0 | 7.17 | 7.24 | 6.09 | 0 |
| 18111 | 'Nnat' | 829.8 | 1300 | 752 | 728 | 958 | 1587 | 670 | 1013 | 757.9 | 1700.99 |
| 18113 | 'Nnmt' | 5.39 | 2.1 | 3.61 | 13.3 | 0 | 0 | 0 | 16.04 | 0 | 1.49 |
| 18114 | 'Rrp1' | 391.5 | 352 | 402 | 252 | 415 | 512.9 | 390 | 376.7 | 397 | 400.55 |
| 18115 | 'Nnt' | 7.29 | 8.69 | 1.76 | 15 | 9.09 | 3.76 | 13 | 7.34 | 7.52 | 4.4 |
| 18117 | 'Emc8' | 13.98 | 23.95 | 19.6 | 5.25 | 12.7 | 9.3 | 25.9 | 13.17 | 29.69 | 12.72 |
| 18119 | 'Nodal' | 0 | 0 | 0 | 5.58 | 0 | 11.29 | 0 | 0 | 10.96 | 0.1 |
| 18120 | 'Mrpl49' | 48.38 | 52.7 | 44.5 | 94.4 | 62.2 | 84.17 | 53.7 | 57.99 | 31.42 | 68.92 |
| 18121 | 'Nog' | 0 | 0 | 0.08 | 1.67 | 0.08 | 0 | 0 | 0.65 | 0 | 0 |
| 18124 | 'Nr4a3' | 0 | 0.85 | 0.09 | 0.46 | 0 | 0.06 | 0.02 | 0 | 0.06 | 0.01 |
| 18125 | 'Nos1' | 17.72 | 8.89 | 1.45 | 3.45 | 5.85 | 15.42 | 2.05 | 3.19 | 11.6 | 13.24 |
| 18127 | 'Nos3' | 1.05 | 0.63 | 2.57 | 0.62 | 0.61 | 2.07 | 0.78 | 1.45 | 1.36 | 2.75 |
| 18128 | 'Notch1' | 0.99 | 0 | 0.02 | 2.67 | 1.25 | 0.76 | 1.27 | 0.81 | 1.84 | 0.3 |
| 18129 | 'Notch2' | 1.39 | 0.46 | 1.97 | 1 | 2.36 | 0.42 | 0.33 | 1.33 | 1.56 | 1.8 |
| 18130 | 'Ints6' | 2.77 | 1.04 | 4.13 | 1.09 | 0.52 | 1.59 | 5.31 | 2.56 | 5.05 | 3.56 |
| 18131 | 'Notch3' | 1.07 | 0.72 | 0.08 | 1.19 | 0.02 | 0.06 | 0.74 | 0.12 | 0.07 | 0.23 |
| 18132 | 'Notch4' | 0.21 | 0.36 | 0.19 | 0.27 | 0.11 | 0 | 0.07 | 0.14 | 0.76 | 0.2 |
| 18133 | 'Nov' | 0 | 0 | 0 | 0 | 0 | 0.5 | 4.62 | 0.1 | 0.51 | 2.87 |
| 18139 | 'Zfp638' | 9.83 | 9.42 | 9.4 | 7.09 | 5.03 | 5.31 | 12.4 | 12.12 | 10.92 | 13.82 |
| 18140 | 'Uhrf1' | 0 | 0.01 | 0 | 0 | 0.01 | 2.42 | 0 | 0.01 | 0 | 0 |
| 18141 | 'Nup50' | 4.96 | 9.91 | 11.3 | 11.4 | 6.36 | 5.58 | 7.34 | 11.88 | 12.51 | 8.46 |
| 18142 | 'Npas1' | 0 | 0 | 0.39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18143 | 'Npas2' | 0 | 3.14 | 0 | 4.85 | 0.67 | 0 | 7.78 | 0.02 | 0 | 2.16 |
| 18145 | 'Npc1' | 3.24 | 1.89 | 11.2 | 1.65 | 6.83 | 5.06 | 3.75 | 4.94 | 1.94 | 3.62 |
| 18146 | 'Npdc1' | 328.6 | 377.2 | 401 | 241 | 238 | 413.6 | 383 | 424.5 | 357.9 | 468.8 |
| 18148 | 'Npm1' | 142.3 | 173.5 | 142 | 211 | 144 | 157.7 | 118 | 147.8 | 152.1 | 131.76 |
| 18150 | 'Npm3' | 4.64 | 4.5 | 6.62 | 8.65 | 0 | 16.47 | 5.73 | 16.21 | 7.94 | 10.54 |
| 18155 | 'Pnoc' | 103.6 | 80.23 | 77.5 | 105 | 84 | 99.73 | 15.9 | 159.9 | 97.42 | 19.31 |
| 18158 | 'Nppb' | 0.3 | 0 | 0.39 | 0.16 | 0.25 | 0.38 | 0.17 | 0 | 0.07 | 0.06 |
| 18159 | 'Nppc' | 5.3 | 4.67 | 5.44 | 5.5 | 2.78 | 3.41 | 10.4 | 10.24 | 5.21 | 8.14 |
| 18160 | 'Npr1' | 0.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.98 | 10.95 |
| 18163 | 'Ctnnd2' | 10.74 | 8.59 | 11.4 | 7.87 | 15.9 | 13.24 | 5.68 | 3.44 | 10.53 | 6.92 |
| 18164 | 'Nptx1' | 13.16 | 2.64 | 6.03 | 3.74 | 6.92 | 2.51 | 7.79 | 4.31 | 3.91 | 6.91 |
| 18166 | 'Npy1r' | 110.1 | 43 | 41.6 | 0 | 5.6 | 71.9 | 296 | 255.4 | 40.7 | 176.9 |
| 18167 | 'Npy2r' | 322.4 | 72.8 | 218 | 0 | 216 | 13 | 639 | 81.4 | 21.6 | 40 |
| 18168 | 'Npy5r' | 9.9 | 0 | 22.1 | 0 | 19.7 | 40.5 | 105 | 86.8 | 26.8 | 28.6 |
| 18173 | 'Slc11a1' | 0.02 | 0 | 0 | 0 | 0 | 7.17 | 0 | 0 | 0.02 | 0 |
| 18174 | 'Slc11a2' | 6.82 | 12.82 | 7.75 | 1.39 | 6.85 | 9.42 | 16.3 | 17.42 | 17.66 | 5.08 |
| 18175 | 'Nrap' | 0.02 | 0 | 0.04 | 3.94 | 0.01 | 0.01 | 0.02 | 0.69 | 0.02 | 0.01 |
| 18176 | 'Nras' | 7.53 | 9.63 | 5.08 | 9.14 | 11.1 | 8.95 | 3.48 | 4.91 | 8.12 | 5.36 |
| 18181 | 'Nrf1' | 5.96 | 2.45 | 9.07 | 6.87 | 6.96 | 8.86 | 0.07 | 5.75 | 12.48 | 13.49 |
| 18183 | 'Nrg3' | 1.48 | 0.02 | 1.24 | 2.39 | 1.9 | 2.71 | 0 | 1.34 | 1.43 | 0.78 |
| 18185 | 'Nrl' | 0.8 | 1.44 | 0 | 6.58 | 0 | 4.42 | 0 | 0.03 | 5.41 | 0.04 |
| 18186 | 'Nrp1' | 31.04 | 13.1 | 10.9 | 1.87 | 16.7 | 11.11 | 30.2 | 15.59 | 3.47 | 20.41 |
| 18187 | 'Nrp2' | 18.43 | 20.09 | 5.45 | 2.2 | 20.4 | 1.34 | 9.11 | 4.64 | 4.81 | 5.91 |
| 18188 | 'Nrtn' | 0 | 0 | 0.07 | 0 | 1.14 | 0 | 0 | 0 | 0 | 0 |
| 18189 | 'Nrxn1' | 57.12 | 47.66 | 37.2 | 42.7 | 39.2 | 58.39 | 72.1 | 40.31 | 34.74 | 27.91 |
| 18190 | 'Nrxn2' | 11.38 | 11.96 | 15.8 | 16.6 | 22.5 | 15.41 | 14.3 | 12.3 | 9.94 | 11.98 |
| 18191 | 'Nrxn3' | 76.65 | 67.46 | 48.4 | 36.4 | 48.3 | 43.78 | 48.7 | 70.69 | 40.35 | 15.64 |

| | | | | | | | | | | | |
|-------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 18193 | 'Nsd1' | 5.51 | 3.14 | 2.77 | 6.36 | 6.18 | 4.47 | 3.53 | 3.72 | 7.73 | 5.72 |
| 18194 | 'Nsdhl' | 18.24 | 11.91 | 10.2 | 32.2 | 30.4 | 49.49 | 17.4 | 26.8 | 17.5 | 22.16 |
| 18195 | 'Nsf' | 252.1 | 240.5 | 321 | 169 | 241 | 243.4 | 389 | 329.4 | 334.4 | 242.53 |
| 18196 | 'Nsg1' | 497.9 | 482.9 | 477 | 384 | 471 | 440.4 | 486 | 618.1 | 447.7 | 433.66 |
| 18197 | 'Nsg2' | 240.7 | 225.5 | 281 | 123 | 268 | 206.3 | 263 | 256.7 | 310.9 | 291.41 |
| 18201 | 'Nsmaf' | 2.98 | 6.88 | 6.19 | 1.11 | 5.55 | 2.01 | 13.8 | 2.01 | 13.35 | 6.45 |
| 18203 | 'Ntan1' | 55.04 | 63.71 | 61.8 | 34.7 | 49.7 | 44.09 | 36 | 60.18 | 46.1 | 56.84 |
| 18205 | 'Ntf3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.86 | 0 | 0 |
| 18207 | 'Nthl1' | 0 | 4.67 | 0.78 | 0.05 | 6.48 | 9.9 | 0 | 3.21 | 2.51 | 2.29 |
| 18208 | 'Ntn1' | 0 | 0 | 3.61 | 0.02 | 0.03 | 3.18 | 0 | 0 | 0 | 0.98 |
| 18209 | 'Ntn3' | 2.28 | 1.33 | 1.49 | 1.66 | 0.6 | 0.64 | 0.97 | 1.84 | 2.51 | 0.99 |
| 18212 | 'Ntrk2' | 42.84 | 49.94 | 34.5 | 35.2 | 24.2 | 39.68 | 46.6 | 33.25 | 43.15 | 37.45 |
| 18213 | 'Ntrk3' | 31.17 | 22.06 | 20 | 10.7 | 20.8 | 28.28 | 18.8 | 17.37 | 15.99 | 16.12 |
| 18214 | 'Ddr2' | 0 | 0 | 1.7 | 0 | 0.33 | 0.98 | 2.38 | 0 | 0 | 0 |
| 18216 | 'Ntsr1' | 0.33 | 0.15 | 2.55 | 0 | 0 | 0 | 0 | 2.51 | 7.13 | 2.11 |
| 18217 | 'Ntsr2' | 121 | 126.3 | 50.9 | 43.9 | 24.2 | 179.2 | 77.3 | 56.21 | 99.3 | 37.86 |
| 18218 | 'Dusp8' | 31.06 | 26.13 | 53.7 | 31.1 | 50.5 | 49.66 | 46.1 | 47.65 | 31.51 | 38.12 |
| 18220 | 'Nucb1' | 58.86 | 68.88 | 67.7 | 41 | 118 | 92.42 | 86.2 | 93.49 | 151.1 | 147.24 |
| 18221 | 'Nudc' | 282.7 | 278.2 | 234 | 198 | 281 | 310 | 319 | 274.2 | 331.4 | 278.91 |
| 18222 | 'Numb' | 2.65 | 6.51 | 1.52 | 6.65 | 3.83 | 1.22 | 7.61 | 4.46 | 2.32 | 5.18 |
| 18223 | 'Numbl' | 6.57 | 5.22 | 2.33 | 3.31 | 3.76 | 4.49 | 10 | 6.82 | 1.91 | 1.14 |
| 18226 | 'Nup62' | 2.48 | 5.63 | 7.33 | 10.2 | 13.4 | 8.18 | 7.58 | 6.5 | 7.53 | 10.46 |
| 18227 | 'Nr4a2' | 7.45 | 3.28 | 6.8 | 0.79 | 4.98 | 5.07 | 0 | 6.99 | 0.01 | 7.87 |
| 18230 | 'Nxn' | 0.94 | 3.44 | 2.21 | 0 | 1.51 | 0 | 1.18 | 0 | 0 | 0 |
| 18231 | 'Nxph1' | 20.85 | 8.39 | 17.7 | 37 | 52.6 | 30.3 | 57.2 | 20.34 | 3.27 | 11.54 |
| 18242 | 'Oat' | 52.46 | 62.28 | 85.2 | 56.8 | 77.5 | 125.2 | 72.2 | 85.9 | 131.9 | 123.71 |
| 18245 | 'Oaz1' | 1018 | 860.2 | 731 | 903 | 1001 | 1327 | 985 | 936.7 | 823.7 | 963.91 |
| 18247 | 'Oaz2' | 393.4 | 369.4 | 323 | 422 | 321 | 485.8 | 427 | 384.4 | 325.3 | 366.77 |
| 18260 | 'Ocln' | 1.06 | 0 | 0 | 0 | 0 | 3.82 | 0 | 0 | 1.62 | 2.86 |
| 18261 | 'Ocm' | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18263 | 'Odc1' | 11.57 | 18.89 | 12.2 | 49.3 | 14.9 | 15.01 | 16.4 | 8.16 | 3.76 | 4.57 |
| 18286 | 'Odf2' | 28.49 | 23.3 | 34.3 | 36.5 | 22.2 | 57.38 | 32 | 19.94 | 19.87 | 42.81 |
| 18291 | 'Nobox' | 0 | 0 | 0 | 0 | 3.63 | 0 | 0 | 0 | 0 | 0 |
| 18293 | 'Ogdh' | 50.07 | 55.04 | 91.6 | 43.4 | 63.5 | 51.42 | 73.9 | 56.56 | 82.91 | 86.65 |
| 18294 | 'Ogg1' | 2.1 | 2.2 | 1.73 | 2.76 | 9.29 | 1.41 | 1.02 | 2.84 | 4.72 | 2.12 |
| 18295 | 'Ogn' | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 2.28 | 0.05 |
| 18301 | 'Fxyd5' | 4.1 | 5.02 | 0 | 0 | 3.08 | 0 | 0 | 1.37 | 3.3 | 1.38 |
| 18302 | 'Oit3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 |
| 18307 | 'Olf10' | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18323 | 'Olf25' | 2.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18330 | 'Olf31' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18341 | 'Olf263' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18359 | 'Olf59' | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18377 | 'Omg' | 106.5 | 102.4 | 95 | 105 | 72.5 | 145 | 132 | 167 | 85.54 | 69.21 |
| 18378 | 'Omp' | 0.02 | 22.45 | 9.95 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 18383 | 'Tnfrsf11b' | 2.39 | 0 | 0 | 5.17 | 0 | 1.12 | 0 | 0 | 0 | 0 |
| 18386 | 'Oprd1' | 0.83 | 0.86 | 0 | 3.55 | 0.04 | 0 | 0.01 | 0 | 0 | 0 |
| 18387 | 'Oprk1' | 3.21 | 21.54 | 16.9 | 7.55 | 2.51 | 5.01 | 7.73 | 2.92 | 7.34 | 1.89 |
| 18389 | 'Oprl1' | 64.73 | 79.73 | 57.8 | 93.2 | 41.9 | 63.58 | 90.5 | 92.11 | 55.15 | 89.73 |
| 18390 | 'Oprm1' | 8.91 | 5.27 | 2.99 | 0 | 0 | 6.91 | 6.6 | 3.14 | 0 | 2.54 |
| 18391 | 'Sigmar1' | 40.98 | 44.13 | 39 | 15.8 | 56.7 | 29.94 | 28.8 | 69.12 | 54.47 | 81.62 |
| 18392 | 'Orc1' | 0 | 0.02 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.21 | 0.21 |
| 18393 | 'Orc2' | 10.95 | 15.28 | 9.19 | 10.5 | 13.2 | 9.05 | 4.9 | 9.94 | 16.12 | 4.95 |
| 18407 | 'Orm3' | 0 | 1.8 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 18408 | 'Slc25a15' | 0 | 0 | 1.75 | 0 | 1.76 | 0 | 4.95 | 3.04 | 7.77 | 0 |
| 18412 | 'Sqstm1' | 575.6 | 568.8 | 707 | 748 | 373 | 348.7 | 558 | 480.3 | 502.5 | 464.84 |
| 18414 | 'Osmr' | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 |
| 18415 | 'Hspa4l' | 46.54 | 37.49 | 41.4 | 38.6 | 28 | 53.51 | 60.7 | 42.15 | 58.92 | 54.97 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 18417 | 'Cldn11' | 28.55 | 52.55 | 2.91 | 0.03 | 58.4 | 94.95 | 0.03 | 24.05 | 0.9 | 1.9 |
| 18419 | 'Otog' | 0 | 0 | 0.62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18420 | 'Otp' | 0 | 7.37 | 0 | 0 | 0.03 | 0 | 23 | 0 | 0 | 0 |
| 18423 | 'Otx1' | 0 | 0 | 0.02 | 0 | 31.1 | 3.73 | 0 | 0 | 0 | 0 |
| 18424 | 'Otx2' | 0 | 2.34 | 3.8 | 0.05 | 1.28 | 0.02 | 0 | 0 | 0.02 | 8.62 |
| 18429 | 'Oxt' | 1.54 | 0.2 | 2.15 | 5.18 | 0 | 6.88 | 3.96 | 1.04 | 14.34 | 0 |
| 18430 | 'Oxtr' | 0.26 | 0 | 3.85 | 1.08 | 0.15 | 1.33 | 0 | 0.72 | 0 | 0 |
| 18431 | 'Oca2' | 1.9 | 1.05 | 0 | 2.22 | 0 | 0 | 0 | 1.05 | 0 | 0 |
| 18432 | 'Mybbp1a' | 14.57 | 13.81 | 17.8 | 0.39 | 7.71 | 8.49 | 20.9 | 11.33 | 18.7 | 18.39 |
| 18436 | 'P2rx1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.66 | 0 | 0 | 0 |
| 18438 | 'P2rx4' | 4.36 | 12.87 | 0.09 | 0.07 | 8.2 | 13.9 | 11.6 | 9.91 | 5.76 | 2.32 |
| 18439 | 'P2rx7' | 0 | 2.43 | 6.62 | 0 | 0 | 1.15 | 4.61 | 0 | 0 | 0 |
| 18440 | 'P2rx6' | 0 | 1.33 | 2.88 | 0 | 0.37 | 0 | 0.87 | 0 | 0 | 8.13 |
| 18441 | 'P2ry1' | 1.47 | 3.61 | 1.1 | 0 | 4.51 | 6.24 | 2.43 | 2.49 | 6.96 | 1.07 |
| 18442 | 'P2ry2' | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 2.07 | 0 |
| 18451 | 'P4ha1' | 31.56 | 41.1 | 18.2 | 21.4 | 8.67 | 20.09 | 41.6 | 15.56 | 21.26 | 30.65 |
| 18452 | 'P4ha2' | 23.23 | 17.21 | 12.7 | 13.5 | 10.1 | 24.66 | 5.35 | 22.07 | 19.02 | 20 |
| 18453 | 'P4hb' | 118.8 | 119.4 | 102 | 105 | 87.2 | 85.97 | 89 | 95.37 | 124.7 | 114.21 |
| 18457 | 'Bloc1s6' | 38.85 | 31.04 | 28.1 | 5.95 | 33.9 | 32.84 | 33.4 | 28.33 | 34.11 | 22.08 |
| 18458 | 'Pabpc1' | 17 | 15.64 | 14.4 | 22.4 | 7.55 | 12.8 | 8.11 | 13.65 | 14.88 | 16.78 |
| 18472 | 'Pafah1b1' | 16.38 | 16.85 | 11.4 | 14.4 | 15.8 | 6.69 | 15.3 | 13.67 | 19.02 | 14.29 |
| 18475 | 'Pafah1b2' | 103.4 | 74.38 | 72.6 | 57 | 59.1 | 69.82 | 62.8 | 80.4 | 87.61 | 82.03 |
| 18476 | 'Pafah1b3' | 101.3 | 97.99 | 145 | 115 | 107 | 110.3 | 100 | 143.4 | 165.4 | 169.74 |
| 18477 | 'Prdx1' | 361.3 | 315.8 | 328 | 281 | 395 | 480.9 | 295 | 363.6 | 345.3 | 446.42 |
| 18479 | 'Pak1' | 64.53 | 117.2 | 96.1 | 32.8 | 69.9 | 46.27 | 93.1 | 80.21 | 85.79 | 56.37 |
| 18481 | 'Pak3' | 70.18 | 77.35 | 41.9 | 67.7 | 30.4 | 53.27 | 35 | 59.3 | 51.8 | 52.68 |
| 18483 | 'Palm' | 27.68 | 22.58 | 15.9 | 16.6 | 30.4 | 15.01 | 14.2 | 11.24 | 20.7 | 10.03 |
| 18484 | 'Pam' | 62.38 | 32.44 | 60.2 | 93.1 | 52.7 | 17.19 | 36.1 | 14.82 | 62.18 | 54.38 |
| 18488 | 'Cntn3' | 0.05 | 0 | 0 | 1.4 | 3.1 | 2.38 | 2.19 | 0.39 | 0 | 0 |
| 18491 | 'Pappa' | 0 | 0.83 | 0 | 0 | 0 | 0 | 0 | 1.1 | 0 | 0.02 |
| 18504 | 'Pax2' | 0 | 0 | 0.02 | 0 | 0.08 | 0 | 0 | 0 | 0.87 | 0 |
| 18506 | 'Pax4' | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18508 | 'Pax6' | 0 | 0 | 0.72 | 0 | 0.03 | 0 | 4.5 | 0 | 0.04 | 0 |
| 18511 | 'Pax9' | 0 | 0 | 0.01 | 0 | 0.08 | 0.01 | 0 | 0 | 0 | 0 |
| 18514 | 'Pbx1' | 4.44 | 10.15 | 3.91 | 5.64 | 12.3 | 5.48 | 4.38 | 6.68 | 2.43 | 4.31 |
| 18515 | 'Pbx2' | 1.15 | 0.7 | 1.07 | 4.15 | 1.27 | 0.69 | 2.11 | 1.35 | 2.29 | 0.75 |
| 18516 | 'Pbx3' | 6.39 | 0.01 | 2.56 | 0 | 16 | 0.62 | 8.21 | 8.06 | 0 | 1.79 |
| 18518 | 'lgbp1' | 6.71 | 8.74 | 8.08 | 8.03 | 8.63 | 6.62 | 7.68 | 7.11 | 12.74 | 10.13 |
| 18519 | 'Kat2b' | 1.06 | 0.62 | 0.42 | 2.33 | 1.65 | 0.02 | 0 | 0.11 | 0 | 0.01 |
| 18521 | 'Pcbp2' | 21.93 | 46.01 | 26.1 | 43.2 | 55.7 | 81.81 | 29.4 | 19.04 | 35.15 | 63.57 |
| 18526 | 'Pcdh10' | 5.37 | 6.18 | 12.8 | 6.31 | 7.83 | 7.96 | 4.03 | 7.31 | 11.32 | 8.02 |
| 18530 | 'Pcdh8' | 0.01 | 5.89 | 6.08 | 0 | 10.3 | 4.47 | 8.93 | 7.09 | 4.48 | 3.52 |
| 18536 | 'Pcm1' | 12.25 | 11.79 | 15 | 16.1 | 13.7 | 11.62 | 9.98 | 9.26 | 4.77 | 8.69 |
| 18537 | 'Pcmt1' | 214 | 204.1 | 180 | 186 | 210 | 209.4 | 200 | 222.2 | 212.2 | 218.02 |
| 18538 | 'Pcna' | 43.81 | 46.03 | 39.4 | 37.8 | 39.1 | 42.29 | 21 | 29.45 | 87.82 | 74.16 |
| 18541 | 'Pcnt' | 1.89 | 2.42 | 0.59 | 1.57 | 1.87 | 1.91 | 0.01 | 2.63 | 2.09 | 0.91 |
| 18542 | 'Pcolce' | 0 | 0 | 0 | 0 | 1.42 | 0 | 0 | 0.84 | 0 | 0 |
| 18546 | 'Pcp4' | 2156 | 653.1 | 1614 | 3263 | 1144 | 1412 | 1302 | 1380 | 523.2 | 849.72 |
| 18548 | 'Pcsk1' | 16.46 | 31.46 | 30.5 | 16.9 | 7.1 | 28.98 | 0.1 | 9.97 | 81.23 | 93.43 |
| 18549 | 'Pcsk2' | 27.67 | 62.43 | 61.7 | 66.3 | 53.7 | 52.96 | 134 | 17.79 | 42.59 | 96.7 |
| 18550 | 'Furin' | 0.07 | 0.16 | 0.4 | 2.42 | 0.16 | 0.72 | 0 | 0.33 | 0 | 0.28 |
| 18551 | 'Pcsk4' | 6.25 | 5.79 | 7.68 | 7.38 | 2.62 | 13.42 | 3.32 | 7.67 | 8.78 | 7.29 |
| 18552 | 'Pcsk5' | 5.93 | 3.29 | 0.37 | 13.2 | 3.57 | 7.62 | 36.5 | 1.4 | 21.85 | 3.19 |
| 18553 | 'Pcsk6' | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 2.53 | 0 | 0 |
| 18554 | 'Pcsk7' | 10 | 1.53 | 5.71 | 8.6 | 9.07 | 0.53 | 5.32 | 4.01 | 4.35 | 6.93 |
| 18555 | 'Cdk16' | 19.71 | 8.74 | 10.1 | 12.4 | 18.3 | 19.38 | 33.3 | 9.22 | 37.74 | 2 |
| 18557 | 'Cdk18' | 11.54 | 19 | 25.6 | 22.3 | 30.3 | 27.89 | 23.8 | 25.87 | 24.5 | 23.72 |
| 18559 | 'Pctp' | 0 | 0 | 1.73 | 0.04 | 5.71 | 0 | 0 | 0 | 0 | 0.09 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 18563 | 'Pcx' | 3.39 | 6.7 | 8.54 | 12.1 | 12.9 | 6.22 | 27.5 | 6.1 | 2.53 | 14.53 |
| 18567 | 'Pdcd2' | 25.97 | 33.51 | 42 | 17.3 | 23 | 3.83 | 44.9 | 11.98 | 50.47 | 1.81 |
| 18569 | 'Pdcd4' | 69.03 | 75.98 | 65 | 156 | 78 | 25.27 | 30.5 | 58.97 | 92.46 | 77.32 |
| 18570 | 'Pdcd6' | 52.39 | 52.98 | 80.9 | 95.8 | 89.4 | 88.18 | 79.2 | 72.36 | 64.02 | 75.34 |
| 18571 | 'Pdcd6ip' | 12.45 | 10.51 | 18.8 | 10.7 | 6.49 | 5.37 | 17.1 | 5.84 | 17.39 | 12.74 |
| 18572 | 'Pdcd11' | 2.1 | 2.65 | 4.93 | 6.52 | 0.51 | 1.26 | 1.4 | 1.82 | 1.79 | 7.19 |
| 18573 | 'Pde1a' | 10.45 | 41.79 | 6.21 | 0.06 | 16.5 | 12.95 | 17.8 | 18.76 | 24.67 | 38.03 |
| 18574 | 'Pde1b' | 22.22 | 14.49 | 42.4 | 6.58 | 14.5 | 20.66 | 56 | 30.03 | 14.27 | 3.6 |
| 18575 | 'Pde1c' | 0.54 | 8.89 | 0.48 | 16 | 4.52 | 0.35 | 0.19 | 7.94 | 0 | 0.97 |
| 18576 | 'Pde3b' | 0.15 | 0.16 | 0.3 | 2.43 | 0.83 | 0.11 | 1.92 | 0.68 | 0.32 | 1.94 |
| 18577 | 'Pde4a' | 14.88 | 15.03 | 27.8 | 8.89 | 24 | 12.38 | 32.4 | 19.9 | 23.64 | 27.46 |
| 18578 | 'Pde4b' | 26.79 | 30.5 | 34.6 | 16.5 | 24.9 | 36.96 | 20.9 | 41.48 | 12.15 | 24.57 |
| 18582 | 'Pde6d' | 103.6 | 70.05 | 41.1 | 93.1 | 78.4 | 80.61 | 42.7 | 70.16 | 85.06 | 26.39 |
| 18583 | 'Pde7a' | 6 | 1.82 | 0.11 | 4.69 | 0.23 | 0.09 | 0 | 0.08 | 5.51 | 0.01 |
| 18584 | 'Pde8a' | 0.21 | 0.57 | 0 | 0.06 | 4.01 | 0 | 0 | 0 | 0 | 0 |
| 18585 | 'Pde9a' | 8.16 | 13.29 | 6.14 | 15.6 | 8.58 | 12.5 | 19.3 | 32.23 | 24.94 | 11.31 |
| 18587 | 'Pde6b' | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0.01 |
| 18590 | 'Pdgfa' | 31.79 | 40.91 | 40.6 | 36.7 | 58.2 | 31.16 | 18.8 | 33.53 | 30.88 | 13.35 |
| 18591 | 'Pdgfb' | 2.01 | 2.17 | 3.16 | 1.33 | 4.01 | 0.52 | 4.29 | 3.39 | 1.35 | 0.27 |
| 18595 | 'Pdgfra' | 0 | 0 | 16.3 | 7.8 | 0.38 | 0 | 14.4 | 2.29 | 0 | 0 |
| 18596 | 'Pdgfrb' | 0.74 | 0 | 1.26 | 0 | 0 | 1.34 | 0 | 0.68 | 1.97 | 0.16 |
| 18597 | 'Pdha1' | 74.81 | 100.3 | 127 | 76.5 | 83.9 | 59.55 | 173 | 103.2 | 111.2 | 91.09 |
| 18599 | 'Padi1' | 0 | 0 | 0 | 0 | 0 | 0.38 | 0 | 0 | 0 | 0 |
| 18600 | 'Padi2' | 1.31 | 1.55 | 0.24 | 1.21 | 5.57 | 3.41 | 3.56 | 1.19 | 1.51 | 1.58 |
| 18602 | 'Padi4' | 0 | 0.04 | 0.02 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 18604 | 'Pdk2' | 27.51 | 47.4 | 59.4 | 22.3 | 31.7 | 51.67 | 71.5 | 67.77 | 31.39 | 36.92 |
| 18605 | 'Enpp1' | 0 | 0 | 0 | 0 | 0.57 | 0 | 0 | 0.01 | 0 | 0.22 |
| 18606 | 'Enpp2' | 46.27 | 90.39 | 21.3 | 34.6 | 7.55 | 61.6 | 29.9 | 27.24 | 62.26 | 60.06 |
| 18607 | 'Pdpk1' | 14.78 | 14.58 | 27.7 | 9.73 | 6.39 | 27.34 | 15.4 | 14.48 | 21.2 | 7.16 |
| 18610 | 'Pdyn' | 2.03 | 53.01 | 0.04 | 97.2 | 0.04 | 27.79 | 0.11 | 83.95 | 69.76 | 17.56 |
| 18611 | 'Pea15a' | 379.6 | 426.7 | 258 | 417 | 386 | 402.8 | 269 | 341.7 | 442.6 | 408.03 |
| 18612 | 'Etv4' | 0.56 | 2.05 | 5.24 | 1.72 | 0 | 0 | 5.24 | 1.01 | 1.03 | 0.35 |
| 18613 | 'Pecam1' | 0 | 0 | 0 | 4.53 | 0 | 1.95 | 0 | 0 | 0 | 0 |
| 18616 | 'Peg3' | 114.9 | 64.48 | 145 | 111 | 67.1 | 51.99 | 115 | 96.39 | 124.3 | 157.94 |
| 18617 | 'Rhox5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.26 | 0 | 0 |
| 18618 | 'Pemt' | 4.87 | 21.67 | 10.8 | 10.6 | 1.32 | 3.71 | 0 | 7.21 | 6.88 | 20.29 |
| 18619 | 'Penk' | 117.3 | 55.18 | 94.2 | 562 | 303 | 27.84 | 174 | 59.71 | 22.3 | 75.81 |
| 18624 | 'Pepd' | 68.66 | 71.15 | 67.7 | 55.4 | 64.6 | 92.22 | 85.9 | 72.98 | 65.47 | 70.27 |
| 18626 | 'Per1' | 1.2 | 6.53 | 2.99 | 24.2 | 3.08 | 1.7 | 3.2 | 2.22 | 1.54 | 9.12 |
| 18627 | 'Per2' | 2.97 | 3.48 | 3.84 | 14.9 | 1.41 | 1.2 | 4.96 | 1.43 | 6.34 | 5.54 |
| 18628 | 'Per3' | 16.08 | 7.58 | 7.9 | 23.5 | 16.8 | 10.82 | 5.11 | 11.17 | 11.61 | 15.15 |
| 18631 | 'Pex11a' | 5.42 | 5.17 | 6.53 | 10.9 | 6.12 | 14.6 | 4.84 | 12.71 | 5.19 | 8.67 |
| 18632 | 'Pex11b' | 68.69 | 50.22 | 41.7 | 58.9 | 45.7 | 68.48 | 60.3 | 45.45 | 54.6 | 65.92 |
| 18633 | 'Pex16' | 49.41 | 25.18 | 37.3 | 20.4 | 21.6 | 44.16 | 39.3 | 42.54 | 42.4 | 36.78 |
| 18634 | 'Pex7' | 39.34 | 22.24 | 39.4 | 27.6 | 19.3 | 45.8 | 28.2 | 32.09 | 17.95 | 27.75 |
| 18636 | 'Cfp' | 5.71 | 7.44 | 4.69 | 1.2 | 4.22 | 0.03 | 5.22 | 2.6 | 6.65 | 0 |
| 18637 | 'Pfdn2' | 279.6 | 194.2 | 229 | 320 | 292 | 358.4 | 166 | 230.8 | 297.8 | 255.78 |
| 18639 | 'Pfkfb1' | 0.06 | 2.22 | 0.03 | 0 | 0 | 8.19 | 0 | 2.62 | 0 | 0 |
| 18640 | 'Pfkfb2' | 6.11 | 4.21 | 9.58 | 0.1 | 6.5 | 1.74 | 9.13 | 3.89 | 5.4 | 3.63 |
| 18641 | 'PfkI' | 68.93 | 99.23 | 80.4 | 106 | 81.6 | 90.55 | 92.1 | 96.63 | 96.5 | 91.12 |
| 18642 | 'PfkM' | 91.8 | 88.96 | 145 | 54.8 | 72.9 | 126.6 | 97.7 | 92.87 | 74.54 | 107.55 |
| 18643 | 'Pfn1' | 348.3 | 372.5 | 206 | 251 | 311 | 428.4 | 384 | 450.9 | 455 | 463.77 |
| 18645 | 'Pfn2' | 183.8 | 188.5 | 196 | 195 | 258 | 242.5 | 285 | 226.6 | 148.1 | 184.47 |
| 18647 | 'Cdk14' | 12.7 | 2.56 | 20.8 | 13.1 | 21.3 | 9.16 | 25.4 | 6.22 | 10.39 | 17.37 |
| 18648 | 'Pgam1' | 545.4 | 612.9 | 676 | 434 | 613 | 802.8 | 704 | 655.9 | 524.4 | 599.53 |
| 18654 | 'Pgf' | 0 | 6.99 | 8.51 | 11.2 | 2.78 | 0 | 3.75 | 14.77 | 31.13 | 15.89 |
| 18655 | 'Pgk1' | 264 | 227.3 | 282 | 227 | 271 | 265 | 267 | 298 | 196.6 | 220.28 |
| 18667 | 'Pgr' | 3.49 | 7.13 | 9.49 | 5.54 | 2.46 | 1 | 1.56 | 6.4 | 3.72 | 1.15 |

| | | | | | | | | | | | |
|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 18669 | 'Abcb1b' | 0.86 | 0 | 0.54 | 0.04 | 0 | 0.05 | 0.03 | 0.09 | 0.01 | 0 |
| 18670 | 'Abcb4' | 1.98 | 0.01 | 0.6 | 0.05 | 0 | 1.56 | 0 | 0 | 0 | 0.11 |
| 18671 | 'Abcb1a' | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.02 | 0.1 | 0 |
| 18673 | 'Phb' | 144.5 | 165.2 | 172 | 164 | 97.9 | 185.5 | 151 | 141.1 | 168.8 | 157.56 |
| 18674 | 'Slc25a3' | 556.7 | 473.1 | 665 | 520 | 580 | 645.4 | 655 | 661.5 | 603.1 | 604.06 |
| 18675 | 'Phex' | 0 | 0.02 | 0.04 | 0.04 | 0.03 | 0 | 0.05 | 0.03 | 0.02 | 0.02 |
| 18676 | 'Phf2' | 1.82 | 2.38 | 0.87 | 2.95 | 0.07 | 0.04 | 2.68 | 0.25 | 0.55 | 1.17 |
| 18679 | 'Phka1' | 6.8 | 7.94 | 5.59 | 6.1 | 1.75 | 3.29 | 1.39 | 1.68 | 2.41 | 6.43 |
| 18682 | 'Phkg1' | 4.55 | 5.77 | 0.05 | 8.38 | 0 | 12.48 | 2.16 | 0.02 | 4.39 | 2.5 |
| 18685 | 'Phtf1' | 4.25 | 4.7 | 5.52 | 3.28 | 6.99 | 10.32 | 3.28 | 2.83 | 1.15 | 12.22 |
| 18693 | 'Pick1' | 48.75 | 51.67 | 38.1 | 51.5 | 75.7 | 75.45 | 21.6 | 44.88 | 57.19 | 76.64 |
| 18700 | 'Piga' | 0 | 2.26 | 2.16 | 0 | 5.27 | 0 | 0 | 0 | 0 | 0 |
| 18701 | 'Pigf' | 24.12 | 29.37 | 40.7 | 53.7 | 16.5 | 43.58 | 26.1 | 27.82 | 28.96 | 9.98 |
| 18703 | 'Pigr' | 0.01 | 0.02 | 0.05 | 0.01 | 0.03 | 0.02 | 0.01 | 0.01 | 0.04 | 0.01 |
| 18704 | 'Pik3c2a' | 0.92 | 1.6 | 1.06 | 0.52 | 1.53 | 1.04 | 1.5 | 2.46 | 1.31 | 3.09 |
| 18706 | 'Pik3ca' | 2.5 | 0.65 | 1.18 | 2.59 | 2.25 | 2.5 | 1.96 | 1.36 | 4.47 | 3.82 |
| 18707 | 'Pik3cd' | 1.07 | 0.26 | 0.39 | 0.01 | 1.35 | 0.06 | 6.44 | 1.84 | 2.59 | 1.37 |
| 18708 | 'Pik3r1' | 6.52 | 5.33 | 5.49 | 1.93 | 4.16 | 8.67 | 8.21 | 1.73 | 6.09 | 10.65 |
| 18709 | 'Pik3r2' | 25.13 | 11.26 | 37.3 | 4.23 | 16.7 | 4.01 | 45 | 28.83 | 12.55 | 21.51 |
| 18710 | 'Pik3r3' | 5.06 | 3.95 | 6.17 | 15.7 | 4.19 | 3.03 | 3.39 | 8.85 | 13.34 | 13.5 |
| 18711 | 'Pikfyve' | 0.12 | 0.76 | 2.09 | 0.66 | 0.53 | 0.15 | 1.23 | 0.5 | 1.69 | 1.03 |
| 18712 | 'Pim1' | 0 | 0.6 | 0.17 | 1.7 | 0 | 1.18 | 0 | 0 | 0 | 0 |
| 18715 | 'Pim2' | 56.36 | 82.72 | 61.9 | 53.4 | 47 | 84.53 | 53.5 | 65.16 | 79.66 | 75.58 |
| 18717 | 'Pip5k1c' | 7.1 | 9.13 | 22.8 | 13.4 | 9.7 | 5.61 | 11.7 | 10.4 | 4.73 | 4.26 |
| 18718 | 'Pip4k2a' | 11.28 | 2.28 | 0 | 1.59 | 9.35 | 1.81 | 0.14 | 2.72 | 1.27 | 3.41 |
| 18719 | 'Pip5k1b' | 11.22 | 11.99 | 7.54 | 2.18 | 0.12 | 0.11 | 5.34 | 1.26 | 2.53 | 2.38 |
| 18720 | 'Pip5k1a' | 13.18 | 19.81 | 24.9 | 14.7 | 21.3 | 19.17 | 6.78 | 13.84 | 13.44 | 11.47 |
| 18722 | 'Pira1' | 0 | 0 | 0.2 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18733 | 'Pirb' | 0 | 0 | 0.09 | 0 | 0 | 0.47 | 0.14 | 0 | 0.06 | 0 |
| 18736 | 'Pou1f1' | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18738 | 'Pitpna' | 5.75 | 6.58 | 19.6 | 21.4 | 18.5 | 2.45 | 17.7 | 10.42 | 18.4 | 7.81 |
| 18739 | 'Pitpnm1' | 42.64 | 36.85 | 47.9 | 24.8 | 36.2 | 16.89 | 27.7 | 30.56 | 39.38 | 56.18 |
| 18744 | 'Pja1' | 255.2 | 363.6 | 255 | 336 | 166 | 282.8 | 369 | 286.4 | 341.7 | 262.77 |
| 18746 | 'Pkm' | 961.4 | 1007 | 1350 | 973 | 975 | 831.7 | 876 | 1200 | 878.9 | 803.57 |
| 18747 | 'Prkaca' | 68.7 | 48.37 | 68.5 | 73.7 | 64.5 | 38.65 | 43.3 | 36.62 | 54.26 | 43.09 |
| 18749 | 'Prkacb' | 225.4 | 177.7 | 127 | 131 | 100 | 28.25 | 140 | 125.3 | 118.9 | 172.73 |
| 18750 | 'Prkca' | 3.05 | 3.37 | 3.05 | 8.69 | 2.24 | 0.67 | 2.55 | 1.05 | 0.89 | 1.53 |
| 18751 | 'Prkcb' | 9.42 | 7.77 | 7.91 | 9.15 | 21.7 | 6.45 | 26.8 | 7.72 | 9.33 | 6.59 |
| 18752 | 'Prkcg' | 23.29 | 13.86 | 25.4 | 12.1 | 38.2 | 35.26 | 19.7 | 22.09 | 5.63 | 12.54 |
| 18753 | 'Prkcd' | 1.28 | 0 | 5.04 | 0 | 8.42 | 1.49 | 0 | 0.02 | 9.52 | 5.28 |
| 18754 | 'Prkce' | 44.84 | 31.24 | 16.6 | 51.7 | 25.4 | 19.92 | 29.5 | 35.39 | 24.73 | 37.41 |
| 18755 | 'Prkch' | 0.16 | 0 | 3.52 | 2.6 | 0.03 | 0 | 0 | 0.02 | 1.48 | 0 |
| 18759 | 'Prkci' | 2.74 | 0.64 | 1.13 | 7.54 | 3.02 | 0.03 | 1.89 | 2.04 | 3.92 | 1.41 |
| 18760 | 'Prkd1' | 1.4 | 0.07 | 0.03 | 4.36 | 0.25 | 0 | 1.66 | 2.66 | 0.08 | 0.03 |
| 18761 | 'Prkcd' | 0.71 | 1.81 | 8.21 | 3.29 | 3.34 | 2.62 | 0.34 | 5.22 | 0 | 0 |
| 18762 | 'Prkcz' | 24.9 | 33.04 | 35.5 | 29.3 | 33.7 | 33.07 | 22.1 | 31.73 | 30.49 | 22.32 |
| 18763 | 'Pkd1' | 5.45 | 3.53 | 10 | 8.22 | 7.21 | 2.49 | 7.9 | 3.97 | 8.23 | 3.57 |
| 18764 | 'Pkd2' | 1.99 | 0.04 | 0.04 | 0.98 | 1 | 0.45 | 1.31 | 0.45 | 0.28 | 1.27 |
| 18766 | 'Pkdrej' | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18767 | 'Pkia' | 58.8 | 96.94 | 71.2 | 41.1 | 52.2 | 15.96 | 103 | 40.46 | 32.06 | 22.65 |
| 18768 | 'Pkib' | 12.72 | 20.64 | 8.31 | 0.37 | 15.4 | 11.31 | 0 | 13.13 | 11.4 | 15.12 |
| 18769 | 'Pkig' | 60.73 | 67.47 | 69 | 207 | 75 | 54.77 | 38.2 | 60.18 | 42.43 | 77.19 |
| 18770 | 'Pkilr' | 0.15 | 0 | 0.16 | 0.36 | 0.22 | 0 | 0 | 0 | 0.08 | 0 |
| 18771 | 'Pknx1' | 2.3 | 2.91 | 0.26 | 5.65 | 1.7 | 0 | 1.23 | 5.32 | 2.83 | 0.47 |
| 18772 | 'Pkp1' | 0 | 0 | 1.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18777 | 'Lypla1' | 33.25 | 22.07 | 15.7 | 2.54 | 3.83 | 11 | 21.8 | 15.03 | 11.85 | 17.3 |
| 18778 | 'Pla2g1b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.43 |
| 18781 | 'Pla2g2c' | 1.51 | 0.48 | 0.24 | 0 | 0 | 0 | 0 | 0.95 | 0 | 3.09 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 18782 | 'Pla2g2d' | 0 | 0.04 | 0.08 | 0.13 | 0.07 | 5.26 | 0.07 | 0.02 | 0.08 | 0.04 |
| 18783 | 'Pla2g4a' | 0.02 | 0 | 0.2 | 0 | 0.24 | 0 | 0 | 0 | 0 | 0 |
| 18784 | 'Pla2g5' | 0 | 0 | 0 | 0 | 4.29 | 0 | 0 | 0 | 0 | 0 |
| 18786 | 'Plaa' | 8.73 | 8.11 | 8.15 | 6.07 | 2.66 | 6.76 | 9.88 | 8.51 | 11.8 | 7.49 |
| 18787 | 'Serpine1' | 2.05 | 0.66 | 0.16 | 1.17 | 0 | 0 | 0.51 | 0.08 | 0.38 | 0.56 |
| 18789 | 'Papola' | 25.01 | 31.97 | 26.1 | 27.6 | 26.4 | 19.68 | 33.1 | 24.49 | 35.7 | 23.85 |
| 18791 | 'Plat' | 13.51 | 13.75 | 4.29 | 7.03 | 15.7 | 5.22 | 4.7 | 16.61 | 3.8 | 16.2 |
| 18793 | 'Plaur' | 0 | 0 | 0 | 0 | 0 | 1.75 | 0 | 0 | 1.47 | 0.69 |
| 18795 | 'Plcb1' | 3.39 | 4.04 | 7.36 | 2.98 | 1.74 | 5.1 | 6.74 | 0.26 | 1.42 | 0.15 |
| 18796 | 'Plcb2' | 0 | 0.74 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18797 | 'Plcb3' | 1.41 | 1.72 | 0 | 0 | 0.33 | 0.16 | 0 | 0.02 | 0 | 0 |
| 18798 | 'Plcb4' | 3.07 | 12.46 | 5.61 | 28 | 12.6 | 7.59 | 6.77 | 9.13 | 4.9 | 6.61 |
| 18799 | 'Plcd1' | 0 | 3.3 | 1.87 | 8.22 | 3.92 | 13.32 | 0 | 4.64 | 0 | 3.8 |
| 18802 | 'Plcd4' | 8.09 | 23.08 | 14 | 22.7 | 6.4 | 18.47 | 0.75 | 9.73 | 8.79 | 12.84 |
| 18803 | 'Plcg1' | 0.89 | 2.07 | 1.51 | 2.95 | 1.77 | 0.09 | 4.14 | 0.37 | 2.99 | 0.84 |
| 18805 | 'Pld1' | 0 | 0.02 | 0.26 | 0 | 0 | 0.9 | 2.29 | 1.16 | 0.1 | 1.1 |
| 18806 | 'Pld2' | 0 | 0.58 | 0.1 | 1.93 | 1.03 | 1.46 | 0.01 | 0 | 4.93 | 0.02 |
| 18807 | 'Pld3' | 625.7 | 663.7 | 505 | 592 | 502 | 549 | 305 | 601.1 | 433.8 | 674.14 |
| 18810 | 'Plec' | 1.26 | 2.09 | 4.53 | 3.33 | 2.78 | 4.48 | 4.41 | 3.77 | 1.09 | 1.89 |
| 18813 | 'Pa2g4' | 40.57 | 43.45 | 39.8 | 26.9 | 38.4 | 36.08 | 44.1 | 43.04 | 16.07 | 42.21 |
| 18817 | 'Plk1' | 0 | 0 | 0.37 | 0 | 0 | 0 | 2.75 | 0 | 0.58 | 0 |
| 18821 | 'Pln' | 0.76 | 0.18 | 3.13 | 0.8 | 0.69 | 1.1 | 0.91 | 1.15 | 0.78 | 0.82 |
| 18822 | 'Plod1' | 2.73 | 10.17 | 7.59 | 6.65 | 6.65 | 2.23 | 0 | 3.93 | 3.57 | 3.99 |
| 18823 | 'Plp1' | 190.3 | 328.7 | 93.6 | 2.98 | 341 | 614.8 | 18.8 | 129 | 7.21 | 32.06 |
| 18824 | 'Plp2' | 7.56 | 6.98 | 16.3 | 20.2 | 20 | 6.79 | 0.04 | 10.47 | 0 | 5.84 |
| 18826 | 'Lcp1' | 0 | 1.31 | 0.61 | 0 | 0.01 | 7.45 | 0 | 0.01 | 0 | 0 |
| 18828 | 'Plscr2' | 0 | 1.25 | 0.15 | 7.02 | 0 | 2.64 | 0 | 0 | 0 | 0 |
| 18829 | 'Ccl21a' | 0 | 0 | 0 | 0 | 0.42 | 0 | 0 | 0 | 0 | 0 |
| 18830 | 'Pltp' | 4.12 | 10.38 | 3.23 | 0 | 0.49 | 3.4 | 0 | 4.39 | 1.54 | 2.1 |
| 18844 | 'Plxna1' | 0.89 | 5.91 | 2.04 | 9.17 | 6.68 | 3.42 | 5.54 | 3.59 | 2.5 | 2.29 |
| 18845 | 'Plxna2' | 4.79 | 0.76 | 4.56 | 7.6 | 2.31 | 2.1 | 6.46 | 2.62 | 2.55 | 1.88 |
| 18846 | 'Plxna3' | 1.11 | 2.82 | 2.7 | 2.75 | 0.42 | 2.18 | 4.44 | 2.84 | 7.05 | 5.44 |
| 18854 | 'Pml' | 0 | 0.65 | 0.53 | 0.03 | 0.31 | 0 | 0 | 0 | 0 | 0 |
| 18858 | 'Pmp22' | 5.21 | 7.05 | 0 | 1.08 | 7.79 | 26.14 | 24 | 4.29 | 4.3 | 0.03 |
| 18861 | 'Pms2' | 5.93 | 8.63 | 3.79 | 5.65 | 14 | 1.07 | 12.5 | 8.64 | 11.83 | 6.28 |
| 18933 | 'Prrx1' | 0 | 0.01 | 0 | 0 | 0 | 0.97 | 0.95 | 0.91 | 0.38 | 0.01 |
| 18938 | 'Ppp1r14b' | 0.35 | 4.41 | 0.05 | 5.78 | 2.34 | 3.13 | 2.04 | 5.56 | 0.05 | 1.07 |
| 18948 | 'Pnmt' | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18949 | 'Pnn' | 23.15 | 21.59 | 28 | 22.7 | 46.7 | 31.58 | 29.3 | 27.44 | 26.11 | 27.68 |
| 18950 | 'Pnp' | 8.59 | 4.29 | 11 | 20.6 | 14.9 | 11.42 | 7.67 | 6.53 | 17.21 | 12.5 |
| 18951 | 'Sept5' | 77.81 | 68.16 | 53.4 | 20.9 | 47.7 | 23.08 | 53 | 54.8 | 76.26 | 62.56 |
| 18952 | 'Sept4' | 65.13 | 66.65 | 81.3 | 80.5 | 163 | 290.4 | 58.4 | 46.64 | 36.22 | 28.77 |
| 18968 | 'Pola1' | 0.01 | 0.59 | 3.7 | 5.62 | 0 | 0 | 1.04 | 2.36 | 0.06 | 1.45 |
| 18969 | 'Pola2' | 5.02 | 4.82 | 3.87 | 15.3 | 11.5 | 3.92 | 15.9 | 5.13 | 0.66 | 11.83 |
| 18970 | 'Polb' | 83.02 | 46.72 | 50.5 | 60.9 | 73.9 | 61.35 | 96.6 | 36.6 | 43.84 | 54.39 |
| 18971 | 'Pold1' | 2.72 | 1.15 | 0 | 0.02 | 4.05 | 2.09 | 0 | 0.43 | 2.95 | 0.01 |
| 18972 | 'Pold2' | 5.45 | 25.01 | 25.9 | 8.69 | 22.3 | 16.03 | 56.5 | 25.28 | 50.32 | 25.76 |
| 18973 | 'Pole' | 0 | 0.02 | 0 | 0.53 | 0 | 0 | 0 | 0.02 | 0 | 0 |
| 18974 | 'Pole2' | 0 | 1.14 | 0.24 | 0 | 0 | 0.08 | 0.47 | 0.03 | 0 | 0 |
| 18975 | 'Polg' | 3.39 | 4.37 | 11.5 | 0 | 6.51 | 10.02 | 5.57 | 4.24 | 2.34 | 5.65 |
| 18976 | 'Pomc' | 149 | 109 | 53.4 | 0 | 120 | 151.3 | 227 | 57 | 116.8 | 79.5 |
| 18979 | 'Pon1' | 0 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18983 | 'Cnot7' | 49.96 | 41.34 | 38.1 | 36.7 | 18.5 | 23.32 | 29.2 | 42.62 | 48.41 | 40.92 |
| 18984 | 'Por' | 110 | 83.34 | 89.4 | 51.3 | 89.4 | 85.76 | 92.1 | 94.68 | 108 | 103.04 |
| 18985 | 'Pou2af1' | 0.02 | 0.5 | 0 | 1.59 | 0.99 | 0.95 | 0 | 0 | 0 | 2 |
| 18986 | 'Pou2f1' | 2.54 | 1.52 | 0.29 | 1.79 | 2.31 | 0.05 | 0.77 | 1.16 | 1.52 | 1.88 |
| 18987 | 'Pou2f2' | 8.09 | 3.59 | 1.99 | 3.57 | 1.74 | 2.77 | 3.16 | 3.77 | 2.14 | 3.94 |
| 18991 | 'Pou3f1' | 0 | 0 | 1.87 | 0.07 | 3.83 | 0 | 0 | 0 | 0 | 0.06 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 18992 | 'Pou3f2' | 0.84 | 1.1 | 0.82 | 1.62 | 0.12 | 0.66 | 0.84 | 0.65 | 1.38 | 0.76 |
| 18993 | 'Pou3f3' | 0.65 | 1.58 | 2.59 | 0.96 | 0.73 | 1.3 | 0.21 | 0.25 | 1.65 | 0.69 |
| 18994 | 'Pou3f4' | 0.05 | 0.31 | 0.05 | 0 | 1.06 | 0 | 0 | 1.67 | 2.95 | 0 |
| 18996 | 'Pou4f1' | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 |
| 19009 | 'Pou6f1' | 1.71 | 1.53 | 1.27 | 3.15 | 7.84 | 1.16 | 3.28 | 0.58 | 0.01 | 0.03 |
| 19011 | 'Endou' | 0 | 2.27 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 19012 | 'Plpp1' | 48.92 | 78.73 | 40.2 | 46.9 | 47.3 | 83.02 | 99.2 | 72.44 | 100.2 | 101.09 |
| 19013 | 'Ppara' | 0 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19014 | 'Med1' | 8.78 | 9.8 | 11.9 | 0.78 | 8.95 | 5.66 | 4.74 | 17.98 | 8.79 | 10.89 |
| 19015 | 'Ppard' | 0 | 0 | 0.24 | 3.46 | 0.59 | 0 | 0 | 0.65 | 0.01 | 0.55 |
| 19016 | 'Pparg' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19017 | 'Ppargc1a' | 2.18 | 4.79 | 3.67 | 3.02 | 1.1 | 0.02 | 3.02 | 0.12 | 0.54 | 0.84 |
| 19018 | 'Scand1' | 15.85 | 10.7 | 12.8 | 30.9 | 11.1 | 7.58 | 7.88 | 9.5 | 14.3 | 1.43 |
| 19023 | 'Ppef2' | 0 | 1.42 | 0.75 | 0 | 1.98 | 0 | 1.13 | 0.63 | 4.31 | 0.67 |
| 19024 | 'Ppfbp2' | 1.93 | 1.78 | 0.86 | 5.72 | 0.15 | 1.73 | 2.39 | 0.8 | 0.88 | 4.01 |
| 19025 | 'Ctsa' | 42.2 | 39.82 | 44.3 | 53.6 | 38.9 | 93.16 | 48.1 | 61.66 | 57.81 | 60.69 |
| 19027 | 'Sypl' | 4.73 | 11.08 | 5.7 | 7.5 | 8.43 | 7.1 | 0.79 | 5.82 | 7.1 | 13.99 |
| 19035 | 'Ppib' | 82.36 | 94.72 | 144 | 61.7 | 127 | 134.5 | 154 | 86.14 | 102.2 | 48.51 |
| 19039 | 'Lgals3bp' | 44.4 | 76.11 | 26.6 | 88.6 | 48.8 | 107.4 | 8.97 | 48.32 | 116.5 | 105.26 |
| 19041 | 'Ppl' | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 |
| 19042 | 'Ppm1a' | 11.55 | 10.85 | 8.44 | 15.1 | 22.3 | 7.32 | 12 | 6.33 | 6.05 | 8.43 |
| 19043 | 'Ppm1b' | 11.49 | 8.33 | 11.7 | 2.43 | 10.9 | 10.18 | 2.84 | 10.26 | 28.31 | 1.92 |
| 19044 | 'Ppox' | 21.19 | 52.02 | 18.9 | 11.5 | 41 | 36.75 | 36.8 | 36.85 | 31.73 | 37.71 |
| 19045 | 'Ppp1ca' | 240.6 | 224.1 | 246 | 303 | 190 | 313.2 | 257 | 275.1 | 190 | 256.26 |
| 19046 | 'Ppp1cb' | 54.73 | 34.85 | 29.6 | 45.7 | 49.5 | 31.23 | 29.9 | 38.12 | 65.73 | 43.71 |
| 19047 | 'Ppp1cc' | 12.96 | 8.09 | 10.6 | 10.2 | 17.3 | 13.22 | 24.3 | 19.29 | 24.06 | 17.52 |
| 19049 | 'Ppp1r1b' | 12.89 | 8.32 | 3.74 | 0 | 4.43 | 26.85 | 0 | 50.65 | 16.75 | 0 |
| 19051 | 'Ppp1r17' | 80.09 | 79.1 | 18.8 | 106 | 21.6 | 0.05 | 0.06 | 11.54 | 0.07 | 9.8 |
| 19052 | 'Ppp2ca' | 30.65 | 29.4 | 16.5 | 73 | 48.1 | 46.31 | 31.6 | 13.56 | 10.43 | 33.64 |
| 19053 | 'Ppp2cb' | 29.17 | 30.71 | 20.2 | 49.3 | 28.1 | 17.77 | 27.3 | 21.33 | 24.38 | 25.51 |
| 19054 | 'Ppp2r3d' | 5.92 | 3.89 | 2.67 | 11.5 | 5.32 | 2.9 | 3.44 | 1.16 | 2.01 | 2.54 |
| 19055 | 'Ppp3ca' | 40.6 | 58.49 | 32 | 41.9 | 58.9 | 47.73 | 41.6 | 54.85 | 19.88 | 38.18 |
| 19056 | 'Ppp3cb' | 7.8 | 7.37 | 11.7 | 15.9 | 21.6 | 2.97 | 15.3 | 11.7 | 6.97 | 7.88 |
| 19057 | 'Ppp3cc' | 0.07 | 4.57 | 0 | 0 | 5.29 | 6.04 | 0 | 1.54 | 7.66 | 0.52 |
| 19058 | 'Ppp3r1' | 267 | 277.2 | 268 | 218 | 146 | 150.8 | 327 | 298.6 | 235.3 | 230.48 |
| 19059 | 'Ppp3r2' | 2.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19060 | 'Ppp5c' | 92.08 | 87.55 | 103 | 83.2 | 114 | 129.4 | 117 | 119.5 | 137.6 | 136.8 |
| 19062 | 'Inpp5k' | 21.25 | 37.51 | 23.9 | 26.4 | 28.7 | 54.15 | 15.7 | 28.27 | 30.17 | 29.3 |
| 19063 | 'Ppt1' | 101.1 | 98.45 | 120 | 60.2 | 70.4 | 69.28 | 96.9 | 123.9 | 75.99 | 103.7 |
| 19065 | 'Npy4r' | 0 | 2.28 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 19069 | 'Nup88' | 99.08 | 55.67 | 55.4 | 12.7 | 70.4 | 63 | 62.1 | 86.56 | 101.5 | 78.66 |
| 19070 | 'Mob4' | 49.55 | 48.68 | 40 | 19.2 | 43.9 | 58.29 | 57.1 | 40.91 | 34.21 | 54.23 |
| 19072 | 'Prep' | 3.92 | 3.53 | 14.9 | 0 | 8.84 | 3.01 | 12.6 | 10.94 | 11.81 | 8.43 |
| 19073 | 'Srgn' | 0.08 | 0.05 | 0.16 | 0.16 | 1.53 | 16.26 | 0.07 | 0 | 0.1 | 1.42 |
| 19075 | 'Prim1' | 13.74 | 8.62 | 0.13 | 34.6 | 7.34 | 0 | 9.88 | 3.31 | 13.8 | 9.43 |
| 19076 | 'Prim2' | 10.57 | 7.24 | 3.63 | 5.64 | 6.22 | 4.21 | 6.02 | 3.11 | 2.72 | 1.71 |
| 19079 | 'Prkab1' | 3.16 | 19.47 | 7.93 | 8.08 | 12.5 | 11.13 | 18.4 | 7.6 | 0.99 | 6.51 |
| 19082 | 'Prkag1' | 76.43 | 53.35 | 39.9 | 31.4 | 52.8 | 22.34 | 63.4 | 64.37 | 44.9 | 38.77 |
| 19084 | 'Prkar1a' | 615.1 | 786.4 | 594 | 579 | 506 | 513.9 | 647 | 682.6 | 720.2 | 843.32 |
| 19085 | 'Prkar1b' | 355.4 | 367.1 | 423 | 95.6 | 240 | 314 | 403 | 338.9 | 291.8 | 335.01 |
| 19087 | 'Prkar2a' | 10.32 | 5.7 | 4.56 | 13.3 | 3.43 | 5.74 | 7.37 | 5.85 | 12.73 | 6.42 |
| 19088 | 'Prkar2b' | 8 | 7.01 | 3.2 | 5.81 | 1.54 | 5.4 | 7.37 | 7.06 | 3.8 | 2.23 |
| 19089 | 'Prkcsh' | 78.56 | 102.2 | 49.4 | 24.4 | 51.2 | 45.27 | 99.5 | 57.5 | 64.45 | 68.93 |
| 19090 | 'Prkdc' | 1.45 | 1.6 | 4.09 | 0.75 | 0.76 | 1.92 | 5.06 | 1.16 | 3.76 | 0.68 |
| 19091 | 'Prkg1' | 5.8 | 6.74 | 0.09 | 3.36 | 4.57 | 2.71 | 8.18 | 2.67 | 1.73 | 0.35 |
| 19092 | 'Prkg2' | 2.04 | 0.86 | 0.42 | 0.07 | 0.07 | 0 | 0 | 1.35 | 4.89 | 0 |
| 19094 | 'Mapk11' | 18.67 | 11.41 | 14.7 | 12.3 | 10.7 | 14.29 | 14.1 | 20.02 | 38.84 | 15.65 |
| 19099 | 'Mapk8ip1' | 9.14 | 10.78 | 12.3 | 6.57 | 11 | 9.64 | 15.7 | 6.78 | 11.33 | 9 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 19106 | 'Eif2ak2' | 2.05 | 0.96 | 4.13 | 9 | 2.72 | 1.6 | 4.06 | 0.26 | 0.58 | 8.74 |
| 19108 | 'Prkx' | 0.24 | 1.92 | 6.38 | 7.18 | 1.41 | 0 | 1.83 | 1.26 | 4.24 | 5.32 |
| 19116 | 'Prlr' | 64.1 | 77.86 | 39.9 | 13.1 | 3.92 | 24.6 | 26.5 | 71.97 | 73.01 | 42.27 |
| 19118 | 'Prm1' | 0 | 1.11 | 0.69 | 0 | 0 | 0 | 0 | 0.47 | 0 | 0 |
| 19122 | 'Prnp' | 860.1 | 1149 | 690 | 840 | 716 | 846.3 | 687 | 906.4 | 765.8 | 914.56 |
| 19125 | 'Prodh' | 6.31 | 1.45 | 0.63 | 0.02 | 2.04 | 10.56 | 2.67 | 1.31 | 8.63 | 1.36 |
| 19126 | 'Prom1' | 2.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19128 | 'Pros1' | 2.44 | 6.03 | 3.13 | 9.27 | 1.23 | 8.24 | 8.22 | 2.08 | 0.62 | 0 |
| 19130 | 'Prox1' | 2.1 | 1.32 | 2.3 | 3.45 | 0 | 0.07 | 0.01 | 0 | 0 | 0.01 |
| 19134 | 'Prpf4b' | 9.67 | 14.66 | 14 | 12.7 | 10.3 | 9.94 | 6.15 | 14.31 | 14.09 | 13.82 |
| 19139 | 'Prps1' | 179.7 | 195.1 | 124 | 198 | 183 | 319.4 | 177 | 178.8 | 170.6 | 138.5 |
| 19141 | 'Lgmn' | 141.1 | 178.7 | 176 | 99.9 | 206 | 348 | 119 | 189.9 | 198.7 | 177.48 |
| 19142 | 'Prss12' | 0 | 0 | 3.52 | 0 | 0 | 0 | 0 | 0.02 | 0.11 | 2.56 |
| 19143 | 'St14' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 19144 | 'Klk6' | 0 | 1.45 | 0 | 0 | 17.5 | 0 | 0 | 0 | 0 | 0 |
| 19152 | 'Prtn3' | 6.47 | 8.41 | 3.44 | 8.19 | 9.14 | 5.69 | 0 | 3.05 | 6.86 | 0 |
| 19155 | 'Npepps' | 27.2 | 15.76 | 18.7 | 28.6 | 31.1 | 20.84 | 31 | 13.04 | 24.68 | 23.16 |
| 19156 | 'Psap' | 893.5 | 904 | 917 | 379 | 807 | 965.8 | 1115 | 817.7 | 827.8 | 741.47 |
| 19157 | 'Cyth1' | 6.69 | 19.64 | 17.2 | 28.4 | 16.1 | 8.99 | 10.8 | 9.86 | 23.48 | 2.05 |
| 191578 | 'Helq' | 3.03 | 2.05 | 5.82 | 10.2 | 2.69 | 1.91 | 0.17 | 1.77 | 0 | 2.49 |
| 19158 | 'Cyth2' | 31.25 | 22.3 | 30.8 | 30.7 | 24.3 | 16.9 | 28.4 | 12.36 | 11.48 | 4.2 |
| 19159 | 'Cyth3' | 13.02 | 9.16 | 9.9 | 8.08 | 3.96 | 4.25 | 12.8 | 6.9 | 4.99 | 7.13 |
| 19164 | 'Psen1' | 27.51 | 23.21 | 37.6 | 21.3 | 17.8 | 22.05 | 27 | 24.88 | 33.47 | 50.73 |
| 19165 | 'Psen2' | 30.39 | 14.17 | 28.7 | 10.9 | 25.1 | 23.68 | 22.6 | 20.03 | 34.96 | 17.13 |
| 19166 | 'Psm2' | 396.3 | 328 | 342 | 306 | 360 | 442.1 | 240 | 419.1 | 360 | 376.96 |
| 19167 | 'Psm3' | 281 | 246.7 | 251 | 330 | 304 | 288 | 257 | 326.7 | 251.7 | 283.89 |
| 19170 | 'Psm1' | 415.4 | 436.5 | 390 | 466 | 347 | 397.7 | 372 | 457.1 | 401.8 | 412.66 |
| 19171 | 'Psm10' | 56.49 | 53.78 | 96 | 98.8 | 68.6 | 113.5 | 80.3 | 80.16 | 64.57 | 89.64 |
| 19172 | 'Psm4' | 294.8 | 302.4 | 424 | 576 | 289 | 372.1 | 279 | 303.8 | 328.7 | 295.68 |
| 19173 | 'Psm5' | 383.5 | 269.7 | 345 | 388 | 393 | 337 | 350 | 408.5 | 311.9 | 366.24 |
| 19175 | 'Psm6' | 441 | 393.3 | 338 | 421 | 472 | 652.2 | 364 | 488.1 | 430.7 | 478.28 |
| 19177 | 'Psm7' | 234.3 | 297.9 | 286 | 414 | 348 | 345.3 | 340 | 387.2 | 336.1 | 306.02 |
| 19179 | 'Psmc1' | 245.6 | 244.3 | 239 | 311 | 276 | 296.1 | 258 | 332.3 | 366.2 | 306.06 |
| 19181 | 'Psmc2' | 152.9 | 147.9 | 174 | 206 | 119 | 181 | 138 | 139.4 | 142.4 | 165.82 |
| 19182 | 'Psmc3' | 156.4 | 163.7 | 190 | 213 | 181 | 190.5 | 153 | 187.9 | 166.4 | 148.19 |
| 19183 | 'Psmc3ip' | 3.16 | 0 | 6.52 | 0 | 4.36 | 0.05 | 0 | 4.89 | 2.72 | 3.38 |
| 19184 | 'Psmc5' | 354.2 | 350 | 399 | 381 | 374 | 560.3 | 349 | 461.3 | 383.9 | 401.47 |
| 19185 | 'Psm4' | 273.7 | 237.2 | 265 | 306 | 250 | 377.2 | 289 | 253 | 216 | 276.78 |
| 19186 | 'Psm1' | 159.6 | 156.9 | 163 | 216 | 120 | 147.5 | 182 | 124.3 | 142.3 | 207.48 |
| 19188 | 'Psm2' | 118.6 | 114.9 | 96.9 | 304 | 134 | 188.5 | 119 | 123.4 | 106 | 147.98 |
| 19192 | 'Psm3' | 7.61 | 3.72 | 2.74 | 32.6 | 14.7 | 16.5 | 6.06 | 18.82 | 23.71 | 8.12 |
| 19193 | 'Pipox' | 4.75 | 4.68 | 0 | 0 | 0 | 1.76 | 0 | 0 | 9.44 | 0.87 |
| 19197 | 'Pspn' | 4.01 | 1.81 | 5.23 | 11.7 | 0 | 0 | 3.43 | 0 | 0.82 | 2.14 |
| 19200 | 'Pstpip1' | 1.06 | 5.31 | 0 | 0 | 4.97 | 8.08 | 0 | 2.71 | 0 | 0 |
| 19201 | 'Pstpip2' | 2.41 | 0.83 | 1.63 | 14.8 | 2.45 | 0.14 | 0.02 | 5.41 | 0 | 0.02 |
| 19204 | 'Ptafr' | 0 | 0.09 | 0.09 | 0.08 | 0.07 | 1.94 | 0.07 | 0.03 | 0.03 | 0.06 |
| 19205 | 'Ptbp1' | 9.53 | 18.68 | 14.8 | 41.2 | 19.9 | 7.5 | 9.64 | 10.26 | 7.93 | 6.79 |
| 19206 | 'Ptch1' | 6.41 | 0.48 | 0.46 | 18.4 | 0.1 | 4.06 | 1.42 | 2.48 | 2.8 | 0.1 |
| 19207 | 'Ptch2' | 2.11 | 0.35 | 2.43 | 0 | 0 | 0 | 0 | 0.62 | 1.62 | 0 |
| 19208 | 'Ptcr1' | 0.57 | 4.26 | 0.6 | 1.25 | 1.06 | 2.8 | 1.37 | 1.19 | 0.7 | 3.82 |
| 19210 | 'Ptdss1' | 38.82 | 30.48 | 37.6 | 35.1 | 34.2 | 37.04 | 82.6 | 44.71 | 49.96 | 46.18 |
| 19211 | 'Pten' | 2.08 | 2.28 | 1.02 | 4.92 | 2.73 | 2.59 | 1.84 | 1.47 | 0.5 | 1.52 |
| 192119 | 'Dicer1' | 0.73 | 1.66 | 0.31 | 6.05 | 2.73 | 0.46 | 0.63 | 1.21 | 0.96 | 0.53 |
| 19212 | 'Pter' | 0.14 | 2.3 | 1.41 | 2.38 | 0.27 | 1.25 | 0.16 | 0.12 | 3.21 | 0 |
| 192120 | 'Bspry' | 0.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 192136 | 'Sugct' | 0 | 3.13 | 7.28 | 0 | 4.62 | 0 | 7.19 | 0 | 3.22 | 0 |
| 19214 | 'Ptgdr' | 0 | 0 | 0.31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 192140 | 'Tmc2' | 0.02 | 0.45 | 0 | 0.02 | 0.01 | 0 | 0.04 | 0.01 | 0.01 | 0.01 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 19215 | 'Ptgds' | 175.3 | 194 | 11.1 | 12.8 | 62.7 | 738.6 | 22.7 | 27.55 | 95.88 | 35.16 |
| 192156 | 'Mvd' | 5.72 | 19.9 | 24.5 | 32.5 | 12.4 | 44.14 | 18.7 | 19.45 | 9.88 | 7.53 |
| 192157 | 'Socs7' | 2.75 | 2.46 | 1.7 | 5.26 | 3.74 | 0.49 | 1.83 | 1.66 | 1.56 | 0.44 |
| 192159 | 'Prpf8' | 7.24 | 6.55 | 11.2 | 6.32 | 3.46 | 1.81 | 11 | 5.71 | 2.83 | 9.63 |
| 19216 | 'Ptger1' | 0 | 0 | 0 | 0 | 0 | 1.8 | 0 | 0 | 0 | 0 |
| 192160 | 'Casc3' | 7.22 | 4.34 | 5.06 | 16.9 | 3.16 | 6.13 | 4.71 | 5.74 | 14.01 | 3.6 |
| 192161 | 'Pcdha9' | 0.66 | 5.83 | 1.99 | 0.02 | 2.16 | 0 | 1.22 | 0.93 | 3.6 | 2.53 |
| 192163 | 'Pcdha3' | 1.34 | 0.67 | 2.18 | 0 | 0.02 | 0 | 3.68 | 0.66 | 0.74 | 3.86 |
| 192164 | 'Pcdha12' | 10.15 | 2.05 | 2.16 | 0 | 0 | 7.29 | 4.03 | 1.49 | 4.17 | 2.7 |
| 192166 | 'Sardh' | 1.29 | 0 | 2.35 | 0 | 1.16 | 0 | 0 | 0 | 3.52 | 0 |
| 192167 | 'Nlgn1' | 8.23 | 11.26 | 12.3 | 7.71 | 18.1 | 14.51 | 20.4 | 9.9 | 12.74 | 9.79 |
| 192169 | 'Ufsp2' | 51.61 | 53.79 | 63 | 37.8 | 41.9 | 63.92 | 48.3 | 78.66 | 41.78 | 58.56 |
| 19217 | 'Ptger2' | 0.15 | 0 | 0.4 | 0 | 0 | 2.09 | 3.03 | 0.21 | 1.48 | 0 |
| 192170 | 'Eif4a3' | 61.91 | 78.9 | 73.9 | 71.6 | 64.8 | 47.9 | 51.5 | 96.37 | 83.37 | 62.37 |
| 192173 | 'Mcrip1' | 132.3 | 110.6 | 186 | 272 | 134 | 171.1 | 190 | 144.5 | 257.8 | 107.71 |
| 192174 | 'Rwdd4a' | 7.89 | 10.05 | 6.93 | 19.5 | 3.39 | 9.06 | 7.55 | 9.99 | 7.58 | 8.56 |
| 192176 | 'Flna' | 1.87 | 3.41 | 6.61 | 4.74 | 2.34 | 1.37 | 8.9 | 4.08 | 3.1 | 6.4 |
| 19218 | 'Ptger3' | 1.14 | 1.63 | 1.07 | 0.03 | 0.33 | 19.02 | 2.94 | 0 | 2.95 | 11.84 |
| 192185 | 'Nadk' | 17.39 | 14.27 | 11 | 20.4 | 6.32 | 16.51 | 16.8 | 34.84 | 11.81 | 15.3 |
| 192187 | 'Stab1' | 0 | 0 | 0.01 | 0 | 0 | 0.84 | 0 | 0 | 0 | 0 |
| 192188 | 'Stab2' | 0 | 0.59 | 0 | 0 | 0 | 0 | 0.01 | 0.12 | 0 | 0 |
| 19219 | 'Ptger4' | 0 | 1.37 | 0 | 0 | 0.13 | 0 | 1 | 1.92 | 0.15 | 4.83 |
| 192190 | 'Pkhd111' | 0.21 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.02 |
| 192191 | 'Med9' | 16.71 | 23.6 | 15.1 | 11.1 | 16.7 | 9.5 | 22.6 | 24.25 | 16.58 | 21.23 |
| 192192 | 'Shkbp1' | 3.98 | 9.26 | 7.21 | 2.98 | 9.91 | 16.93 | 5.16 | 7.18 | 5.22 | 10.39 |
| 192193 | 'Edem1' | 0.24 | 1.04 | 0.5 | 0.12 | 0.69 | 0.2 | 1.41 | 0.97 | 0.09 | 0.27 |
| 192194 | 'Btl10' | 0.01 | 0 | 0 | 0.98 | 0.01 | 0 | 0 | 0.01 | 0 | 0 |
| 192195 | 'Ash1l' | 5.09 | 3.54 | 3.93 | 15.7 | 6.99 | 6 | 6.99 | 5.94 | 4.93 | 7.3 |
| 192196 | 'Luc7l2' | 12.18 | 12.23 | 17.7 | 11.6 | 12.6 | 9.85 | 9.88 | 7.33 | 13.56 | 11.87 |
| 192197 | 'Bcas3' | 14.97 | 12.8 | 17.3 | 33.2 | 12.8 | 18.11 | 21 | 6.1 | 19.47 | 17.36 |
| 192198 | 'Lrrc4' | 3.45 | 0.58 | 3.92 | 1.35 | 4.03 | 1.89 | 0 | 7.43 | 2.88 | 0.78 |
| 192199 | 'Rspo1' | 3.52 | 2.42 | 1.5 | 0.87 | 4.94 | 13.21 | 5.57 | 9.3 | 3.01 | 0.31 |
| 19220 | 'Ptgfr' | 19.8 | 0 | 0 | | 40.4 | 70.4 | 31.8 | 0 | 21 | 55.4 |
| 19221 | 'Ptgfrn' | 0 | 0 | 0.01 | 0 | 0.01 | 0.48 | 0 | 0 | 0 | 0 |
| 192212 | 'Prom2' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 192216 | 'Tmem47' | 21.68 | 40.81 | 17 | 27 | 24.9 | 9.24 | 26.5 | 19.07 | 19.31 | 41.02 |
| 19222 | 'Ptgir' | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 1.16 | 0 | 0 | 0 |
| 19223 | 'Ptgis' | 0 | 3.73 | 0.28 | 0 | 0 | 0.08 | 0 | 2.49 | 5.82 | 1.79 |
| 192231 | 'Hexim1' | 5.83 | 6.91 | 3.31 | 0.81 | 2.89 | 9.05 | 7.93 | 13.64 | 5.47 | 9.02 |
| 192232 | 'Hps4' | 0.8 | 4.54 | 8.3 | 7.36 | 8.99 | 9.85 | 7.79 | 8.39 | 3.85 | 5.74 |
| 192236 | 'Hps1' | 8.61 | 7.83 | 5.75 | 12.4 | 7.96 | 4.67 | 0.01 | 10.04 | 6.07 | 8.5 |
| 19224 | 'Ptgs1' | 2.4 | 0 | 0 | 5.59 | 0.02 | 33.59 | 5.63 | 5.65 | 0.03 | 0 |
| 19225 | 'Ptgs2' | 0 | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19227 | 'Pthlh' | 6.31 | 3.01 | 1.76 | 0 | 0 | 0 | 0 | 1.84 | 0 | 5.08 |
| 19228 | 'Pth1r' | 4.28 | 3.31 | 7.15 | 0 | 7.39 | 6.19 | 0.27 | 4.98 | 3.54 | 8.38 |
| 192285 | 'Phf21a' | 9.15 | 4.33 | 3.88 | 4.58 | 4.65 | 6.66 | 6.41 | 6.46 | 3.91 | 7.14 |
| 192287 | 'Slc25a36' | 15.87 | 17.09 | 25.3 | 15.4 | 23 | 15.55 | 23.1 | 24.92 | 25.61 | 24.9 |
| 192289 | 'Tmlhe' | 0 | 0.26 | 0.02 | 0 | 0.89 | 0.38 | 0 | 0.89 | 0 | 0 |
| 19229 | 'Ptk2b' | 3.44 | 5.72 | 30.5 | 55.7 | 5.29 | 5.5 | 2.61 | 5.52 | 15.82 | 32.22 |
| 192292 | 'Nrpb1' | 82.13 | 96.86 | 102 | 95.1 | 60.2 | 88.08 | 80.6 | 60.53 | 110.2 | 99.96 |
| 19230 | 'Twf1' | 48.2 | 52.25 | 36.3 | 47.9 | 52.1 | 36.57 | 22.8 | 45.88 | 50.87 | 49 |
| 19231 | 'Ptma' | 144.1 | 207.7 | 153 | 214 | 147 | 122.9 | 211 | 120.5 | 130.5 | 202.28 |
| 19240 | 'Tmsb10' | 1434 | 1278 | 1202 | 1591 | 1207 | 1274 | 1200 | 1119 | 1438 | 1195.29 |
| 19241 | 'Tmsb4x' | 1477 | 1679 | 1307 | 1966 | 1937 | 2059 | 1765 | 1458 | 1226 | 1461.94 |
| 19242 | 'Ptn' | 52.2 | 74.98 | 120 | 61.9 | 82.3 | 54.95 | 141 | 54.3 | 124.9 | 68.59 |
| 19243 | 'Ptp4a1' | 62.33 | 94.83 | 57.3 | 158 | 26.1 | 22.44 | 41.9 | 36.49 | 30.77 | 12.57 |
| 19244 | 'Ptp4a2' | 56.04 | 55.61 | 49.9 | 50.6 | 59.4 | 52.16 | 39 | 39.71 | 30.56 | 37.2 |
| 19245 | 'Ptp4a3' | 21.57 | 13.9 | 20.8 | 13.5 | 21.3 | 16.9 | 2.92 | 13.16 | 11.97 | 23.23 |

| | | | | | | | | | | | |
|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 19246 | 'Ptpn1' | 7.31 | 5.35 | 11.5 | 20.7 | 6.78 | 6.22 | 9.83 | 7.52 | 3.71 | 8.71 |
| 19247 | 'Ptpn11' | 11.63 | 10.07 | 19.9 | 10.9 | 21.6 | 10.75 | 18.5 | 6.55 | 22.95 | 9.27 |
| 19248 | 'Ptpn12' | 4.22 | 4.4 | 2.45 | 1.92 | 10.1 | 0.19 | 0.15 | 1.34 | 3.92 | 1.18 |
| 19249 | 'Ptpn13' | 1.26 | 0.22 | 0.01 | 0.05 | 1.77 | 0.11 | 0 | 0.01 | 0 | 0 |
| 19250 | 'Ptpn14' | 0 | 0 | 0.01 | 3.27 | 0.02 | 0 | 0 | 0 | 0 | 0 |
| 19252 | 'Dusp1' | 78.91 | 222.2 | 290 | 534 | 121 | 371.9 | 81.2 | 87.2 | 68.22 | 266.95 |
| 19253 | 'Ptpn18' | 0.06 | 0 | 0 | 4 | 0 | 1.71 | 2.52 | 0 | 0.03 | 0.03 |
| 19255 | 'Ptpn2' | 20.63 | 11.31 | 15.4 | 5.28 | 13.6 | 15.81 | 21.1 | 17.33 | 22.44 | 35.51 |
| 19256 | 'Ptpn20' | 0 | 0 | 0 | 0 | 0 | 0.79 | 0 | 0 | 0 | 3.52 |
| 19258 | 'Ptpn4' | 5.75 | 0.91 | 3.24 | 1.62 | 1.76 | 1.19 | 0.09 | 1.96 | 4.61 | 1.35 |
| 19259 | 'Ptpn5' | 89.15 | 119.2 | 80 | 141 | 51.6 | 53.78 | 103 | 98.05 | 96.12 | 69.9 |
| 19260 | 'Ptpn22' | 0 | 0 | 0 | 0.02 | 0 | 0 | 5.59 | 0 | 0 | 0 |
| 19261 | 'Sirpa' | 33.83 | 19.41 | 15.1 | 11.4 | 24.7 | 23.99 | 23.5 | 24.42 | 22.12 | 21.27 |
| 19262 | 'Ptpna' | 18.17 | 24.3 | 20.5 | 40.5 | 9 | 23.29 | 33 | 18.52 | 19.98 | 16.6 |
| 19263 | 'Ptpnb' | 0.03 | 0 | 0.78 | 0.33 | 0 | 0 | 0 | 0 | 0.41 | 0.47 |
| 192650 | 'Cabp7' | 0 | 0 | 0 | 0 | 0.98 | 0 | 0 | 0 | 0 | 0 |
| 192651 | 'Zfp286' | 8.32 | 7.36 | 7.28 | 7.76 | 4.44 | 12.3 | 3.97 | 5.97 | 7.91 | 3.41 |
| 192652 | 'Wdr81' | 1.03 | 0.88 | 2.98 | 2.31 | 0.52 | 3.43 | 0 | 2.15 | 0.87 | 0.67 |
| 192653 | 'Ttc36' | 0.68 | 0.93 | 0 | 1.83 | 0 | 0 | 0 | 0.06 | 0 | 0.18 |
| 192654 | 'Pla2g15' | 13.84 | 7.57 | 19.5 | 14.3 | 0.34 | 17.49 | 0.02 | 9.86 | 1.12 | 23.28 |
| 192656 | 'Ripk2' | 0.1 | 0.32 | 0 | 0 | 0 | 4.65 | 0 | 0.04 | 0.09 | 0 |
| 192657 | 'Eil2' | 0 | 2.74 | 0.61 | 1.34 | 1.98 | 1.24 | 2.8 | 0 | 0.35 | 0 |
| 192658 | 'Rfpl4' | 0 | 0.37 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 |
| 19266 | 'Ptprd' | 13.94 | 4.32 | 2.82 | 0.88 | 10.3 | 5.11 | 8.74 | 6.47 | 6.49 | 6.06 |
| 192662 | 'Arhgdia' | 155.9 | 152.4 | 195 | 112 | 210 | 149.5 | 249 | 140.7 | 150 | 166.06 |
| 192663 | 'Abcg4' | 8.73 | 15.71 | 30.9 | 5.06 | 16.6 | 2.9 | 9.86 | 24.32 | 10.31 | 6.86 |
| 19267 | 'Ptpra' | 3.43 | 3.52 | 2.73 | 4.79 | 5.41 | 8.37 | 12 | 4.37 | 9.65 | 1.07 |
| 192678 | 'Rassf3' | 0.01 | 0 | 0 | 0.02 | 0.36 | 0.36 | 0 | 0 | 1.61 | 0.01 |
| 19268 | 'Ptprf' | 10.9 | 10.94 | 8.24 | 10.9 | 9.45 | 5.59 | 8.1 | 10.07 | 8.26 | 4.55 |
| 19270 | 'Ptprg' | 0.57 | 3.12 | 3.8 | 6.54 | 2.5 | 0.02 | 2.48 | 1.89 | 0 | 0.36 |
| 19271 | 'Ptprj' | 0.85 | 1.49 | 2.3 | 1.32 | 2.32 | 0.56 | 3.66 | 1.53 | 1.4 | 0.98 |
| 19272 | 'Ptprk' | 8.66 | 5.05 | 2.12 | 0.78 | 11 | 3.6 | 7.53 | 8.46 | 0.29 | 12.23 |
| 19273 | 'Ptpru' | 3.69 | 2.77 | 8.96 | 1.96 | 1.24 | 0.89 | 8.62 | 0.78 | 7.28 | 2.69 |
| 192734 | 'Lrrc75b' | 1.87 | 2.16 | 2.41 | 0.07 | 1.47 | 5.26 | 4.79 | 0.62 | 6.65 | 3.98 |
| 19274 | 'Ptprm' | 7.66 | 3.36 | 16.6 | 8.33 | 2.27 | 5.35 | 6.35 | 6.04 | 5.3 | 12.76 |
| 19275 | 'Ptprn' | 48.79 | 69.76 | 54.3 | 157 | 66.6 | 58.15 | 36.9 | 53.72 | 86.54 | 93.07 |
| 19276 | 'Ptprn2' | 15.85 | 11.98 | 14.3 | 9.27 | 18.8 | 11.39 | 4.68 | 17.22 | 30.32 | 18.31 |
| 19277 | 'Ptpro' | 26.78 | 34.28 | 16.8 | 13.5 | 11.5 | 4.49 | 12.5 | 20.64 | 3.75 | 20.19 |
| 192775 | 'Kcnh6' | 19.67 | 21.06 | 42.9 | 42.3 | 21.1 | 56.48 | 31.9 | 14.21 | 47.11 | 36.01 |
| 192786 | 'Rapgef6' | 14.01 | 10.43 | 3.6 | 25.9 | 7.56 | 8.45 | 7.67 | 11.48 | 11.52 | 16.59 |
| 19279 | 'Ptprp' | 14.99 | 11.21 | 49.4 | 70.9 | 16.9 | 5.49 | 0.14 | 16.29 | 5.35 | 3.1 |
| 19280 | 'Ptprs' | 34.49 | 30.29 | 61.5 | 18.5 | 53.8 | 20.16 | 45.9 | 42.88 | 49.02 | 54.03 |
| 19281 | 'Ptprt' | 0.5 | 0.93 | 2.78 | 1.41 | 1.42 | 4.47 | 2.13 | 0.99 | 4.18 | 2.36 |
| 19283 | 'Ptprz1' | 18.22 | 11.57 | 27.1 | 19.8 | 3.89 | 7.11 | 24.4 | 8.28 | 25.27 | 8.82 |
| 19285 | 'Cavin1' | 1.34 | 3.1 | 0 | 4.39 | 0.74 | 0 | 0 | 0 | 0.01 | 0 |
| 192852 | 'Lrrc3c' | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 |
| 19286 | 'Pts' | 77.89 | 99.31 | 61.9 | 76.7 | 74.7 | 65.82 | 61.4 | 72.02 | 101.4 | 61.09 |
| 19288 | 'Ptx3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.17 | 0 | 0 |
| 19289 | 'Igdcc3' | 1.97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 192897 | 'Itgb4' | 1.94 | 0.95 | 0.01 | 0.04 | 0.72 | 0.01 | 0.39 | 0 | 0.03 | 0.08 |
| 19290 | 'Pura' | 15.24 | 10.18 | 12.1 | 12.9 | 26.2 | 12.74 | 14.1 | 17.94 | 11.77 | 12.45 |
| 19291 | 'Purb' | 6.34 | 6.74 | 8.55 | 9.71 | 5.64 | 6.42 | 14.1 | 4.56 | 4.29 | 5.73 |
| 19293 | 'Pvalb' | 5.28 | 0 | 71.7 | 0.07 | 6.26 | 8.7 | 0 | 0.05 | 0.06 | 5.09 |
| 19294 | 'Nectin2' | 13.87 | 11.79 | 18 | 7.9 | 14 | 28.88 | 23.3 | 8.33 | 13.11 | 14.27 |
| 192950 | 'Nacad' | 8.98 | 12.59 | 16.7 | 2.53 | 10.2 | 19.45 | 12.3 | 10.57 | 14.17 | 15.78 |
| 192970 | 'Dhrs11' | 2.24 | 1.96 | 13.3 | 0 | 2.4 | 0.07 | 10.5 | 5.27 | 5.48 | 1.16 |
| 192976 | 'Lrrc75a' | 0 | 1.72 | 0 | 0 | 4.11 | 9.03 | 7.26 | 0.02 | 1.47 | 2.41 |
| 19298 | 'Pex19' | 28.3 | 41.87 | 45.9 | 31.2 | 55.4 | 32.88 | 41.9 | 49.97 | 32.57 | 28.91 |

| | | | | | | | | | | | |
|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 192986 | 'Cyb5d2' | 13.22 | 8.64 | 2.66 | 9.22 | 7.62 | 4.05 | 19.1 | 11.29 | 21.65 | 15.59 |
| 19299 | 'Abcd3' | 28.85 | 26.66 | 36.2 | 18.3 | 14.9 | 6.23 | 48.2 | 23.16 | 27.25 | 19.28 |
| 19300 | 'Abcd4' | 6 | 7.03 | 7.86 | 14.7 | 11.8 | 15.45 | 5.77 | 1.09 | 5.36 | 15.75 |
| 193003 | 'Pirt' | 0 | 0 | 0 | 0 | 8.14 | 0.01 | 0 | 0 | 0 | 0 |
| 19301 | 'Pxmp2' | 5.41 | 10.95 | 3.19 | 1.24 | 0.07 | 8.11 | 0.07 | 2.65 | 0.22 | 0.12 |
| 19302 | 'Pex2' | 16.56 | 24.32 | 22 | 6.86 | 18.2 | 12.77 | 14.3 | 25.64 | 18.97 | 13.96 |
| 19303 | 'Pxn' | 0 | 0.73 | 2.64 | 1.95 | 1.14 | 0.02 | 4.93 | 2.24 | 1.46 | 0.51 |
| 193043 | 'Zfp3' | 0.75 | 0.03 | 5.91 | 7.51 | 17.7 | 16.09 | 22.4 | 8.02 | 6.69 | 19.15 |
| 19305 | 'Pex5' | 16.7 | 18.35 | 16.7 | 51.4 | 21 | 27.09 | 10 | 34.63 | 11.61 | 28.24 |
| 19309 | 'Pygm' | 3.44 | 12.3 | 12.7 | 7.26 | 9.17 | 19.79 | 5.79 | 10.13 | 8.92 | 5.76 |
| 193116 | 'Slu7' | 26.67 | 18.34 | 33.3 | 24.7 | 40.5 | 25.11 | 20.2 | 19.33 | 9.2 | 33.22 |
| 19317 | 'Qk' | 14.22 | 23.68 | 16.2 | 17.4 | 14.1 | 13.95 | 13.5 | 3.52 | 3.19 | 6.09 |
| 19324 | 'Rab1a' | 128.1 | 125.7 | 122 | 182 | 102 | 146 | 170 | 132.2 | 141.9 | 120.65 |
| 19325 | 'Rab10' | 10.1 | 6.56 | 7.24 | 14.6 | 7.2 | 7.71 | 8.05 | 10.74 | 15.22 | 7.21 |
| 19326 | 'Rab11b' | 233.2 | 236.3 | 268 | 205 | 244 | 236.7 | 204 | 314.5 | 276 | 293.49 |
| 19328 | 'Rab12' | 6.04 | 8.87 | 11.3 | 22 | 7.66 | 5.91 | 17.1 | 6.39 | 4.39 | 6.24 |
| 193286 | 'BC049762' | 0 | 0.21 | 1.1 | 0 | 0.07 | 0 | 0 | 0.05 | 0 | 3.62 |
| 19330 | 'Rab18' | 84.06 | 86.07 | 86.2 | 78.1 | 80.7 | 41 | 57.3 | 71.94 | 81.05 | 56.91 |
| 19331 | 'Rab19' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.29 |
| 19332 | 'Rab20' | 0 | 0 | 3.38 | 0.05 | 0 | 0.07 | 0 | 0 | 4.2 | 0.03 |
| 19334 | 'Rab22a' | 1.27 | 3.96 | 0.73 | 0.6 | 6.65 | 0.07 | 8.47 | 1.43 | 13.61 | 2.87 |
| 19335 | 'Rab23' | 5.59 | 10.43 | 4.59 | 6.65 | 2.74 | 2.66 | 16.7 | 6.47 | 5.24 | 2.39 |
| 19336 | 'Rab24' | 7.12 | 10.34 | 7.11 | 85.4 | 13.3 | 13.92 | 34.7 | 16.71 | 54.85 | 9.02 |
| 19337 | 'Rab33a' | 35.06 | 43.74 | 25.1 | 54.4 | 12.3 | 20.81 | 19.1 | 21.9 | 13.82 | 18.72 |
| 19338 | 'Rab33b' | 24.3 | 20.54 | 16.8 | 29.1 | 14.8 | 13.98 | 27.1 | 25.02 | 20.81 | 15.24 |
| 193385 | 'Ripor2' | 7.71 | 6.19 | 11.4 | 2.74 | 7.28 | 5.5 | 2.65 | 7.6 | 10.65 | 5.59 |
| 19339 | 'Rab3a' | 948.3 | 796.3 | 1081 | 903 | 836 | 959.8 | 945 | 1124 | 846.9 | 878.72 |
| 19340 | 'Rab3d' | 3.38 | 1.36 | 2.46 | 0 | 2.55 | 0.31 | 0 | 3.87 | 0 | 0 |
| 19341 | 'Rab4a' | 78.11 | 96.85 | 77 | 84.8 | 61.6 | 67.11 | 81.5 | 76.16 | 74.15 | 56.45 |
| 19342 | 'Rab4b' | 107.9 | 98.78 | 138 | 101 | 104 | 110.1 | 97.2 | 189.6 | 138.9 | 166.06 |
| 19344 | 'Rab5b' | 32.43 | 42.89 | 50.6 | 20.4 | 49.3 | 40.12 | 26.8 | 42.06 | 58.12 | 27.91 |
| 19345 | 'Rab5c' | 58.71 | 40.11 | 65 | 36.5 | 58.1 | 76.59 | 72.1 | 59.56 | 76 | 64.56 |
| 193452 | 'Zfp184' | 0 | 3.72 | 0 | 9.16 | 2.01 | 2.96 | 5.29 | 3.05 | 2.32 | 4.76 |
| 19346 | 'Rab6a' | 162.9 | 199.4 | 195 | 207 | 126 | 110.4 | 218 | 106.7 | 218.9 | 52.02 |
| 19347 | 'Dennd5a' | 7.81 | 13.65 | 4.55 | 8.81 | 15.2 | 5.81 | 5.76 | 6.84 | 5.96 | 7.17 |
| 19348 | 'Kif20a' | 0.01 | 0.1 | 0.03 | 0.03 | 0.05 | 0.07 | 0 | 0 | 2.28 | 0.89 |
| 19349 | 'Rab7' | 247.6 | 238.3 | 258 | 287 | 237 | 266.6 | 251 | 309.2 | 242.9 | 291.02 |
| 19352 | 'Rabggtb' | 59.84 | 61.65 | 54.6 | 99 | 73 | 60.03 | 47.2 | 62.91 | 61.73 | 51.96 |
| 19353 | 'Rac1' | 51.27 | 29.12 | 38 | 184 | 58.7 | 14.88 | 57.9 | 19.75 | 34.48 | 16.18 |
| 19354 | 'Rac2' | 2.11 | 0.06 | 0.06 | 3.52 | 1.47 | 0.02 | 0.45 | 0.09 | 0.08 | 0.04 |
| 19355 | 'Rad1' | 24.2 | 10.62 | 4.8 | 7.99 | 19.8 | 13.45 | 12.7 | 26.83 | 35.12 | 16.44 |
| 19356 | 'Rad17' | 12.51 | 12.48 | 6.6 | 5.78 | 11.2 | 2.2 | 5.26 | 8.01 | 3.17 | 6.02 |
| 19357 | 'Rad21' | 7.25 | 7.73 | 5.46 | 11.5 | 4.07 | 8.5 | 0.12 | 8.21 | 1.85 | 3.33 |
| 19358 | 'Rad23a' | 77.32 | 69.71 | 61.8 | 98.4 | 80.2 | 87.94 | 74.2 | 85.09 | 63.82 | 78.89 |
| 19359 | 'Rad23b' | 4.86 | 13.67 | 9.02 | 17.7 | 9.39 | 1.89 | 12.2 | 10.9 | 16.12 | 5.65 |
| 19360 | 'Rad50' | 3.69 | 1.36 | 1.73 | 8.63 | 1.55 | 8.16 | 2.58 | 3.8 | 5.55 | 2.89 |
| 19361 | 'Rad51' | 7.31 | 5.03 | 1.37 | 0 | 11.7 | 4.16 | 0 | 5.99 | 0.02 | 0 |
| 19362 | 'Rad51ap1' | 0.05 | 0.51 | 0 | 0 | 7.51 | 0 | 5.61 | 0 | 0.61 | 2.26 |
| 19363 | 'Rad51b' | 0 | 3.29 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0.04 | 0 |
| 19364 | 'Rad51d' | 23.93 | 17.69 | 12.7 | 5.89 | 28.2 | 8.09 | 29.1 | 22.73 | 22.87 | 12.58 |
| 19365 | 'Rad52' | 13.92 | 8.47 | 10 | 14.6 | 11.5 | 1.26 | 3.46 | 2.78 | 11.69 | 4.48 |
| 19366 | 'Rad54l' | 0 | 0.2 | 0.13 | 0 | 0.87 | 2.13 | 0 | 0.05 | 0.39 | 0 |
| 19367 | 'Rad9a' | 13.62 | 20.11 | 6.82 | 11.9 | 20 | 19.25 | 7.43 | 19.3 | 13.36 | 13.5 |
| 193670 | 'Rnf185' | 20.29 | 27.8 | 8.31 | 32.1 | 11.1 | 5.71 | 38.8 | 12.12 | 14.74 | 27.91 |
| 19373 | 'Rag1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.27 |
| 193736 | 'Zbtb12' | 0 | 0 | 0 | 0 | 0 | 1.98 | 0 | 0.2 | 2.07 | 0.4 |
| 19374 | 'Rag2' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 193740 | 'Hspa1a' | 11.04 | 80.67 | 77.7 | 40.7 | 18.6 | 59.05 | 5.2 | 13.56 | 30.64 | 24.88 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 193742 | 'Abhd16a' | 90.84 | 98.15 | 118 | 61.7 | 83.5 | 108.2 | 159 | 135.1 | 102.2 | 105.49 |
| 19376 | 'Rab34' | 20.07 | 12.98 | 18.9 | 16.9 | 17.2 | 15.41 | 60.6 | 26.13 | 16.43 | 19.79 |
| 19377 | 'Rai1' | 2.57 | 2.37 | 3.99 | 2.84 | 1.55 | 4.27 | 4.45 | 4.6 | 1.58 | 3.57 |
| 19378 | 'Aldh1a2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 193796 | 'Kdm4b' | 2.88 | 3.67 | 1.82 | 4.35 | 5.29 | 1.18 | 0.19 | 1.15 | 2.99 | 0.72 |
| 193813 | 'Mcf2' | 261.8 | 242.4 | 138 | 218 | 148 | 280.1 | 173 | 184.8 | 262.8 | 263.49 |
| 19383 | 'Raly' | 21.43 | 24.41 | 32.4 | 41.9 | 25.5 | 53.33 | 48.1 | 51 | 44.54 | 46.5 |
| 193838 | 'Eme2' | 30.14 | 37.46 | 35.5 | 48.8 | 39.8 | 25.08 | 49.8 | 34.22 | 50.85 | 40.37 |
| 19384 | 'Ran' | 315.2 | 291.5 | 264 | 247 | 221 | 303.6 | 324 | 280.2 | 234.3 | 316.65 |
| 19385 | 'Ranbp1' | 228.7 | 168.7 | 237 | 249 | 186 | 280.2 | 233 | 228.2 | 157 | 136.63 |
| 19386 | 'Ranbp2' | 1.7 | 2.11 | 1.89 | 3.56 | 0.37 | 0.28 | 0.55 | 0.91 | 1.73 | 2.99 |
| 19387 | 'Rangap1' | 162.2 | 170.1 | 123 | 72.9 | 81 | 132.6 | 119 | 131.5 | 106.8 | 158.62 |
| 19395 | 'Rasgrp2' | 12.81 | 7.03 | 19.2 | 31.3 | 10.8 | 20.98 | 11.1 | 19.22 | 23.7 | 1.69 |
| 19400 | 'Rapsn' | 0 | 0 | 0 | 0 | 0.15 | 0 | 0 | 0 | 0 | 0.11 |
| 19401 | 'Rara' | 4.24 | 1.65 | 1.45 | 0.15 | 1.75 | 0 | 0 | 2.29 | 2.37 | 2.21 |
| 19411 | 'Rarg' | 0 | 0.33 | 3.48 | 8.56 | 3.36 | 0.12 | 2.24 | 0.04 | 1.07 | 0 |
| 194126 | 'Mtnr11' | 4.06 | 4.11 | 8.97 | 7.11 | 4.22 | 0 | 1.64 | 5.87 | 4 | 2.08 |
| 19414 | 'Rasa3' | 4.73 | 19.22 | 15.9 | 12.2 | 13.3 | 2.48 | 28.5 | 17.08 | 3.78 | 9.29 |
| 19415 | 'Rasal1' | 8.99 | 45.69 | 12 | 2.75 | 8.92 | 11.26 | 0.99 | 17.82 | 1.97 | 0.92 |
| 19416 | 'Rasd1' | 25.65 | 47.57 | 43.5 | 79.5 | 12.5 | 22 | 2.16 | 27.27 | 25.21 | 52.07 |
| 19417 | 'Rasgrf1' | 264.4 | 160.5 | 198 | 59.3 | 118 | 98.82 | 233 | 244.7 | 138.3 | 194.4 |
| 19418 | 'Rasgrf2' | 4.62 | 5.3 | 7.63 | 17.8 | 2.64 | 6.02 | 7.92 | 5.96 | 5.65 | 3.92 |
| 19419 | 'Rasgrp1' | 14.11 | 5.56 | 21.1 | 17.5 | 45.6 | 16.81 | 6.13 | 3.41 | 17.75 | 47.32 |
| 194231 | 'Cnksr1' | 0 | 0.03 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 |
| 194237 | 'Rimkla' | 1 | 4.99 | 4.48 | 0 | 4.81 | 0 | 0 | 1.92 | 2.88 | 0 |
| 194268 | '9930104L06Rik' | 6.72 | 10.11 | 3.56 | 7.43 | 7.75 | 0.46 | 10.3 | 8.63 | 12.69 | 2.86 |
| 19428 | 'Rasl2-9' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.76 |
| 194309 | 'Vps37d' | 2.17 | 0.57 | 1.69 | 7.05 | 0.55 | 0 | 3.09 | 0.03 | 5.29 | 0.03 |
| 194388 | 'Tet3' | 0.66 | 1.99 | 1.47 | 2.52 | 0.54 | 1.45 | 0.43 | 1.61 | 1.08 | 0.87 |
| 194401 | 'Mical3' | 2.4 | 4.35 | 3.34 | 7.75 | 3.11 | 5.12 | 5.26 | 2.79 | 4.53 | 7 |
| 194590 | 'Reps2' | 0.77 | 2.77 | 2.91 | 4.27 | 4.47 | 1.69 | 2.26 | 1.65 | 4.93 | 5.43 |
| 194655 | 'Klf11' | 1.4 | 10.68 | 2.84 | 22.5 | 1.54 | 1.94 | 0.33 | 1.33 | 0 | 1.68 |
| 194744 | 'Slc25a43' | 0 | 0.39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.08 |
| 194908 | 'Pld6' | 7.85 | 0.05 | 12.9 | 0 | 18.5 | 1.56 | 0.26 | 11.27 | 8.61 | 2.59 |
| 194952 | 'Jmjd4' | 5.2 | 8.47 | 5.64 | 1.52 | 7.7 | 6.08 | 14.3 | 4.44 | 8.88 | 8.77 |
| 194974 | 'Sun3' | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 |
| 195018 | 'Zzef1' | 3.8 | 5.07 | 5.62 | 10.8 | 2.72 | 4.37 | 3.93 | 1.81 | 2.03 | 4.75 |
| 195040 | 'Tmem199' | 135.9 | 122.1 | 110 | 120 | 170 | 217.4 | 85.4 | 150 | 174.3 | 111.01 |
| 195046 | 'Nlrp1a' | 0.27 | 0.13 | 0.23 | 0.33 | 0.27 | 0.32 | 0.26 | 0.17 | 0.11 | 0.2 |
| 195208 | 'Dcdc2a' | 10.57 | 3.46 | 1.57 | 0 | 10.7 | 2.39 | 0 | 6.99 | 4.81 | 0.32 |
| 195209 | 'Zfp469' | 0 | 0.02 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 195236 | 'Pom12112' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.47 |
| 195434 | 'Utp14b' | 1.49 | 0.88 | 4.25 | 2.95 | 0.33 | 2.51 | 0 | 0.02 | 0.01 | 0 |
| 195522 | 'Zfp691' | 1.83 | 1.75 | 2.48 | 4.29 | 2.17 | 1.78 | 1.88 | 3.3 | 7.5 | 1.9 |
| 195531 | 'Zfp982' | 1.11 | 1.13 | 1.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 195646 | 'Hs3st2' | 0 | 1.35 | 2.25 | 30.9 | 8.18 | 0 | 0 | 25.23 | 3.63 | 2.81 |
| 195726 | 'Scml1' | 0 | 0.07 | 0.69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 195727 | 'Nhs' | 1.27 | 0.5 | 1.16 | 0.85 | 1.32 | 0.34 | 0.84 | 1.64 | 0.36 | 0.24 |
| 195733 | 'Grhl1' | 14.47 | 21.18 | 5.75 | 14.3 | 8.42 | 1.19 | 12.3 | 10.23 | 1.47 | 3.15 |
| 19645 | 'Rb1' | 0 | 0 | 3.89 | 2.59 | 0.3 | 1.33 | 0 | 0.06 | 0.11 | 0.67 |
| 19646 | 'Rbbp4' | 85.74 | 80.2 | 84.3 | 45.6 | 80.1 | 76.08 | 83.1 | 84.44 | 96.99 | 90.3 |
| 19647 | 'Rbbp6' | 9.76 | 9.09 | 9.63 | 17 | 7.04 | 1.64 | 6.55 | 9.21 | 7.1 | 7.7 |
| 19649 | 'Robo3' | 0.29 | 0 | 0 | 0 | 0.38 | 0 | 0 | 0.17 | 0.13 | 0 |
| 19650 | 'Rbl1' | 0.01 | 0 | 1.78 | 2.29 | 0.02 | 0.08 | 0 | 0.26 | 0 | 0 |
| 19651 | 'Rbl2' | 6.95 | 10.88 | 5.7 | 0.19 | 1.23 | 2.99 | 2.28 | 3.69 | 22.54 | 8.82 |
| 19652 | 'Rbm3' | 33.99 | 42.64 | 151 | 256 | 86.2 | 45.37 | 37.2 | 123.3 | 47.98 | 53.56 |
| 19653 | 'Rbm4' | 17.87 | 13.93 | 13.2 | 11.7 | 22.1 | 9.67 | 13 | 24.82 | 23.72 | 13.09 |
| 19654 | 'Rbm6' | 21.81 | 29.34 | 18.5 | 18.5 | 18.3 | 12.52 | 16.7 | 23.71 | 30.64 | 13.48 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 19655 | 'Rbmx' | 17.86 | 21.25 | 17.9 | 9.48 | 34.4 | 18.27 | 41.7 | 31.01 | 27.83 | 15.85 |
| 19656 | 'Rbmx1' | 62.63 | 69.86 | 73.1 | 69.2 | 38.4 | 92.67 | 67.9 | 63.95 | 59.98 | 60.34 |
| 19659 | 'Rbp1' | 5.31 | 3.92 | 0.75 | 6.35 | 5.96 | 0.95 | 0 | 9.83 | 1.55 | 0.98 |
| 19660 | 'Rbp2' | 2.34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19661 | 'Rbp3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.98 | 0 | 0.01 |
| 19662 | 'Rbp4' | 7.65 | 14.2 | 3.61 | 8.98 | 3.3 | 2.21 | 2.35 | 2.57 | 5.75 | 0.1 |
| 19663 | 'Rbpms' | 2.81 | 19.73 | 1.78 | 0.07 | 2.61 | 8.09 | 1.91 | 0.05 | 0 | 1.36 |
| 19664 | 'Rbpj' | 8.86 | 4.58 | 4.26 | 0.98 | 8.59 | 1.92 | 1.68 | 4.12 | 5.04 | 1.17 |
| 19668 | 'Rbpjl' | 0 | 0 | 2.09 | 0 | 0.1 | 0.02 | 6.21 | 0 | 0 | 0.09 |
| 19671 | 'Rce1' | 27.45 | 26.28 | 34.6 | 6.1 | 20.9 | 15.9 | 16.1 | 31.91 | 18.18 | 23.82 |
| 19672 | 'Rcn1' | 36.45 | 46.84 | 43.5 | 88.4 | 27.8 | 54.25 | 67.1 | 40.93 | 44.58 | 58.08 |
| 19674 | 'Rcvrn' | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19679 | 'Pitpnm2' | 1.57 | 2.48 | 2.31 | 1.51 | 2.67 | 1.35 | 0.4 | 2.93 | 1.44 | 0.53 |
| 19682 | 'Rdh5' | 8.37 | 6.27 | 0 | 2.27 | 2.67 | 0 | 0.04 | 4.52 | 6.91 | 2.92 |
| 19684 | 'Rdx' | 29.97 | 30.49 | 29.1 | 28.5 | 17.7 | 7.27 | 37.1 | 32.21 | 27.85 | 26.54 |
| 19687 | 'Rfc1' | 6.53 | 3.97 | 7.44 | 8.85 | 9.57 | 1.82 | 3.02 | 6.52 | 3.97 | 6.55 |
| 19691 | 'Recql' | 4.87 | 1.78 | 0 | 7.08 | 7.52 | 7.01 | 2.32 | 5.53 | 4.97 | 3.61 |
| 19696 | 'Rel' | 0 | 1.02 | 0.13 | 0.2 | 0 | 4.37 | 0 | 0 | 0 | 0 |
| 19697 | 'Rela' | 12.8 | 4.58 | 2.98 | 18.7 | 1.79 | 3.21 | 11.7 | 3.89 | 8.95 | 0 |
| 19698 | 'Relb' | 0 | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19699 | 'Reln' | 0.92 | 0.62 | 5.55 | 1.09 | 7.66 | 6.08 | 3.91 | 2.98 | 2.69 | 3.76 |
| 19700 | 'Rem1' | 0 | 1.54 | 0 | 0 | 0 | 0 | 0 | 3.51 | 0 | 2.55 |
| 19703 | 'Renbp' | 0 | 5.54 | 10.4 | 32.3 | 6.52 | 0 | 14.9 | 6.58 | 25.77 | 4.91 |
| 19704 | 'Upf1' | 1.51 | 2.35 | 1.13 | 1.13 | 1.12 | 0.43 | 1.31 | 0.38 | 0.5 | 4.72 |
| 19707 | 'Reps1' | 1.67 | 3.3 | 4.75 | 4.65 | 2.32 | 9.99 | 15.5 | 7.36 | 11.15 | 4.26 |
| 19708 | 'Dpf2' | 27.11 | 20.52 | 25.1 | 39.9 | 34.4 | 11.95 | 35.5 | 23.89 | 27.36 | 32.2 |
| 19711 | 'Resp18' | 4177 | 4287 | 2047 | 4052 | 2718 | 3665 | 1926 | 3619 | 3638 | 4770.5 |
| 19712 | 'Rest' | 0 | 0.51 | 0 | 0 | 0.01 | 0.38 | 3.63 | 1.02 | 0 | 0 |
| 19713 | 'Ret' | 0.56 | 0.63 | 0 | 1.71 | 0.51 | 0 | 0.66 | 0 | 0.01 | 1.94 |
| 19714 | 'Rev3' | 2.93 | 1.76 | 3.77 | 8.85 | 2.11 | 4.65 | 4.36 | 1.48 | 4.24 | 3.03 |
| 19716 | 'Bex1' | 430 | 338.4 | 429 | 443 | 425 | 590.7 | 437 | 330.7 | 291.2 | 344.2 |
| 19718 | 'Rfc2' | 45.15 | 43.21 | 34.4 | 95.2 | 38.8 | 48.82 | 61.4 | 59.67 | 51.41 | 44.78 |
| 19719 | 'Rfng' | 23.48 | 26.21 | 33 | 19.5 | 22.1 | 20.06 | 27.8 | 26.48 | 26.35 | 6.17 |
| 19720 | 'Trim27' | 8.93 | 7.9 | 3.19 | 17.4 | 19.4 | 5.01 | 0.32 | 3.02 | 6.76 | 14.35 |
| 19724 | 'Rfx1' | 2.85 | 2.61 | 2.41 | 1.01 | 1.33 | 0.55 | 1.1 | 4.37 | 0.66 | 3.21 |
| 19725 | 'Rfx2' | 0.08 | 3.35 | 0 | 0 | 3.16 | 0.01 | 0 | 2.46 | 0 | 1.67 |
| 19726 | 'Rfx3' | 1.83 | 2.53 | 4.69 | 2.58 | 1.35 | 3.34 | 0.67 | 2.19 | 0.62 | 2.98 |
| 19727 | 'Rfxank' | 1.04 | 0.79 | 5.74 | 6.72 | 2.21 | 11.73 | 10.9 | 6.88 | 7.53 | 9.7 |
| 19729 | 'Slc50a1' | 62.23 | 51.59 | 30.5 | 52.5 | 49.1 | 62.64 | 66.7 | 50.81 | 39.4 | 56.62 |
| 19730 | 'Ralgds' | 6.11 | 6.6 | 14 | 16.7 | 2.28 | 8.24 | 11 | 2.29 | 3.23 | 2.5 |
| 19731 | 'Rgl1' | 25.15 | 24.48 | 28.4 | 30.8 | 29.1 | 10.98 | 5.78 | 21.35 | 20.33 | 14.92 |
| 19732 | 'Rgl2' | 9.33 | 15.95 | 11.1 | 12.1 | 10.4 | 13.85 | 8.56 | 7.57 | 12.81 | 2.71 |
| 19733 | 'Rgn' | 3.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19734 | 'Rgs16' | 20.04 | 20.69 | 16.9 | 21.5 | 27.5 | 6.99 | 5.58 | 31.9 | 25.96 | 1.84 |
| 19735 | 'Rgs2' | 33.66 | 27.39 | 47.4 | 20.4 | 17.7 | 59.21 | 22.6 | 46.27 | 29.94 | 31.94 |
| 19736 | 'Rgs4' | 151.8 | 185.5 | 143 | 193 | 57.8 | 92.36 | 24 | 115.1 | 160.2 | 151.98 |
| 19737 | 'Rgs5' | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 4.26 |
| 19739 | 'Rgs9' | 19.85 | 18.32 | 19.3 | 25 | 14.7 | 20.98 | 43.1 | 26.48 | 33.73 | 29.9 |
| 19743 | 'Rhag' | 0.02 | 0 | 0.04 | 0.02 | 0 | 0 | 0 | 0 | 1.08 | 0 |
| 19744 | 'Rheb' | 156.1 | 168.6 | 133 | 174 | 138 | 150 | 99.4 | 172.8 | 166.9 | 129.21 |
| 19746 | 'Rhd' | 1.09 | 3.12 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 3.77 |
| 19752 | 'Rnase1' | 0 | 0 | 0 | 0 | 0 | 13.17 | 0 | 0 | 0 | 0 |
| 19762 | 'Rit2' | 310.3 | 187.2 | 192 | 273 | 301 | 336.9 | 247 | 192.3 | 252.5 | 351.47 |
| 19763 | 'Ring1' | 2.99 | 2.08 | 2.58 | 9.62 | 14.3 | 1.8 | 2.09 | 2.31 | 9.26 | 1.78 |
| 19765 | 'Ralbp1' | 11.66 | 10.24 | 9.34 | 23.2 | 9.86 | 15.98 | 14.6 | 4.18 | 11.86 | 11.88 |
| 19766 | 'Ripk1' | 0.04 | 0.58 | 0.25 | 9.93 | 0.54 | 0.17 | 1.18 | 0.01 | 0.13 | 0.02 |
| 19769 | 'Rit1' | 41.6 | 51.32 | 38.3 | 21.6 | 48.5 | 47.86 | 39.1 | 25.9 | 32.07 | 44.77 |
| 19771 | 'Rlbp1' | 0 | 0 | 16.1 | 5.56 | 0.02 | 0 | 16 | 0 | 0 | 0.02 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 19773 | 'Rln1' | 3.94 | 7.72 | 4.27 | 6.24 | 5.5 | 6.43 | 0.08 | 8.82 | 4.57 | 12.56 |
| 19775 | 'Xpr1' | 8.77 | 9.68 | 7.21 | 10.1 | 3.69 | 6.87 | 4.68 | 5.17 | 12.31 | 7.86 |
| 19777 | 'Uri1' | 14.66 | 8.44 | 6.9 | 8.78 | 19.1 | 5.28 | 7.38 | 6.52 | 11.44 | 6.13 |
| 19819 | 'Rnaseh1' | 18.04 | 6.18 | 7.87 | 12.9 | 11.1 | 15.13 | 12.4 | 18.52 | 20.7 | 6.71 |
| 19820 | 'Rlim' | 7 | 10.37 | 15 | 9.85 | 6.39 | 3.09 | 3.5 | 4.53 | 4.23 | 6.92 |
| 19821 | 'Rnf2' | 17.45 | 12.1 | 13.4 | 10.2 | 11.6 | 1.52 | 22 | 16.41 | 10.32 | 5.28 |
| 19822 | 'Rnf4' | 56.09 | 49.42 | 38.1 | 58.7 | 36.1 | 28.46 | 50.6 | 46.97 | 38.49 | 37.47 |
| 19823 | 'Rnf7' | 160.3 | 162.4 | 107 | 100 | 182 | 160.3 | 156 | 94.47 | 127.6 | 158.68 |
| 19824 | 'Trim10' | 0 | 0 | 1.84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19826 | 'Rnps1' | 154.1 | 153.6 | 123 | 170 | 120 | 146.9 | 162 | 160.1 | 210 | 152.17 |
| 19876 | 'Robo1' | 2.27 | 0.25 | 2.19 | 0.24 | 2.55 | 1.42 | 1.41 | 0.57 | 3.47 | 2.2 |
| 19877 | 'Rock1' | 6.21 | 1.71 | 1.95 | 7.9 | 2.09 | 4.37 | 2.36 | 2.45 | 3.48 | 0.63 |
| 19878 | 'Rock2' | 4.07 | 2.62 | 5.13 | 9.74 | 2.73 | 6.7 | 0.77 | 2.48 | 5.25 | 5.16 |
| 19879 | 'Slc22a8' | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 |
| 19881 | 'Rom1' | 7.25 | 0 | 0.29 | 0 | 8.95 | 0 | 0 | 1.01 | 10.68 | 15.42 |
| 19882 | 'Mst1r' | 0 | 2.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.54 |
| 19883 | 'Rora' | 2.19 | 3.11 | 1.17 | 8.04 | 1.12 | 0.97 | 6.18 | 1.21 | 0.32 | 2.47 |
| 19885 | 'Rorc' | 0 | 0 | 0.02 | 0 | 0.03 | 0 | 0.03 | 2.31 | 0 | 0.02 |
| 19886 | 'Ros1' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19889 | 'Rp2' | 1.5 | 1.22 | 0.03 | 0.03 | 4.21 | 8.96 | 0.23 | 2.27 | 0.72 | 3.26 |
| 19891 | 'Rpa2' | 9.55 | 16.89 | 3.77 | 12.9 | 10.4 | 8.64 | 17.7 | 7.63 | 12.59 | 22.13 |
| 19893 | 'Rpgr' | 5.07 | 5.97 | 4.64 | 8.2 | 13.6 | 10.13 | 8.78 | 7.87 | 10.97 | 12.89 |
| 19894 | 'Rph3a' | 20.43 | 21.51 | 29.7 | 4.55 | 45.4 | 3.41 | 35.4 | 20.66 | 15.12 | 10.42 |
| 19895 | 'Rpia' | 0.03 | 0.05 | 2.02 | 0 | 0.61 | 0 | 0 | 0.8 | 1.49 | 0 |
| 19896 | 'Rpl10a' | 182.6 | 166 | 177 | 205 | 119 | 199.9 | 118 | 154.1 | 123.8 | 139.21 |
| 19899 | 'Rpl18' | 293.5 | 206.5 | 251 | 295 | 199 | 330.2 | 336 | 222.9 | 250.1 | 302.37 |
| 19921 | 'Rpl19' | 578.6 | 477.9 | 705 | 907 | 657 | 670.4 | 749 | 624.1 | 673.9 | 818.62 |
| 19933 | 'Rpl21' | 143.1 | 137.2 | 152 | 161 | 107 | 163.9 | 157 | 108.2 | 130.6 | 124.53 |
| 19934 | 'Rpl22' | 5.48 | 6.16 | 6.54 | 3.73 | 6.67 | 3.18 | 8.32 | 5.47 | 1.55 | 10.62 |
| 19935 | 'Mrpl23' | 225.2 | 209.8 | 187 | 171 | 177 | 243.9 | 106 | 156 | 197.6 | 245.45 |
| 19941 | 'Rpl26' | 338.2 | 323.8 | 350 | 361 | 288 | 421.7 | 339 | 310.1 | 363.6 | 247.85 |
| 19942 | 'Rpl27' | 196 | 176.4 | 283 | 223 | 181 | 238.8 | 199 | 147.8 | 173.2 | 170.43 |
| 19943 | 'Rpl28' | 299.6 | 229.6 | 361 | 257 | 255 | 392.9 | 356 | 268.2 | 343.3 | 352.62 |
| 19944 | 'Rpl29' | 137.3 | 122.1 | 120 | 87.2 | 130 | 197.1 | 171 | 147.9 | 129 | 149.24 |
| 19946 | 'Rpl30' | 180.5 | 202.5 | 209 | 231 | 118 | 235.1 | 155 | 148.8 | 159.4 | 139.86 |
| 19951 | 'Rpl32' | 348.9 | 334.5 | 333 | 365 | 233 | 284 | 262 | 209.3 | 235.4 | 213.87 |
| 19981 | 'Rpl37a' | 206.2 | 276.2 | 341 | 418 | 148 | 386 | 184 | 117.7 | 294.6 | 166.45 |
| 19982 | 'Rpl36a' | 71.64 | 109.4 | 108 | 165 | 69.8 | 128.1 | 99.5 | 53.45 | 79.6 | 81.98 |
| 19988 | 'Rpl6' | 402.6 | 366.3 | 406 | 502 | 326 | 426.2 | 388 | 319.3 | 311.1 | 330.96 |
| 19989 | 'Rpl7' | 169.9 | 212.6 | 205 | 163 | 222 | 162.6 | 225 | 146.5 | 140.9 | 178.6 |
| 20005 | 'Rpl9' | 507.4 | 402.8 | 359 | 689 | 409 | 452.8 | 284 | 366 | 291.3 | 282.74 |
| 20014 | 'Rpn2' | 153.4 | 156.5 | 155 | 130 | 147 | 136.7 | 113 | 152.6 | 212 | 212.53 |
| 20016 | 'Polr1c' | 37.87 | 38.24 | 19.2 | 20.8 | 28.4 | 48.9 | 50.5 | 28.97 | 42.49 | 29.02 |
| 20017 | 'Polr1b' | 3.11 | 7.34 | 6.46 | 18.9 | 7.85 | 0.81 | 9.59 | 0.98 | 2.62 | 9.72 |
| 20018 | 'Polr1d' | 92.19 | 73.21 | 85.8 | 113 | 89.3 | 79.15 | 45.7 | 87.6 | 76.37 | 90.15 |
| 20019 | 'Polr1a' | 6.32 | 2.45 | 6.18 | 7.53 | 1.48 | 4.82 | 11.9 | 6.4 | 2.75 | 4.45 |
| 20020 | 'Polr2a' | 2.33 | 2.09 | 4.95 | 1.03 | 3.4 | 2.58 | 2.28 | 3.17 | 4.2 | 2.51 |
| 20021 | 'Polr2c' | 148.7 | 133.6 | 136 | 187 | 113 | 152.5 | 104 | 140.2 | 129.2 | 135.69 |
| 20022 | 'Polr2j' | 108.2 | 142.4 | 139 | 129 | 142 | 127 | 151 | 156.8 | 122.6 | 105.8 |
| 20024 | 'Sub1' | 189.2 | 194.7 | 143 | 264 | 142 | 150.3 | 145 | 218.9 | 185 | 177.97 |
| 20042 | 'Rps12' | 54.16 | 68.52 | 78.1 | 111 | 86 | 94.06 | 50.9 | 62.68 | 70.24 | 37.83 |
| 20044 | 'Rps14' | 447.3 | 380.7 | 326 | 682 | 406 | 583 | 374 | 290.6 | 339.6 | 371.73 |
| 20054 | 'Rps15' | 297.7 | 268.7 | 333 | 429 | 301 | 350.9 | 400 | 247.1 | 325.8 | 337.25 |
| 20055 | 'Rps16' | 301.8 | 266.2 | 281 | 263 | 203 | 304.1 | 276 | 228.8 | 227.2 | 232.46 |
| 20068 | 'Rps17' | 383 | 318.8 | 457 | 553 | 203 | 378.8 | 333 | 202.9 | 258.8 | 222.91 |
| 20084 | 'Rps18' | 208.4 | 229.4 | 200 | 357 | 213 | 286.8 | 211 | 151.9 | 128.9 | 162.49 |
| 20085 | 'Rps19' | 327.3 | 405.8 | 427 | 554 | 324 | 345.5 | 302 | 227.9 | 254.2 | 258.23 |
| 20088 | 'Rps24' | 208 | 199.5 | 234 | 242 | 161 | 229.3 | 254 | 167.1 | 176 | 168.44 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 20090 | 'Rps29' | 144.9 | 288.2 | 324 | 418 | 131 | 465.6 | 215 | 69 | 314.2 | 106.79 |
| 20091 | 'Rps3a1' | 194.1 | 180.6 | 253 | 213 | 211 | 228.1 | 324 | 191.5 | 146.2 | 232.94 |
| 20102 | 'Rps4x' | 197.9 | 172.9 | 152 | 284 | 197 | 148.1 | 172 | 121.2 | 85.78 | 142.64 |
| 20103 | 'Rps5' | 184.2 | 230.5 | 245 | 285 | 242 | 270.1 | 208 | 193.8 | 153.8 | 173.83 |
| 20104 | 'Rps6' | 22.7 | 43.75 | 15.5 | 22.1 | 20.6 | 18.15 | 18.3 | 24.97 | 10.78 | 17.14 |
| 20111 | 'Rps6ka1' | 5.05 | 0.06 | 0.05 | 0.02 | 2.3 | 19.26 | 0.02 | 0.33 | 5.1 | 2.85 |
| 20112 | 'Rps6ka2' | 6.7 | 11.36 | 8.2 | 6.63 | 9.61 | 4.8 | 8.44 | 13.42 | 8.34 | 20.34 |
| 20115 | 'Rps7' | 162 | 159.1 | 155 | 169 | 174 | 201.9 | 157 | 141.5 | 115.6 | 164.9 |
| 20116 | 'Rps8' | 283.6 | 264.5 | 358 | 486 | 246 | 341.8 | 253 | 251.4 | 231.3 | 232.16 |
| 20128 | 'Trim30a' | 0 | 0 | 2.33 | 0 | 0 | 4.81 | 0 | 0 | 0 | 0.01 |
| 20130 | 'Rras' | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 3.31 | 0 | 3.53 |
| 20133 | 'Rrm1' | 3.75 | 5.23 | 4.44 | 8.16 | 7.89 | 6.26 | 5.95 | 2.38 | 6.73 | 4.16 |
| 20135 | 'Rrm2' | 0 | 0.31 | 0.02 | 0 | 2.66 | 0 | 0 | 0 | 0.08 | 0 |
| 20147 | 'Rs1' | 0 | 0.04 | 0 | 0 | 0.12 | 0 | 0 | 0.26 | 0 | 0 |
| 20148 | 'Dhrs3' | 13.25 | 14.43 | 4.36 | 10.1 | 0 | 15.18 | 11.6 | 7.15 | 8.72 | 7.62 |
| 20163 | 'Rsu1' | 9.94 | 0 | 12 | 14.9 | 13.4 | 19.33 | 7.82 | 11.97 | 7.66 | 13.16 |
| 20166 | 'Rtkn' | 8.92 | 9.15 | 30.4 | 2.92 | 5.44 | 17.72 | 7.58 | 12.97 | 17.81 | 3.51 |
| 20167 | 'Rtn2' | 3.72 | 6.1 | 2.16 | 12.2 | 1.97 | 11.51 | 15.8 | 9.2 | 7.96 | 8.95 |
| 20168 | 'Rtn3' | 518.2 | 522.7 | 573 | 294 | 427 | 445.9 | 630 | 544.2 | 422.1 | 437.74 |
| 20170 | 'Hps6' | 2.01 | 10.71 | 2.14 | 14.2 | 4.57 | 5.89 | 0.02 | 2.3 | 12.4 | 0.02 |
| 20174 | 'Ruvbl2' | 27.97 | 40.48 | 56.1 | 44.5 | 54.2 | 52.97 | 59.4 | 67.45 | 50.53 | 33.95 |
| 20181 | 'Rxra' | 2.77 | 0.2 | 1.23 | 2.01 | 1.52 | 0.89 | 2.5 | 4.47 | 5.26 | 0.79 |
| 20182 | 'Rxb' | 6.6 | 5.46 | 3.74 | 4.46 | 13.4 | 1.41 | 0 | 5.15 | 2.32 | 5.3 |
| 20183 | 'Rxrg' | 20.34 | 39.93 | 42.4 | 2.51 | 28 | 57.19 | 21.2 | 83.42 | 49.81 | 49.91 |
| 20184 | 'Uimc1' | 16.36 | 16.23 | 7.43 | 7.32 | 7.29 | 7.42 | 2.11 | 6.92 | 2.56 | 3.1 |
| 20185 | 'Ncor1' | 6.26 | 8.77 | 6.32 | 11.8 | 11.2 | 10.13 | 9.37 | 5.02 | 4.86 | 8.86 |
| 20186 | 'Nr1h4' | 0 | 0 | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20187 | 'Ryk' | 2.12 | 1.62 | 0 | 0.73 | 2.56 | 1.8 | 0 | 1.54 | 1.08 | 1.24 |
| 20190 | 'Ryr1' | 0.81 | 0.22 | 0.15 | 0.02 | 0.48 | 2.41 | 0.85 | 0.38 | 0.02 | 0.68 |
| 20191 | 'Ryr2' | 0.44 | 0.54 | 2.88 | 0.33 | 2.19 | 0.2 | 2.46 | 0.8 | 0.44 | 1.4 |
| 20192 | 'Ryr3' | 1.27 | 1.29 | 1.31 | 0.71 | 2.65 | 3.44 | 0.36 | 2.1 | 3.47 | 2.2 |
| 20193 | 'S100a1' | 47.8 | 44.59 | 151 | 107 | 137 | 138 | 98.7 | 51.43 | 58.31 | 47.06 |
| 20194 | 'S100a10' | 81.37 | 24.85 | 78.2 | 13.4 | 88 | 66.42 | 19.8 | 66.87 | 28.1 | 59.28 |
| 20195 | 'S100a11' | 9.43 | 0.32 | 31.9 | 0 | 9.84 | 0 | 0 | 2.31 | 3.65 | 12.92 |
| 20196 | 'S100a13' | 12.95 | 6.29 | 16.7 | 6.07 | 8.57 | 23.9 | 20.6 | 4.08 | 3.09 | 3.07 |
| 20197 | 'S100a3' | 0 | 0 | 1.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20198 | 'S100a4' | 0 | 0 | 0 | 0.13 | 13.6 | 0 | 15.1 | 0 | 0 | 3.08 |
| 20200 | 'S100a6' | 3.35 | 0.64 | 7.62 | 0 | 13.4 | 0.07 | 4.44 | 0 | 0 | 9.08 |
| 20201 | 'S100a8' | 0 | 0 | 5.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20203 | 'S100b' | 13.78 | 15.87 | 21.4 | 36.9 | 116 | 28.47 | 31.5 | 14.14 | 7.38 | 6.65 |
| 20208 | 'Saa1' | 0 | 24.99 | 0 | 0 | 0 | 0 | 0 | 5.8 | 6.43 | 0 |
| 20209 | 'Saa2' | 0 | 3.15 | 0.09 | 0 | 0 | 0 | 0 | 20.14 | 0 | 0 |
| 20215 | 'Sag' | 2.95 | 7.01 | 0.94 | 3.38 | 0.11 | 0 | 1.13 | 4.18 | 0 | 1.8 |
| 20216 | 'Acsm3' | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 |
| 20218 | 'Khdrbs1' | 13.89 | 10.6 | 17.6 | 20.4 | 10.3 | 1.12 | 17.7 | 11.19 | 12.08 | 11.89 |
| 20220 | 'Sap18' | 41.51 | 55.87 | 45.3 | 51.2 | 38.1 | 39.19 | 25.6 | 31.23 | 31.26 | 43.31 |
| 20222 | 'Sf3a2' | 5.43 | 6.73 | 9.85 | 4.23 | 13.1 | 1.95 | 2.22 | 8.49 | 25.26 | 15.91 |
| 20224 | 'Sar1a' | 143.4 | 122.2 | 113 | 105 | 88.7 | 85.23 | 108 | 111.8 | 118.7 | 147.47 |
| 20226 | 'Sars' | 70.65 | 50.9 | 73.8 | 40.5 | 69.7 | 74.07 | 71.6 | 78.24 | 65.05 | 57.69 |
| 20227 | 'Sart1' | 2.77 | 7.8 | 4.29 | 7.78 | 1.08 | 5.72 | 4.87 | 7.81 | 4.77 | 3.31 |
| 20229 | 'Sat1' | 43.19 | 96.63 | 45.9 | 154 | 33.3 | 117.8 | 40.5 | 44.25 | 86.39 | 62.05 |
| 20230 | 'Satb1' | 0.38 | 2.07 | 2.83 | 0 | 1.35 | 2.96 | 3.25 | 2.1 | 0.22 | 0.48 |
| 20238 | 'Atxn1' | 8.74 | 8.78 | 7.12 | 6.15 | 11.9 | 9.13 | 9.75 | 10.5 | 9.95 | 2.58 |
| 20239 | 'Atxn2' | 6.57 | 5.22 | 6.22 | 15.5 | 8.95 | 4.53 | 7.66 | 7.84 | 4.5 | 10.43 |
| 20249 | 'Scd1' | 2.23 | 2.3 | 3.29 | 7.47 | 11.9 | 0.77 | 8.65 | 6.02 | 4.85 | 5.78 |
| 20250 | 'Scd2' | 67.99 | 45.35 | 72.7 | 46.5 | 40.8 | 23.11 | 54.1 | 32.63 | 46.84 | 55.67 |
| 20254 | 'Scg2' | 1962 | 1985 | 717 | 2180 | 411 | 911.1 | 773 | 1300 | 1337 | 1307.36 |
| 20255 | 'Scg3' | 102.3 | 126 | 92.1 | 142 | 69.4 | 73.74 | 62.1 | 87.26 | 75.29 | 79.31 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 20256 | 'Clec11a' | 3.5 | 0 | 8.08 | 0.2 | 7.77 | 2.36 | 0.03 | 2.24 | 3.91 | 8.78 |
| 20257 | 'Stmn2' | 302.7 | 261.4 | 294 | 233 | 363 | 299.8 | 218 | 324.9 | 294.3 | 298.82 |
| 20262 | 'Stmn3' | 1380 | 1364 | 1655 | 1186 | 1498 | 1957 | 1592 | 1418 | 1079 | 1298.67 |
| 20265 | 'Scn1a' | 11.62 | 2.54 | 22.7 | 12 | 13.8 | 2.63 | 6.07 | 6.5 | 6.69 | 4.69 |
| 20266 | 'Scn1b' | 15.74 | 8.82 | 23.4 | 12.7 | 37 | 7.41 | 18.8 | 23.76 | 12.19 | 9.44 |
| 20269 | 'Scn3a' | 9.91 | 6.52 | 10.8 | 20.9 | 8.71 | 5.07 | 9.5 | 8.07 | 12.09 | 16.91 |
| 20271 | 'Scn5a' | 1.78 | 0.32 | 0.97 | 0.01 | 2.88 | 0 | 0.05 | 1.24 | 0.68 | 1.17 |
| 20272 | 'Scn7a' | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0.05 |
| 20273 | 'Scn8a' | 3.89 | 1.25 | 5.33 | 10.5 | 6.9 | 1.03 | 2.72 | 3.23 | 5.74 | 3.23 |
| 20274 | 'Scn9a' | 25.45 | 8.58 | 6.36 | 18.7 | 10.2 | 11.63 | 4.46 | 7.13 | 16.27 | 13.63 |
| 20276 | 'Scnn1a' | 0 | 0 | 0 | 7.07 | 0 | 0 | 0.04 | 1.28 | 3.71 | 2.24 |
| 20277 | 'Scnn1b' | 0 | 6.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20280 | 'Scp2' | 55.31 | 48.05 | 47.5 | 45.3 | 54.5 | 74.22 | 63.2 | 54.79 | 60.77 | 60.92 |
| 20284 | 'Scrg1' | 18.69 | 17.56 | 46 | 79.6 | 24.9 | 31.4 | 59.7 | 17.39 | 16.26 | 14.07 |
| 20286 | 'Zc3h7b' | 4.39 | 3.55 | 0.84 | 0.11 | 3.24 | 1.96 | 0.24 | 1.57 | 1.94 | 2.76 |
| 20287 | 'Sct' | 0 | 6.45 | 0 | 0 | 0 | 2.51 | 0 | 0 | 0 | 17.81 |
| 20289 | 'Scx' | 0.16 | 0 | 1.09 | 0 | 0 | 2.36 | 2.54 | 0.94 | 0 | 1.89 |
| 20293 | 'Ccl12' | 1.37 | 0 | 0 | 38.6 | 0.1 | 12.77 | 5.14 | 0 | 0 | 7.34 |
| 20295 | 'Ccl17' | 1.92 | 0 | 13.8 | 8.69 | 6.34 | 0 | 0.11 | 1.22 | 0 | 4.74 |
| 20296 | 'Ccl2' | 22.82 | 6.27 | 0 | 13.4 | 0 | 0 | 0 | 0 | 1.81 | 0 |
| 20297 | 'Ccl20' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.94 |
| 20299 | 'Ccl22' | 5.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20300 | 'Ccl25' | 3.1 | 13.78 | 7.56 | 0.06 | 0 | 14.56 | 1.79 | 4.86 | 11.98 | 8.35 |
| 20301 | 'Ccl27a' | 132.1 | 133.1 | 112 | 146 | 144 | 126.8 | 88.3 | 141.4 | 214.7 | 201.65 |
| 20302 | 'Ccl3' | 5.8 | 0 | 0 | 7.42 | 0 | 89.05 | 0 | 0 | 5.94 | 2.4 |
| 20303 | 'Ccl4' | 46.75 | 0 | 0 | 0 | 0 | 91.37 | 6.43 | 0.33 | 3.59 | 2.59 |
| 20305 | 'Ccl6' | 1.65 | 4.58 | 0 | 0 | 2.82 | 3.39 | 7.5 | 3.43 | 0 | 1.27 |
| 20306 | 'Ccl7' | 4.37 | 0 | 0 | 0 | 0 | 15.2 | 0 | 0 | 0 | 0 |
| 20307 | 'Ccl8' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.09 | 0 |
| 20308 | 'Ccl9' | 1.3 | 0.13 | 0.18 | 0.12 | 0.05 | 0.09 | 0.13 | 0.01 | 0.04 | 0.17 |
| 20309 | 'Cxcl15' | 0.04 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 20311 | 'Cxcl5' | 0 | 0 | 0 | 0 | 0 | 1.81 | 0 | 0 | 0 | 1.92 |
| 20312 | 'Cx3cl1' | 148.3 | 132 | 137 | 34 | 114 | 94.51 | 128 | 120.6 | 105.9 | 92.46 |
| 20315 | 'Cxcl12' | 0 | 0.13 | 0 | 0 | 0.05 | 0 | 0.03 | 0 | 0 | 5.38 |
| 20316 | 'Sdf2' | 186.3 | 196.6 | 117 | 229 | 151 | 195.3 | 140 | 148.5 | 195.8 | 223.05 |
| 20317 | 'Serpinf1' | 9.99 | 0 | 0.07 | 0.7 | 48.7 | 166.8 | 11.5 | 10.25 | 100.3 | 99.58 |
| 20318 | 'Sdf4' | 81.52 | 98.53 | 87 | 98.1 | 58.9 | 72.96 | 79 | 67.02 | 93.3 | 104.8 |
| 20319 | 'Sfrp2' | 0.84 | 1.59 | 4.43 | 0 | 4.71 | 3.91 | 6.01 | 2.81 | 31.24 | 22.4 |
| 20320 | 'Nptn' | 179.2 | 189.9 | 178 | 90.5 | 229 | 165.4 | 187 | 277.7 | 252.4 | 278.4 |
| 20321 | 'Frrs1' | 1.62 | 0.64 | 0.55 | 0.01 | 0.21 | 1.45 | 0 | 0 | 2.14 | 0.96 |
| 20322 | 'Sord' | 4.78 | 17.46 | 8.99 | 9.59 | 12.7 | 16 | 11.1 | 9.86 | 7.59 | 17.23 |
| 20324 | 'Cavin2' | 0.07 | 5.89 | 3.35 | 2.2 | 0 | 3.35 | 4.75 | 1.67 | 0.14 | 0.57 |
| 20333 | 'Sec22b' | 57.18 | 57.14 | 55.1 | 64.7 | 31.5 | 74.21 | 56.4 | 49.5 | 41.43 | 52.21 |
| 20334 | 'Sec23a' | 33.25 | 35.26 | 40.7 | 30.5 | 34.8 | 4.55 | 41.1 | 30.26 | 41.54 | 43.7 |
| 20335 | 'Sec61g' | 111.3 | 136.2 | 143 | 191 | 96 | 210.1 | 92 | 71 | 145.3 | 109.31 |
| 20336 | 'Exoc4' | 13.32 | 11.65 | 17.5 | 6.41 | 17.3 | 5.75 | 20.7 | 10.01 | 13.48 | 12.96 |
| 20338 | 'Sel1l' | 41.41 | 36.08 | 35.8 | 30 | 26.7 | 21.12 | 34.4 | 33.1 | 42.21 | 49.74 |
| 20340 | 'Glg1' | 15.56 | 14.33 | 14.8 | 27.2 | 16 | 16.01 | 21.5 | 9.47 | 29.45 | 20.82 |
| 20341 | 'Selenbp1' | 1.29 | 5.33 | 0.03 | 17.1 | 6.8 | 8.55 | 10.5 | 7.31 | 4.36 | 7.13 |
| 20342 | 'Selenbp2' | 0 | 0.33 | 0 | 0.47 | 0 | 0.23 | 0.25 | 0.13 | 0.11 | 0.16 |
| 20344 | 'Selp' | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20345 | 'Selplg' | 0.67 | 5.47 | 0.05 | 0.03 | 4.55 | 117.2 | 7.52 | 2.76 | 11.4 | 5.19 |
| 20346 | 'Sema3a' | 2.59 | 8.72 | 2.63 | 4.68 | 0.47 | 0 | 0.04 | 1.61 | 1.5 | 1.7 |
| 20347 | 'Sema3b' | 2.42 | 0 | 0 | 0 | 1.87 | 0 | 4.36 | 0 | 2.27 | 0 |
| 20348 | 'Sema3c' | 0.63 | 0 | 2.01 | 0 | 5.48 | 1.65 | 0 | 1.07 | 10.62 | 4.99 |
| 20349 | 'Sema3e' | 2.06 | 2.69 | 3.74 | 4.78 | 1.16 | 0 | 0.01 | 1.85 | 0.94 | 0.63 |
| 20350 | 'Sema3f' | 2.31 | 0 | 4.83 | 0 | 1.71 | 0.01 | 0 | 0.48 | 5.49 | 1.97 |
| 20351 | 'Sema4a' | 88.36 | 60.04 | 38.7 | 20 | 38.8 | 64.1 | 69 | 85.55 | 56.16 | 88.37 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 20352 | 'Sema4b' | 1.47 | 2.68 | 3.41 | 7.96 | 2.74 | 1.37 | 2.51 | 8.05 | 5.1 | 4.03 |
| 20353 | 'Sema4c' | 0.36 | 0.18 | 0.04 | 0.51 | 0 | 0 | 0.31 | 0 | 1.33 | 0.09 |
| 20354 | 'Sema4d' | 5.43 | 0.96 | 3.72 | 4.91 | 8.85 | 9.89 | 6.18 | 8.47 | 7.61 | 2.52 |
| 20355 | 'Sema4f' | 2.69 | 4.44 | 8.13 | 3.84 | 3.6 | 2.38 | 14.5 | 2.2 | 5.39 | 4.94 |
| 20356 | 'Sema5a' | 2.8 | 0.86 | 4.18 | 2.21 | 3.17 | 1.29 | 3.37 | 0.27 | 0.51 | 3.66 |
| 20357 | 'Sema5b' | 0.8 | 0.52 | 6.88 | 5.88 | 0.12 | 3.11 | 1.69 | 0.35 | 9.87 | 8.14 |
| 20358 | 'Sema6a' | 9.56 | 12.54 | 8.86 | 2.67 | 5.48 | 3.05 | 12.2 | 7.72 | 9.87 | 18.1 |
| 20359 | 'Sema6b' | 2.16 | 1.58 | 2.65 | 2.28 | 2.67 | 0.12 | 3.37 | 1.38 | 3.49 | 0.29 |
| 20360 | 'Sema6c' | 0.02 | 0.05 | 0.22 | 0.88 | 0.23 | 0.01 | 0.48 | 1.09 | 1.85 | 0.06 |
| 20361 | 'Sema7a' | 0 | 0.04 | 1.31 | 0 | 0.3 | 0.04 | 0.65 | 0.52 | 0.36 | 0 |
| 20362 | 'Sept8' | 42.7 | 37.92 | 43.4 | 37.1 | 29.3 | 47.95 | 48.3 | 31.62 | 56.41 | 6.54 |
| 20363 | 'Selenop' | 151.1 | 83.97 | 29.7 | 76.4 | 54.9 | 64.13 | 74.7 | 34.85 | 31.42 | 27.63 |
| 20364 | 'Selenow' | 1132 | 1054 | 893 | 1879 | 1634 | 1281 | 931 | 1380 | 1149 | 1025.19 |
| 20365 | 'Serf1' | 29.41 | 46.08 | 32.5 | 30.2 | 30.8 | 22.48 | 47.2 | 23.76 | 46.73 | 34.72 |
| 20370 | 'Sez6' | 19.31 | 10.43 | 41.2 | 11.4 | 7.01 | 35.65 | 44.5 | 28.04 | 33.65 | 19 |
| 20375 | 'Spi1' | 0.46 | 0 | 0 | 0 | 0 | 15.43 | 5.07 | 2.1 | 0 | 0 |
| 20377 | 'Sfrp1' | 0.02 | 0.37 | 0 | 0.77 | 0.02 | 0 | 0 | 1.19 | 0 | 0 |
| 20378 | 'Frzb' | 0 | 0 | 0.41 | 0 | 0.03 | 0 | 4.37 | 0 | 0.01 | 0 |
| 20379 | 'Sfrp4' | 0 | 2.28 | 3.9 | 0 | 0 | 0 | 11 | 0 | 0 | 0 |
| 20382 | 'Srsf2' | 54.73 | 31.65 | 49.1 | 91.2 | 122 | 64.63 | 62.1 | 75.67 | 86.87 | 70.81 |
| 20383 | 'Srsf3' | 62.38 | 81.18 | 66.7 | 41 | 69.1 | 78.12 | 61 | 60.73 | 56.62 | 78.61 |
| 20384 | 'Srsf5' | 204.9 | 267.2 | 239 | 293 | 310 | 316.4 | 327 | 250 | 305.8 | 296.91 |
| 20388 | 'Sftpb' | 0 | 1.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20389 | 'Sftpc' | 0 | 0 | 0 | 0 | 0 | 0 | 6.1 | 0.47 | 0 | 0 |
| 20391 | 'Sgca' | 0 | 0 | 0.14 | 0.04 | 0 | 0.03 | 0.04 | 0.03 | 0 | 0.03 |
| 20392 | 'Sgce' | 45.55 | 23.3 | 29.4 | 11.8 | 11.4 | 16.44 | 22.9 | 36.19 | 35.46 | 33.02 |
| 20393 | 'Sgk1' | 16.16 | 7.94 | 21.8 | 8.16 | 5.71 | 58.34 | 9.55 | 5.05 | 17.68 | 6.92 |
| 20394 | 'Scg5' | 516.2 | 598.9 | 514 | 737 | 665 | 657.3 | 540 | 584.5 | 606 | 674.64 |
| 20397 | 'Sgpl1' | 1.96 | 4.94 | 14.2 | 12.1 | 1.25 | 0.39 | 6.19 | 4.38 | 6.06 | 1.17 |
| 20399 | 'Sh2b1' | 31.87 | 16.05 | 21.7 | 8.52 | 31.5 | 39.98 | 31.5 | 22.63 | 13.05 | 33.63 |
| 20400 | 'Sh2d1a' | 0 | 0 | 0 | 0 | 0 | 0 | 0.62 | 0 | 0 | 0.3 |
| 20401 | 'Sh3bp1' | 0 | 2.26 | 5.36 | 1.38 | 1.69 | 4.8 | 13.4 | 4.22 | 3.71 | 0.63 |
| 20402 | 'Zfp106' | 3.8 | 1.82 | 5.31 | 7.02 | 7.03 | 2.31 | 6.28 | 3.31 | 7.49 | 3.42 |
| 20403 | 'Itsn2' | 8.18 | 0.56 | 10.2 | 0.72 | 4.13 | 6.25 | 8.54 | 2.98 | 9.42 | 2.85 |
| 20404 | 'Sh3gl2' | 148.5 | 97.54 | 150 | 46.2 | 90.3 | 119.3 | 151 | 134.8 | 85.49 | 90.7 |
| 20405 | 'Sh3gl1' | 42.48 | 26.34 | 21.7 | 16 | 19.9 | 34.52 | 23.4 | 30.45 | 33.32 | 21.97 |
| 20408 | 'Sh3gl3' | 15.47 | 36.66 | 5.22 | 5.34 | 19.6 | 14.46 | 10.2 | 5.23 | 11.64 | 12.72 |
| 20409 | 'Ostf1' | 9.27 | 6.75 | 9.58 | 6.49 | 7.64 | 22.38 | 15 | 13.72 | 16.72 | 13.55 |
| 20410 | 'Sorbs3' | 2.01 | 3.07 | 9.93 | 3.24 | 9.19 | 0.84 | 0 | 0.02 | 0 | 3.94 |
| 20411 | 'Sorbs1' | 28.37 | 20.29 | 17.7 | 18.6 | 21.5 | 22.44 | 11.5 | 30.77 | 18.81 | 13.73 |
| 20416 | 'Shc1' | 0.24 | 4.31 | 2.31 | 9.86 | 3.17 | 0.01 | 0 | 0 | 1.4 | 2.13 |
| 20418 | 'Shc3' | 2.38 | 0.76 | 0 | 11.6 | 1.78 | 0.45 | 0 | 0.05 | 0.08 | 0 |
| 20419 | 'Shcbp1' | 0 | 0.65 | 0.86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20420 | 'Shd' | 49.94 | 38.16 | 84.8 | 52.5 | 93.9 | 47.31 | 82.4 | 41.08 | 28.89 | 34.86 |
| 20422 | 'Sem1' | 257.9 | 233.9 | 268 | 373 | 268 | 327.1 | 211 | 173.6 | 304.7 | 206.08 |
| 20423 | 'Shh' | 3.9 | 0 | 6.41 | 1.78 | 1.1 | 0.05 | 0 | 0.51 | 1.88 | 0.06 |
| 20425 | 'Shmt1' | 0 | 0 | 3.17 | 0.12 | 0 | 0.1 | 5.55 | 0 | 0 | 0 |
| 20429 | 'Shox2' | 0 | 0 | 0 | 0 | 1.13 | 0 | 0 | 0 | 0 | 0.01 |
| 20430 | 'Cyfip1' | 8.21 | 5.92 | 17.2 | 14.7 | 7.7 | 12.09 | 21.6 | 11.57 | 21.07 | 8.67 |
| 20431 | 'Pmel' | 0 | 0 | 1.57 | 0 | 0.07 | 0 | 0 | 2.96 | 0 | 0.28 |
| 20437 | 'Siah1a' | 0.06 | 3.99 | 0.3 | 0.46 | 0.68 | 0.39 | 2.38 | 0.86 | 1.59 | 0.89 |
| 20438 | 'Siah1b' | 0 | 2.06 | 5.78 | 10.5 | 5.72 | 0 | 4.28 | 5.98 | 2.1 | 5.32 |
| 20439 | 'Siah2' | 1.46 | 1.65 | 1.33 | 8.82 | 0.53 | 2.9 | 3.08 | 0 | 0 | 3.53 |
| 20440 | 'St6gal1' | 0 | 1.09 | 3.9 | 0 | 1.82 | 0.71 | 2.43 | 2.07 | 2.82 | 0.14 |
| 20441 | 'St3gal3' | 7.22 | 6.55 | 13.2 | 10 | 0.39 | 2.5 | 6.04 | 7.72 | 5.94 | 5.48 |
| 20442 | 'St3gal1' | 1.57 | 0 | 0.03 | 3.17 | 0.02 | 0 | 0 | 1.27 | 0 | 0.63 |
| 20443 | 'St3gal4' | 8.36 | 20.05 | 9.15 | 37.2 | 4.54 | 3.38 | 8.33 | 11.1 | 7.36 | 9.47 |
| 20444 | 'St3gal2' | 3.37 | 2.36 | 5.37 | 1 | 0.48 | 1.47 | 3.37 | 2.61 | 4.46 | 4.38 |

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|-------|--------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 20445 | 'St6galnac1' | 0 | 0 | 0.62 | 0 | 0 | 0.78 | 0 | 0 | 0 | 0 |
| 20446 | 'St6galnac2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 |
| 20447 | 'St6galnac3' | 0.23 | 1.26 | 1 | 0 | 0.12 | 1.14 | 0.66 | 0.97 | 0.56 | 0 |
| 20448 | 'St6galnac4' | 16.21 | 9.85 | 4.99 | 1.47 | 15.3 | 9.18 | 4.52 | 4.1 | 15.02 | 9.68 |
| 20449 | 'St8sia1' | 0.01 | 0.43 | 0.61 | 1.03 | 0.41 | 0 | 2.73 | 0 | 2.98 | 1.28 |
| 20450 | 'St8sia2' | 0 | 2.1 | 3.51 | 0.82 | 2.98 | 1.38 | 6.58 | 0 | 0.5 | 3.51 |
| 20451 | 'St8sia3' | 26.36 | 23.85 | 20 | 16.5 | 17.2 | 31.37 | 28 | 20.33 | 20.13 | 34.59 |
| 20452 | 'St8sia4' | 0.12 | 1.23 | 1.47 | 0 | 3.85 | 0.03 | 1.08 | 0.12 | 0.6 | 2.57 |
| 20454 | 'St3gal5' | 21.56 | 14.59 | 4.41 | 76.5 | 19.6 | 19.24 | 15.1 | 15.51 | 23.42 | 12.49 |
| 20459 | 'Ptk6' | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20460 | 'Stil' | 0 | 0 | 0 | 0 | 0.07 | 0 | 3 | 0 | 0 | 0 |
| 20462 | 'Tra2b' | 110.3 | 131.9 | 90.1 | 183 | 75.7 | 105.3 | 66.8 | 104.1 | 122.4 | 121.08 |
| 20463 | 'Cox7a2l' | 244.4 | 96.73 | 150 | 167 | 159 | 199.2 | 138 | 175 | 154.9 | 132.11 |
| 20464 | 'Sim1' | 0.14 | 2 | 0 | 0 | 0.01 | 0 | 3.37 | 0 | 0 | 0 |
| 20465 | 'Sim2' | 0 | 0.51 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 20466 | 'Sin3a' | 4.06 | 4.14 | 7.03 | 1.71 | 3.31 | 0.6 | 6.61 | 2.95 | 13.36 | 4.39 |
| 20467 | 'Sin3b' | 38.49 | 78.96 | 72 | 58.8 | 49.4 | 68.5 | 71.6 | 56.6 | 75.01 | 65.93 |
| 20469 | 'Sipa1' | 5.64 | 1.47 | 7.96 | 10.2 | 6.56 | 19.18 | 7.14 | 4.37 | 9.27 | 1.38 |
| 20471 | 'Six1' | 0 | 0 | 0 | 0 | 1.68 | 0 | 0.02 | 0 | 0 | 0.46 |
| 20473 | 'Six3' | 0.81 | 5.6 | 3.57 | 5.03 | 11.6 | 7.68 | 1.17 | 1.15 | 4.11 | 14.02 |
| 20474 | 'Six4' | 0 | 0 | 0.47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20476 | 'Six6' | 0 | 0 | 0 | 0 | 18.8 | 0 | 0.01 | 0 | 0 | 0.06 |
| 20479 | 'Vps4b' | 22.73 | 28.49 | 25.2 | 11.4 | 13.4 | 14.44 | 19.6 | 17.59 | 28.42 | 48.3 |
| 20480 | 'Clpb' | 8.94 | 14.97 | 12.9 | 5.06 | 14.1 | 11.26 | 16.6 | 17.65 | 21.97 | 22.15 |
| 20481 | 'Ski' | 2.05 | 2.66 | 2.27 | 9.48 | 3.2 | 0.63 | 4.27 | 1.98 | 1.51 | 3.25 |
| 20482 | 'Skil' | 6.45 | 6.32 | 3.98 | 11.5 | 6.38 | 6.58 | 3.96 | 2.62 | 5.08 | 10.04 |
| 20491 | 'Sla' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20492 | 'Slbp' | 82.44 | 94.17 | 78.9 | 93.8 | 62 | 73.77 | 73.5 | 82.1 | 66.95 | 57.87 |
| 20493 | 'Slc10a1' | 0.06 | 0.1 | 0.1 | 0.31 | 0.23 | 0.06 | 0.13 | 0.1 | 1.35 | 1.33 |
| 20494 | 'Slc10a2' | 0 | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 20495 | 'Slc12a1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.89 | 0 | 0 | 0 |
| 20496 | 'Slc12a2' | 0.03 | 0.04 | 1.42 | 6.14 | 1.25 | 0.4 | 0.71 | 0 | 1.39 | 1.08 |
| 20497 | 'Slc12a3' | 0 | 0 | 0 | 0 | 0.04 | 1.45 | 0 | 0.15 | 0 | 0 |
| 20498 | 'Slc12a4' | 2.18 | 0.67 | 10.5 | 7.64 | 0.01 | 0.02 | 8.81 | 2.85 | 4.97 | 0 |
| 20499 | 'Slc12a7' | 1.02 | 0.01 | 0.01 | 0.51 | 9.52 | 3.72 | 0.01 | 0 | 0 | 10.58 |
| 20501 | 'Slc16a1' | 5.83 | 6.49 | 7.31 | 6.23 | 7.35 | 1.68 | 0.02 | 0.73 | 7.66 | 1.29 |
| 20502 | 'Slc16a2' | 0 | 5.78 | 2.48 | 8.14 | 3.09 | 0.86 | 2.69 | 1.99 | 5.33 | 3.32 |
| 20503 | 'Slc16a7' | 1.18 | 0.38 | 1.58 | 1.24 | 0.12 | 0.09 | 5.48 | 1.37 | 0.12 | 1.66 |
| 20509 | 'Slc19a1' | 15.01 | 12.4 | 32.1 | 0 | 9.53 | 23.4 | 15.4 | 12.02 | 18.44 | 14.44 |
| 20510 | 'Slc1a1' | 23.53 | 13.01 | 31.8 | 15.9 | 11.9 | 12.75 | 5.51 | 13.59 | 11.17 | 11.11 |
| 20511 | 'Slc1a2' | 10.31 | 8.83 | 6.79 | 7.74 | 6.39 | 6.17 | 16.9 | 3.14 | 7.92 | 6.39 |
| 20512 | 'Slc1a3' | 87.98 | 66.67 | 39.7 | 101 | 22.5 | 45.73 | 41.7 | 29.26 | 43.22 | 39.61 |
| 20513 | 'Slc1a6' | 9.16 | 4.49 | 6.95 | 7.41 | 6.11 | 7.08 | 3.11 | 11.95 | 10.27 | 1.92 |
| 20514 | 'Slc1a5' | 0 | 0 | 0.53 | 0 | 1.58 | 1.37 | 0 | 1.31 | 3.64 | 0 |
| 20515 | 'Slc20a1' | 13.51 | 17.1 | 22 | 28.7 | 8.55 | 11.68 | 5.37 | 19.51 | 22.63 | 25.21 |
| 20516 | 'Slc20a2' | 12.89 | 14.58 | 13.8 | 6.45 | 6.64 | 8.97 | 14.7 | 8.67 | 13.12 | 15.75 |
| 20517 | 'Slc22a1' | 0 | 0 | 0 | 0 | 0 | 1.01 | 0 | 0 | 0 | 0 |
| 20518 | 'Slc22a2' | 0 | 0.38 | 0 | 1.17 | 0 | 0 | 0 | 0 | 0 | 0.34 |
| 20519 | 'Slc22a3' | 0 | 4.23 | 2.89 | 0 | 0.03 | 0 | 0 | 1.15 | 0.63 | 0 |
| 20520 | 'Slc22a5' | 2.92 | 2.59 | 0 | 1.31 | 0.09 | 0.05 | 1.94 | 4.52 | 7.51 | 10.88 |
| 20521 | 'Slc22a12' | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20522 | 'Slc23a1' | 0.92 | 0.22 | 0.19 | 0.14 | 0.13 | 0.06 | 0.19 | 0.08 | 0.2 | 0.19 |
| 20523 | 'Slc25a14' | 117.6 | 93.99 | 71.9 | 85 | 67.6 | 49.55 | 83.4 | 76.75 | 125.4 | 108.02 |
| 20524 | 'Slc25a17' | 58.08 | 65.61 | 47.8 | 39.3 | 59.3 | 36.46 | 50.1 | 83.26 | 52.91 | 21.38 |
| 20525 | 'Slc2a1' | 21.72 | 34.64 | 33.5 | 4.91 | 26.7 | 30.59 | 26.3 | 19.04 | 0.02 | 23.43 |
| 20526 | 'Slc2a2' | 0 | 0 | 0 | 0.02 | 0 | 0 | 2.32 | 0 | 0 | 0 |
| 20527 | 'Slc2a3' | 18.49 | 18.97 | 43.7 | 21.5 | 23.4 | 16.85 | 9.52 | 20.01 | 37.7 | 47.08 |
| 20528 | 'Slc2a4' | 0 | 0 | 0.07 | 0.05 | 0.02 | 0.02 | 0.02 | 0 | 0.02 | 0.04 |

| | | | | | | | | | | | |
|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 20529 | 'Slc31a1' | 9.57 | 12.73 | 13.4 | 6.67 | 7.83 | 9.73 | 0 | 6.44 | 11.02 | 8.11 |
| 20530 | 'Slc31a2' | 6.27 | 6.71 | 7.64 | 0.62 | 0.03 | 4.89 | 4.48 | 12.22 | 4.56 | 15.51 |
| 20532 | 'Slc3a1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0.05 |
| 20534 | 'Slc4a1ap' | 26.35 | 18.13 | 14.1 | 2.93 | 11.9 | 25.26 | 18.6 | 16.07 | 11.97 | 23.7 |
| 20535 | 'Slc4a2' | 3.16 | 1.76 | 0.83 | 0 | 1.37 | 1.22 | 2.8 | 0.42 | 3.64 | 3.77 |
| 20536 | 'Slc4a3' | 16.8 | 16.76 | 23.8 | 3.62 | 21.9 | 10.26 | 17.4 | 9.91 | 6.63 | 3.55 |
| 20538 | 'Slc6a2' | 0.01 | 0 | 0.01 | 0.01 | 0.01 | 0 | 0 | 0 | 0.01 | 0 |
| 20539 | 'Slc7a5' | 1.09 | 0.36 | 1.3 | 2.67 | 0.58 | 2.51 | 4.53 | 2.39 | 6.52 | 0.88 |
| 20540 | 'Slc7a7' | 0 | 3.37 | 0.24 | 0 | 0 | 5.68 | 0 | 2.26 | 0 | 0 |
| 20541 | 'Slc8a1' | 4.91 | 2.97 | 4.85 | 2.24 | 10.3 | 5.84 | 5.06 | 4.09 | 4.88 | 0.99 |
| 20544 | 'Slc9a1' | 1.97 | 3.46 | 8.02 | 5.48 | 1.86 | 3.93 | 3.38 | 4.38 | 0.56 | 2.89 |
| 20556 | 'Slnf2' | 1.07 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20562 | 'Slit1' | 15.94 | 29.39 | 9.46 | 0.04 | 12.3 | 13.03 | 15.1 | 18.42 | 30.16 | 28.84 |
| 20563 | 'Slit2' | 0.4 | 0.05 | 1.2 | 1.91 | 2.38 | 0.58 | 1.11 | 1.02 | 3.39 | 1.64 |
| 20564 | 'Slit3' | 1.24 | 1.07 | 0.22 | 0.35 | 1.93 | 0 | 0.37 | 2.08 | 0.02 | 0.3 |
| 20583 | 'Snai2' | 0.02 | 3.06 | 0.22 | 5.5 | 0 | 0.3 | 0 | 0 | 1.3 | 0 |
| 20585 | 'Hltf' | 4.08 | 2.1 | 2.47 | 1.35 | 1.62 | 2.07 | 5.02 | 6.26 | 7.3 | 6.9 |
| 20586 | 'Smarca4' | 13.82 | 23.41 | 19.8 | 11.6 | 34.2 | 22.55 | 30.1 | 24.38 | 24.07 | 26.68 |
| 20587 | 'Smarcb1' | 89.34 | 93.08 | 124 | 118 | 68.2 | 97.89 | 79.5 | 125.5 | 74.56 | 83.83 |
| 20588 | 'Smarcc1' | 1.07 | 3.25 | 2.6 | 5.53 | 1.79 | 3.28 | 1.96 | 3.89 | 6.2 | 2.18 |
| 20589 | 'Ighmbp2' | 4.68 | 2.19 | 6.09 | 0.23 | 0.02 | 9.12 | 9.13 | 6.64 | 0.04 | 1.54 |
| 20591 | 'Kdm5c' | 1.38 | 3.5 | 3.61 | 10.8 | 3.75 | 1.19 | 2.45 | 1.8 | 6.66 | 5.32 |
| 20592 | 'Kdm5d' | 2.34 | 1.55 | 0.02 | 0 | 2.04 | 0.42 | 9.69 | 1.85 | 0.9 | 2.76 |
| 20595 | 'Smn1' | 18.83 | 10.01 | 21.2 | 25.7 | 14.5 | 13.4 | 18.2 | 17.29 | 18.81 | 16.69 |
| 20597 | 'Smpd1' | 123.7 | 107.3 | 79.9 | 67.4 | 101 | 133 | 142 | 97.35 | 112.5 | 111.23 |
| 20598 | 'Smpd2' | 29.36 | 30.94 | 22.2 | 29.7 | 0.18 | 46.37 | 12.9 | 30.69 | 26.48 | 46.37 |
| 20602 | 'Ncor2' | 4.45 | 3.12 | 7.43 | 6.58 | 5.7 | 2.65 | 3.53 | 2.99 | 3.89 | 3.05 |
| 20603 | 'Sms' | 22.96 | 16.86 | 56.1 | 37.6 | 25.2 | 6.46 | 34.7 | 28.29 | 29.68 | 19.61 |
| 20604 | 'Sst' | 0.24 | 0 | 0.17 | 0.62 | 8.1 | 0.08 | 428 | 5.11 | 2.12 | 17.23 |
| 20605 | 'Sstr1' | 5.99 | 15.78 | 16.3 | 3.7 | 6.48 | 3.91 | 28.2 | 15.07 | 5.59 | 5.31 |
| 20606 | 'Sstr2' | 7.96 | 22.2 | 15 | 10.1 | 0.04 | 6.78 | 5.85 | 6.69 | 20.23 | 3.28 |
| 20607 | 'Sstr3' | 1.19 | 0 | 0 | 3.17 | 1 | 0.35 | 3.68 | 0 | 0 | 0 |
| 20608 | 'Sstr4' | 0 | 0 | 1.02 | 0 | 0 | 0.07 | 0 | 0 | 1.51 | 0 |
| 20609 | 'Sstr5' | 5.77 | 0 | 6.39 | 7.85 | 2.9 | 2.78 | 0.04 | 0 | 0 | 2.52 |
| 20610 | 'Sumo3' | 132.1 | 116.3 | 158 | 182 | 132 | 166.7 | 124 | 113.9 | 137.5 | 133.66 |
| 20611 | 'Ssty1' | 0 | 0 | 0.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20613 | 'Snai1' | 0 | 0 | 0 | 5.61 | 0 | 0 | 0 | 0 | 1.66 | 0.5 |
| 20614 | 'Snap25' | 802 | 656.4 | 810 | 563 | 1257 | 907.8 | 865 | 1180 | 877.3 | 861.84 |
| 20615 | 'Snapin' | 65.22 | 53.87 | 38.9 | 60.9 | 65.5 | 82.48 | 61.7 | 45.09 | 61.05 | 54.47 |
| 20616 | 'Snap91' | 50.52 | 39.68 | 34.2 | 25.8 | 40.3 | 24.3 | 52.1 | 44.96 | 38.05 | 23.33 |
| 20617 | 'Snca' | 88.22 | 194.6 | 120 | 45.4 | 285 | 151.1 | 219 | 276.5 | 92.42 | 55.63 |
| 20618 | 'SnCG' | 15.78 | 9.06 | 14.8 | 9.99 | 21.3 | 129.9 | 78.6 | 0 | 54.18 | 104.13 |
| 20619 | 'Snap23' | 4.89 | 6 | 9.8 | 0.06 | 1.65 | 6.8 | 4.72 | 1.88 | 0.84 | 0.75 |
| 20620 | 'Plk2' | 27.19 | 35.11 | 47.9 | 137 | 14.5 | 37.8 | 36.6 | 30.56 | 44.08 | 40.73 |
| 20621 | 'Snn' | 10.39 | 9.1 | 14.3 | 11.5 | 4.59 | 5.6 | 21.2 | 8.23 | 14.5 | 4.07 |
| 20623 | 'Snrk' | 31.36 | 42.08 | 48.9 | 21.3 | 21.8 | 18.74 | 55.8 | 26.16 | 44.66 | 14.08 |
| 20624 | 'Eftud2' | 34.95 | 32.21 | 29.9 | 24.5 | 26.8 | 14.97 | 33.9 | 30.06 | 26.72 | 40.28 |
| 20630 | 'Snrpc' | 99.07 | 63.38 | 98.1 | 132 | 93.1 | 83.19 | 94.7 | 53.75 | 76.68 | 95.87 |
| 20637 | 'Snrrp70' | 72.96 | 85.49 | 71.2 | 66 | 85.3 | 65.44 | 61.8 | 61.97 | 78.26 | 83.6 |
| 20638 | 'Snrpb' | 138.4 | 113.2 | 136 | 209 | 186 | 203.8 | 152 | 129.2 | 131.3 | 115.68 |
| 20639 | 'Snrpb2' | 18.95 | 18.45 | 24.7 | 30.3 | 31.1 | 17.41 | 27.1 | 32.58 | 37.66 | 26.36 |
| 20641 | 'Snrpd1' | 145.1 | 148.6 | 140 | 157 | 113 | 172.8 | 140 | 138 | 150 | 122.91 |
| 20643 | 'Snrpe' | 216 | 166.9 | 167 | 189 | 146 | 239.9 | 177 | 139.6 | 102.6 | 139.73 |
| 20646 | 'Snrpn' | 1409 | 1302 | 1144 | 1605 | 1764 | 1798 | 1351 | 1781 | 1407 | 1473.64 |
| 20648 | 'Snta1' | 3.16 | 3.75 | 3.93 | 7.19 | 7.75 | 7.44 | 5.61 | 2.63 | 0.79 | 0.14 |
| 20649 | 'Sntb1' | 0 | 0.56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20650 | 'Sntb2' | 0.01 | 0.31 | 1.63 | 0 | 0.08 | 0.01 | 2.64 | 0.12 | 0 | 0 |
| 20652 | 'Soat1' | 2.95 | 1.81 | 0.1 | 1.19 | 0.46 | 0.45 | 0.43 | 0.1 | 0.57 | 0.43 |

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|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 20655 | 'Sod1' | 1268 | 1150 | 1457 | 1762 | 1601 | 1054 | 1064 | 969.1 | 1196 | 1212.54 |
| 20656 | 'Sod2' | 61.16 | 62.17 | 62.7 | 69.9 | 68.8 | 73.76 | 55.4 | 53.96 | 47.54 | 45.62 |
| 20657 | 'Sod3' | 2.89 | 1.88 | 2.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20658 | 'Son' | 18.27 | 19.32 | 19 | 45.9 | 24.2 | 38.07 | 20.8 | 9.57 | 23.88 | 15.1 |
| 20660 | 'Sorl1' | 4 | 2.07 | 4.45 | 6.12 | 3.29 | 1.27 | 3.7 | 2.7 | 3.8 | 0.52 |
| 20661 | 'Sort1' | 4.69 | 0.61 | 2.41 | 2.48 | 8.56 | 2.53 | 7.28 | 2.46 | 1.25 | 2.34 |
| 20662 | 'Sos1' | 2.18 | 1.58 | 2.21 | 8.61 | 1.72 | 3.16 | 1.62 | 1.82 | 2.7 | 2.62 |
| 20663 | 'Sos2' | 1.49 | 1.73 | 2.01 | 7.93 | 0.56 | 1.97 | 1.05 | 3.46 | 0.48 | 2.68 |
| 20664 | 'Sox1' | 0.76 | 0 | 0.62 | 0.01 | 0.79 | 0.23 | 0.04 | 0 | 0 | 0 |
| 20665 | 'Sox10' | 0 | 4.66 | 1.62 | 0 | 0.34 | 0 | 7.57 | 3.09 | 0 | 0.08 |
| 20666 | 'Sox11' | 7.64 | 6.5 | 7.53 | 10.3 | 4.68 | 7.78 | 6.99 | 15.71 | 5.2 | 8.51 |
| 20667 | 'Sox12' | 1.28 | 0.04 | 0.03 | 1.4 | 0.03 | 0.02 | 1.15 | 0.71 | 0.29 | 1.43 |
| 20668 | 'Sox13' | 0 | 0.91 | 1.1 | 0.06 | 1 | 1.8 | 2.83 | 0.59 | 0.7 | 3.74 |
| 20669 | 'Sox14' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.09 | 0 | 0.02 |
| 20672 | 'Sox18' | 0.66 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 20674 | 'Sox2' | 2.06 | 5.56 | 1.79 | 7.56 | 1.67 | 1.18 | 2.24 | 7.73 | 0.43 | 3.13 |
| 20675 | 'Sox3' | 1.43 | 0.77 | 2.05 | 0 | 0.93 | 2.76 | 0 | 0.95 | 1.64 | 0.5 |
| 20677 | 'Sox4' | 1.87 | 1.28 | 0.45 | 7.47 | 0.94 | 0.59 | 2.76 | 1.6 | 0.46 | 0.81 |
| 20678 | 'Sox5' | 4.76 | 0.41 | 8.48 | 4.17 | 0.14 | 0.77 | 1.06 | 2.74 | 1.37 | 5.4 |
| 20679 | 'Sox6' | 1.11 | 2.46 | 2.7 | 0.58 | 0.96 | 0.98 | 5.65 | 1.45 | 0 | 0.07 |
| 20680 | 'Sox7' | 0 | 0.7 | 0 | 2.72 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20681 | 'Sox8' | 13.24 | 5.17 | 27.4 | 6.45 | 2.88 | 16.6 | 49.2 | 13.1 | 0 | 3.68 |
| 20682 | 'Sox9' | 15.61 | 12.59 | 1.72 | 20.7 | 3.17 | 14.48 | 4.9 | 3.53 | 2.15 | 5.73 |
| 20683 | 'Sp1' | 0.76 | 0.19 | 0.84 | 0.52 | 0.02 | 0.02 | 0.01 | 0.09 | 0.73 | 0.78 |
| 20684 | 'Sp100' | 0 | 0.63 | 0.02 | 0.03 | 0 | 0 | 0.07 | 0 | 0.04 | 0 |
| 20686 | 'Spa17' | 10.89 | 8.6 | 2.34 | 7.57 | 32.6 | 13.65 | 6.3 | 8.4 | 11.8 | 8.09 |
| 20687 | 'Sp3' | 5.53 | 7.27 | 3.18 | 0.87 | 3.21 | 0.27 | 5.69 | 1.18 | 4.37 | 1.93 |
| 20688 | 'Sp4' | 0.21 | 0.9 | 1.42 | 8.35 | 2.15 | 0.54 | 5.02 | 1.01 | 0.86 | 3.42 |
| 20689 | 'Sall3' | 0 | 0.12 | 2.09 | 0.29 | 0 | 0.42 | 0.04 | 0.13 | 0.01 | 0 |
| 20692 | 'Sparc' | 258.7 | 153.6 | 146 | 192 | 154 | 335.7 | 211 | 116 | 113 | 132.06 |
| 20698 | 'Sphk1' | 0 | 0.43 | 1.08 | 0 | 0 | 0 | 0 | 0 | 0 | 1.04 |
| 20700 | 'Serpina1a' | 2.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20703 | 'Serpina1d' | 4.49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20708 | 'Serpina6b' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0.06 | 0 | 0.02 | 2.49 |
| 20713 | 'Serpini1' | 136.4 | 91.6 | 39.6 | 46.5 | 69.8 | 33.14 | 113 | 58.3 | 53.27 | 81.25 |
| 20715 | 'Serpina3g' | 0 | 0 | 0.27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20716 | 'Serpina3n' | 26.03 | 5.45 | 11.7 | 0 | 22.3 | 3.14 | 4.23 | 44.3 | 19.73 | 4.58 |
| 207165 | 'Bptf' | 5.43 | 5.11 | 3.6 | 11 | 6.18 | 4.18 | 6.67 | 3.02 | 3.2 | 8.08 |
| 207175 | 'Cetn4' | 16.54 | 9.87 | 11.2 | 29 | 24.7 | 9.25 | 11.2 | 11.98 | 10.79 | 15.96 |
| 207181 | 'Rbms3' | 27.41 | 5.93 | 9.11 | 8.96 | 12.1 | 5.26 | 4.59 | 6.3 | 10.2 | 18.36 |
| 207182 | 'Ggt7' | 59.14 | 45.86 | 115 | 47.5 | 64.1 | 65.12 | 71.3 | 102.3 | 61.49 | 67.78 |
| 20719 | 'Serpina6a' | 34.13 | 28.14 | 33.2 | 53.5 | 46.7 | 44.24 | 20.7 | 30.99 | 42.79 | 25.96 |
| 20720 | 'Serpine2' | 113 | 141.6 | 241 | 139 | 28.9 | 139.1 | 197 | 204.7 | 113.1 | 46.24 |
| 207212 | 'Arhgef17' | 3.41 | 3.35 | 3.74 | 13.2 | 6.03 | 3.39 | 5.72 | 5.33 | 4.85 | 5.94 |
| 207214 | 'Larp4' | 3.56 | 3.9 | 6.78 | 3.61 | 3.74 | 0.79 | 3.77 | 2.99 | 3.84 | 4.62 |
| 207215 | 'Fbxo40' | 0.02 | 0 | 0.03 | 0 | 0 | 0.01 | 0 | 1.08 | 0 | 0.01 |
| 207227 | 'Stxbp5l' | 3.35 | 2.16 | 2.44 | 3.44 | 3.16 | 1.95 | 3.8 | 2.29 | 4.97 | 3.57 |
| 20723 | 'Serpina9' | 0 | 5.61 | 3.85 | 7.77 | 7.42 | 0 | 0.04 | 8.07 | 0 | 2.62 |
| 207259 | 'Zbtb7c' | 10.8 | 1.02 | 1.01 | 0.91 | 3.48 | 1.31 | 2.22 | 0.99 | 0.01 | 1.43 |
| 207278 | 'Fchs2' | 9.09 | 13.44 | 6.85 | 16.7 | 7.4 | 5.52 | 5.87 | 8.69 | 2.21 | 4.33 |
| 20729 | 'Spin1' | 42.12 | 26.97 | 36.9 | 51.1 | 23.6 | 17.81 | 21.5 | 25.74 | 35.95 | 18.65 |
| 207304 | 'Hectd1' | 4.25 | 5.89 | 4.31 | 8.24 | 5.43 | 3.53 | 4.3 | 4.98 | 4.86 | 3.45 |
| 20732 | 'Spint1' | 6.53 | 5.22 | 0.66 | 6.67 | 24.5 | 30.53 | 5.82 | 1.04 | 26.8 | 4.43 |
| 20733 | 'Spint2' | 280.4 | 443.6 | 230 | 680 | 262 | 314.2 | 144 | 227.1 | 466 | 365 |
| 207352 | 'Sec23ip' | 10.95 | 13.88 | 15.3 | 12.4 | 13 | 3.02 | 12.2 | 11.77 | 5.49 | 10.4 |
| 207375 | 'Fam120c' | 2.89 | 2.46 | 2.28 | 2.32 | 1.93 | 0.15 | 2.51 | 1.88 | 6.89 | 2.98 |
| 207393 | 'Elfn2' | 0.47 | 0.42 | 3.23 | 0.57 | 3.89 | 2.46 | 0.71 | 1.13 | 1.1 | 3.6 |
| 20740 | 'Sptan1' | 9.3 | 14.36 | 23.1 | 21.8 | 15.4 | 7.1 | 19.3 | 13.39 | 10.78 | 17.67 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 20741 | 'Sptb' | 1.67 | 1.3 | 2.76 | 0.56 | 0.08 | 1.05 | 2.96 | 1.51 | 1.94 | 0.83 |
| 20742 | 'Sptbn1' | 11.44 | 11.63 | 8.06 | 19 | 22.8 | 13.91 | 10.5 | 13.8 | 15.21 | 11.75 |
| 207425 | 'Wdr11' | 5.59 | 7.36 | 9.48 | 9.32 | 11.2 | 2.42 | 9.09 | 7.17 | 12.8 | 9.32 |
| 20743 | 'Sptbn2' | 3.17 | 4.76 | 3.71 | 3.2 | 4.18 | 3.73 | 5.17 | 1.49 | 0.98 | 7.85 |
| 20744 | 'Strbp' | 3.89 | 5.35 | 6.62 | 7.07 | 6.7 | 11.87 | 5.17 | 3.9 | 11.43 | 3.29 |
| 20745 | 'Spock1' | 40.72 | 36.73 | 63.7 | 42.7 | 68.2 | 32.1 | 102 | 110.5 | 97.73 | 25.09 |
| 20747 | 'Spop' | 61.67 | 81.83 | 55 | 96.3 | 98.3 | 55.36 | 67.2 | 104 | 56.79 | 73.61 |
| 207474 | 'Kctd12b' | 0 | 0 | 0 | 0 | 4.01 | 2.87 | 3.67 | 0.71 | 0 | 0 |
| 207495 | 'Baiap2l2' | 0 | 0 | 1.61 | 0 | 0 | 2.07 | 0 | 0 | 0.22 | 0.8 |
| 20750 | 'Spp1' | 0 | 0 | 13.2 | 0 | 0 | 0 | 0 | 0.57 | 5.78 | 0 |
| 20751 | 'Spr' | 59.66 | 62.16 | 108 | 110 | 100 | 135.9 | 141 | 103.5 | 98.24 | 145.85 |
| 207521 | 'Dtx4' | 1.67 | 1.64 | 1.23 | 0.02 | 4.17 | 3.7 | 5.08 | 1.71 | 1.45 | 1.01 |
| 20755 | 'Sprr2a1' | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 207565 | 'Camkk2' | 4.82 | 8.36 | 7.84 | 1.75 | 10.1 | 1.87 | 2.25 | 9.8 | 14.17 | 0.24 |
| 207592 | 'Tbc1d16' | 0.9 | 1.39 | 0.93 | 3.17 | 0.01 | 0 | 0.98 | 0.54 | 1 | 0 |
| 207596 | 'Thsd4' | 0 | 0 | 0.01 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0.23 |
| 207607 | 'Ccdc40' | 1.03 | 1.92 | 2.73 | 5.36 | 2.5 | 3.96 | 1 | 1.72 | 4.01 | 4.48 |
| 207615 | 'Wdr37' | 15.73 | 18.17 | 20.1 | 28.5 | 12 | 9.59 | 7.98 | 17.89 | 16.28 | 19.35 |
| 207618 | 'Zfp804b' | 0.86 | 2.21 | 2.28 | 3.03 | 0.61 | 0 | 0 | 1.17 | 0 | 1.06 |
| 20768 | 'Sephs2' | 23.94 | 58.63 | 53.4 | 21.3 | 28.2 | 78.41 | 62.5 | 72.69 | 55.52 | 32.93 |
| 207683 | 'Igsf11' | 0.46 | 0.06 | 0 | 0.59 | 1.31 | 0.22 | 0.09 | 0.21 | 0.67 | 0.46 |
| 207686 | 'Cfap69' | 4.44 | 5 | 4.79 | 3.76 | 2.49 | 5.83 | 6.4 | 5.47 | 3.35 | 3.76 |
| 207704 | 'Gtpbp10' | 1.77 | 1.19 | 1.35 | 1.04 | 5.92 | 2.75 | 0 | 1.58 | 1.68 | 4.11 |
| 207728 | 'Pde2a' | 47.45 | 36.75 | 17.4 | 24 | 38.4 | 7.18 | 33.2 | 34.59 | 42.5 | 32.96 |
| 20773 | 'Sptlc2' | 0.98 | 3.19 | 6.59 | 6.39 | 3.26 | 7.15 | 5.53 | 3.16 | 1.58 | 3.4 |
| 207740 | 'Ubald1' | 73.54 | 99.91 | 70.5 | 35.2 | 90 | 112.4 | 80 | 111 | 82.14 | 75.51 |
| 207742 | 'Rnf43' | 0 | 0 | 1.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20775 | 'Sqle' | 48.58 | 57.32 | 56.7 | 33.5 | 48.7 | 42.99 | 52.6 | 70.04 | 37.55 | 41.39 |
| 20776 | 'Tmie' | 39.24 | 35.03 | 30.7 | 14.3 | 10.7 | 25 | 16.5 | 27.12 | 36.28 | 19.63 |
| 207777 | 'Tspoap1' | 6.31 | 5.71 | 21.2 | 26 | 18.4 | 7.79 | 10.5 | 8.21 | 11.04 | 6.75 |
| 20778 | 'Scarb1' | 7.58 | 19.52 | 11.4 | 2.28 | 12.1 | 5.48 | 16.4 | 7.42 | 17.76 | 12.51 |
| 207781 | 'C2cd2' | 3.19 | 1.5 | 0.79 | 0 | 2.04 | 1.94 | 0.3 | 1.91 | 0.93 | 1.06 |
| 207785 | 'Csrnp2' | 1.39 | 1.66 | 1.15 | 1.43 | 7.43 | 1.23 | 6.54 | 4.14 | 2.22 | 1.1 |
| 20779 | 'Src' | 2.6 | 5.5 | 6.67 | 11.4 | 4.67 | 2.98 | 6.87 | 2.21 | 0.11 | 3.59 |
| 207792 | 'BC034090' | 0.01 | 0.67 | 0.01 | 0.03 | 0.81 | 2.35 | 2.34 | 0 | 0 | 0 |
| 207798 | 'Gramd1c' | 0.74 | 0.12 | 0.45 | 2.34 | 2.24 | 1.14 | 0.28 | 0.06 | 0.24 | 0.03 |
| 207806 | 'Usf3' | 0.58 | 0.06 | 0.01 | 1.94 | 0.22 | 0 | 0 | 0.04 | 0 | 0.02 |
| 207819 | '4930539E08Rik' | 1.89 | 1.71 | 1.34 | 0.04 | 0.07 | 2.17 | 0.06 | 0.03 | 0.03 | 1.81 |
| 207839 | 'Galnt6' | 0.11 | 1.37 | 0 | 0 | 0.02 | 2.04 | 0 | 0 | 0 | 0 |
| 207854 | 'Fmr1nb' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.36 | 0 | 0 |
| 20787 | 'Srebf1' | 9.19 | 13.9 | 6.97 | 3.42 | 4.45 | 9.86 | 7.22 | 2.63 | 8.87 | 7.78 |
| 20788 | 'Srebf2' | 40.34 | 26.84 | 53.8 | 21.7 | 21 | 12.29 | 43.7 | 34.56 | 40.21 | 48.5 |
| 207911 | 'Mchr1' | 26.7 | 8.64 | 5.16 | 20.2 | 19.7 | 19.36 | 5.62 | 1.96 | 4.83 | 10.88 |
| 207920 | 'Esp1' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 207921 | 'Fam228b' | 4.48 | 3.08 | 0.24 | 0.93 | 0.14 | 8.89 | 0.27 | 1.97 | 0.02 | 3.02 |
| 207932 | 'Urb1' | 1.18 | 2.92 | 0.99 | 0 | 0 | 0.88 | 0.37 | 1.56 | 1.04 | 0.78 |
| 207952 | 'Klhl25' | 0 | 2.94 | 4.06 | 0 | 3.97 | 0 | 0 | 0 | 2.28 | 0 |
| 207958 | 'Alg11' | 11.57 | 18.02 | 10.7 | 7.99 | 24 | 8.52 | 12.1 | 19.02 | 16.92 | 15.31 |
| 207965 | 'Vcpkmt' | 25.91 | 1.01 | 14.2 | 32.6 | 4.45 | 11.4 | 5.65 | 22.84 | 21.28 | 13.34 |
| 208043 | 'Setd1b' | 0.84 | 1.26 | 1.33 | 3.93 | 1.03 | 0.76 | 0.22 | 0.89 | 0.44 | 1.23 |
| 20807 | 'Srf' | 5.29 | 4.63 | 8.47 | 16.6 | 2.55 | 14.71 | 5.52 | 3.43 | 3.84 | 9.02 |
| 208076 | 'Pknox2' | 8.04 | 3.37 | 16.9 | 2.25 | 4.21 | 9.12 | 12.8 | 3.37 | 14.42 | 14.93 |
| 208080 | 'Ubap1l' | 5.01 | 5.86 | 7.2 | 3.58 | 6.43 | 7.42 | 6.16 | 2.18 | 6.72 | 2.46 |
| 208084 | 'Pif1' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 208092 | 'Chmp6' | 53.39 | 47.93 | 37.3 | 33.7 | 83.4 | 30.16 | 25.6 | 54.28 | 59.38 | 41.94 |
| 20810 | 'Srm' | 52.38 | 19.82 | 48.2 | 62.6 | 20.8 | 27.88 | 45.9 | 50.82 | 29.71 | 10.87 |
| 208104 | 'Mlxip' | 1.73 | 4.31 | 1.6 | 4.89 | 3.2 | 1.81 | 1.43 | 2.34 | 3.83 | 2.15 |
| 208111 | 'Zfp976' | 3.52 | 0.34 | 2.16 | 0.02 | 1.69 | 0.22 | 0.02 | 0.31 | 4.8 | 0.1 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 208117 | 'Aph1b' | 7.92 | 5.82 | 7.11 | 7.04 | 3.75 | 0.7 | 9.34 | 6.84 | 14.71 | 12.05 |
| 20813 | 'Srp14' | 422.7 | 410.5 | 368 | 489 | 368 | 463.2 | 386 | 395.7 | 369.2 | 482.2 |
| 208144 | 'Dhx37' | 1.56 | 2.71 | 2.01 | 5.92 | 3.81 | 0.89 | 0.91 | 5.34 | 1.54 | 5.16 |
| 208146 | 'Yeats2' | 11.21 | 6.19 | 10.2 | 4.27 | 3.04 | 7.95 | 10.6 | 7.95 | 10.78 | 9.83 |
| 20815 | 'Srpk1' | 19.51 | 25.74 | 15.9 | 8.69 | 16.8 | 35.48 | 41.5 | 18.53 | 30.21 | 36.28 |
| 208151 | 'Tmem132b' | 1.3 | 2.48 | 1.79 | 6.33 | 0.85 | 1.45 | 6.69 | 1.62 | 2.12 | 2.12 |
| 208154 | 'Btla' | 0 | 0 | 0 | 0 | 0.32 | 0 | 0 | 1.43 | 0 | 0 |
| 208158 | 'Map6d1' | 1.93 | 10.04 | 10.9 | 13.6 | 4.2 | 2.67 | 7.73 | 4.05 | 3.58 | 0 |
| 208169 | 'Slc9c1' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20817 | 'Srpk2' | 57.12 | 38.84 | 44 | 60.9 | 41.5 | 50.72 | 36.8 | 37.15 | 44.57 | 41.06 |
| 208171 | 'Tmprss7' | 0 | 0.11 | 0 | 0.12 | 0.04 | 0 | 0.6 | 0 | 0 | 0.03 |
| 208177 | 'Phldb2' | 0 | 0.23 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 20818 | 'Srpbr' | 51.81 | 41.93 | 25.8 | 34.6 | 31.2 | 34.14 | 36.8 | 32.21 | 45.96 | 60.36 |
| 208188 | 'Ghsr' | 4.8 | 4.6 | 5 | 0 | 0.2 | 0 | 14.6 | 16.7 | 0 | 0 |
| 208194 | 'Exog' | 18.83 | 11.67 | 10.5 | 0.03 | 10.1 | 12.45 | 10.5 | 17.54 | 16.39 | 9.46 |
| 208198 | 'Btbd2' | 10.65 | 4.58 | 1.72 | 10.4 | 23.4 | 10.19 | 1.33 | 8.46 | 5.75 | 7.11 |
| 208211 | 'Alg1' | 47.18 | 55.22 | 34.9 | 41.8 | 37.9 | 66.76 | 48.1 | 40.97 | 39.06 | 34.75 |
| 208213 | 'Tmem132c' | 0.02 | 0.99 | 0.78 | 1.86 | 0.02 | 1.73 | 1.99 | 1.83 | 0.01 | 0.24 |
| 20822 | 'Trove2' | 10.52 | 6 | 4.39 | 11.7 | 5.57 | 4.73 | 6.23 | 10.69 | 6.54 | 4.05 |
| 208228 | 'Mob3a' | 15.17 | 17.33 | 19.2 | 17.6 | 12.1 | 15.32 | 16.7 | 19.29 | 10.32 | 30.11 |
| 20823 | 'Ssb' | 107.8 | 86.57 | 84.3 | 120 | 81.2 | 103.4 | 108 | 84.67 | 85.52 | 70.19 |
| 208258 | 'Ankrd33' | 0 | 0 | 0 | 0 | 0 | 0.54 | 0 | 0.67 | 0 | 0 |
| 20826 | 'Snu13' | 342.8 | 334.4 | 286 | 248 | 262 | 287.1 | 268 | 284.1 | 290 | 327.05 |
| 208263 | 'Tor1aip1' | 2.91 | 7.55 | 4.03 | 4.61 | 6.96 | 0.97 | 5.63 | 5.7 | 0.85 | 2.83 |
| 208266 | 'Dot1l' | 2.7 | 1.03 | 2.29 | 6.72 | 1.65 | 3.15 | 1.25 | 0.37 | 2.46 | 1.56 |
| 208285 | 'Cyp4f17' | 7.52 | 0.84 | 5.58 | 2.74 | 3.92 | 4.11 | 6.14 | 8.52 | 5.12 | 8.01 |
| 208292 | 'Zfp871' | 6.24 | 4.06 | 5.83 | 1 | 5.8 | 3.46 | 6.82 | 2.45 | 6.71 | 5.26 |
| 20832 | 'Ssr4' | 193.3 | 318.7 | 184 | 281 | 130 | 428.8 | 161 | 191.7 | 241.7 | 429.06 |
| 20833 | 'Ssrp1' | 24.24 | 27.59 | 40 | 52.6 | 36 | 20.19 | 55.4 | 41.09 | 39.78 | 33.65 |
| 20834 | 'Znrf4' | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 |
| 208366 | 'Rpp40' | 0.05 | 8.52 | 3.78 | 3.68 | 8.24 | 0.23 | 0 | 9.02 | 1.8 | 3.71 |
| 208372 | 'Asb18' | 0.99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20840 | 'Stac' | 0.02 | 2.71 | 7.41 | 0 | 1.98 | 0 | 0 | 3.85 | 10.37 | 0 |
| 20841 | 'Zfp143' | 3.83 | 1.95 | 3.38 | 4.79 | 4.19 | 1.38 | 6.79 | 2.36 | 5.01 | 0.83 |
| 20842 | 'Stag1' | 1.4 | 2.17 | 3.53 | 1.8 | 0.99 | 0.72 | 2.3 | 3.6 | 3.91 | 4.43 |
| 208426 | 'lqcj' | 0 | 0 | 0 | 0 | 0.67 | 1 | 5.25 | 0 | 0 | 0 |
| 20843 | 'Stag2' | 1.33 | 1.01 | 1.6 | 4.32 | 0.46 | 2.37 | 3.57 | 1.58 | 1.33 | 9.94 |
| 208431 | 'Shroom4' | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 208439 | 'Klhl29' | 1.76 | 1.07 | 0.28 | 0.19 | 2.91 | 2.36 | 1.83 | 2.73 | 3.67 | 1.34 |
| 20844 | 'Stam' | 23.89 | 32.04 | 32.5 | 13.5 | 22 | 9.23 | 26.2 | 32.15 | 33.81 | 23.72 |
| 208440 | 'Dip2c' | 2.1 | 0.37 | 1.08 | 8.5 | 2.37 | 1.34 | 0.61 | 1.54 | 1.36 | 2.03 |
| 208449 | 'Sgms1' | 4.26 | 6.14 | 4.92 | 3.76 | 1.73 | 4.64 | 5.44 | 3.99 | 7.85 | 5.77 |
| 20845 | 'Star' | 1.55 | 2.09 | 0.44 | 1.04 | 1.42 | 0.09 | 2.39 | 0.5 | 0.36 | 0 |
| 20846 | 'Stat1' | 15.34 | 5.55 | 10.7 | 45.3 | 10.8 | 12 | 9.58 | 7.27 | 12.82 | 15.62 |
| 20847 | 'Stat2' | 4.92 | 1.21 | 3.98 | 11.7 | 1.59 | 4.33 | 2.68 | 2.11 | 8.5 | 2.47 |
| 20848 | 'Stat3' | 23.18 | 19.13 | 20.6 | 31.3 | 26.7 | 17.51 | 27.3 | 15.29 | 41 | 27.95 |
| 20849 | 'Stat4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0.02 | 0 |
| 20850 | 'Stat5a' | 2.2 | 4.78 | 0.69 | 6.28 | 0.03 | 1.09 | 0 | 0 | 6.13 | 1.51 |
| 208501 | 'Ndufaf8' | 76.83 | 30.6 | 29.4 | 62.1 | 87 | 138 | 70 | 47.63 | 71.78 | 50.86 |
| 20851 | 'Stat5b' | 6.29 | 7.11 | 9.64 | 1.85 | 13.7 | 9.25 | 18.2 | 11.17 | 9.25 | 8.13 |
| 208518 | 'Cep78' | 1.15 | 3.81 | 2.96 | 6.72 | 0.48 | 1.44 | 5.1 | 1.87 | 4.29 | 2.31 |
| 20852 | 'Stat6' | 0 | 0 | 0.83 | 0.01 | 5.3 | 4.41 | 0 | 0 | 15.98 | 4.56 |
| 20853 | 'Stau1' | 8.72 | 18.36 | 20 | 8.78 | 25.7 | 6.65 | 18 | 15.94 | 22.03 | 15.78 |
| 20855 | 'Stc1' | 4.96 | 12.48 | 14.2 | 10.4 | 5.74 | 4.68 | 5.32 | 13.17 | 1.66 | 5.73 |
| 20856 | 'Stc2' | 0 | 0 | 0.03 | 11.6 | 0 | 0 | 0 | 1.1 | 0 | 0 |
| 208583 | 'Nek11' | 0 | 1.45 | 3.36 | 0 | 5.28 | 0 | 0 | 0 | 0 | 0.37 |
| 208595 | 'Mterf1b' | 0 | 0 | 0 | 0 | 0 | 11.24 | 0 | 0 | 2.52 | 0 |
| 208606 | 'Rsrc2' | 50.47 | 48.25 | 40.2 | 61.8 | 50 | 42.71 | 45.1 | 42.59 | 53.79 | 40.47 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 20861 | 'Stfa1' | 0 | 0 | 0 | 7.58 | 0 | 0 | 0 | 2.88 | 0 | 0 |
| 208613 | 'Tmem212' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.64 | 3.63 |
| 208618 | 'Etl4' | 0.35 | 1.33 | 6.63 | 0.34 | 1.02 | 1.43 | 0.12 | 0.68 | 5.42 | 0.92 |
| 208624 | 'Alg3' | 17.97 | 17.89 | 5.78 | 8.62 | 31 | 57.93 | 11 | 14.64 | 3.83 | 10.01 |
| 208628 | 'Kntc1' | 1.56 | 0.02 | 0 | 0.76 | 0 | 0 | 0 | 0 | 0 | 0 |
| 208638 | 'Slc25a38' | 34.6 | 16.63 | 46.6 | 79.2 | 24.5 | 23.55 | 17 | 19.3 | 23.73 | 19.01 |
| 208643 | 'Eif4g1' | 11.72 | 11.54 | 16.6 | 35.3 | 10.9 | 16.37 | 15.2 | 10.62 | 17.38 | 14.14 |
| 208647 | 'Creb3l2' | 1.41 | 1.93 | 0.24 | 7.58 | 3.6 | 0.01 | 0.04 | 0.9 | 0.03 | 2.59 |
| 208650 | 'Cblb' | 0.95 | 1.07 | 2.47 | 1.29 | 2.29 | 0.22 | 2.63 | 2.32 | 1.42 | 1.16 |
| 208659 | 'Fam20a' | 5.75 | 2.98 | 16 | 0.8 | 4.27 | 11.3 | 5.3 | 7.31 | 8.79 | 0 |
| 20866 | 'Stim1' | 26.6 | 23.66 | 26.6 | 8.79 | 13.8 | 13.41 | 8.28 | 12.99 | 12.51 | 11.44 |
| 208665 | 'Akr1d1' | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0.02 |
| 208666 | 'Diras1' | 15.24 | 11.42 | 24.8 | 1.66 | 19.2 | 18.55 | 19 | 28.78 | 18 | 12.93 |
| 20867 | 'Stip1' | 279 | 238.9 | 180 | 149 | 160 | 237 | 294 | 215.3 | 270.6 | 331.96 |
| 208677 | 'Creb3l3' | 0 | 1.95 | 5.23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20868 | 'Stk10' | 0 | 0.44 | 0 | 2.36 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20869 | 'Stk11' | 9.17 | 9.7 | 5.01 | 6.74 | 11.4 | 0.4 | 3.07 | 1.94 | 12.72 | 4.89 |
| 208691 | 'Eif5a2' | 2.01 | 5.32 | 12.9 | 0 | 3.25 | 4.54 | 3.42 | 2.91 | 9.24 | 2.52 |
| 20871 | 'Aurkc' | 0 | 0 | 0 | 0 | 0 | 0 | 1.78 | 2.25 | 0 | 0 |
| 208715 | 'Hmgcs1' | 68.85 | 72.83 | 73.2 | 30.4 | 75.4 | 34.34 | 71 | 106.7 | 59 | 75.77 |
| 208718 | 'Dis3l2' | 3.1 | 17.51 | 15.1 | 12.7 | 0.97 | 8.07 | 0.47 | 13.45 | 9.36 | 13.8 |
| 20872 | 'Stk16' | 54.09 | 46.96 | 55.2 | 45.5 | 69.1 | 80.41 | 21.9 | 52.99 | 33.11 | 65.98 |
| 208727 | 'Hdac4' | 8.92 | 11.84 | 7.66 | 8.6 | 14.4 | 7.09 | 7.13 | 7.84 | 6.45 | 11.04 |
| 20873 | 'Plk4' | 0 | 0 | 0.19 | 0 | 0.25 | 0 | 0.7 | 2.64 | 4.01 | 0 |
| 20874 | 'Slk' | 1 | 1.97 | 0.03 | 1.02 | 1.2 | 1.14 | 0.02 | 1.02 | 0.5 | 0.36 |
| 208748 | 'Prrg3' | 2.45 | 2.54 | 1.75 | 2.01 | 3.69 | 3.27 | 4.11 | 2 | 1.62 | 1.13 |
| 208760 | 'Aqp12' | 0 | 0 | 3.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 208768 | 'Sde2' | 10.52 | 12.43 | 13.3 | 13.1 | 18.6 | 10.09 | 15 | 15.26 | 19.02 | 12.01 |
| 208777 | 'Sned1' | 1.64 | 0.76 | 1.88 | 0 | 1.01 | 3.05 | 0.56 | 0 | 0.24 | 1.12 |
| 20878 | 'Aurka' | 0 | 1.52 | 0 | 0 | 2.77 | 0 | 0.21 | 0 | 0 | 0 |
| 208795 | 'Tmem63a' | 2.3 | 6 | 0 | 0 | 2.66 | 6.93 | 0.03 | 2.36 | 0 | 0 |
| 208820 | 'Triqk' | 17.17 | 14.76 | 15.5 | 11.3 | 19.7 | 23.49 | 12.4 | 9.92 | 17.32 | 14.93 |
| 208836 | 'Fanci' | 0 | 0.07 | 0.44 | 0.11 | 0.02 | 0.43 | 0 | 0 | 0 | 0 |
| 208846 | 'Daam1' | 8.9 | 8.82 | 4.75 | 5.81 | 4.33 | 11.79 | 3.46 | 5.35 | 4.55 | 5.32 |
| 208869 | 'Dock3' | 1.55 | 2.94 | 2.17 | 5 | 6.15 | 4.13 | 2.76 | 3.04 | 3 | 1.8 |
| 20887 | 'Sult1a1' | 3.35 | 0.88 | 3.5 | 8.28 | 0 | 0 | 3.1 | 0 | 0 | 0 |
| 208884 | 'Zdhhc9' | 1.35 | 1.26 | 1.32 | 0.19 | 9.17 | 0.12 | 0.81 | 6.58 | 0.03 | 6.36 |
| 208898 | 'Unc13c' | 1.23 | 4.56 | 1.83 | 0.94 | 1.14 | 2.23 | 9.11 | 0.7 | 2.74 | 0.34 |
| 208908 | 'Ccdc62' | 0.49 | 1.38 | 0 | 1.74 | 2.16 | 8.12 | 6.73 | 0.77 | 2.59 | 2.38 |
| 20892 | 'Cenpx' | 70.71 | 24.22 | 63.4 | 47.2 | 22.3 | 52.55 | 98.3 | 40.01 | 51.66 | 61.5 |
| 208922 | 'Cpeb3' | 2.21 | 6.21 | 13.5 | 3.38 | 2.98 | 1.09 | 5.3 | 1.64 | 6.37 | 4.29 |
| 20893 | 'Bhlhe40' | 11.85 | 27.12 | 46.5 | 95.3 | 20.1 | 18.33 | 8.63 | 6.86 | 8.6 | 9.51 |
| 208936 | 'Adamts18' | 1.29 | 0.26 | 0.27 | 0 | 0.69 | 0 | 0.74 | 1.61 | 0 | 0 |
| 208943 | 'Myo5c' | 0 | 0 | 0.14 | 0.02 | 0 | 0.83 | 0 | 0.01 | 0.33 | 0.03 |
| 208967 | 'Thns11' | 15.26 | 15.33 | 2.94 | 22.6 | 15.3 | 8.18 | 6.06 | 17.95 | 13.83 | 17.17 |
| 208968 | 'Zfp280c' | 2.87 | 1.39 | 2.29 | 0 | 3.7 | 0.43 | 1.47 | 1.6 | 0.93 | 1.37 |
| 20897 | 'Stra6' | 0.05 | 0 | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 |
| 208982 | 'Hmgcll1' | 15.16 | 8.96 | 9.88 | 6.92 | 8.33 | 2.48 | 17.2 | 8.83 | 4.87 | 4.11 |
| 208990 | 'Npb' | 2.2 | 2.82 | 0 | 0 | 5.42 | 10.76 | 1.72 | 0.66 | 0 | 0 |
| 208994 | 'Fam83b' | 0.35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 209003 | 'Rbmx2' | 8.15 | 4.16 | 8.19 | 19.4 | 10.8 | 8.36 | 7.28 | 7.02 | 9.86 | 5 |
| 20901 | 'Strap' | 108.9 | 101.6 | 69.8 | 90.5 | 61.5 | 89.79 | 111 | 98.32 | 81.01 | 83.99 |
| 209011 | 'Sirt7' | 13.88 | 24.93 | 18.5 | 45.7 | 41.4 | 70.19 | 32.6 | 32.23 | 32.73 | 23.19 |
| 209012 | 'Ulk4' | 5.26 | 0.6 | 2.41 | 2.75 | 7.26 | 0.28 | 3 | 0.73 | 2.67 | 11.2 |
| 209018 | 'Vps8' | 3.05 | 2.21 | 13.6 | 0.91 | 4.98 | 3.83 | 6.16 | 8.39 | 9.59 | 20.15 |
| 209027 | 'Pycr1' | 0 | 3.37 | 6.04 | 0 | 7.53 | 0 | 0 | 2.36 | 1.17 | 0 |
| 209032 | 'Zc3hav11' | 1.09 | 0.6 | 0.05 | 0.03 | 0.02 | 0.27 | 0 | 0.04 | 1.09 | 0 |
| 209039 | 'Tns2' | 0 | 0.13 | 3.73 | 0 | 0 | 0 | 0.01 | 0.01 | 0.68 | 0 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 20907 | 'Stx1a' | 35.26 | 59.64 | 23.8 | 32.4 | 37.6 | 34.94 | 49.4 | 51.23 | 36.93 | 20.79 |
| 20908 | 'Stx3' | 13.51 | 16.86 | 17.8 | 8.87 | 16.6 | 3.64 | 9.54 | 4.38 | 11.01 | 12.74 |
| 209086 | 'Samd9l' | 0 | 0.19 | 1.34 | 0.03 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 20909 | 'Stx4a' | 11.25 | 14.78 | 23.1 | 22 | 19.3 | 29.24 | 30.9 | 21.46 | 39.93 | 26.92 |
| 20910 | 'Stxbp1' | 198.3 | 200.9 | 314 | 196 | 134 | 104 | 190 | 204 | 213.8 | 138.74 |
| 20911 | 'Stxbp2' | 14.28 | 43 | 26 | 47.6 | 38.7 | 75.39 | 6.12 | 21.99 | 77.9 | 77.68 |
| 20912 | 'Stxbp3' | 13.09 | 9.53 | 2.43 | 5.05 | 3.79 | 5.57 | 5.14 | 0.05 | 6.46 | 5.61 |
| 20913 | 'Stxbp4' | 12.95 | 4.79 | 3.53 | 0.82 | 1.12 | 14.01 | 4.45 | 10.15 | 7.52 | 18.21 |
| 209131 | 'Snx30' | 3.41 | 1.71 | 2.42 | 1.59 | 2.52 | 2.95 | 1.06 | 1.53 | 6.46 | 2.08 |
| 20916 | 'Sucla2' | 171.4 | 150.6 | 160 | 149 | 146 | 199.5 | 125 | 139.5 | 129 | 173.84 |
| 20917 | 'Suclg2' | 0.05 | 1.27 | 0.03 | 2.39 | 4.33 | 0.01 | 0 | 0 | 3.64 | 2.01 |
| 209176 | 'Ido2' | 0.05 | 0.64 | 0.65 | 3.84 | 0 | 0.56 | 1.63 | 0.6 | 0 | 1.16 |
| 20918 | 'Eif1' | 327.4 | 381.2 | 480 | 533 | 433 | 201.8 | 368 | 386.6 | 404.9 | 502.94 |
| 209186 | 'Acnat2' | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.28 | 0 |
| 209195 | 'Clic6' | 2.67 | 1.99 | 3.52 | 0 | 1.04 | 4.36 | 0 | 0.32 | 5.78 | 1.37 |
| 209200 | 'Dtx3l' | 0.99 | 1.34 | 1.37 | 0.92 | 0.38 | 0.17 | 0.17 | 0.03 | 0.42 | 3.78 |
| 209212 | 'Osgin2' | 5.28 | 0.17 | 4.56 | 16.5 | 2.34 | 4.12 | 2.88 | 3.42 | 0 | 0.49 |
| 20922 | 'Supt4a' | 142.6 | 124 | 143 | 104 | 176 | 233 | 123 | 173.6 | 148.3 | 121.13 |
| 209224 | 'Enox2' | 3.87 | 10.15 | 4.11 | 9.23 | 1.59 | 2.38 | 0 | 10.34 | 1.71 | 1.66 |
| 209225 | 'Zfp710' | 2.12 | 0.73 | 0.81 | 0.06 | 1.46 | 4.13 | 0.03 | 0.08 | 1.09 | 0.2 |
| 209239 | 'Gan' | 0 | 0.25 | 0 | 0 | 1.22 | 0 | 0 | 0.02 | 0 | 4.69 |
| 20924 | 'Supt5' | 33.77 | 58.29 | 35.7 | 42.6 | 63.9 | 13.07 | 49.7 | 36.17 | 49.33 | 44.69 |
| 20926 | 'Supt6' | 16.42 | 11 | 22.7 | 16.3 | 13.9 | 7.49 | 19.8 | 9.1 | 13.51 | 12.2 |
| 209268 | 'Igsf1' | 75.7 | 60.44 | 24.5 | 17.1 | 5.22 | 13.11 | 3.54 | 29.06 | 13.96 | 24.35 |
| 20927 | 'Abcc8' | 3.1 | 3.79 | 5.96 | 0.01 | 3.6 | 0.64 | 9.29 | 5.74 | 3.77 | 0.01 |
| 20928 | 'Abcc9' | 0.07 | 0.15 | 0.15 | 0.18 | 0.21 | 0.2 | 0.1 | 0.09 | 0.18 | 0.11 |
| 209294 | 'Csta1' | 0 | 0 | 0 | 1.78 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20930 | 'Surf1' | 94.52 | 77.36 | 117 | 122 | 70.8 | 146.4 | 102 | 92.18 | 107.6 | 165.95 |
| 20931 | 'Surf2' | 53.7 | 26.46 | 36.7 | 30.1 | 49.9 | 57.42 | 14.5 | 21.25 | 45.14 | 30.79 |
| 209318 | 'Gps1' | 177.2 | 118.4 | 178 | 44.7 | 137 | 151.3 | 153 | 176.3 | 128.1 | 164.12 |
| 20932 | 'Surf4' | 74.08 | 64.69 | 52.2 | 47.5 | 34.1 | 56.96 | 50.8 | 43.44 | 52.01 | 56.08 |
| 20933 | 'Med22' | 30.69 | 45.81 | 36.8 | 73.3 | 70.2 | 42.89 | 51.8 | 36.42 | 41.59 | 27.7 |
| 209334 | 'Gen1' | 0.6 | 0.02 | 0.07 | 0.04 | 1.72 | 0.05 | 2.29 | 0.85 | 0.04 | 0.07 |
| 20935 | 'Surf6' | 10.23 | 6.79 | 8.21 | 21 | 9.21 | 0.65 | 13.9 | 9.99 | 15.57 | 6.46 |
| 209354 | 'Eif2b1' | 35.65 | 46.09 | 21.7 | 58.4 | 20.2 | 42.58 | 30.4 | 50.28 | 37.43 | 27.66 |
| 209357 | 'Gtf2h3' | 7.5 | 7.95 | 8.27 | 0.02 | 13.7 | 6.15 | 8.34 | 8.2 | 2.94 | 3 |
| 209361 | 'Taf3' | 9.28 | 6.83 | 3.75 | 8.15 | 6.92 | 5.08 | 2.8 | 10.23 | 3.67 | 9.08 |
| 20937 | 'Suv39h1' | 21.76 | 41.95 | 25.5 | 7.03 | 21.7 | 13.12 | 34.7 | 26.99 | 11.43 | 24.63 |
| 209378 | 'Itih5' | 0.01 | 0.73 | 0.43 | 0.6 | 0.04 | 2.16 | 0 | 0.7 | 0 | 0 |
| 209387 | 'Trim30d' | 0 | 0 | 0.01 | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 |
| 209416 | 'Gpkow' | 15.87 | 10.87 | 30.1 | 9.21 | 20.2 | 7.52 | 24.1 | 20.99 | 24.17 | 16.26 |
| 209446 | 'Tfe3' | 18.16 | 11.77 | 13.2 | 10.7 | 29.1 | 9.9 | 16.7 | 20.26 | 3.32 | 11.84 |
| 209456 | 'Trp53bp2' | 5.6 | 2.3 | 4.41 | 3.45 | 1.54 | 1.65 | 0.12 | 1.18 | 4.27 | 1.64 |
| 209462 | 'Hace1' | 4.15 | 5.58 | 1.39 | 14 | 6.23 | 3.75 | 0.06 | 2.99 | 7.26 | 2.21 |
| 20947 | 'Swap70' | 0.9 | 0 | 0 | 0 | 0 | 0.38 | 3.92 | 0 | 3.45 | 0 |
| 209478 | 'Tbc1d12' | 0 | 2.12 | 0.96 | 1.06 | 0.77 | 2.59 | 0.55 | 1.08 | 7.01 | 0.83 |
| 209488 | 'Hsh2d' | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 209497 | 'Tmem164' | 1.4 | 0.03 | 0.36 | 0.45 | 4.68 | 5.42 | 0.01 | 0.03 | 6.82 | 6.18 |
| 209540 | 'Rtl9' | 0.66 | 0.06 | 1.05 | 5.56 | 0.32 | 0.92 | 0.01 | 0.03 | 4.3 | 0.06 |
| 20955 | 'Vamp7' | 17.65 | 32.26 | 24 | 21 | 19.9 | 10.86 | 28.2 | 20.42 | 30.55 | 33.56 |
| 209550 | 'Rad51ap2' | 0 | 0.67 | 0.03 | 0 | 0.87 | 1.05 | 0 | 0 | 0.99 | 1.14 |
| 209558 | 'Enpp3' | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0.42 | 0 | 0 |
| 209584 | 'Tyw3' | 4.02 | 1.91 | 3.03 | 2.68 | 1.84 | 4.76 | 3.22 | 3.57 | 2.04 | 3.54 |
| 209586 | 'Nudcd3' | 21.12 | 40.31 | 44.4 | 45 | 37.4 | 40.95 | 57.1 | 36.13 | 52.42 | 19.18 |
| 209601 | 'Erich3' | 3.36 | 4 | 3.09 | 5.82 | 3.44 | 1.09 | 2.67 | 0.92 | 2.67 | 0.19 |
| 20962 | 'Sycp3' | 11.95 | 0 | 0 | 0 | 0.09 | 5.92 | 0 | 0 | 0 | 3.21 |
| 20963 | 'Syk' | 0 | 0.2 | 0.01 | 0 | 0 | 1.92 | 0.02 | 0 | 0 | 0 |
| 209630 | 'Frm4a' | 4.89 | 2.96 | 4.23 | 7.71 | 5.47 | 6 | 4.93 | 4.25 | 8.52 | 5.88 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 20964 | 'Syn1' | 139.5 | 146.9 | 186 | 112 | 112 | 63.16 | 273 | 136.6 | 140.7 | 52.79 |
| 209645 | 'Bend7' | 4.82 | 0 | 0 | 1.35 | 0.01 | 0 | 0 | 0.77 | 1.87 | 0.47 |
| 20965 | 'Syn2' | 32.53 | 24.73 | 26.6 | 54.1 | 41.2 | 27.2 | 42.6 | 44.34 | 29.15 | 23.62 |
| 209683 | 'Ttc28' | 0 | 0.61 | 0.55 | 0.68 | 1.3 | 0.44 | 2.37 | 0.13 | 1.25 | 0.23 |
| 20969 | 'Sdc1' | 1.64 | 2.35 | 2.12 | 0 | 0 | 6.63 | 2 | 1.49 | 0 | 2.48 |
| 209692 | 'Dhtkd1' | 0.85 | 1.71 | 3.63 | 2.19 | 5.26 | 5.14 | 1.93 | 3.03 | 3.11 | 1.59 |
| 20970 | 'Sdc3' | 1.58 | 10.51 | 13.4 | 11.3 | 15.3 | 3.02 | 8.77 | 0.31 | 2.03 | 1.78 |
| 209707 | 'Lcorl' | 3.54 | 7.87 | 5.36 | 4.72 | 4.55 | 1.44 | 1.58 | 2 | 2.23 | 2.34 |
| 20971 | 'Sdc4' | 29.69 | 8.92 | 13.6 | 42 | 23.7 | 25.48 | 10.6 | 24.54 | 10.42 | 4.24 |
| 20972 | 'Syngr1' | 69.3 | 40.48 | 83.8 | 38.1 | 60.2 | 76.84 | 44.1 | 57.16 | 97.9 | 65.13 |
| 20973 | 'Syngr2' | 11.66 | 14.51 | 1.5 | 7.24 | 21 | 43.58 | 7.68 | 3.52 | 0.31 | 3.43 |
| 209737 | 'Kif15' | 0.26 | 0.04 | 0.03 | 0 | 0.01 | 0 | 0.23 | 0.09 | 1.87 | 0 |
| 20974 | 'Syngr3' | 471.4 | 387.5 | 387 | 342 | 381 | 613 | 591 | 517.1 | 455.1 | 555.9 |
| 209743 | 'AF529169' | 3.11 | 0 | 0.01 | 0 | 5.7 | 1.59 | 0 | 0 | 0.22 | 0 |
| 20975 | 'Synj2' | 1.89 | 1.71 | 0.93 | 0.79 | 3.58 | 2.88 | 5.71 | 2.25 | 15.83 | 4.72 |
| 209760 | 'Tmc7' | 0 | 1.64 | 3.02 | 4.86 | 0.16 | 0.07 | 0.13 | 1.4 | 5.52 | 0 |
| 20977 | 'Syp' | 393.8 | 330 | 467 | 289 | 353 | 202.1 | 375 | 365.2 | 388.7 | 381.41 |
| 209773 | 'Dennd2a' | 1.79 | 0.39 | 0.05 | 1.42 | 0.12 | 0.01 | 1.76 | 0.35 | 0.08 | 0.47 |
| 209776 | 'Gpr139' | 3.39 | 0 | 1.25 | 0 | 0 | 0 | 0 | 4.12 | 0 | 0 |
| 20979 | 'Syt1' | 56.26 | 81.22 | 167 | 78.3 | 160 | 53.4 | 199 | 104.8 | 103.9 | 82.8 |
| 20980 | 'Syt2' | 0 | 4.65 | 5.1 | 0 | 0.84 | 0.01 | 0 | 0.12 | 5.59 | 2.46 |
| 20981 | 'Syt3' | 38.62 | 37.59 | 56.1 | 19.8 | 26.4 | 26.33 | 39.6 | 66.99 | 36.79 | 14.28 |
| 209815 | 'Tbc1d25' | 5.73 | 11.6 | 15.3 | 9.08 | 15.6 | 1.76 | 1.55 | 6.86 | 4.55 | 8.5 |
| 20983 | 'Syt4' | 173 | 114.1 | 100 | 106 | 91.3 | 87.6 | 92.8 | 96.63 | 119.8 | 116.63 |
| 209966 | 'Pgbd5' | 3.9 | 9.27 | 1.88 | 9.16 | 3.06 | 0.42 | 8.76 | 1.91 | 0.02 | 4.25 |
| 210004 | 'B3gnt11' | 7.73 | 1.86 | 2.37 | 0 | 5.22 | 0 | 0 | 4.9 | 7.79 | 11.01 |
| 210009 | 'Mtrr' | 4.48 | 5.33 | 6.54 | 6.29 | 5.41 | 1.94 | 2.26 | 5.94 | 0 | 13.07 |
| 210027 | 'Slc35f3' | 3.12 | 1.89 | 2.79 | 14 | 4.91 | 5.25 | 2.54 | 5.52 | 3.66 | 2.5 |
| 210029 | 'Metrl1' | 0.02 | 3.49 | 1.55 | 4.27 | 1.51 | 5.13 | 0.02 | 0.97 | 2.23 | 0 |
| 210035 | 'Nemp1' | 0 | 0 | 3.17 | 0 | 1.11 | 0 | 0.1 | 0 | 0 | 0 |
| 210044 | 'Adcy2' | 10.98 | 3.75 | 0.02 | 1.81 | 11.3 | 13.04 | 0.23 | 9.29 | 17.77 | 2.84 |
| 210094 | 'Iglon5' | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0.86 | 1.6 | 0.18 |
| 210104 | 'Zfp658' | 5.65 | 0 | 0.08 | 6.6 | 3.1 | 0 | 1.08 | 5.67 | 1.21 | 2.33 |
| 210105 | 'Zfp719' | 1.39 | 8.58 | 6.6 | 2.52 | 6.88 | 0.13 | 0 | 3.42 | 0.6 | 2.86 |
| 210106 | 'Tent4a' | 2.6 | 3.6 | 1.24 | 1.82 | 0.55 | 0 | 2.01 | 2.69 | 0.01 | 0.22 |
| 210108 | 'D130043K22Rik' | 15.11 | 14.07 | 22.4 | 4.42 | 17.1 | 7.19 | 11.4 | 9.38 | 12.97 | 13.95 |
| 210126 | 'Lpp' | 2.02 | 1.62 | 0.24 | 1.86 | 0.03 | 0.62 | 3.77 | 0.88 | 7.33 | 3.06 |
| 210135 | 'Zfp180' | 11.51 | 16.88 | 6.67 | 9.97 | 3.4 | 1.65 | 4.22 | 16.3 | 6.14 | 10.11 |
| 210146 | 'Irgq' | 5.38 | 2.8 | 3.7 | 19.3 | 2.47 | 0.79 | 5.75 | 3.23 | 4.64 | 2.85 |
| 210148 | 'Slc30a6' | 24.46 | 13.29 | 10.3 | 21.6 | 12.8 | 7.4 | 13.1 | 10.16 | 5.47 | 9.38 |
| 210162 | 'Zkscan2' | 1.54 | 0.13 | 3.39 | 0 | 0.65 | 0.32 | 0.91 | 0.95 | 4.59 | 1.56 |
| 210172 | 'Zfp526' | 0.03 | 0 | 1.51 | 0 | 0.04 | 0.29 | 2.16 | 0.38 | 0 | 0.35 |
| 210274 | 'Shank2' | 3.55 | 4.11 | 2.73 | 3.85 | 0.74 | 3.78 | 1.54 | 1.74 | 1.18 | 1.58 |
| 210293 | 'Dock10' | 1.05 | 1.18 | 0.64 | 0.01 | 1.26 | 1.82 | 0.37 | 0 | 1.21 | 1.1 |
| 210297 | 'Lrch2' | 2.15 | 2.32 | 0.18 | 1.42 | 1.32 | 1.59 | 1.64 | 0.78 | 2.25 | 1.95 |
| 210356 | 'Nckap5' | 1.57 | 1.75 | 3.59 | 3.12 | 0.03 | 0.25 | 3.16 | 1.2 | 1.46 | 0.52 |
| 210376 | 'Mtmr9' | 6.06 | 3.44 | 10 | 0.02 | 4.54 | 6.23 | 15.2 | 3.4 | 0.62 | 14.53 |
| 210417 | 'Thsd7b' | 1.1 | 0.76 | 0.06 | 3.07 | 5.7 | 0.13 | 4.96 | 1.62 | 1.86 | 7.89 |
| 210503 | 'Zfp677' | 0.39 | 1.44 | 0.03 | 0 | 0.74 | 3.06 | 9.97 | 1.5 | 0 | 5.29 |
| 210510 | 'Tdrd6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 |
| 210529 | 'Mettl14' | 13.06 | 8.44 | 9.72 | 10.8 | 13.1 | 4.31 | 13.6 | 7.2 | 12.99 | 8.4 |
| 210530 | 'P3h2' | 0.02 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 210544 | 'Tbc1d31' | 1.3 | 3.21 | 4.72 | 1.41 | 1.01 | 1.49 | 0.43 | 1.85 | 5.27 | 0.91 |
| 210573 | 'Tmem151b' | 13.39 | 15.16 | 19.2 | 8.1 | 15.6 | 19.07 | 14.1 | 12.52 | 4.47 | 9.14 |
| 210582 | 'Coq10a' | 5.52 | 21.97 | 8.83 | 16.1 | 23.8 | 21.4 | 9.27 | 21.44 | 8.28 | 18.37 |
| 210583 | 'Gm4767' | 0 | 2.19 | 2.17 | 0 | 4.73 | 13.37 | 0 | 4.02 | 0.02 | 8.47 |
| 210622 | 'Pamr1' | 0.46 | 0 | 9.19 | 0 | 4.02 | 0 | 0 | 0.63 | 0.21 | 0 |
| 210673 | 'Prnt3' | 9.17 | 3.58 | 20.3 | 2.65 | 9.15 | 5.67 | 26.5 | 7.62 | 16.11 | 3.59 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 210710 | 'Gab3' | 3.6 | 1.74 | 7.43 | 0 | 2.38 | 3.79 | 3.9 | 0.81 | 1.63 | 0.38 |
| 210711 | 'Mcmbp' | 11.07 | 11.39 | 9.35 | 13 | 18.2 | 17.71 | 9.94 | 8.27 | 14.35 | 11.33 |
| 210719 | 'Mkx' | 3.1 | 2.84 | 1.43 | 0 | 0.29 | 0.49 | 0 | 1.72 | 0 | 0 |
| 210741 | 'Kcnk12' | 0.14 | 0.89 | 0.47 | 0 | 0.63 | 0 | 2.26 | 0 | 0 | 0 |
| 210762 | 'Ppp1r36' | 3.36 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 0 | 0 |
| 210766 | 'Brcc3' | 84.41 | 77.07 | 59.1 | 72.8 | 51.3 | 101 | 43.3 | 87.8 | 67.11 | 102.87 |
| 210789 | 'Tbc1d4' | 0.02 | 7.76 | 4.68 | 5.59 | 3.14 | 2.41 | 6.58 | 0.98 | 0.04 | 0.5 |
| 210801 | 'Unc5d' | 7.29 | 3.46 | 3.6 | 3.58 | 2.69 | 1.77 | 5.62 | 2.91 | 1.15 | 3.22 |
| 210808 | 'Lacc1' | 0 | 0 | 0 | 2.32 | 0 | 0.08 | 0 | 0 | 0 | 0 |
| 210853 | 'Zfp947' | 3.47 | 1.22 | 2.15 | 2.87 | 1.32 | 2.63 | 2.08 | 5.47 | 1.16 | 1.54 |
| 210925 | 'Ints9' | 7.77 | 7.58 | 6.53 | 8.58 | 4.59 | 2.66 | 12.8 | 5.41 | 13.22 | 23.88 |
| 210933 | 'Adgrb3' | 26.38 | 16.33 | 14.4 | 10.4 | 12.3 | 7.04 | 20.7 | 13.11 | 11.17 | 13.04 |
| 210973 | 'Kbtbd2' | 22.28 | 10.06 | 13.9 | 17 | 18.6 | 4.35 | 20.9 | 12.56 | 12.15 | 15.42 |
| 210982 | 'Bicral' | 1.5 | 2.6 | 2.94 | 0.82 | 1.4 | 0.46 | 6.63 | 4.77 | 7.56 | 3.67 |
| 210992 | 'Lpcat1' | 15.97 | 7.35 | 13.7 | 16.1 | 9.75 | 13.58 | 12.6 | 17.12 | 25.47 | 6.27 |
| 210998 | 'Fam91a1' | 2.54 | 1.3 | 3.74 | 3.55 | 3.61 | 3.55 | 2.72 | 3.67 | 5.22 | 4.7 |
| 211006 | 'Sepsecs' | 4.38 | 4.79 | 1.98 | 0.43 | 2.65 | 8.46 | 3.79 | 1.86 | 2.78 | 1.87 |
| 211007 | 'Trim41' | 0.33 | 3.26 | 1.47 | 1.63 | 9.04 | 0.29 | 2.91 | 0.77 | 8.66 | 5.32 |
| 211064 | 'Alkbh1' | 8.77 | 13.17 | 24.7 | 15.6 | 6.7 | 5.19 | 17.9 | 7.71 | 8.56 | 19.86 |
| 211134 | 'Lzts1' | 18.86 | 15.08 | 4.23 | 7.63 | 27.9 | 9.32 | 5.12 | 30.91 | 10.6 | 10.12 |
| 211135 | 'D130040H23Rik' | 2.96 | 1.75 | 2.01 | 0.1 | 0.59 | 4.03 | 5.1 | 1.46 | 0.45 | 1.85 |
| 211147 | 'March11' | 2.31 | 2.17 | 0 | 6.11 | 0 | 0 | 0 | 1.38 | 0 | 0.9 |
| 211151 | 'Churc1' | 340.2 | 161.6 | 306 | 297 | 206 | 291 | 298 | 231.5 | 230.2 | 228.89 |
| 211187 | 'Lrtm2' | 14.21 | 11.04 | 20.3 | 0 | 15.6 | 6.02 | 17.3 | 14.96 | 8.35 | 14.56 |
| 211223 | 'Vmn2r15' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 |
| 211228 | 'Lrrc25' | 0 | 0 | 0 | 0 | 0 | 0.55 | 0 | 3.61 | 0 | 0 |
| 211232 | 'Cpne9' | 17.15 | 0.91 | 14.2 | 6.05 | 0.02 | 7.78 | 0 | 1.77 | 1.91 | 0.05 |
| 211253 | 'Mtrf1' | 5.57 | 9.53 | 13.7 | 6.28 | 5.32 | 17.84 | 4.47 | 17.97 | 13.57 | 5.31 |
| 211255 | 'Kbtbd7' | 7.83 | 3.34 | 1.09 | 14.2 | 2.72 | 1.8 | 6.56 | 6.07 | 5.39 | 1.78 |
| 211286 | 'Cln5' | 7.95 | 4.65 | 5.09 | 22.8 | 8.96 | 0.63 | 1.12 | 3.08 | 10.01 | 0.81 |
| 211323 | 'Nrg1' | 0.86 | 4.35 | 1.45 | 5.71 | 4.76 | 0 | 4.12 | 2.88 | 3.59 | 8.5 |
| 211329 | 'Ncoa7' | 5.78 | 10.01 | 10.1 | 5.36 | 11.4 | 6.79 | 9.21 | 8.93 | 12.33 | 21.61 |
| 211347 | 'Pank3' | 1.17 | 0.21 | 3 | 0.33 | 2.33 | 0.91 | 0.28 | 1.1 | 1.58 | 0.16 |
| 211378 | '6720489N17Rik' | 1.75 | 1.18 | 3.06 | 0.65 | 1.96 | 0.97 | 0.02 | 0.16 | 0.35 | 1.31 |
| 211383 | 'Amer3' | 6.62 | 3.19 | 4.18 | 0 | 3.49 | 6.51 | 2.25 | 7.36 | 14.1 | 3.59 |
| 211389 | 'Suox' | 13.64 | 4 | 3.96 | 0 | 7.21 | 4.05 | 0.02 | 7.33 | 7.6 | 3.16 |
| 211401 | 'Mtss1' | 9.36 | 11.77 | 8.72 | 18.9 | 3.76 | 8.51 | 4.28 | 8.37 | 7.19 | 8.27 |
| 211429 | 'Pla2g4b' | 0.05 | 1.85 | 1.66 | 0.47 | 2.46 | 1.88 | 0.1 | 0.35 | 0.4 | 2.29 |
| 211446 | 'Exoc3' | 33.34 | 22.8 | 36.6 | 36.8 | 24.7 | 23.95 | 28.5 | 19.97 | 43.37 | 31.98 |
| 211468 | 'Kcnh8' | 3.25 | 0.78 | 0.59 | 0.01 | 0.66 | 1.69 | 0 | 1.96 | 1.44 | 1.6 |
| 211480 | 'Kcnj14' | 5.44 | 7.31 | 3.95 | 1.54 | 3.88 | 0 | 5.81 | 4.87 | 1.4 | 15.45 |
| 211482 | 'Efhb' | 3.91 | 2.24 | 0 | 4.55 | 4.06 | 0 | 3.78 | 0 | 2.53 | 2.46 |
| 211484 | 'Tsga10' | 0.59 | 2.3 | 3.05 | 0.92 | 2.64 | 1.2 | 4.34 | 0.51 | 3.09 | 5.2 |
| 211488 | 'Ado' | 14.57 | 11.43 | 9 | 8.59 | 11.9 | 4.31 | 4.67 | 4.3 | 4.1 | 1.74 |
| 211499 | 'Tmem87a' | 6.29 | 1.88 | 2.34 | 5.86 | 7.13 | 9.59 | 4.51 | 4.96 | 12.56 | 2.17 |
| 211535 | 'Ccdc114' | 0 | 0.17 | 0 | 0 | 0.02 | 0 | 2.03 | 0 | 0 | 0.29 |
| 211548 | 'Nomo1' | 15.84 | 17.02 | 19 | 5.56 | 5.99 | 6.93 | 23.7 | 13.76 | 14.43 | 21.25 |
| 211550 | 'Tifa' | 0 | 0 | 0.02 | 4.1 | 2.81 | 0.06 | 0 | 0.11 | 0 | 0 |
| 211556 | 'Ap1ar' | 1.77 | 4.1 | 5.79 | 12.4 | 8.6 | 0.77 | 4.41 | 2.05 | 2.82 | 2.55 |
| 211577 | 'Mrgprf' | 0 | 0 | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0 |
| 211586 | 'Tfdp2' | 4.42 | 0.99 | 2.69 | 2.58 | 2.63 | 2.17 | 3.97 | 0.42 | 0.7 | 2.86 |
| 211612 | 'Ptchd1' | 10.25 | 3.68 | 11.6 | 7.31 | 17.2 | 18.03 | 5.05 | 14.23 | 3.82 | 10.43 |
| 211623 | 'Plac9a' | 5.03 | 0 | 19.8 | 0 | 0 | 0 | 0 | 8.1 | 0 | 0 |
| 211651 | 'Fancd2' | 0 | 0.26 | 4.73 | 0 | 0.01 | 0.51 | 0 | 0.86 | 0 | 0 |
| 211652 | 'Wwc1' | 1.94 | 1.66 | 0.36 | 4.55 | 2.03 | 0 | 0.01 | 1.12 | 0.14 | 1.1 |
| 211660 | 'Cspp1' | 11.22 | 6.63 | 5.54 | 5.02 | 6.09 | 18 | 9.22 | 3.5 | 6.22 | 11.04 |
| 211666 | 'Mgst2' | 0 | 0.85 | 2.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 211673 | 'Arfgef1' | 3.96 | 1.83 | 1.8 | 2.58 | 5.63 | 0.73 | 4.78 | 1.35 | 0.06 | 3.76 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 211712 | 'Pcdh9' | 96.97 | 87.64 | 50.2 | 16.6 | 42.1 | 68.53 | 88.4 | 48.15 | 90 | 84.87 |
| 211739 | 'Vstm2a' | 100.3 | 67.71 | 32.1 | 18.3 | 53.7 | 33.8 | 101 | 68.1 | 70.53 | 65.01 |
| 211770 | 'Trib1' | 0 | 0.49 | 4.64 | 14.1 | 0.02 | 4.57 | 10.8 | 0.45 | 0.1 | 0.59 |
| 211798 | 'Mfsd9' | 0 | 1.76 | 5.03 | 0 | 0.91 | 2.22 | 1.74 | 1.71 | 1.73 | 0 |
| 211896 | 'Depdc7' | 0 | 2.72 | 0.48 | 0 | 0.03 | 0 | 0 | 0 | 4.61 | 0 |
| 211914 | 'Asap2' | 1.42 | 0.76 | 1.51 | 1.68 | 1.49 | 1.86 | 0.5 | 0.27 | 2.86 | 2.84 |
| 211922 | 'Dennd6a' | 2.05 | 5.93 | 1.4 | 4.3 | 2.33 | 1.24 | 1.14 | 1.57 | 12.49 | 3.31 |
| 211936 | 'Ccdc73' | 0.27 | 1.58 | 1.27 | 0 | 1.7 | 0.51 | 1.53 | 0.32 | 1.18 | 2.43 |
| 211945 | 'Plekhh1' | 0.49 | 0.02 | 1.04 | 0.68 | 0.52 | 1.48 | 1.01 | 0 | 0.1 | 0 |
| 211948 | 'Pde12' | 16.3 | 15.18 | 11.9 | 27.3 | 5.97 | 8.72 | 9.3 | 4.2 | 13.72 | 3.83 |
| 211949 | 'Spsb4' | 2.91 | 4.3 | 5.14 | 0 | 0.26 | 4.65 | 1.99 | 3.87 | 2.42 | 2.27 |
| 211961 | 'Asxl3' | 1.2 | 0.15 | 0.47 | 0.02 | 0.19 | 0.02 | 0 | 0.56 | 0 | 0 |
| 211978 | 'Zfyve26' | 1.8 | 0 | 0.9 | 1.64 | 0 | 1.12 | 1.03 | 0.85 | 3.04 | 1.97 |
| 211986 | 'Tmem18' | 18.59 | 11.15 | 13.9 | 5.8 | 3.1 | 14.41 | 18.7 | 16.02 | 37.17 | 7.77 |
| 212032 | 'Hk3' | 1.21 | 0.26 | 0.05 | 0.02 | 2.48 | 0.06 | 0 | 1.31 | 0 | 3.26 |
| 212090 | 'Tmem60' | 81.52 | 57.73 | 65.1 | 43.5 | 92.4 | 136.6 | 65.3 | 60.93 | 113 | 112.38 |
| 212111 | 'Inpp5a' | 4.84 | 0.11 | 3.1 | 11.3 | 2.89 | 4.64 | 4.86 | 2.07 | 2.68 | 0.41 |
| 212114 | 'Nhlrc3' | 0.09 | 0.47 | 0 | 0 | 0.89 | 0 | 0 | 0 | 2.67 | 2.29 |
| 212123 | 'Dcaf15' | 8.4 | 4.59 | 2.57 | 12.7 | 4.74 | 10.12 | 6.46 | 0.41 | 3.61 | 2.68 |
| 212124 | 'Cfap46' | 1.04 | 3.52 | 4.43 | 1.95 | 2.68 | 6.06 | 4.57 | 2.86 | 1.18 | 4.39 |
| 212127 | 'Proser1' | 0.99 | 0.37 | 2.41 | 1.97 | 3.48 | 0.01 | 2.61 | 0.5 | 0.64 | 1.02 |
| 212139 | 'Cc2d1a' | 18.83 | 14.98 | 23.4 | 1.51 | 10.4 | 14.06 | 11.9 | 15.84 | 23.99 | 19.26 |
| 212153 | 'Ccdc191' | 1.76 | 2.06 | 1.25 | 4.66 | 2.18 | 0 | 3.03 | 0.28 | 3.79 | 2.57 |
| 212163 | '8030462N17Rik' | 10.68 | 7.46 | 11.7 | 8.15 | 9.44 | 6.07 | 8.37 | 6.37 | 13.06 | 9.6 |
| 212167 | 'Gsap' | 2.95 | 0.07 | 8.01 | 12 | 3.72 | 0.95 | 2.86 | 1.7 | 3.77 | 2.65 |
| 212168 | 'Zswim4' | 3.12 | 1.7 | 2.61 | 2.64 | 0.33 | 0.72 | 0 | 1.41 | 0 | 2.68 |
| 212190 | 'Ubxn10' | 3.9 | 3.1 | 2.89 | 0 | 8.67 | 0 | 0 | 3.32 | 3.08 | 4.94 |
| 212198 | 'Wdr25' | 2.52 | 2.78 | 5.03 | 0 | 0.01 | 3.99 | 0.25 | 12.46 | 3.78 | 0.08 |
| 212276 | 'Zfp748' | 2.49 | 1.95 | 1.2 | 0.36 | 1.95 | 0.02 | 2.68 | 3.82 | 6.05 | 2.73 |
| 212281 | 'Zfp729a' | 0.06 | 0.14 | 0.06 | 3.64 | 0.12 | 2.14 | 0.01 | 0 | 1.1 | 0.04 |
| 212285 | 'Arap2' | 1.07 | 0.77 | 0.03 | 0 | 1.6 | 2.78 | 1.83 | 0 | 0.92 | 0.01 |
| 212307 | 'Mapre2' | 81.51 | 91.45 | 79.7 | 74.3 | 67.3 | 47.3 | 67.6 | 77.86 | 92.1 | 105.38 |
| 212326 | 'Fam149a' | 9.75 | 6.54 | 6.1 | 21.7 | 6.83 | 6.44 | 4.44 | 9.53 | 3.94 | 7.06 |
| 212377 | 'Mms22l' | 0 | 0 | 0 | 0.25 | 1.09 | 0 | 0.98 | 0.03 | 0 | 0 |
| 212390 | 'Klhl32' | 9.85 | 11.57 | 22.3 | 0.12 | 24.1 | 17.16 | 1.76 | 25.01 | 13.67 | 17.57 |
| 212391 | 'Lcor' | 1.85 | 2.07 | 5.59 | 7.2 | 2.81 | 3.85 | 1.89 | 1.62 | 0.34 | 2.54 |
| 212392 | 'Ccdc110' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.43 |
| 212398 | 'Frat2' | 0.02 | 0 | 1.13 | 1.76 | 0 | 0 | 1.78 | 3.56 | 3.59 | 0 |
| 212439 | 'AA986860' | 1.16 | 0 | 0.07 | 1.22 | 0.12 | 0.79 | 0 | 0 | 0.02 | 0 |
| 212442 | 'Lactb2' | 0.02 | 0.87 | 3.22 | 3.61 | 8.05 | 2.53 | 4.16 | 5.42 | 4.24 | 6.53 |
| 212448 | '9330159F19Rik' | 13.2 | 14.53 | 10.9 | 14.2 | 7.2 | 10.3 | 14.9 | 9.69 | 6.87 | 10.85 |
| 212483 | 'Fam193b' | 1.14 | 3.65 | 4.64 | 19.1 | 14.5 | 13.04 | 8.56 | 7.31 | 4.67 | 2.99 |
| 212503 | 'Paox' | 1.79 | 4.85 | 2.52 | 12.7 | 6.72 | 0.04 | 11.4 | 0 | 0.02 | 0 |
| 212508 | 'Mtg1' | 18.35 | 47.99 | 45.8 | 9.3 | 49 | 44.67 | 52.9 | 31.33 | 29.49 | 45.31 |
| 212514 | 'Spice1' | 7.25 | 6.88 | 5.71 | 0 | 5.6 | 1.94 | 4.94 | 2.1 | 2.8 | 12.94 |
| 212516 | 'Efcab12' | 4.02 | 1.37 | 4.49 | 0.48 | 9.21 | 9.85 | 13.5 | 2.12 | 2.58 | 14.28 |
| 212517 | 'Cfap44' | 2.76 | 2.86 | 1.22 | 2.5 | 3.68 | 1.23 | 0.01 | 0.22 | 1.2 | 5.19 |
| 212518 | 'Sprn' | 10.76 | 12.83 | 19.4 | 7.46 | 18.9 | 5.99 | 12.4 | 9.53 | 7.5 | 8.51 |
| 212528 | 'Trmt1' | 33 | 43.38 | 29.9 | 20.1 | 46.4 | 74.77 | 25.5 | 18.95 | 20.39 | 34.75 |
| 212531 | 'Sh3bgrl2' | 4.79 | 1.73 | 1.28 | 0 | 0.03 | 0.17 | 3.22 | 1.05 | 4.54 | 2.42 |
| 212539 | 'Gm266' | 2.27 | 0 | 1.99 | 0 | 0 | 0 | 6.11 | 0 | 0 | 0 |
| 212541 | 'Rho' | 0 | 1.37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 212547 | 'Nepro' | 0.72 | 0.02 | 0.58 | 0 | 1.64 | 0.34 | 1.66 | 0.72 | 0.44 | 0.52 |
| 212555 | 'Pqlc2' | 8.27 | 6.2 | 8.57 | 2.88 | 16 | 0 | 8.2 | 4.98 | 15.13 | 1.62 |
| 212569 | 'Zfp273' | 4.77 | 0 | 0 | 6.8 | 2.03 | 1.49 | 0 | 2.36 | 0 | 5.3 |
| 212627 | 'Prpsap2' | 32.69 | 33.43 | 49.7 | 7.14 | 25.4 | 38.92 | 14.6 | 39 | 35.44 | 52.92 |
| 212632 | 'Iffo2' | 0.19 | 1.88 | 0.3 | 16.4 | 0.63 | 0.01 | 0.38 | 1.4 | 0.02 | 0.16 |
| 212647 | 'Aldh4a1' | 19.54 | 13.12 | 12.4 | 26.3 | 15.2 | 3.57 | 15.1 | 13.88 | 12.17 | 16.83 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 212670 | 'Catsper2' | 4 | 0.71 | 0 | 0 | 1.41 | 0.1 | 0.01 | 0 | 2.04 | 1.35 |
| 212679 | 'Mars2' | 3.72 | 0 | 1.69 | 0 | 0.05 | 6.48 | 1.46 | 3.69 | 6.5 | 0 |
| 212706 | 'N4bp3' | 14.56 | 2.36 | 16 | 0 | 0 | 4.95 | 0 | 0.39 | 5.48 | 1.66 |
| 212712 | 'Satb2' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 212728 | 'Tarbp1' | 0.18 | 0.33 | 0.07 | 0.01 | 2.01 | 0.38 | 0.19 | 0.02 | 0.64 | 1.2 |
| 212733 | 'Bicdl2' | 0 | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 |
| 212772 | 'Arl14ep' | 8.68 | 12.81 | 11.9 | 16.4 | 7.93 | 8.36 | 4.3 | 12.39 | 11.19 | 12.89 |
| 212862 | 'Chpt1' | 5.38 | 2.55 | 4.51 | 5.82 | 3.58 | 5.39 | 0.48 | 2.16 | 2.97 | 3.56 |
| 212880 | 'Ddx46' | 14.85 | 11.16 | 12.7 | 17.3 | 5.25 | 16.29 | 8.83 | 7.54 | 13.54 | 5.37 |
| 212892 | 'Rsph4a' | 7.82 | 6.13 | 10.8 | 32.6 | 10.4 | 1.59 | 1.98 | 0.87 | 1.68 | 15.11 |
| 212898 | 'Dse' | 2.91 | 0.05 | 1.2 | 0 | 0 | 0 | 0 | 0.11 | 0 | 0.17 |
| 212919 | 'Kctd7' | 7.24 | 7.1 | 9.77 | 8.5 | 4.24 | 3.76 | 3.27 | 3.88 | 1.13 | 6.8 |
| 212933 | 'Pm20d1' | 0 | 0 | 1.63 | 1.59 | 0 | 0.02 | 0 | 0 | 1.99 | 0 |
| 212937 | 'Tifab' | 0 | 1.64 | 0 | 0 | 0 | 6.17 | 0 | 2.21 | 0 | 0 |
| 212943 | 'Tent5a' | 0.42 | 9.58 | 1.24 | 14.9 | 0.01 | 1.7 | 1.66 | 2.66 | 11.71 | 4.38 |
| 212974 | 'Pggghg' | 0 | 0 | 3.03 | 0 | 0.02 | 0 | 0 | 0 | 0.04 | 4.05 |
| 212980 | 'Slc45a3' | 0 | 0 | 0 | 9.09 | 0 | 0 | 0 | 0 | 0 | 0 |
| 212986 | 'Scfd2' | 10.71 | 4.72 | 0.77 | 14.7 | 6.22 | 10.35 | 7.64 | 9.8 | 3.92 | 2.61 |
| 212989 | 'Best2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 2.76 |
| 212996 | 'Wbscr17' | 1.63 | 2.18 | 1.09 | 1 | 3.62 | 2.46 | 3.76 | 3.35 | 1.72 | 3.33 |
| 212999 | 'Tnpo2' | 2.23 | 2.63 | 4.87 | 4.22 | 8.88 | 4.14 | 2.65 | 3.46 | 9.83 | 3.52 |
| 213002 | 'Ifitm6' | 0 | 5.66 | 0 | 0 | 1.3 | 0 | 0 | 0 | 0 | 0 |
| 213006 | 'Mfsd4a' | 19.96 | 13.91 | 27.7 | 28.4 | 31.5 | 16.24 | 20.7 | 15.79 | 20.04 | 23.76 |
| 213011 | 'Zfp583' | 6.66 | 2.61 | 0.31 | 0.24 | 0.11 | 4.86 | 2.3 | 0.13 | 4.61 | 3.11 |
| 213012 | 'Abhd10' | 46.1 | 65.2 | 57.5 | 52.9 | 58 | 47.04 | 91.4 | 54.89 | 67.9 | 73.92 |
| 213019 | 'Pdlim2' | 0 | 11.06 | 0 | 0 | 43.5 | 35.02 | 0.04 | 3.42 | 0 | 3.64 |
| 213027 | 'Evi5l' | 20.38 | 18.89 | 18.2 | 23.8 | 23.3 | 15.33 | 22.7 | 20.6 | 16.61 | 11.38 |
| 213053 | 'Slc39a14' | 1.48 | 0.71 | 1.22 | 1.83 | 1.18 | 0.89 | 0.01 | 0.44 | 0 | 1.58 |
| 213054 | 'Gabpb2' | 1.12 | 0.28 | 0.17 | 0.35 | 2.14 | 1.03 | 0.21 | 0.09 | 1.34 | 0.76 |
| 213056 | 'Fam126b' | 10.39 | 4.09 | 12 | 10.1 | 8.47 | 2.33 | 14 | 7.13 | 12.95 | 7 |
| 213068 | 'Tmem71' | 0 | 0 | 0 | 4.95 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 213081 | 'Wdr19' | 6.89 | 1.83 | 1.47 | 3.94 | 7.3 | 2.03 | 10.7 | 0.93 | 1.04 | 2.57 |
| 213084 | 'Cdkl3' | 1.41 | 14.79 | 7.35 | 20.8 | 16.1 | 13.3 | 1.93 | 13.7 | 9.99 | 4.66 |
| 213109 | 'Phf3' | 2.24 | 2.36 | 3.53 | 3.46 | 1.43 | 2.81 | 4.79 | 2.28 | 1.13 | 2.41 |
| 213119 | 'Itga10' | 0 | 0 | 0.12 | 0.1 | 0.05 | 0 | 0 | 0.16 | 0 | 0.7 |
| 213121 | 'Ankrd35' | 12.37 | 10.93 | 16.8 | 12.1 | 2.07 | 9.74 | 10 | 11.54 | 12.43 | 16.32 |
| 213171 | 'Prss27' | 0.04 | 0 | 1.42 | 0 | 0 | 0 | 0 | 0.22 | 0 | 0 |
| 213208 | 'Il2orb' | 1.84 | 0 | 1.91 | 0 | 0 | 0 | 0 | 0.02 | 0.24 | 0 |
| 213211 | 'Rnf26' | 0.89 | 0.02 | 0.63 | 0 | 3.44 | 6.21 | 5.67 | 13.75 | 0 | 0.02 |
| 213233 | 'Tapbp1' | 12.05 | 22.39 | 12.9 | 37.1 | 16.6 | 7.75 | 8.33 | 23.49 | 27.96 | 16.79 |
| 213234 | 'Zbbx' | 1.31 | 2.74 | 0 | 0.1 | 0.7 | 3.65 | 1.94 | 1.2 | 1.97 | 8.35 |
| 213236 | 'Dnd1' | 0 | 0.36 | 0.07 | 0 | 0 | 0 | 0.03 | 0.5 | 0 | 0 |
| 213262 | 'Fstl5' | 103.1 | 55.51 | 17.4 | 47.8 | 6.59 | 3.96 | 55.2 | 34.63 | 19.48 | 33.52 |
| 213272 | 'Txnrc2' | 0 | 0 | 0 | 0 | 0 | 0.13 | 0 | 0.23 | 0 | 0 |
| 21331 | 'T2' | 4.02 | 1.96 | 0 | 0 | 2.88 | 0.05 | 0.09 | 0 | 0 | 0 |
| 213311 | 'Fbxl21' | 11.93 | 4.22 | 6.93 | 4.19 | 7.15 | 3.12 | 11.6 | 10.23 | 21.68 | 12.95 |
| 213326 | 'Scyl2' | 5.83 | 8.03 | 3.42 | 10 | 4.3 | 6.19 | 6.72 | 5.99 | 20.2 | 7.01 |
| 21333 | 'Tac1' | 0.04 | 2.45 | 47.4 | 5.76 | 18.5 | 6.66 | 8.65 | 24.39 | 0 | 1.91 |
| 21334 | 'Tac2' | 0 | 0 | 4.76 | 0 | 0 | 0 | 0 | 35.45 | 5.85 | 0 |
| 21335 | 'Tacc3' | 6.99 | 0.37 | 3.77 | 9.24 | 3.33 | 0 | 0 | 2.84 | 6.19 | 0 |
| 213350 | 'Gatd1' | 29.34 | 31.3 | 35.4 | 10.7 | 36.5 | 29.09 | 70.6 | 41.98 | 34.87 | 41.74 |
| 21336 | 'Tacr1' | 0.6 | 9.53 | 3.37 | 6.04 | 3.21 | 1.11 | 3.46 | 13.83 | 15.45 | 7.43 |
| 21337 | 'Tacr2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.82 | 0 |
| 21338 | 'Tacr3' | 0 | 0 | 2.49 | 3.8 | 0 | 0 | 0 | 0 | 0 | 5.39 |
| 213389 | 'Prdm9' | 1.88 | 0.22 | 0.11 | 1.3 | 3.22 | 0.06 | 0.09 | 0.05 | 0.06 | 0.69 |
| 21339 | 'Taf1a' | 13.15 | 9.16 | 5.7 | 6.78 | 9.62 | 0.15 | 2.47 | 10.04 | 8.05 | 10.78 |
| 213391 | 'Rassf4' | 0.52 | 0.29 | 0.59 | 0 | 2.75 | 1.05 | 0.62 | 0.49 | 0.31 | 0.98 |
| 213393 | 'Depp1' | 0.03 | 0.04 | 0.04 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 21340 | 'Taf1b' | 20.06 | 14.06 | 27.6 | 22.1 | 15.4 | 7.61 | 19 | 23.08 | 16.65 | 19.84 |
| 213402 | 'Armc2' | 1.29 | 0.06 | 0.61 | 1.63 | 0.03 | 0.36 | 3.12 | 2.13 | 0.45 | 2.4 |
| 213409 | 'Lemd1' | 0.52 | 0 | 0 | 0.3 | 2.23 | 15.08 | 6.08 | 2.99 | 25.89 | 11.09 |
| 21341 | 'Taf1c' | 3.03 | 1.05 | 3.83 | 0 | 6.58 | 1.46 | 2.07 | 6.17 | 0 | 2.53 |
| 213417 | 'Klhdc8a' | 5.26 | 1.67 | 4.04 | 0.02 | 7.01 | 0 | 5.16 | 5.29 | 0.7 | 9.82 |
| 21343 | 'Taf6' | 18.39 | 30.27 | 31.7 | 50.1 | 25.1 | 36.57 | 13.1 | 42.6 | 31.9 | 47.59 |
| 213435 | 'Mylk3' | 0.03 | 0 | 0.13 | 0.06 | 0.02 | 0.04 | 0.08 | 0.02 | 0 | 0.01 |
| 213438 | 'P2ry10b' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 1.21 | 0 | 0 |
| 21345 | 'Tagln' | 0 | 0.03 | 0 | 0.04 | 0 | 0 | 0.26 | 0 | 0 | 0.04 |
| 213452 | 'Dstyk' | 4.51 | 2.96 | 4.1 | 1.49 | 4.04 | 2.49 | 6.84 | 5.71 | 7.79 | 4.32 |
| 21346 | 'Tagln2' | 6.95 | 7.6 | 16.5 | 0 | 1.52 | 11.18 | 18.3 | 2.92 | 36.36 | 35.61 |
| 213464 | 'Rbbp5' | 13.69 | 8.6 | 28.6 | 21.8 | 6.78 | 7.88 | 17.3 | 22.28 | 18.98 | 17.28 |
| 213469 | 'Lgi3' | 30.09 | 17.08 | 47.4 | 10.2 | 24.2 | 17.7 | 27.1 | 16.98 | 13.33 | 15.51 |
| 213484 | 'Nudt18' | 34.6 | 26.72 | 37.3 | 13.2 | 28.8 | 60.31 | 51.2 | 29.8 | 32.38 | 2.63 |
| 213491 | 'Szrd1' | 3.13 | 7.91 | 10.3 | 3.89 | 5.11 | 4.2 | 4.69 | 6.46 | 2.8 | 1.25 |
| 213498 | 'Arhgef11' | 1.75 | 0.81 | 2.9 | 2.08 | 2.06 | 0 | 2.35 | 2.05 | 1.9 | 3.86 |
| 213499 | 'Fbxo42' | 9.9 | 7.24 | 22 | 9.05 | 1.61 | 1.47 | 12 | 10.29 | 13.65 | 13.38 |
| 21350 | 'Tal2' | 0 | 0 | 0 | 5.08 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21351 | 'Taldo1' | 94.48 | 97.29 | 96.1 | 107 | 143 | 162.3 | 89.6 | 100.8 | 92.57 | 75.98 |
| 213522 | 'Plekhg6' | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 |
| 213527 | 'Pth2r' | 0 | 1.5 | 3.22 | | 8.12 | 0 | 0 | 0 | 0 | 0 |
| 21353 | 'Tank' | 24.66 | 18.8 | 12.2 | 32.6 | 11.7 | 14.18 | 9.77 | 10.25 | 17.26 | 19.05 |
| 213539 | 'Bag2' | 24.45 | 10.19 | 15.7 | 18.5 | 7.85 | 0.38 | 9.76 | 37.8 | 7.91 | 24.97 |
| 21354 | 'Tap1' | 0 | 3.34 | 0 | 6.72 | 0.1 | 0 | 4.46 | 3.58 | 1.35 | 1.56 |
| 213541 | 'Ythdf2' | 26.3 | 22.29 | 24.9 | 36.9 | 11.7 | 13.72 | 13.6 | 28.22 | 24.15 | 32.24 |
| 21355 | 'Tap2' | 3.38 | 7.66 | 9.44 | 15.5 | 1.81 | 10.92 | 2.6 | 2.83 | 21.81 | 6.62 |
| 213550 | 'Dis3l' | 2.19 | 5.67 | 10.7 | 9.51 | 6.58 | 5.37 | 5.64 | 2.83 | 7.3 | 6.56 |
| 213556 | 'Plekhh2' | 0.46 | 0.01 | 0.79 | 0.03 | 0.03 | 0 | 1.13 | 0.01 | 0.02 | 0.15 |
| 21356 | 'Tapbp' | 16.77 | 23.38 | 18.7 | 41.7 | 60.3 | 34.92 | 32.3 | 18.44 | 84.7 | 74.43 |
| 21357 | 'Tarbp2' | 14.26 | 6.37 | 19.1 | 23.3 | 6.67 | 15.78 | 25.8 | 31.4 | 18.92 | 17.32 |
| 213573 | 'Cracr2b' | 0.44 | 0.03 | 0.09 | 0.08 | 0.06 | 0.03 | 0.04 | 0.03 | 0.05 | 0.05 |
| 213575 | 'Dync2li1' | 60.69 | 50.17 | 49.9 | 10.2 | 22.8 | 66.75 | 57 | 31.1 | 33.05 | 51.57 |
| 213582 | 'Map9' | 22.31 | 20.83 | 15.9 | 19 | 25.4 | 11.2 | 12 | 15.24 | 9.92 | 21.47 |
| 213603 | 'Slc44a3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.84 | 0.02 | 0.36 |
| 213649 | 'Arhgef19' | 0.01 | 0 | 0 | 0 | 2.33 | 0.16 | 0 | 0 | 0 | 0 |
| 21366 | 'Slc6a6' | 6.07 | 17 | 14.4 | 17.7 | 18 | 12.77 | 12.9 | 27.45 | 23.94 | 28.64 |
| 21367 | 'Cntn2' | 4.62 | 3.9 | 13.7 | 8.38 | 7.32 | 6.8 | 2.15 | 1.3 | 4.89 | 4.5 |
| 213673 | '9530068E07Rik' | 83.81 | 92.13 | 60.1 | 46.8 | 60.2 | 81.57 | 70.5 | 86.97 | 118.7 | 123.85 |
| 213696 | 'Duoxa1' | 0 | 0 | 3.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21371 | 'Tbca' | 192.6 | 191.5 | 246 | 201 | 86.2 | 160.1 | 358 | 156.7 | 186.7 | 188.94 |
| 21372 | 'Tbl1x' | 19.1 | 21.66 | 21 | 14.1 | 35.6 | 10.02 | 8.48 | 32.22 | 31.44 | 29.54 |
| 21374 | 'Tbp' | 14.68 | 7.96 | 12.8 | 12.8 | 21.3 | 9.89 | 4.45 | 25.05 | 24.21 | 13.81 |
| 21375 | 'Tbr1' | 0 | 0 | 0.01 | 0 | 0.68 | 11.58 | 0.04 | 0.27 | 3.3 | 3.53 |
| 213753 | 'Zfp598' | 1.13 | 5.36 | 2.71 | 2.66 | 1.3 | 2.45 | 1.25 | 2.92 | 1.06 | 0.35 |
| 21376 | 'Tbrg1' | 34.33 | 63.52 | 67 | 112 | 74.7 | 95.89 | 46.3 | 49.74 | 104.2 | 78.86 |
| 213760 | 'Prepl' | 206.5 | 172.9 | 243 | 201 | 134 | 51.94 | 225 | 170 | 174.5 | 239.24 |
| 213773 | 'Tbl3' | 6.09 | 25.69 | 14.8 | 18.2 | 32.3 | 28.43 | 9.82 | 31.74 | 21.42 | 12.41 |
| 213783 | 'Plekhg1' | 1.48 | 0 | 0 | 2.13 | 0.05 | 0.15 | 0 | 0.6 | 0.01 | 0 |
| 213788 | 'Chrm5' | 2.34 | 3.91 | 0 | 0 | 5.56 | 0 | 0 | 0 | 5.04 | 3.52 |
| 21379 | 'Tbrg4' | 10.83 | 10.42 | 14.8 | 2.35 | 1.02 | 7.78 | 14.7 | 8.04 | 12.31 | 4.79 |
| 213819 | 'Casd1' | 16.47 | 15.82 | 10.8 | 19.2 | 14.8 | 5.87 | 16 | 14.74 | 21.14 | 19.58 |
| 213827 | 'Arcn1' | 55.09 | 52.88 | 64.5 | 54.8 | 36.9 | 21.02 | 52.1 | 60.42 | 48.87 | 48.85 |
| 21385 | 'Tbx2' | 0 | 0 | 0.53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21388 | 'Tbx5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 21389 | 'Tbx6' | 0 | 0 | 0 | 0 | 0 | 0 | 1.82 | 0 | 0 | 0.33 |
| 213895 | 'Bms1' | 3.74 | 6.72 | 3.68 | 6.23 | 6.48 | 4.74 | 15.9 | 4.54 | 9.26 | 4.77 |
| 21390 | 'Tbxa2r' | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21391 | 'Tbxas1' | 0 | 0.92 | 0 | 0 | 0 | 3.1 | 0 | 0 | 0 | 3.64 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 21393 | 'Tcap' | 1.5 | 0.26 | 9.23 | 1.44 | 1.4 | 2.92 | 1.32 | 0.66 | 1.61 | 1.22 |
| 213945 | 'Col28a1' | 0 | 0.8 | 0 | 0 | 0.31 | 0 | 0 | 0 | 0 | 0 |
| 213948 | 'Atg9b' | 1.46 | 5.46 | 4.5 | 1.65 | 3.57 | 6.98 | 12.7 | 3.38 | 7.56 | 3.63 |
| 213980 | 'Fbxw10' | 0 | 0 | 1.39 | 0 | 3.8 | 0 | 0 | 0.46 | 1.73 | 0 |
| 213988 | 'Tnrc6b' | 3.02 | 1.73 | 3.95 | 4.22 | 3.53 | 3.21 | 1.85 | 2.08 | 4.02 | 2.08 |
| 213989 | 'Tmem82' | 0.37 | 0.27 | 0.3 | 0.44 | 0.64 | 0.48 | 0.33 | 0.14 | 0.65 | 0.61 |
| 21399 | 'Tcea1' | 55.35 | 49.88 | 58.4 | 49.2 | 39 | 36.79 | 26.5 | 50.71 | 54.86 | 33.93 |
| 213990 | 'Agap3' | 18.68 | 14.53 | 26.6 | 28.3 | 19.1 | 24.61 | 23.8 | 8.23 | 22.68 | 19.43 |
| 213993 | 'Ccdc186' | 9.52 | 10.34 | 8.3 | 7.51 | 14.6 | 10.56 | 5.72 | 11.51 | 5.56 | 9.97 |
| 21400 | 'Tcea2' | 102.9 | 88.65 | 79.5 | 116 | 74.3 | 82.23 | 93.7 | 129.8 | 103.7 | 119.51 |
| 21401 | 'Tcea3' | 0.29 | 1.93 | 0.08 | 0.05 | 0.85 | 0 | 0.04 | 1.35 | 0.46 | 0.14 |
| 21402 | 'Skp1a' | 868.6 | 1026 | 735 | 597 | 966 | 1160 | 905 | 1181 | 871.3 | 1010.73 |
| 214048 | 'Larp1b' | 1.46 | 0.48 | 0.08 | 0.03 | 2.78 | 0.23 | 0.58 | 0.58 | 1.54 | 2.25 |
| 21405 | 'Hnf1a' | 0 | 0.42 | 1.3 | 0 | 0 | 0 | 0 | 0 | 0.88 | 0 |
| 214058 | 'Megf11' | 6.8 | 3.2 | 30.2 | 2.55 | 12.5 | 4.41 | 2.17 | 4.1 | 0.97 | 2.04 |
| 21406 | 'Tcf12' | 1.45 | 2.31 | 2.21 | 0.43 | 0.14 | 0.01 | 1.05 | 0.73 | 1.81 | 1.45 |
| 214063 | 'Dnajc16' | 10.49 | 3.84 | 9.1 | 8.38 | 6.28 | 0.46 | 0.55 | 16.49 | 4.83 | 15 |
| 21408 | 'Zfp354a' | 1.91 | 1.08 | 0 | 5.62 | 6.18 | 0 | 2.48 | 1.72 | 0.3 | 1.49 |
| 214084 | 'Slc18a2' | 8.15 | 30.92 | 0.31 | 20.1 | 4.27 | 1.65 | 0.25 | 2.67 | 9.54 | 0.79 |
| 21410 | 'Hnf1b' | 5.63 | 9.55 | 8.86 | 4.03 | 3.6 | 2.7 | 0 | 12.41 | 9.51 | 3.38 |
| 214106 | '4933430117Rik' | 0 | 0 | 2.44 | 0.23 | 0.13 | 0 | 0 | 0 | 0 | 1.16 |
| 21411 | 'Tcf20' | 7.35 | 6.26 | 7.91 | 8.26 | 10.3 | 4.83 | 4.24 | 4.82 | 5.1 | 7.54 |
| 214111 | 'Slc24a1' | 0.25 | 1.13 | 1.25 | 2.16 | 1.58 | 0 | 0 | 0 | 0.01 | 0 |
| 214112 | 'Nipal4' | 0 | 0.89 | 0 | 0 | 0 | 2.94 | 0 | 1.3 | 0 | 0 |
| 21413 | 'Tcf4' | 8.98 | 7.69 | 5.25 | 13.5 | 6.79 | 12.7 | 8.27 | 7.9 | 1.97 | 4.72 |
| 214133 | 'Tet2' | 1.55 | 3.55 | 1.88 | 3.5 | 0.57 | 2.58 | 5.09 | 2.12 | 1.65 | 0.41 |
| 214137 | 'Arhgap29' | 0.47 | 0.05 | 0.02 | 0 | 0 | 0.53 | 0 | 0 | 1.18 | 0 |
| 21414 | 'Tcf7' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0.2 | 0 | 0 |
| 21415 | 'Tcf7l1' | 0.06 | 0.7 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 |
| 214150 | 'Ago3' | 6.17 | 6.62 | 3.5 | 11.5 | 2.45 | 2.12 | 6.77 | 1.72 | 6.93 | 3.77 |
| 21416 | 'Tcf7l2' | 12.11 | 4.15 | 3.35 | 4.55 | 1.1 | 1.54 | 2.61 | 4.71 | 7.04 | 0.36 |
| 214162 | 'Kmt2a' | 5.39 | 3.36 | 4.26 | 7.61 | 3.8 | 6.85 | 7.43 | 3 | 5.3 | 4.05 |
| 21417 | 'Zeb1' | 13.32 | 9.05 | 9.43 | 12.4 | 9.52 | 6.37 | 18.7 | 9.2 | 7.13 | 7.88 |
| 21418 | 'Tfap2a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.01 |
| 214189 | 'Scgn' | 6.28 | 18.22 | 0.03 | 0.7 | 0.07 | 0.03 | 0 | 1.82 | 0 | 0 |
| 214191 | 'Ttc24' | 0 | 1.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21422 | 'Tfcp2' | 11.1 | 7.79 | 5.99 | 11.3 | 7.67 | 4.29 | 12.4 | 6.4 | 11.07 | 13.5 |
| 21423 | 'Tcf3' | 1.58 | 2.25 | 0.13 | 0.17 | 0.11 | 2.42 | 0 | 3.71 | 3.7 | 3.52 |
| 214230 | 'Pak6' | 8.26 | 18.57 | 15.3 | 25.4 | 7.54 | 10.57 | 19.4 | 7.54 | 9.83 | 14.23 |
| 214239 | 'Ccdc9b' | 0.32 | 0.28 | 1.18 | 0 | 0 | 0 | 1.59 | 1.36 | 0 | 0 |
| 214240 | 'Disp2' | 39.95 | 40.36 | 100 | 30 | 33.9 | 23.23 | 64.4 | 39.53 | 47.71 | 54.95 |
| 21425 | 'Tfeb' | 0 | 0 | 0.02 | 0 | 0.72 | 1.38 | 0 | 0 | 0 | 0 |
| 214253 | 'Etnk2' | 9.37 | 2.82 | 10.1 | 11.1 | 10.6 | 9.93 | 6.25 | 14.61 | 12.78 | 4.92 |
| 214254 | 'Nudt15' | 6.13 | 1.86 | 2.24 | 0 | 2.76 | 4.71 | 3.95 | 0.51 | 0.02 | 2.45 |
| 21427 | 'Vps72' | 54.24 | 55.51 | 44 | 37.9 | 54.9 | 91.86 | 30.8 | 60.34 | 55.16 | 52.81 |
| 21428 | 'Mlx' | 58.47 | 54.43 | 33 | 45.1 | 23.6 | 25.06 | 65.6 | 49.96 | 35.39 | 30.38 |
| 21429 | 'Ubf' | 15.35 | 8.09 | 15.5 | 3.71 | 16.8 | 25.29 | 23 | 3.32 | 12.65 | 12.91 |
| 214290 | 'Tut7' | 3.35 | 3 | 4.7 | 2.17 | 2.98 | 1.33 | 6.71 | 3.28 | 1.75 | 2.54 |
| 214292 | 'Syna' | 0 | 1.34 | 1.5 | 0 | 0 | 0 | 0 | 0 | 2.76 | 0 |
| 214301 | 'Crygn' | 0.4 | 0.09 | 0 | 0 | 0.26 | 0.25 | 0.27 | 0 | 0.55 | 0.23 |
| 214305 | 'Hhip1' | 0.55 | 0 | 0.02 | 0 | 0.41 | 0 | 1.32 | 0 | 0 | 0.03 |
| 214321 | 'Gm4787' | 0.28 | 0 | 3.35 | 0 | 0.41 | 0 | 0 | 1.17 | 0 | 0.65 |
| 214345 | 'Lrrc1' | 0 | 1.02 | 0.03 | 0.06 | 5.39 | 0.66 | 0.02 | 2.1 | 2.84 | 0.26 |
| 214359 | 'Tmem51' | 4.86 | 2.57 | 0.03 | 10.2 | 4.35 | 0 | 0 | 0 | 0 | 0 |
| 214384 | 'Myocd' | 0 | 0.01 | 2.06 | 0.01 | 0 | 0 | 1.28 | 0.01 | 0.01 | 0.01 |
| 214424 | 'Parp16' | 6.9 | 7.46 | 4.77 | 7.03 | 4.01 | 3.7 | 4.55 | 0.77 | 2.63 | 2.25 |
| 214425 | 'Cilp' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.69 |
| 214444 | 'Cdk5rap2' | 0 | 0.15 | 0 | 0.68 | 0.12 | 0 | 0.79 | 0.07 | 0.87 | 0.17 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 214459 | 'Fnbp1l' | 12.34 | 16.15 | 13.1 | 9.51 | 12.7 | 16.04 | 18 | 18.59 | 16.11 | 21.78 |
| 214469 | 'Fam168b' | 3.62 | 5.21 | 7.91 | 20.2 | 14.6 | 11.68 | 13.5 | 4.04 | 10.39 | 1.84 |
| 214489 | 'BC003965' | 18.68 | 19.63 | 17 | 17.4 | 13.8 | 21.68 | 15.3 | 22.95 | 13.52 | 7.86 |
| 214498 | 'Cdc73' | 2.9 | 0.99 | 1.3 | 2.46 | 2 | 1.25 | 1.64 | 1.28 | 1.15 | 3.01 |
| 214505 | 'Gnptg' | 182.7 | 253 | 155 | 146 | 162 | 272.6 | 188 | 137.2 | 213.9 | 308.82 |
| 21452 | 'Tcn2' | 3.99 | 3.34 | 6.28 | 20.4 | 0.03 | 38.62 | 13.5 | 10.05 | 9.93 | 14.64 |
| 21453 | 'Tcof1' | 6.78 | 2.28 | 4.58 | 7.58 | 0.99 | 1.03 | 9.8 | 9.32 | 4.7 | 4.81 |
| 21454 | 'Tcp1' | 147.9 | 167.9 | 91.6 | 91.6 | 111 | 167.1 | 129 | 134.9 | 107.5 | 133.73 |
| 214552 | 'Cep164' | 2.33 | 2.28 | 4.7 | 14.9 | 4.41 | 5.95 | 1.71 | 3.1 | 2.94 | 1.17 |
| 214568 | 'Gm136' | 0 | 0 | 0 | 4.51 | 0 | 0 | 0 | 0 | 0 | 0 |
| 214572 | 'Prmt7' | 26.77 | 65.66 | 36.7 | 66.7 | 66 | 93.31 | 43.8 | 70.55 | 55.9 | 50.37 |
| 214575 | 'Tdrd5' | 0.22 | 0.68 | 2.99 | 0.59 | 0.38 | 1.1 | 0 | 2.02 | 0.12 | 5.7 |
| 214579 | 'Aldh5a1' | 4.98 | 2.97 | 5.64 | 5.4 | 6.63 | 2.22 | 9.48 | 2.89 | 5.19 | 1.96 |
| 214580 | 'Pstk' | 23 | 33.66 | 31.9 | 15 | 39.2 | 29.39 | 23.8 | 22.32 | 6.89 | 17.49 |
| 214585 | 'Spg11' | 0.35 | 0.38 | 0 | 0.79 | 2.2 | 0.11 | 0.64 | 1.1 | 3.13 | 0.52 |
| 214597 | 'Sidt2' | 2 | 4.06 | 8.6 | 7.14 | 9.47 | 2.67 | 10.1 | 6.92 | 8.15 | 3.02 |
| 214601 | 'Slc10a3' | 6.78 | 7.69 | 3.87 | 0.03 | 0 | 3.21 | 0 | 3.23 | 8.41 | 13.99 |
| 21461 | 'Tcp10a' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 |
| 214616 | 'Spata5l1' | 0.54 | 0.35 | 0 | 5.91 | 1.32 | 1.13 | 0 | 0 | 0 | 1.1 |
| 21462 | 'Tcp10b' | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0.68 | 0 | 0 |
| 214627 | 'Tent4b' | 0.74 | 0.78 | 5.39 | 6.16 | 1.98 | 2.36 | 3.56 | 0.9 | 0.19 | 4.2 |
| 21463 | 'Tcp11' | 0.33 | 3.47 | 0.55 | 3.25 | 0 | 0 | 0 | 0.23 | 0.24 | 0.27 |
| 214642 | 'Cped1' | 0 | 0 | 0.1 | 0.21 | 0 | 0.89 | 0.9 | 0 | 1.98 | 0.07 |
| 214663 | 'Slc25a29' | 17.6 | 27.14 | 20.6 | 15.2 | 25.3 | 10.2 | 30.4 | 7.87 | 31.8 | 9.68 |
| 214669 | 'L3mbtl2' | 12.41 | 21.5 | 21.6 | 15.4 | 26.9 | 16.37 | 8.07 | 24.48 | 24.42 | 25.76 |
| 214685 | 'Chadl' | 3.16 | 4.97 | 4.2 | 9.76 | 9.14 | 4.25 | 7.89 | 11.08 | 9.1 | 11.39 |
| 214704 | 'Iqub' | 2.44 | 1.4 | 0.73 | 0 | 1.03 | 4.6 | 0.02 | 0.89 | 1.21 | 2.45 |
| 214742 | 'Rcor3' | 10.75 | 11.9 | 12.4 | 16.2 | 11.4 | 8.85 | 4.38 | 9.8 | 6.77 | 14 |
| 214763 | 'Cgas' | 0.64 | 0 | 0.1 | 0.03 | 1.28 | 0.02 | 0.02 | 0.06 | 0 | 0.92 |
| 214764 | 'Edrf1' | 3.14 | 3.12 | 0.58 | 10.2 | 0.11 | 1.16 | 6.9 | 2.15 | 3.28 | 0.17 |
| 214766 | 'Mmp21' | 0 | 0 | 0.21 | 0 | 0 | 0.38 | 0 | 0 | 0 | 0 |
| 214779 | 'Zfp879' | 0.12 | 0 | 0 | 0 | 0.12 | 0 | 5.48 | 0.5 | 3.26 | 0 |
| 214791 | 'Sertad4' | 3.27 | 1.35 | 0.77 | 7.09 | 8 | 1.44 | 0 | 2.48 | 6.42 | 3.9 |
| 214804 | 'Syde2' | 0.22 | 0 | 0.01 | 0 | 0.26 | 0 | 0.01 | 0 | 0 | 0.06 |
| 214812 | 'Zfp609' | 1.06 | 1.06 | 1.15 | 0 | 0.89 | 0.29 | 0.01 | 1.04 | 2.05 | 0.98 |
| 214854 | 'Neurl3' | 0.03 | 3.09 | 0.14 | 0 | 0.02 | 0 | 0.02 | 0.02 | 0.02 | 0 |
| 214855 | 'Arid5a' | 1.37 | 2.86 | 3.6 | 0.02 | 0.97 | 1.56 | 0 | 0 | 1.51 | 3.01 |
| 214895 | 'Lman2l' | 76.61 | 62.39 | 37.2 | 26.4 | 71.1 | 76.49 | 59.3 | 48.63 | 68.08 | 117.91 |
| 214897 | 'Csnk1g1' | 5.53 | 2.44 | 2.07 | 2.96 | 0.98 | 1.79 | 4.15 | 0.87 | 6.45 | 3.31 |
| 214899 | 'Kdm5a' | 8.95 | 8.01 | 12.2 | 10.6 | 3.31 | 10.34 | 10.5 | 12.05 | 9.81 | 8.46 |
| 214901 | 'Chtf18' | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| 214917 | 'Fam173a' | 212 | 190.4 | 213 | 135 | 285 | 261.6 | 295 | 217.7 | 161.4 | 225.98 |
| 214922 | 'Slc39a2' | 2.29 | 1.67 | 0 | 0 | 0.15 | 0 | 0 | 0 | 0 | 2.24 |
| 214931 | 'Fbxl16' | 36.2 | 24.57 | 30.3 | 10.3 | 26.7 | 18.82 | 28.7 | 27.59 | 22.17 | 16.04 |
| 214932 | 'Hdhd5' | 13.27 | 9.18 | 13.4 | 34.2 | 15 | 18.8 | 19.1 | 12.55 | 23.06 | 5.61 |
| 214944 | 'Mob3b' | 2.32 | 0.68 | 0.03 | 0.01 | 0.92 | 0.02 | 0.01 | 2.5 | 0.01 | 0.01 |
| 214951 | 'Rhbdl1' | 19.46 | 27.84 | 15.6 | 38.2 | 22.8 | 19.76 | 15.2 | 53.75 | 77.26 | 52.21 |
| 214952 | 'Rhot2' | 24.57 | 23.24 | 15.8 | 36.1 | 16.1 | 31.65 | 10.5 | 20.15 | 22.73 | 27.84 |
| 214968 | 'Sema6d' | 5.82 | 5.82 | 5.88 | 0.01 | 11.2 | 6.22 | 1.72 | 3.65 | 9.07 | 8.28 |
| 214987 | 'Chtf8' | 10.71 | 21.47 | 15.2 | 6.99 | 13.9 | 6.73 | 13 | 18.27 | 14.86 | 23.32 |
| 215001 | 'Wfikkn1' | 0 | 1.47 | 3 | 1.76 | 0 | 2.09 | 0 | 0 | 2.67 | 0 |
| 215008 | 'Vezt' | 7.55 | 4.6 | 4.2 | 4.24 | 4.04 | 4.82 | 3.63 | 4.51 | 2.94 | 3.28 |
| 215015 | 'Fam20b' | 8.84 | 13.39 | 7.44 | 11.5 | 12.6 | 4.7 | 2.76 | 6.01 | 23.14 | 13.03 |
| 215051 | 'Bud13' | 5.16 | 2.54 | 1.15 | 5.02 | 8.53 | 1.91 | 9.74 | 3.13 | 6.32 | 6.66 |
| 215085 | 'Slc35f1' | 4.91 | 2.63 | 9.7 | 9.37 | 11.1 | 1.7 | 7.43 | 4.54 | 6.02 | 8.86 |
| 215090 | 'Maneal' | 4.71 | 6.05 | 18.7 | 2.65 | 15.6 | 5.29 | 14.3 | 13 | 1.5 | 1.33 |
| 215113 | 'Slc43a2' | 5.94 | 7.73 | 2.62 | 11.2 | 5.15 | 4.97 | 11.1 | 6.71 | 6.51 | 3.42 |
| 215114 | 'Hip1' | 1.45 | 1.05 | 2.17 | 1.75 | 0.26 | 2.37 | 0.45 | 2.54 | 1.14 | 0.1 |

| | | | | | | | | | | | |
|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 215160 | 'Rhbdd2' | 219.5 | 167 | 232 | 144 | 193 | 249.3 | 252 | 228.1 | 226.2 | 316.25 |
| 215193 | 'Diexf' | 1.37 | 4.93 | 1.21 | 5.01 | 8.11 | 0 | 15.7 | 5.97 | 5.29 | 4.34 |
| 215194 | 'Kri1' | 15.71 | 16.12 | 8.53 | 14.2 | 8.33 | 12.76 | 5.12 | 5.81 | 4.09 | 12.82 |
| 215201 | 'Trmt2b' | 2.29 | 3.77 | 4.03 | 4.2 | 4.12 | 0 | 0 | 8.84 | 20.98 | 13.04 |
| 215210 | 'Tmem120a' | 32.65 | 37.79 | 11.1 | 16.6 | 12.6 | 35.29 | 11 | 29.97 | 16.35 | 5.53 |
| 215243 | 'Traf3ip3' | 0 | 0 | 0 | 0 | 0.02 | 4.2 | 0 | 0 | 0 | 0 |
| 215257 | 'Il1f9' | 1.62 | 1.53 | 1.71 | 2.34 | 2.2 | 1.68 | 0.58 | 0.98 | 2.31 | 1.46 |
| 215280 | 'Wipf1' | 0 | 0 | 0.64 | 0.98 | 0.15 | 1.2 | 0.01 | 0.3 | 0 | 0.05 |
| 215303 | 'Camk1g' | 46.91 | 36.08 | 41.1 | 13 | 25.5 | 60.81 | 50.9 | 45.14 | 40.74 | 36.56 |
| 215335 | 'Slc36a1' | 1.35 | 0 | 2 | 0.88 | 0.01 | 1.67 | 0 | 2.14 | 2.01 | 1.83 |
| 215351 | 'Senp6' | 1.21 | 3.31 | 3.25 | 11 | 6.98 | 4.99 | 1.89 | 2.48 | 2.06 | 4.05 |
| 215378 | 'Brinp3' | 20.15 | 40.67 | 22 | 0.8 | 5.47 | 29.62 | 37.9 | 26.12 | 34.15 | 43.95 |
| 215387 | 'Ncaph' | 0 | 0.11 | 2.57 | 0.02 | 0 | 2.76 | 0 | 0.92 | 0.05 | 0 |
| 215418 | 'Csrnp1' | 0.55 | 9.97 | 8.91 | 24.7 | 0.07 | 7.08 | 9.1 | 0 | 5.08 | 5.08 |
| 215436 | 'Slc35e3' | 3.34 | 6.4 | 7.77 | 8.44 | 6.12 | 0.63 | 3.61 | 4.43 | 13.58 | 9.06 |
| 215445 | 'Rab11fip3' | 5.28 | 4.95 | 3.18 | 7.12 | 4.46 | 3.02 | 5.27 | 6.44 | 2.01 | 0.56 |
| 215446 | 'Entpd3' | 7.03 | 2.27 | 13.1 | 1.97 | 2.32 | 2.5 | 0 | 7.91 | 9.33 | 1.59 |
| 215449 | 'Rap1b' | 15.67 | 6.81 | 7.64 | 16.8 | 9.86 | 16.33 | 5.96 | 6.85 | 25.91 | 10.79 |
| 215456 | 'Gpat2' | 0 | 0 | 0 | 0 | 0.32 | 0 | 0 | 0 | 0 | 0 |
| 215467 | 'Gm4791' | 0.45 | 0.57 | 1.24 | 1.81 | 1.2 | 1.02 | 1.49 | 0.33 | 0.92 | 1.04 |
| 215474 | 'Sec22c' | 7.53 | 12.25 | 4.98 | 6.97 | 0.93 | 6.45 | 3.3 | 0.32 | 10.46 | 4.52 |
| 215476 | 'Prr14l' | 3.13 | 7.55 | 5.84 | 4.89 | 2.24 | 3.23 | 6.82 | 5.45 | 3.73 | 3.88 |
| 215493 | 'A3galt2' | 0 | 0.15 | 0.01 | 0 | 3.82 | 0 | 0 | 0 | 0.01 | 0 |
| 215494 | 'Pomgnt2' | 109.1 | 93.47 | 103 | 63.2 | 58.1 | 102.9 | 56.8 | 120.1 | 67.51 | 121.06 |
| 215512 | 'Fam117a' | 0.13 | 0.02 | 0.68 | 0.42 | 6.15 | 0.39 | 0.02 | 0.03 | 0 | 0.09 |
| 215615 | 'Rnpep' | 28.81 | 29.46 | 15.1 | 2.97 | 17.7 | 56.16 | 16.7 | 27.05 | 26.72 | 30.29 |
| 215627 | 'Zbtb8b' | 2.1 | 0.51 | 2.59 | 0.83 | 2.39 | 0.41 | 0.63 | 1.36 | 0.52 | 0.55 |
| 215632 | 'Psd4' | 0 | 0 | 0 | 0 | 2.17 | 0 | 0 | 0 | 0 | 0 |
| 215653 | 'Rassf2' | 2.92 | 3.29 | 3.95 | 0 | 7.64 | 0.12 | 8.66 | 1.34 | 0.67 | 3.27 |
| 215654 | 'Cdh12' | 2.01 | 0.81 | 1.06 | 3.18 | 0.48 | 1.33 | 2.37 | 6.61 | 11.07 | 4.13 |
| 215690 | 'Nav1' | 6.2 | 7.27 | 5.57 | 12 | 5.32 | 5.78 | 9.38 | 5.99 | 4.05 | 4.53 |
| 215693 | 'Zmat1' | 18.87 | 14.19 | 16.5 | 12.9 | 7.57 | 20.46 | 7.96 | 26.86 | 18.59 | 20 |
| 215705 | 'Arrdc1' | 9.72 | 17.07 | 12.2 | 26.6 | 12.5 | 16.02 | 3.82 | 17.67 | 26.23 | 23.43 |
| 215707 | 'Ccadc92' | 58.14 | 26.29 | 49.1 | 64.7 | 18.7 | 26.3 | 62.7 | 40.42 | 48.54 | 11.83 |
| 215708 | 'Miga1' | 4.86 | 2.35 | 4.28 | 8.65 | 5.01 | 6.94 | 6.79 | 6.88 | 5.6 | 9.94 |
| 215748 | 'Cnksr3' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0.01 | 0 | 0.58 | 0 |
| 215751 | 'Ginm1' | 41.7 | 50.95 | 38.2 | 64.6 | 23.1 | 21.58 | 22.1 | 38.16 | 33.2 | 26.93 |
| 215772 | 'Adgb' | 1.03 | 0 | 0.01 | 3.53 | 0 | 0 | 0 | 1.15 | 0 | 0 |
| 215789 | 'Phactr2' | 13.95 | 10.7 | 8.37 | 11.4 | 21.3 | 29.37 | 3 | 18.14 | 4.17 | 16.6 |
| 215814 | 'Ccadc28a' | 95.97 | 42.3 | 54.9 | 56.2 | 67.1 | 83.8 | 54.9 | 92.6 | 65.28 | 40.72 |
| 215819 | 'Nhsl1' | 0.36 | 1.29 | 2.94 | 7.95 | 0.02 | 0.27 | 0.01 | 0.6 | 0.35 | 0.82 |
| 215821 | 'Arfgef3' | 6.56 | 5.29 | 8.06 | 4.45 | 4.55 | 1.55 | 3.29 | 3.53 | 12.3 | 7.51 |
| 215890 | 'Clvs2' | 9.77 | 17.96 | 27.6 | 6.09 | 12.6 | 16.04 | 16.7 | 28.76 | 20.37 | 15.21 |
| 215900 | 'Calhm6' | 0.04 | 0 | 0 | 0 | 0 | 5.5 | 0 | 0 | 0 | 0 |
| 215928 | 'Mfsd4b5' | 0.17 | 0.41 | 0.16 | 0.02 | 0.09 | 0.41 | 0.39 | 0.05 | 0.12 | 0.06 |
| 215929 | 'Mfsd4b1' | 0.33 | 0.2 | 0.11 | 0 | 0.05 | 4.26 | 3.35 | 1.45 | 2.38 | 0.03 |
| 215951 | 'Afg1l' | 7.41 | 9.64 | 5.26 | 11.8 | 10.9 | 11.2 | 6.3 | 10.23 | 2.47 | 11.86 |
| 215999 | 'Mcu' | 11.01 | 6.93 | 20.1 | 9.45 | 17.6 | 3.19 | 8.3 | 10.69 | 7.36 | 0.06 |
| 216001 | 'Micu1' | 33.79 | 32.48 | 42.5 | 17.3 | 26.9 | 27.43 | 22 | 23.86 | 10.51 | 17.93 |
| 216011 | 'Lrrc20' | 5.86 | 2.2 | 3.52 | 0.05 | 11 | 4.7 | 1.5 | 8.24 | 4.97 | 3.29 |
| 216019 | 'Hkdc1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.35 | 0 | 0 | 0 |
| 216021 | 'Stox1' | 2.54 | 0.54 | 0.96 | 1.63 | 2.55 | 1.97 | 0.03 | 0 | 1.94 | 1.43 |
| 216028 | 'Lrrtm3' | 25.57 | 31.64 | 33.3 | 36.8 | 20.7 | 15.24 | 52 | 25.07 | 22.56 | 18.51 |
| 216033 | 'Ctnna3' | 1.62 | 0 | 0.64 | 0 | 0.48 | 0.02 | 0 | 0 | 0.01 | 0 |
| 216049 | 'Zfp365' | 20.96 | 17.2 | 11.3 | 9.18 | 29 | 8.23 | 9.44 | 7.07 | 11.86 | 8.89 |
| 216080 | 'Ube2d1' | 27.5 | 16.39 | 27.3 | 8.78 | 20.3 | 14.57 | 32.6 | 15.14 | 22.67 | 9.54 |
| 216119 | 'Ybey' | 2.6 | 3.22 | 1.17 | 6.08 | 5.09 | 0.13 | 5.05 | 4.93 | 1.28 | 2.66 |
| 216131 | 'Trappc10' | 2.21 | 2.4 | 1.77 | 1.77 | 2.4 | 8.6 | 9.95 | 4.17 | 0.99 | 2.86 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 216134 | 'Pdxk' | 66.37 | 49.76 | 79.2 | 17.9 | 52.4 | 46.89 | 63.4 | 47.43 | 67.19 | 58.11 |
| 216136 | 'Ilvbl' | 39.65 | 22.73 | 30.3 | 7.52 | 18.5 | 26.46 | 11.5 | 19.47 | 19.48 | 32.4 |
| 216148 | 'Shc2' | 1.6 | 5.33 | 4.44 | 0.59 | 0.64 | 0.02 | 0.88 | 1.8 | 5.46 | 2.72 |
| 216150 | 'Cdc34' | 40.4 | 31.75 | 28.4 | 7.13 | 35.5 | 27.99 | 7.74 | 20.92 | 24.1 | 12.58 |
| 216151 | 'Polrmt' | 9.76 | 7.7 | 10.3 | 3.77 | 11.3 | 6.11 | 8.61 | 6.71 | 9.32 | 6.46 |
| 216152 | 'Plppr3' | 78.51 | 71.31 | 80.7 | 44.6 | 63.8 | 50.55 | 84.4 | 83.96 | 92.82 | 104.45 |
| 216154 | 'Med16' | 3.35 | 10.46 | 7.94 | 7.89 | 9.85 | 12.42 | 4.58 | 4.15 | 2.67 | 8.03 |
| 216156 | 'Wdr18' | 66.74 | 68.14 | 46.8 | 56.6 | 66.1 | 134.2 | 78.3 | 98.09 | 90.89 | 75.18 |
| 216157 | 'Tmem259' | 3.03 | 0.84 | 1.47 | 6.96 | 5.6 | 1.33 | 0.65 | 2.92 | 3.26 | 2.19 |
| 216161 | 'Sbno2' | 2.27 | 0.89 | 2.24 | 0.39 | 2.25 | 0 | 3.66 | 0.21 | 0.36 | 1.37 |
| 216166 | 'Plk5' | 3.96 | 5.97 | 0.05 | 0.3 | 57.8 | 6.09 | 24.4 | 8 | 0.02 | 16.72 |
| 216169 | 'Abhd17a' | 5.12 | 5.76 | 6.03 | 8.09 | 14.7 | 10.54 | 9.92 | 2.54 | 18.39 | 13.24 |
| 216177 | 'AU041133' | 7.77 | 0.05 | 0.54 | 1.68 | 0.69 | 2.91 | 0 | 0.82 | 2.83 | 9.44 |
| 216188 | 'Aldh1l2' | 1.92 | 1.89 | 0.02 | 0 | 3.25 | 0 | 4.53 | 3.34 | 2.6 | 1.67 |
| 216190 | 'Appl2' | 1.9 | 14.86 | 12.9 | 6.15 | 4.96 | 6.05 | 4.57 | 7.71 | 2.57 | 5.74 |
| 216197 | 'Ckap4' | 4.88 | 2.61 | 8.78 | 0 | 7.65 | 3.12 | 1.19 | 4.79 | 2.46 | 3.75 |
| 216198 | 'Tcp11l2' | 24.48 | 22.91 | 9.3 | 20.5 | 22.8 | 24.51 | 18.1 | 19.97 | 11.03 | 23.05 |
| 216225 | 'Slc5a8' | 0 | 0 | 0.73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 216227 | 'Slc17a8' | 0.02 | 2.63 | 0.02 | 0.12 | 0.09 | 0.02 | 0.02 | 0.02 | 0.08 | 0.11 |
| 216233 | 'Socs2' | 5.75 | 6.54 | 8.01 | 20.5 | 19.5 | 6.65 | 5.41 | 6.79 | 4.02 | 19.62 |
| 216238 | 'Eea1' | 3.76 | 2.51 | 3.88 | 8.7 | 3.4 | 1.86 | 3.19 | 2.93 | 3.38 | 3.84 |
| 216274 | 'Cep290' | 3.03 | 2.78 | 3.01 | 1.87 | 3.1 | 2.53 | 3.23 | 0.93 | 3.37 | 4.98 |
| 216292 | 'Mettl25' | 6.12 | 10.07 | 8.76 | 4.01 | 7.91 | 8.41 | 7.43 | 6.11 | 13.11 | 11.35 |
| 216343 | 'Tph2' | 0 | 0 | 0 | 0 | 1.42 | 0 | 0 | 0 | 0 | 7.94 |
| 216344 | 'Rab21' | 6.46 | 6.12 | 3.1 | 13 | 4.5 | 0.03 | 3.67 | 1.62 | 2.84 | 8.55 |
| 216345 | 'Zfc3h1' | 1.86 | 2.63 | 1.36 | 2.17 | 1.69 | 1.34 | 1.46 | 2.06 | 2.11 | 1.37 |
| 216363 | 'Rab3ip' | 5.8 | 10.56 | 11.4 | 10.7 | 12.3 | 5.09 | 10.6 | 13.45 | 13.95 | 2.14 |
| 216393 | 'D930020B18Rik' | 0.11 | 1.37 | 0.21 | 22.7 | 6.48 | 2.8 | 2.42 | 0.45 | 0.92 | 5.08 |
| 216395 | 'Tmem5' | 35.62 | 35.65 | 30.2 | 10.3 | 30.1 | 35 | 4.39 | 20.18 | 33.02 | 15.28 |
| 216438 | 'March9' | 0.8 | 0 | 0 | 2.89 | 0 | 0 | 0 | 0 | 0 | 1.62 |
| 216439 | 'Agap2' | 2.41 | 1.98 | 0.32 | 0.08 | 0.11 | 1.41 | 5.35 | 0.34 | 2.75 | 1.34 |
| 216440 | 'Os9' | 49.77 | 87.71 | 53.6 | 34.8 | 41.1 | 56.13 | 53.1 | 67.93 | 95.18 | 57.38 |
| 216441 | 'Slc26a10' | 2.71 | 0 | 0.15 | 0 | 0.42 | 0.1 | 0.02 | 0 | 0.26 | 0 |
| 216443 | 'Mars' | 29.31 | 60.92 | 19.5 | 34.5 | 28.7 | 45.54 | 48.9 | 29.01 | 39.88 | 31.04 |
| 216445 | 'Arhgap9' | 0.52 | 0 | 3.44 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21645 | 'Tcte1' | 0 | 4.75 | 0 | 0.57 | 0.05 | 0 | 0.07 | 0.28 | 11.12 | 0 |
| 216456 | 'Gls2' | 10.91 | 15.03 | 11.5 | 0.07 | 2.16 | 0.19 | 11.3 | 5.06 | 13.58 | 4.96 |
| 216459 | 'Myl6b' | 1.3 | 0.39 | 0.05 | 0.92 | 0.64 | 1.67 | 0.62 | 0.17 | 0.65 | 0.43 |
| 21646 | 'Tcte2' | 0.03 | 3.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.83 |
| 21647 | 'Tcte3' | 0 | 0 | 0 | 0 | 0 | 0.26 | 0 | 0 | 0 | 0 |
| 21648 | 'Dynl1b' | 65.65 | 66.41 | 20.4 | 26 | 89.1 | 34.8 | 41.7 | 45.88 | 55.46 | 58.39 |
| 216505 | 'Pik3ip1' | 37.57 | 24.1 | 17.2 | 25.2 | 47.2 | 19.04 | 36.5 | 20.56 | 21.49 | 6.74 |
| 216516 | 'Ccdc157' | 3.17 | 6.48 | 8.96 | 7.44 | 3.76 | 4.62 | 3.38 | 0.79 | 5.98 | 2.6 |
| 21652 | 'Phf1' | 32.2 | 40.07 | 38.3 | 17.6 | 32 | 27.37 | 22.9 | 16.8 | 16.14 | 13.48 |
| 216527 | 'Ccm2' | 21.73 | 16.51 | 14.5 | 5.31 | 6.13 | 11.18 | 4.14 | 14.06 | 33.04 | 14 |
| 216543 | 'Cep68' | 2.23 | 3.6 | 1.83 | 0 | 2.59 | 1.43 | 1.82 | 5.46 | 2.04 | 1.16 |
| 216549 | 'Aftph' | 8.98 | 10.35 | 6.06 | 1.93 | 5.04 | 6.04 | 3.05 | 3.92 | 11.19 | 7.78 |
| 216551 | 'Lgalsl' | 15.7 | 20.18 | 11.8 | 9.87 | 9.76 | 2.57 | 13.5 | 16.3 | 10.97 | 16.99 |
| 216558 | 'Ugp2' | 16.7 | 10.03 | 14 | 19.5 | 29.9 | 16.11 | 12.8 | 16.22 | 25.78 | 17.03 |
| 216560 | 'Wdpcp' | 0.02 | 7.21 | 1.37 | 1.94 | 5.74 | 14.19 | 0.02 | 3.88 | 1.28 | 16.8 |
| 216565 | 'Ehbp1' | 3.61 | 3.21 | 3.83 | 10 | 5.96 | 6.17 | 2.86 | 2.97 | 6.06 | 3.38 |
| 216578 | 'Papolg' | 0.65 | 4.81 | 6.28 | 5.53 | 3.59 | 2.1 | 2.36 | 12.48 | 7.37 | 4.91 |
| 216613 | 'Ccdc85a' | 16.24 | 16.06 | 21.1 | 8.83 | 5.85 | 0.99 | 8.04 | 7.53 | 6.94 | 7.23 |
| 216616 | 'Efemp1' | 0 | 3.35 | 0 | 9.32 | 0 | 0 | 0 | 2.13 | 0 | 1.16 |
| 216618 | 'Cfap36' | 80.17 | 86.1 | 101 | 104 | 115 | 94.31 | 96.8 | 88.51 | 78.94 | 88.88 |
| 216622 | '4931440F15Rik' | 0 | 4.82 | 0.01 | 5.14 | 0.01 | 0 | 3.01 | 0 | 1.72 | 5.32 |
| 216635 | 'Hbq1a' | 2.48 | 2.58 | 2.76 | 0 | 12.3 | 24.08 | 17 | 11.22 | 13.87 | 5.56 |
| 21664 | 'Phlda1' | 20.01 | 15.98 | 10 | 8.83 | 8.97 | 8.62 | 41.1 | 15.16 | 7.77 | 1.49 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 21665 | 'Tdg' | 11.72 | 13.7 | 8.79 | 9.59 | 9.51 | 6.65 | 18.1 | 11.18 | 7.24 | 4.74 |
| 21667 | 'Tdgf1' | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 |
| 216705 | 'Clint1' | 6.04 | 5.11 | 4.2 | 10.8 | 2.56 | 0.54 | 3.56 | 0.52 | 4.12 | 6.05 |
| 21672 | 'Prdx2' | 403.2 | 370 | 335 | 389 | 460 | 537.4 | 230 | 402.5 | 292 | 341.9 |
| 216724 | 'Rufy1' | 15.59 | 15.49 | 9.94 | 14.2 | 12 | 4.57 | 1.52 | 16.47 | 5.94 | 18.96 |
| 216725 | 'Adamts2' | 0.43 | 1.57 | 1.28 | 0.04 | 0.06 | 0.15 | 4.72 | 0.02 | 4.03 | 1.17 |
| 216739 | 'Acsl6' | 30.95 | 28.87 | 31.6 | 30.9 | 14.2 | 23.41 | 15.8 | 19.78 | 30.57 | 9.04 |
| 216742 | 'Fnip1' | 0.73 | 4.13 | 2.13 | 4.55 | 2.63 | 0.23 | 2.72 | 1.61 | 4.4 | 2.26 |
| 216749 | 'Nmur2' | 1.12 | 0 | 0.01 | 0 | 0 | 1.22 | 0 | 0 | 6.28 | 0 |
| 21676 | 'Tead1' | 1.36 | 1.51 | 0.3 | 2.99 | 0.01 | 0.31 | 0.35 | 0.22 | 1.2 | 3.36 |
| 216760 | 'Mfap3' | 8.13 | 9.66 | 1.78 | 7.38 | 8.67 | 8.81 | 7.32 | 8.07 | 11.78 | 11.05 |
| 216766 | 'Gemin5' | 3.42 | 1.86 | 7.54 | 13.1 | 1.17 | 1.01 | 5.32 | 1.77 | 0.17 | 4.03 |
| 216767 | 'Mrpl22' | 78.89 | 57.22 | 33.5 | 27.8 | 55.4 | 92.44 | 93.7 | 81.67 | 55.8 | 80.22 |
| 21677 | 'Tead2' | 0.59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21678 | 'Tead3' | 0.04 | 0 | 0 | 0 | 0.52 | 0.57 | 1.32 | 0 | 0 | 0.26 |
| 216781 | 'Trim58' | 0 | 1.49 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 21679 | 'Tead4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.01 |
| 216792 | 'Iba57' | 1.79 | 5.55 | 0 | 0 | 1.04 | 2.35 | 0 | 1.08 | 3.38 | 0 |
| 216797 | 'Prss38' | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 |
| 216799 | 'Nlrp3' | 0 | 0.28 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 |
| 216805 | 'Flncl' | 24.23 | 19.7 | 19 | 2.15 | 23.7 | 13.41 | 31.9 | 24.3 | 32.54 | 41.24 |
| 21681 | 'Alyref' | 0.8 | 3.31 | 0.09 | 5.24 | 3.35 | 0.17 | 0.41 | 2.08 | 1.02 | 1.82 |
| 216810 | 'Tom1l2' | 29.26 | 21.32 | 48 | 12.9 | 34.4 | 11.38 | 42.4 | 27.55 | 48.58 | 20.35 |
| 21682 | 'Tec' | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 |
| 216820 | 'Dhrs7b' | 18.35 | 46.87 | 18 | 26 | 23.8 | 15.66 | 30.6 | 35.56 | 37.52 | 32.5 |
| 216821 | 'Tmem11' | 52.43 | 53.8 | 83.7 | 67.2 | 56.7 | 67.47 | 39 | 69.22 | 45.31 | 36.43 |
| 216825 | 'Usp22' | 97.8 | 124.1 | 121 | 97.8 | 60.8 | 33.25 | 139 | 113 | 98.67 | 103.72 |
| 216829 | 'Mmgt2' | 18.19 | 4.27 | 5.22 | 10.2 | 18.2 | 26.75 | 0.04 | 2.77 | 34.75 | 25.45 |
| 21683 | 'Tecta' | 0 | 0 | 0.06 | 0.11 | 0 | 0 | 1.45 | 0 | 0 | 0 |
| 216831 | 'Arhgap44' | 19.1 | 22.52 | 24.5 | 22 | 21.3 | 26.2 | 22.3 | 27.68 | 22.2 | 22.78 |
| 216835 | 'Usp43' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 |
| 216846 | 'Cntrob' | 0 | 8.15 | 4.02 | 1.46 | 2.62 | 2.46 | 3.87 | 0.18 | 7.41 | 1.15 |
| 216848 | 'Chd3' | 9.94 | 9.59 | 10.4 | 16.4 | 12.8 | 11.71 | 16.3 | 10.47 | 6.63 | 9.8 |
| 21685 | 'Tef' | 18.74 | 13.1 | 12.8 | 34.6 | 19.6 | 7.07 | 15.9 | 18.47 | 9.7 | 18.33 |
| 216850 | 'Kdm6b' | 3.79 | 5.23 | 3.86 | 19.3 | 4.54 | 1.78 | 4.2 | 3.22 | 3.36 | 5.28 |
| 216853 | 'Wrap53' | 2.67 | 4.17 | 6.39 | 1.98 | 8.51 | 13.76 | 10.4 | 5.83 | 2.86 | 4.84 |
| 216856 | 'Nlgn2' | 12.3 | 9.51 | 16.3 | 18.1 | 16.3 | 6.37 | 9.11 | 9.26 | 6.83 | 4.6 |
| 216858 | 'Kctd11' | 0 | 0 | 1.3 | 0 | 3.99 | 0.07 | 0.02 | 0 | 0 | 0.22 |
| 216860 | 'Neurl4' | 1.38 | 2.05 | 11.2 | 2.19 | 9.87 | 5.47 | 4.83 | 5.73 | 2.42 | 4.15 |
| 216864 | 'Mgl2' | 0.03 | 2.49 | 0 | 0 | 0.03 | 0.03 | 0 | 0 | 0 | 0 |
| 216867 | 'Slc16a11' | 6.78 | 10.86 | 15.9 | 2.39 | 30.9 | 15.06 | 24.3 | 18.5 | 16.31 | 5.53 |
| 216869 | 'Arrb2' | 12.12 | 14.47 | 14.5 | 22.3 | 21.2 | 23.03 | 19.5 | 12.69 | 35.57 | 8.77 |
| 216871 | 'Gltpd2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.65 |
| 216873 | 'Spag7' | 164 | 122.7 | 139 | 241 | 268 | 244.8 | 179 | 164.1 | 150.1 | 190.66 |
| 216874 | 'Camta2' | 12.39 | 11.66 | 19.6 | 17 | 13.9 | 6.7 | 32.2 | 13.09 | 9.91 | 12.11 |
| 216877 | 'Dhx33' | 2.01 | 4.82 | 2.11 | 4.66 | 5.03 | 0.25 | 5.47 | 0 | 2.97 | 0.05 |
| 216881 | 'Wscd1' | 35.07 | 56.73 | 72.7 | 21.1 | 23.3 | 25.16 | 10.2 | 24.05 | 38.63 | 8.76 |
| 21689 | 'Tek11' | 13.09 | 45.29 | 0 | 67.7 | 5.69 | 0.48 | 8.64 | 14.38 | 3.56 | 13.42 |
| 216892 | 'Spns2' | 4.39 | 2.12 | 1.44 | 0 | 13.3 | 2.22 | 4.71 | 3.54 | 6.03 | 3.64 |
| 216961 | 'Coro6' | 9.9 | 1.79 | 32.3 | 0 | 18.5 | 2.18 | 0.38 | 23.56 | 3.87 | 0.52 |
| 216963 | 'Git1' | 5.45 | 9.27 | 7.75 | 26.1 | 19.7 | 11.05 | 7.47 | 14.21 | 7.37 | 11.83 |
| 216964 | 'Trp53i13' | 25.72 | 12.82 | 7.5 | 26.4 | 14.7 | 28.2 | 27.4 | 25.77 | 21.47 | 14.22 |
| 216965 | 'Taok1' | 7.76 | 15.2 | 6.13 | 4.07 | 11.7 | 9.03 | 4.19 | 5.03 | 7.2 | 8.13 |
| 216971 | 'Fam222b' | 11.85 | 8.53 | 8.28 | 14.8 | 10.2 | 9.06 | 14.3 | 9.67 | 10.03 | 9.53 |
| 216974 | 'Proca1' | 3.82 | 3.82 | 2.57 | 2.4 | 2.91 | 12.05 | 9.31 | 1.69 | 3.24 | 2.12 |
| 216976 | 'BC030499' | 9.34 | 4.67 | 3.46 | 1.49 | 5.12 | 13.02 | 0.08 | 1.86 | 0 | 4.44 |
| 216984 | 'Evi2b' | 0 | 0.01 | 0.03 | 0.02 | 0.17 | 1.11 | 0.66 | 0 | 0.01 | 1.31 |
| 216987 | 'Utp6' | 8.98 | 13.69 | 3.82 | 4.69 | 2.27 | 4.52 | 3.48 | 4.93 | 12.16 | 6.1 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 216991 | 'Adap2' | 1.54 | 0 | 0 | 0 | 0 | 2.17 | 5.87 | 0.03 | 0 | 0 |
| 217011 | 'Nle1' | 1.73 | 3.06 | 1.31 | 3.32 | 16.6 | 8.48 | 27.2 | 6.24 | 5.08 | 17.09 |
| 217012 | 'Unc45b' | 0 | 0.03 | 0.08 | 0.02 | 0.01 | 0 | 0 | 0 | 0.02 | 0.01 |
| 217026 | 'Heatr6' | 3.47 | 5.41 | 6.63 | 8.5 | 3.42 | 9.26 | 11.5 | 8.45 | 2.85 | 3.66 |
| 217030 | 'Synrg' | 5.15 | 4.78 | 2.45 | 9.19 | 3.28 | 3.64 | 4.77 | 2.43 | 3.88 | 3.84 |
| 217031 | 'Tada2a' | 12.54 | 10.1 | 22 | 11.5 | 20.2 | 23.49 | 12.5 | 24.72 | 24.14 | 29.12 |
| 217038 | 'Mrm1' | 10.15 | 10.98 | 8.87 | 5.81 | 5.16 | 10.52 | 16.1 | 15 | 15.91 | 6.14 |
| 217039 | 'Ggnbp2' | 46.43 | 42.99 | 46 | 57.6 | 40.4 | 34.98 | 45.5 | 38.57 | 51.01 | 18.49 |
| 217057 | 'Pthr2' | 14.44 | 11.06 | 11 | 7.79 | 16.5 | 18.12 | 6.54 | 10.19 | 21.24 | 17.36 |
| 217069 | 'Trim25' | 0.24 | 0.96 | 0.37 | 1.38 | 0.21 | 0 | 0.04 | 0 | 0 | 1.08 |
| 217082 | 'Hlf' | 5.79 | 5.7 | 4.26 | 4.89 | 3.37 | 4.71 | 0.45 | 5.16 | 2.63 | 1.83 |
| 217109 | 'Utp18' | 6.56 | 4.79 | 3.64 | 8.75 | 5.17 | 3.66 | 3.77 | 2.72 | 3.54 | 5.8 |
| 217119 | 'Xylt2' | 5.14 | 0 | 0.74 | 15.7 | 5.66 | 1.7 | 0 | 1.63 | 9.4 | 5.93 |
| 217124 | 'Ppp1r9b' | 4.61 | 4.16 | 6.74 | 7.17 | 5.18 | 5.21 | 8.5 | 2.55 | 7.93 | 5.34 |
| 217125 | 'Samd14' | 14.61 | 10.8 | 16.2 | 10.2 | 27.2 | 28.3 | 33.8 | 20.16 | 14.26 | 23.72 |
| 217127 | 'Kat7' | 42.86 | 54.38 | 49 | 32.8 | 14.6 | 24.89 | 53.4 | 32.54 | 55.9 | 78.66 |
| 217140 | 'Scrn2' | 0 | 7.98 | 2.82 | 0 | 10.2 | 25.89 | 4.73 | 23.03 | 9.85 | 4.78 |
| 217143 | 'Gpr179' | 0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 217149 | 'Cisd3' | 95.72 | 70.66 | 79.5 | 166 | 114 | 135 | 65.7 | 101.8 | 62.15 | 85.5 |
| 217151 | 'Arl5c' | 0 | 0 | 0 | 3.32 | 0 | 0 | 0 | 0 | 0 | 0 |
| 217154 | 'Stac2' | 1.49 | 0 | 1.17 | 0.17 | 0 | 0 | 1.56 | 2.46 | 4.39 | 0.29 |
| 217166 | 'Nr1d1' | 19.21 | 55.89 | 28.9 | 99.7 | 13.2 | 13.88 | 14.5 | 15.82 | 11.4 | 26.44 |
| 217169 | 'Tns4' | 0 | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 | 0 | 0 | 0.02 | 0 |
| 217194 | 'Klhl11' | 2.63 | 5.07 | 2.83 | 0 | 2.38 | 7.08 | 12.6 | 4.33 | 3.52 | 6.31 |
| 217198 | 'Plekhh3' | 0 | 1.06 | 2.05 | 0.98 | 1.17 | 1.92 | 1.27 | 0.72 | 0 | 0.34 |
| 217201 | 'Rundc1' | 11.28 | 20.35 | 17.3 | 12 | 2.83 | 8.42 | 8.62 | 10.93 | 22.83 | 13.1 |
| 217203 | 'Tmem106a' | 9.67 | 0 | 4.75 | 6.17 | 2.4 | 0.02 | 0 | 4.27 | 3.68 | 9.79 |
| 217207 | 'Dhx8' | 2.85 | 3.74 | 12.3 | 0.49 | 3.6 | 6.85 | 0.56 | 8.1 | 9.57 | 1.43 |
| 217214 | 'Nags' | 0 | 0 | 0 | 2.34 | 0 | 0 | 0 | 0 | 0 | 0 |
| 217216 | 'BC030867' | 0 | 0 | 3.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 217217 | 'Asb16' | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.22 |
| 217218 | 'Atxn7l3' | 2.61 | 2.72 | 3.95 | 0 | 5.77 | 4.5 | 5.22 | 2.17 | 3.15 | 1.16 |
| 217219 | 'Fam171a2' | 0 | 0.14 | 0.38 | 1.11 | 0.96 | 0.41 | 0.18 | 1.6 | 0.4 | 0.04 |
| 217232 | 'Cdc27' | 7.52 | 7.98 | 4.65 | 23.1 | 3.7 | 10.16 | 8.89 | 4.7 | 4.98 | 2.03 |
| 217246 | 'Ace3' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 217262 | 'Abca9' | 0.84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 217265 | 'Abca5' | 3.35 | 1.16 | 2.36 | 1.72 | 2.36 | 0.27 | 5.59 | 0.18 | 1.35 | 2.74 |
| 217303 | 'Cd300a' | 0.21 | 2.2 | 2.61 | 1.68 | 0.58 | 0.57 | 0.36 | 3.33 | 1.71 | 0.37 |
| 217304 | 'Cd300lb' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 |
| 217310 | 'Hid1' | 56.66 | 60.79 | 56.2 | 44.5 | 55.6 | 61.3 | 65.9 | 62.22 | 83.06 | 70.21 |
| 217325 | 'Lgl2' | 0 | 0 | 0 | 0 | 1.39 | 0.01 | 0 | 0 | 0 | 0 |
| 217331 | 'Unk' | 7.83 | 11.92 | 7.6 | 4.1 | 4.03 | 7.34 | 11.3 | 9.95 | 7.02 | 14.31 |
| 217333 | 'Trim47' | 0 | 0 | 0 | 4.1 | 1.48 | 0 | 0 | 0 | 0 | 0 |
| 217335 | 'Fbf1' | 3.06 | 6.6 | 9.47 | 9.43 | 4.19 | 6.75 | 8.86 | 8.7 | 12.1 | 5.5 |
| 217337 | 'Srp68' | 54.2 | 59.07 | 50.5 | 64 | 73.4 | 75.19 | 71.4 | 51.79 | 84.64 | 51.24 |
| 217340 | 'Rnf157' | 9.26 | 4.25 | 2.38 | 0.98 | 11.1 | 8.83 | 14.8 | 4.2 | 1.41 | 3.91 |
| 217341 | 'Qrich2' | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 |
| 217342 | 'Ube2o' | 8.02 | 7.63 | 12.4 | 7.23 | 19.1 | 8.18 | 5.32 | 11.55 | 5.3 | 6.8 |
| 217344 | 'Rhbf2' | 0 | 0 | 0 | 0 | 0.29 | 0 | 0 | 0.58 | 0 | 0 |
| 217351 | 'Tnrc6c' | 7.11 | 6.3 | 6.11 | 6.03 | 8.81 | 5.49 | 5.23 | 4.87 | 7.28 | 7.07 |
| 217353 | 'Tmc6' | 0.16 | 0.07 | 0 | 0 | 1.33 | 0 | 0 | 0 | 0 | 0.5 |
| 217356 | 'Tmc8' | 0 | 0 | 0 | 1.25 | 0 | 0 | 1.09 | 0 | 0.08 | 0 |
| 217364 | 'Engase' | 2.08 | 1.8 | 2.16 | 4.49 | 0.72 | 0.45 | 0 | 0 | 0 | 1.65 |
| 217365 | 'Nploc4' | 1.97 | 1.54 | 3.36 | 1.22 | 3.22 | 3.21 | 3.73 | 3.59 | 7.57 | 1.95 |
| 217366 | 'Lrrc45' | 43.78 | 45.68 | 71.2 | 62.2 | 59.7 | 87.94 | 52.2 | 61.97 | 54.6 | 65.95 |
| 217369 | 'Uts2r' | 40.2 | 77.2 | 11.5 | | 59.3 | 216.1 | 195 | 134.2 | 168.3 | 153.83 |
| 217370 | 'Cybc1' | 22.32 | 22.03 | 26.5 | 8.1 | 19.3 | 25.12 | 5.46 | 24.54 | 18.9 | 12.67 |
| 217371 | 'Rab40b' | 7.92 | 23.87 | 2.54 | 24.9 | 10.2 | 6.24 | 6.84 | 7.32 | 6.44 | 8.19 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 217378 | 'Dnajc27' | 19.07 | 17.56 | 43.4 | 18.5 | 23.3 | 11.82 | 26.2 | 28.29 | 18.08 | 22.9 |
| 217379 | 'Ubxn2a' | 17.56 | 14.58 | 23.1 | 10.7 | 12.6 | 14.65 | 19.5 | 14.23 | 12.61 | 7.79 |
| 217410 | 'Trib2' | 0.96 | 13.14 | 5.89 | 6.82 | 4.4 | 3.84 | 17.4 | 9.39 | 2.56 | 3.89 |
| 217430 | 'Pqlc3' | 0 | 2.38 | 0.85 | 0 | 0 | 0 | 0 | 0.53 | 1.58 | 0.55 |
| 217431 | 'Nol10' | 9.73 | 13.12 | 12.7 | 13.8 | 21 | 10.31 | 18.1 | 14.94 | 21.19 | 11.1 |
| 217449 | 'Trappc12' | 29.36 | 34.55 | 35.5 | 8.63 | 27.3 | 15.69 | 31.2 | 29.41 | 14.52 | 24.54 |
| 21745 | 'Tep1' | 0.12 | 0.03 | 0.05 | 0.02 | 0.33 | 0.91 | 0.1 | 0.06 | 0.11 | 0.11 |
| 217463 | 'Snx13' | 11.29 | 6.31 | 12.7 | 4.11 | 10 | 6.83 | 2.43 | 6.8 | 13.32 | 10.14 |
| 217473 | 'Ankmy2' | 30.07 | 24.09 | 25.2 | 20.2 | 26.7 | 33.04 | 17.9 | 24.67 | 30.97 | 15.82 |
| 217480 | 'Dgkb' | 14.99 | 22.67 | 13 | 38.5 | 4.88 | 11.04 | 9.22 | 14.69 | 7.8 | 8.89 |
| 21749 | 'Terf1' | 8.8 | 12.4 | 10.5 | 11.4 | 17 | 5.66 | 8.01 | 11.45 | 24.71 | 15.69 |
| 21750 | 'Terf2' | 11.57 | 6.18 | 6.58 | 4.43 | 5 | 7.31 | 4.91 | 2.58 | 11.25 | 3.71 |
| 217517 | 'Stxbp6' | 0.96 | 1.41 | 0 | 0.97 | 8.25 | 2.16 | 11.5 | 7.4 | 0.68 | 0.02 |
| 21752 | 'Tert' | 0.73 | 1.57 | 1.38 | 0.85 | 0.42 | 0.49 | 2.3 | 1.59 | 1.65 | 2.02 |
| 21753 | 'Tes' | 0 | 1.68 | 0.33 | 0 | 3.67 | 0.56 | 0 | 1.91 | 3.07 | 0.54 |
| 21754 | 'Tesk1' | 5.05 | 6.17 | 6.87 | 15.1 | 6.78 | 1.92 | 7 | 3.41 | 3.78 | 9.12 |
| 217558 | 'G2e3' | 1.2 | 0.62 | 0.55 | 0.02 | 0.05 | 0 | 1.78 | 1.25 | 0.88 | 0.99 |
| 217578 | 'Baz1a' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 217588 | 'Mbip' | 11.82 | 12.53 | 19.1 | 16.5 | 25 | 27.36 | 16.1 | 12.18 | 21.21 | 17.73 |
| 21761 | 'Morf4l1' | 281.5 | 290.5 | 318 | 449 | 316 | 346.5 | 254 | 420.3 | 452.9 | 359.18 |
| 217615 | '217615' | 4.32 | 0.94 | 5.66 | 3.77 | 4.11 | 2.43 | 5.54 | 2.19 | 9.49 | 1.85 |
| 21762 | 'Psm2' | 131.8 | 95.7 | 124 | 181 | 87.6 | 123.3 | 97.3 | 117.8 | 110 | 138.51 |
| 21763 | 'Tex2' | 20 | 8.65 | 7.61 | 4.73 | 8.48 | 3.9 | 11.8 | 10.85 | 10.22 | 10.62 |
| 21766 | 'Tex261' | 24.37 | 25.12 | 23.4 | 25.2 | 52.8 | 38.62 | 44.1 | 37.08 | 26.55 | 21.71 |
| 217664 | 'Mgat2' | 11.89 | 8.72 | 3.69 | 32.1 | 8.59 | 11 | 3.21 | 11.87 | 7.65 | 10.12 |
| 217666 | 'L2hgdh' | 10.76 | 5.28 | 6.37 | 18.5 | 8.17 | 4.01 | 13.7 | 13.21 | 15.89 | 10.71 |
| 21767 | 'Tex264' | 44.55 | 56.54 | 56 | 26.7 | 68.2 | 31.82 | 81.7 | 59.82 | 37.15 | 38.48 |
| 217682 | 'Plekhd1' | 0 | 0.46 | 0 | 0 | 1.88 | 1.02 | 0 | 0 | 0 | 0.8 |
| 217684 | 'Susd6' | 1.73 | 0.24 | 0.5 | 3.75 | 1.58 | 0.01 | 3.5 | 0 | 0.01 | 0 |
| 21769 | 'Zfand3' | 2.77 | 12.96 | 13.6 | 6.96 | 11.5 | 1.44 | 14.1 | 4.49 | 7.45 | 11.31 |
| 217692 | 'Sipa1l1' | 5.53 | 6.07 | 7.09 | 1.71 | 4.19 | 5.92 | 2.63 | 4.05 | 4.29 | 7.84 |
| 217695 | 'Zfyve1' | 9.51 | 13.98 | 10.8 | 10.7 | 8.9 | 3.77 | 2.64 | 20.91 | 3.36 | 12.36 |
| 217698 | 'Acot5' | 0 | 0 | 2.25 | 0 | 2.39 | 0 | 0 | 0 | 0 | 0 |
| 21770 | 'Ppp2r5d' | 17.36 | 20.78 | 32.7 | 34.3 | 28 | 6.23 | 30.1 | 39.57 | 39.45 | 13.71 |
| 217700 | 'Acot6' | 0.32 | 0.56 | 0.8 | 0 | 0 | 0 | 0 | 0 | 2.86 | 0.92 |
| 217705 | 'Fam161b' | 2.59 | 10.29 | 9.14 | 9.52 | 8.3 | 2.45 | 12.3 | 6.35 | 2.48 | 2.71 |
| 217707 | 'Coq6' | 28.52 | 30.32 | 36.5 | 53.6 | 37.7 | 60.41 | 21.5 | 37.72 | 16.37 | 56.58 |
| 217708 | 'Lin52' | 46.36 | 35.68 | 24.2 | 24.4 | 35 | 42.77 | 25.7 | 48.77 | 49.66 | 47.06 |
| 21771 | 'Utp4' | 16.22 | 30.36 | 19.4 | 5.46 | 15.5 | 15.47 | 26.4 | 25.78 | 33.93 | 27.56 |
| 217715 | 'Eif2b2' | 36.57 | 54.64 | 47.7 | 62.4 | 49 | 51.25 | 26.5 | 44.86 | 40.39 | 46.56 |
| 217716 | 'Mlh3' | 4.83 | 2.96 | 1.87 | 1.93 | 5.33 | 3.46 | 1.55 | 3.17 | 0.71 | 7.03 |
| 217718 | 'Nek9' | 1.86 | 2.25 | 5.23 | 7.61 | 8.35 | 0.73 | 6.84 | 1.41 | 1.16 | 0.83 |
| 217732 | 'Cipc' | 12.96 | 15.52 | 20.5 | 12.2 | 10.6 | 7.51 | 4.96 | 11.38 | 4.04 | 12.27 |
| 217733 | 'Tmem63c' | 15.5 | 8.88 | 10.6 | 0.02 | 0.98 | 8.5 | 8.57 | 12.73 | 6.13 | 12.12 |
| 217734 | 'Pomt2' | 6.64 | 2.79 | 7.64 | 0.01 | 10.2 | 1.24 | 9.8 | 4.79 | 3.33 | 5.77 |
| 217737 | 'Ahsa1' | 212.5 | 235.6 | 134 | 134 | 140 | 131.6 | 109 | 155.6 | 180.2 | 200.72 |
| 217738 | 'Ism2' | 0 | 0.97 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 217779 | 'Lysmd1' | 7.23 | 11.28 | 22.1 | 0 | 16.7 | 12.15 | 13.6 | 8.21 | 2.67 | 16.36 |
| 21778 | 'Tex9' | 10.74 | 7.31 | 5.96 | 14.5 | 8.24 | 8.5 | 4.44 | 6.11 | 2.92 | 11.43 |
| 21780 | 'Tfam' | 14.71 | 9.99 | 15.6 | 15.2 | 12.2 | 10.65 | 8.66 | 9.94 | 7.72 | 12.43 |
| 21781 | 'Tfdp1' | 8.99 | 16.68 | 8.72 | 5.87 | 24.4 | 10.99 | 9.79 | 12.79 | 5.41 | 8.51 |
| 217826 | 'Kcnk13' | 1.67 | 0.33 | 0.58 | 11.3 | 0.08 | 4.1 | 2.59 | 0 | 6.59 | 3.03 |
| 217827 | 'Nrde2' | 2.59 | 7.31 | 10.9 | 3.31 | 1.53 | 2.92 | 8.79 | 3.68 | 0.82 | 8.35 |
| 217830 | 'Dglucy' | 12.08 | 11.56 | 3.9 | 0.02 | 9.08 | 7.63 | 4.8 | 4.56 | 0 | 7.79 |
| 217837 | 'Itpk1' | 18.31 | 25.46 | 15.1 | 0.02 | 17.9 | 15.53 | 8.95 | 2.89 | 14.96 | 20.12 |
| 217843 | 'Unc79' | 3.75 | 1.36 | 1.53 | 5.01 | 2.82 | 0.62 | 5.02 | 1.63 | 3.14 | 1.04 |
| 217845 | 'Ifi27l2b' | 0.04 | 0.3 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0.08 |
| 21785 | 'Tff2' | 0 | 0 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0 | 0 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 217864 | 'Rcor1' | 0.83 | 1.17 | 1.45 | 0.46 | 0.91 | 0 | 2.19 | 0.02 | 2.79 | 0.47 |
| 217866 | 'Cdc42bpb' | 6.58 | 2.95 | 4.15 | 3.41 | 6.4 | 4.51 | 1.72 | 3.23 | 1.79 | 9.73 |
| 217869 | 'Eif5' | 81.83 | 71.13 | 63.7 | 102 | 80.9 | 78.34 | 88.4 | 105 | 100.5 | 88.89 |
| 21787 | 'Tfg' | 86.45 | 112.8 | 101 | 60.2 | 55.3 | 93.52 | 75 | 70.96 | 85.8 | 107.7 |
| 21788 | 'Tfpi' | 0.01 | 0 | 0.02 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 |
| 217882 | 'Cep170b' | 5.72 | 6.93 | 3.43 | 13.5 | 13.8 | 7.68 | 12 | 1.64 | 9.91 | 8.09 |
| 217887 | 'Clba1' | 14.1 | 19.1 | 23.2 | 19.9 | 8 | 15.26 | 13 | 10.98 | 13.97 | 7.81 |
| 21789 | 'Tfpi2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 217893 | 'Pacs2' | 2.94 | 3.5 | 2.95 | 0.58 | 7.52 | 4.45 | 1.48 | 3.27 | 0.39 | 2.58 |
| 217935 | 'Wdr60' | 8.8 | 8.86 | 4.22 | 7.13 | 6.19 | 10.51 | 7.87 | 3.07 | 12.47 | 9.94 |
| 217944 | 'Rapgef5' | 2.28 | 3.36 | 4.42 | 1.16 | 0.92 | 1.57 | 5.23 | 4.96 | 1.54 | 3.79 |
| 217946 | 'Cdca7l' | 1.35 | 0 | 0 | 0 | 0 | 0 | 0 | 1.27 | 0 | 0 |
| 217951 | 'Tmem196' | 11.44 | 6.22 | 6.09 | 11 | 15.1 | 0.23 | 4.63 | 5.44 | 1.87 | 4.15 |
| 217980 | 'Larp4b' | 8.32 | 10.28 | 12.1 | 17.9 | 13.9 | 10.38 | 10.3 | 7.98 | 11.89 | 10.64 |
| 217995 | 'Heatr1' | 1.09 | 1.92 | 1.84 | 1.07 | 0.83 | 1.44 | 1.66 | 0.01 | 1.88 | 0.59 |
| 21802 | 'Tgfa' | 1.85 | 3.42 | 11.9 | 0 | 1.2 | 0 | 16 | 2.24 | 0.02 | 0 |
| 21803 | 'Tgfb1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.39 | 0 | 0.1 | 0.08 |
| 218030 | 'Pou6f2' | 0 | 6.81 | 0.02 | 0 | 0 | 0 | 0.07 | 8.77 | 0.83 | 0 |
| 218035 | 'Vps41' | 66.6 | 83.13 | 101 | 101 | 104 | 84.01 | 122 | 110.2 | 116.4 | 114.93 |
| 218038 | 'Amph' | 27.03 | 18.54 | 33.9 | 15 | 43.7 | 35.95 | 54.1 | 22.98 | 14.65 | 23.37 |
| 21804 | 'Tgfb1i1' | 8.83 | 0.03 | 2.35 | 0.95 | 7.82 | 4.1 | 11.5 | 1.31 | 4.39 | 4.88 |
| 21807 | 'Tsc22d1' | 454.9 | 440.7 | 505 | 828 | 430 | 470.6 | 673 | 613 | 360.8 | 429.45 |
| 21808 | 'Tgfb2' | 2.09 | 3.27 | 0.75 | 0.02 | 9.64 | 2.34 | 2.76 | 3.54 | 2.62 | 1.71 |
| 21809 | 'Tgfb3' | 2.98 | 0.62 | 0 | 0.78 | 2.83 | 6.01 | 1.55 | 3.71 | 1.44 | 0 |
| 21810 | 'Tgfb1' | 0.02 | 0.69 | 0 | 0.02 | 0 | 5.95 | 0 | 0 | 0 | 0 |
| 218100 | 'Zfp322a' | 6.57 | 4.81 | 2.97 | 3.35 | 6.6 | 1.91 | 6.74 | 7.92 | 4.9 | 5.89 |
| 21812 | 'Tgfbr1' | 0.41 | 0.08 | 0.33 | 2.59 | 1.19 | 3.02 | 1.6 | 0.19 | 2.03 | 0.05 |
| 218121 | 'Mboat1' | 0 | 0.77 | 0 | 0 | 1.66 | 4.5 | 0 | 0 | 0 | 0 |
| 21813 | 'Tgfbr2' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.15 | 0 |
| 218138 | 'Gmds' | 13.21 | 33.36 | 19.4 | 3.48 | 28.7 | 9.35 | 17.5 | 27.21 | 6.94 | 9.41 |
| 21814 | 'Tgfbr3' | 1.23 | 0.33 | 2.51 | 0 | 2.08 | 0.96 | 1.54 | 0.67 | 1.92 | 0.6 |
| 21815 | 'Tgif1' | 0 | 0 | 0 | 0 | 0 | 5.03 | 0 | 3.95 | 0 | 0 |
| 21817 | 'Tgm2' | 0 | 0 | 1.63 | 0 | 0 | 0.44 | 0 | 0.01 | 0 | 0.01 |
| 21818 | 'Tgm3' | 0 | 0.13 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0.02 | 0 |
| 218194 | 'Phactr1' | 18.81 | 27.83 | 16.5 | 29.9 | 25.6 | 26.23 | 16.5 | 23.4 | 9.14 | 28.55 |
| 218203 | 'Myli1' | 3.62 | 6.26 | 2.44 | 2.7 | 0.74 | 1.85 | 6.37 | 0.7 | 0.01 | 0.06 |
| 21821 | 'Ift88' | 3.54 | 5.48 | 7.82 | 4.1 | 9.65 | 7.72 | 14.4 | 5.71 | 9.43 | 9.05 |
| 218210 | 'Nup153' | 0.05 | 2.03 | 0.22 | 0.56 | 0.21 | 2.69 | 2.96 | 0.68 | 0.03 | 0.98 |
| 218214 | 'Kdm1b' | 0.06 | 1.79 | 1.42 | 0.16 | 0.68 | 0 | 1.61 | 0.37 | 1.25 | 0.09 |
| 218215 | 'Rnf144b' | 2.29 | 0.05 | 1.98 | 1.17 | 0.77 | 0.64 | 0.05 | 2.07 | 0.17 | 0.32 |
| 21823 | 'Th' | 52.1 | 157.9 | 4.08 | 263 | 5.95 | 0.1 | 0.2 | 0.07 | 55.1 | 0.12 |
| 218232 | 'Ptpdc1' | 1.33 | 11.58 | 1.91 | 16.4 | 5.98 | 5.11 | 4.42 | 4.6 | 5.9 | 2.84 |
| 218236 | 'Fam120a' | 8.14 | 11.56 | 5.92 | 11.9 | 8.47 | 2.08 | 5.67 | 7.24 | 10.18 | 11.28 |
| 21824 | 'Thbd' | 0 | 0 | 0 | 0 | 0 | 3.82 | 0 | 0 | 0.4 | 0 |
| 21825 | 'Thbs1' | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.82 |
| 21826 | 'Thbs2' | 0 | 1.08 | 0 | 0.02 | 0 | 0.03 | 0 | 0 | 7.74 | 5 |
| 21827 | 'Thbs3' | 6.48 | 5.23 | 3.76 | 4.69 | 3.87 | 0.21 | 11 | 3.87 | 4.95 | 0.37 |
| 218271 | 'B4galt7' | 25.72 | 16.73 | 22 | 16.9 | 20.8 | 7.17 | 28.1 | 20.16 | 12.79 | 16.77 |
| 21828 | 'Thbs4' | 18.57 | 0 | 0 | 2.95 | 0 | 0 | 0 | 0 | 0 | 0 |
| 218294 | 'Cdc14b' | 3.19 | 6.49 | 1.59 | 3.16 | 2.21 | 1.03 | 4.4 | 1.47 | 1.84 | 3.26 |
| 218304 | 'Prss47' | 0 | 0 | 0 | 2.14 | 0 | 0 | 0 | 0 | 0 | 0 |
| 218311 | 'Zfp455' | 1.74 | 4.31 | 2.29 | 0 | 0 | 0.02 | 0 | 0.01 | 0.19 | 0 |
| 218314 | 'Zfp595' | 0 | 0 | 0.04 | 0 | 1.83 | 0 | 0 | 0 | 0 | 0 |
| 21832 | 'Thpo' | 1.46 | 0 | 0 | 0.03 | 3.94 | 0 | 10.9 | 4.52 | 0.02 | 0.83 |
| 21833 | 'Thra' | 44.02 | 30.14 | 37.7 | 79.9 | 51.7 | 27.92 | 52.9 | 31.24 | 29.37 | 27.64 |
| 218333 | 'Ice1' | 1.08 | 1.96 | 1.52 | 3.95 | 4.42 | 4.68 | 2.99 | 1.22 | 3.67 | 1.96 |
| 218335 | 'Clptm1l' | 19.46 | 13.69 | 9.55 | 41.2 | 20.6 | 19.49 | 18.3 | 12.77 | 14.09 | 4.76 |
| 21834 | 'Thrb' | 5.74 | 4.65 | 5.3 | 4.93 | 3.09 | 3.86 | 8.03 | 1.52 | 1.98 | 4.85 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 218341 | 'Rfesd' | 4.3 | 12.78 | 10.5 | 5.83 | 13.9 | 18.37 | 9.32 | 15 | 12.43 | 9.66 |
| 218343 | 'Ttc37' | 1.35 | 1.17 | 2.72 | 0.63 | 0.05 | 0.52 | 0.91 | 0.99 | 2.86 | 0.59 |
| 21835 | 'Thrsp' | 15.48 | 13.68 | 0 | 0.05 | 1.7 | 40.78 | 33.5 | 4.69 | 23.61 | 40.29 |
| 21838 | 'Thy1' | 45.19 | 30.33 | 77.4 | 78.4 | 67.1 | 35.34 | 55.8 | 71.1 | 53.21 | 17.54 |
| 218397 | 'Rasa1' | 0.38 | 7.99 | 3.74 | 2.79 | 1.71 | 4.13 | 2.22 | 1.9 | 0.13 | 3.09 |
| 21841 | 'Tia1' | 26.06 | 36.04 | 32.5 | 11.4 | 30.6 | 26.72 | 30.3 | 32.79 | 40.91 | 40.91 |
| 21843 | 'Tial1' | 22.52 | 13.46 | 14.3 | 30.6 | 23.6 | 14.27 | 7.6 | 18.38 | 26.03 | 20.48 |
| 21844 | 'Tiam1' | 3.64 | 3.74 | 5.03 | 3.12 | 2.36 | 1.51 | 3.57 | 0.9 | 1.75 | 0.71 |
| 218440 | 'Ankrd34b' | 3.49 | 4.11 | 8.05 | 0.34 | 4 | 5.13 | 3.53 | 4.72 | 5.04 | 3.81 |
| 218441 | 'Zfyve16' | 4.62 | 4.15 | 3.44 | 3.45 | 2.73 | 4.78 | 5.81 | 5.05 | 3.79 | 2.63 |
| 218442 | 'Serinc5' | 4.39 | 2.77 | 10.6 | 0.19 | 0.17 | 0.24 | 6.15 | 4.41 | 0.15 | 0.09 |
| 218454 | 'Lhfp12' | 5.32 | 1.61 | 0.6 | 0 | 4.34 | 0.7 | 0.62 | 0 | 0.01 | 4.72 |
| 218460 | 'Wdr41' | 11.85 | 18.44 | 27.4 | 7.96 | 19 | 27.09 | 24.9 | 8.76 | 13.45 | 9.27 |
| 218461 | 'Pde8b' | 8.18 | 9.37 | 6.46 | 5.29 | 9.67 | 14.63 | 8.44 | 11.19 | 13.41 | 17.96 |
| 21847 | 'Klf10' | 4.22 | 1.93 | 2.37 | 11.6 | 3.81 | 0.13 | 0.02 | 2.57 | 0 | 2.28 |
| 218476 | 'Gcnt4' | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21848 | 'Trim24' | 0.03 | 0.12 | 1.58 | 3.27 | 0.34 | 0.05 | 3.44 | 0.7 | 0.51 | 0.61 |
| 21849 | 'Trim28' | 19.5 | 13.6 | 30 | 42.9 | 17.5 | 11.73 | 19 | 17.63 | 25.75 | 6.87 |
| 218490 | 'Btf3' | 165.9 | 208.5 | 254 | 158 | 158 | 201.6 | 236 | 156.6 | 148.4 | 190.72 |
| 218503 | 'Fcho2' | 2.47 | 0.89 | 0.53 | 0.09 | 0.03 | 0.66 | 1.62 | 0.82 | 0.83 | 2.45 |
| 218506 | 'Mrps27' | 36.13 | 24.83 | 26.7 | 14.8 | 24.5 | 27.22 | 34.4 | 30.78 | 40.9 | 43.61 |
| 218518 | 'Marveld2' | 2.54 | 0 | 0 | 6.17 | 0 | 0 | 0 | 0.43 | 1.69 | 4.57 |
| 21853 | 'Timeless' | 0.03 | 0.03 | 1.26 | 0.02 | 0.12 | 0.03 | 0.04 | 0.05 | 0.05 | 0.91 |
| 21854 | 'Timm17a' | 251.7 | 228.5 | 231 | 211 | 272 | 370.6 | 217 | 268.4 | 213.5 | 267.59 |
| 218543 | 'Srek1' | 21.95 | 28.73 | 13.7 | 24.7 | 22.2 | 24.23 | 20.8 | 22.74 | 22.78 | 22.3 |
| 218544 | 'Sgtb' | 11.29 | 16.46 | 21.9 | 22.1 | 16.2 | 10.89 | 20.2 | 10.56 | 37.21 | 14.7 |
| 21855 | 'Timm17b' | 34.3 | 76.4 | 52.5 | 17.5 | 57.9 | 37.13 | 26.3 | 41.74 | 51.15 | 57.83 |
| 21856 | 'Timm44' | 27.04 | 23.42 | 49.2 | 46 | 59.6 | 44.99 | 18.9 | 40.57 | 38.12 | 40.56 |
| 21858 | 'Timp2' | 62.25 | 47.17 | 46.5 | 55.4 | 67.1 | 51.76 | 107 | 37.1 | 65.2 | 50.77 |
| 21859 | 'Timp3' | 12.54 | 20.47 | 12.6 | 24.2 | 3.25 | 7.54 | 40.6 | 9.6 | 21.46 | 2.18 |
| 218613 | 'Mier3' | 3.49 | 3.01 | 3.42 | 3.68 | 1.99 | 0.5 | 2.02 | 1.25 | 1.46 | 3.34 |
| 218624 | 'Il31ra' | 0.2 | 0.17 | 0.23 | 0.25 | 0.16 | 0.13 | 0.13 | 0.08 | 0.19 | 0.18 |
| 218629 | 'Dhx29' | 6.46 | 4.82 | 3.66 | 4.62 | 5.54 | 5.59 | 5.32 | 6.61 | 7.02 | 9.74 |
| 218630 | 'Ccno' | 0 | 0 | 1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 218639 | 'Arl15' | 8.77 | 4.02 | 4.28 | 2.81 | 10.8 | 0.67 | 6.65 | 3.44 | 2.01 | 9.25 |
| 21869 | 'Nkx2-1' | 2.95 | 2.1 | 0.95 | 13.2 | 0.17 | 0.06 | 0 | 0.72 | 0.09 | 0.06 |
| 218693 | 'Paip1' | 76.19 | 65.26 | 46.7 | 54 | 73 | 51.28 | 63 | 69.34 | 76.99 | 82.09 |
| 218695 | 'Gm10044' | 0.76 | 0.75 | 0.31 | 1.41 | 0.04 | 0.01 | 0.62 | 0.47 | 0.82 | 0.45 |
| 218699 | 'Pxx' | 21.92 | 12.62 | 24.9 | 16.3 | 19.6 | 21.01 | 4.43 | 24.7 | 23.23 | 9.3 |
| 21871 | 'Atp6v0a2' | 6.36 | 6.51 | 16.9 | 13.8 | 3.83 | 3.22 | 8.43 | 8.5 | 15.16 | 4.62 |
| 21872 | 'Tjp1' | 1.09 | 0.8 | 1.86 | 3.06 | 0.97 | 1.63 | 0.78 | 1.11 | 1.29 | 0.53 |
| 21873 | 'Tjp2' | 3.29 | 1.31 | 1.52 | 6.72 | 1.21 | 1.05 | 1.18 | 0.04 | 0.28 | 0.01 |
| 218734 | '3830406C13Rik' | 13.09 | 15.62 | 10 | 18.7 | 19.3 | 10.53 | 16.7 | 19.29 | 22.07 | 15.79 |
| 218739 | 'Sntn' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.63 | 0 | 0 |
| 218756 | 'Slc4a7' | 4.88 | 1.39 | 4.23 | 5.98 | 2.44 | 0.39 | 0.3 | 5.42 | 7.71 | 4.26 |
| 218763 | 'Lrrc3b' | 25.67 | 10.28 | 17.3 | 20.4 | 33 | 46.43 | 24.3 | 33.45 | 27.96 | 9.51 |
| 21877 | 'Tk1' | 0 | 2.68 | 0 | 0 | 0.53 | 0 | 0 | 0.06 | 0 | 0 |
| 218772 | 'Rarb' | 1.05 | 0.8 | 3.41 | 0 | 0.05 | 0 | 0 | 3.95 | 0 | 0 |
| 218793 | 'Ube2e2' | 20.95 | 36.89 | 46.3 | 110 | 59.6 | 39.46 | 37.9 | 40.85 | 46.25 | 31.54 |
| 21881 | 'Tkt' | 93.21 | 106 | 142 | 68.7 | 74.9 | 131.6 | 105 | 128.6 | 103.7 | 153.55 |
| 218811 | 'Sec24c' | 15.9 | 12.78 | 16.7 | 0.23 | 13 | 7.89 | 17.3 | 20.2 | 7.51 | 12.35 |
| 218820 | 'Zfp503' | 0 | 0 | 0 | 0 | 0.14 | 0 | 0 | 0 | 0 | 0 |
| 218832 | 'Polr3a' | 8.97 | 4.69 | 6.79 | 6.85 | 8.87 | 4.74 | 3.48 | 2.04 | 6.06 | 11.21 |
| 21885 | 'Tle1' | 0.77 | 5.39 | 3.85 | 5.1 | 6.48 | 5.49 | 0 | 0.17 | 3.1 | 9.89 |
| 218850 | 'Fam208a' | 2.11 | 2.14 | 0.24 | 2.93 | 1.9 | 2.02 | 1.47 | 1.59 | 1.86 | 1.88 |
| 21886 | 'Tle2' | 1.26 | 13.36 | 18.8 | 10.1 | 4.18 | 0.31 | 12 | 17.33 | 19.45 | 0.02 |
| 218865 | 'Chdh' | 0 | 0.19 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0.4 |
| 21887 | 'Tle3' | 0.62 | 0.21 | 2.08 | 0.74 | 5.3 | 0.3 | 2.11 | 2.11 | 1.48 | 0.01 |

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|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 218877 | 'Sema3g' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.07 | 0 |
| 21888 | 'Tle4' | 11.71 | 13.96 | 5.31 | 2.13 | 9.27 | 12.38 | 4.66 | 3.22 | 14.83 | 14.63 |
| 218885 | 'Oxnad1' | 9.8 | 15.32 | 14 | 7.02 | 11.1 | 0.03 | 2.89 | 10.85 | 0 | 16.81 |
| 218914 | 'Wapl' | 4.76 | 7.36 | 3.41 | 11.7 | 7.98 | 4.67 | 3.99 | 6.16 | 5.77 | 4.49 |
| 21892 | 'Tll1' | 0 | 0.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21894 | 'Tln1' | 1.27 | 1.17 | 0.19 | 1.25 | 1.2 | 0.04 | 0.85 | 0.53 | 0.41 | 1.37 |
| 218952 | 'Fermt2' | 6.13 | 7.49 | 9.44 | 32.6 | 4.12 | 10.64 | 10.1 | 4.22 | 12.8 | 6.4 |
| 21897 | 'Tlr1' | 0.01 | 0 | 0 | 0.02 | 0.01 | 0.01 | 0.01 | 0 | 0 | 0 |
| 218973 | 'Wdhd1' | 1.58 | 1.47 | 0.05 | 7.22 | 0 | 2.23 | 2.38 | 2.54 | 0.12 | 0.09 |
| 218975 | 'Mapk1ip11' | 9.87 | 8.94 | 4.28 | 17 | 8.25 | 1.76 | 14.2 | 12.69 | 10.37 | 13.71 |
| 218977 | 'Dlgap5' | 0.03 | 0.02 | 1.27 | 0.04 | 0.92 | 0.06 | 0 | 0.01 | 0 | 0.22 |
| 218989 | 'Tmem260' | 2.74 | 2.26 | 3.2 | 5.99 | 2.64 | 1.91 | 0.12 | 1.39 | 1.57 | 1.38 |
| 219022 | 'Ttc5' | 32.35 | 27.32 | 23.7 | 64.4 | 65.3 | 82.8 | 53.6 | 67.44 | 35.3 | 44.2 |
| 219024 | 'Pip4p1' | 18.55 | 21.41 | 19.5 | 56.9 | 19 | 35.89 | 18.4 | 26.58 | 62.59 | 8.11 |
| 21907 | 'Nr2e1' | 0.5 | 0.06 | 0 | 2.61 | 0 | 3.44 | 0 | 1.29 | 0 | 2.73 |
| 219072 | 'Haus4' | 4.36 | 10.56 | 3.06 | 5.5 | 2.6 | 1.52 | 6.92 | 3.45 | 3.83 | 3.94 |
| 219094 | 'Khynyn' | 4.58 | 10.54 | 8.77 | 8.26 | 6.82 | 9.57 | 2.63 | 5.66 | 17.1 | 17.55 |
| 219103 | 'Cenpj' | 0.55 | 1.57 | 0.99 | 0 | 0.97 | 0 | 0 | 0.01 | 0 | 0 |
| 219105 | 'Zmym5' | 18.67 | 16.86 | 6.91 | 16.4 | 3.06 | 13.19 | 14.3 | 16.23 | 23.41 | 25 |
| 219114 | 'Ska3' | 0 | 3.86 | 1.24 | 0.13 | 0 | 2.58 | 0 | 0.02 | 0 | 1.12 |
| 21912 | 'Tspan7' | 1163 | 817.5 | 1200 | 1080 | 964 | 917.4 | 1702 | 1151 | 633.2 | 827.79 |
| 219131 | 'Phf11a' | 0 | 0 | 0 | 0 | 0.21 | 1.05 | 0 | 0 | 0 | 0 |
| 219132 | 'Phf11d' | 0.05 | 0.02 | 0.02 | 0 | 2.09 | 2.45 | 0.02 | 0 | 0 | 0.05 |
| 219134 | 'Shisa2' | 0.14 | 0 | 0 | 2.52 | 0 | 0 | 1.83 | 0 | 1.89 | 0 |
| 219135 | 'Mtmr6' | 66.86 | 57.84 | 42.8 | 39.5 | 56.3 | 19.72 | 59.1 | 63.39 | 56.12 | 80.37 |
| 219140 | 'Spata13' | 0.01 | 1.4 | 1.7 | 1.06 | 2.09 | 1.91 | 1.14 | 0.06 | 0.01 | 2.9 |
| 219148 | 'Fam167a' | 0 | 0.28 | 3.28 | 0.29 | 0.55 | 0 | 0 | 2 | 0.08 | 0 |
| 219149 | 'Xkr6' | 0.83 | 1.15 | 0.28 | 0 | 3.57 | 0.59 | 9.02 | 0.44 | 0.81 | 4.4 |
| 21915 | 'Dtymk' | 45.66 | 56.26 | 33.1 | 79.8 | 56.7 | 38.6 | 85.8 | 15.59 | 35.35 | 69.42 |
| 219150 | 'Hmbox1' | 1.45 | 0.18 | 2.31 | 10.4 | 0.97 | 1.55 | 4.33 | 3.37 | 4.83 | 1.89 |
| 219151 | 'Scara3' | 0.06 | 0 | 0 | 0 | 0.44 | 0 | 0 | 0 | 6.11 | 0 |
| 219158 | 'Ccar2' | 38.73 | 21.29 | 44.9 | 7.82 | 26.9 | 10.19 | 22.4 | 32.84 | 44.56 | 29.53 |
| 21916 | 'Tmod1' | 7.4 | 15.68 | 4.44 | 13.7 | 4.73 | 1.38 | 1.59 | 2.98 | 4.06 | 0.8 |
| 21917 | 'Tmpe' | 3.47 | 1.88 | 2.93 | 5.64 | 0.58 | 2.6 | 4.72 | 2.31 | 4.57 | 0.74 |
| 219170 | 'Fam216b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 |
| 219181 | 'Akap11' | 11.57 | 9.82 | 17.5 | 9.49 | 10.2 | 8.9 | 11.7 | 5.11 | 12.92 | 6.31 |
| 219189 | 'Vwa8' | 4.16 | 1.75 | 8.02 | 8.63 | 2.35 | 0.06 | 0.63 | 3.02 | 2.92 | 0.25 |
| 21922 | 'Clec3b' | 0 | 0.65 | 2.26 | 0 | 0.36 | 0 | 0 | 0 | 0 | 0 |
| 219228 | 'Pcdh17' | 23.49 | 20.99 | 21.4 | 19 | 6.55 | 13.62 | 11.3 | 35.82 | 23.64 | 28.03 |
| 21924 | 'Tnnc1' | 12.73 | 12.31 | 15.6 | 2.18 | 33.2 | 11.27 | 19.7 | 13.26 | 18.52 | 16.67 |
| 219249 | 'Tdrd3' | 6.32 | 0.98 | 0.66 | 0.59 | 5.81 | 3.35 | 8.12 | 5.96 | 0.59 | 0.58 |
| 219257 | 'Pcdh20' | 39.4 | 15.06 | 5.36 | 8.79 | 0.36 | 2.71 | 4.36 | 38.81 | 13.94 | 10.39 |
| 21926 | 'Tnf' | 2.42 | 0 | 0 | 0 | 0 | 64.14 | 6.11 | 0 | 0 | 0 |
| 21927 | 'Tnfaip1' | 15.14 | 19.94 | 21.1 | 25.9 | 8.23 | 32.99 | 9.04 | 24.92 | 17.6 | 22.92 |
| 21928 | 'Tnfaip2' | 0.02 | 0 | 0 | 0 | 0.94 | 0 | 0 | 0 | 0.05 | 0 |
| 21929 | 'Tnfaip3' | 0 | 0 | 0 | 0 | 0 | 0.6 | 0 | 1.35 | 0 | 0 |
| 21930 | 'Tnfaip6' | 6.15 | 17.21 | 3.79 | 20.4 | 0.34 | 7.76 | 0 | 2.96 | 0.08 | 0 |
| 21933 | 'Tnfrsf10b' | 1.7 | 2.27 | 3.44 | 3.29 | 2.87 | 3.13 | 4.37 | 1.4 | 3.27 | 1.82 |
| 21934 | 'Tnfrsf11a' | 0.47 | 0.01 | 0.04 | 0.01 | 0 | 0 | 0 | 0.02 | 0.01 | 0 |
| 21935 | 'Tnfrsf17' | 0 | 3.36 | 0 | 0 | 0 | 6.03 | 0 | 0 | 0 | 0 |
| 21936 | 'Tnfrsf18' | 0.85 | 1.09 | 0.35 | 2.31 | 1.08 | 2.82 | 0.97 | 0.1 | 0 | 1.31 |
| 21937 | 'Tnfrsf1a' | 3 | 0 | 3.52 | 0 | 0 | 0 | 0 | 3.03 | 0 | 2.33 |
| 21938 | 'Tnfrsf1b' | 1.13 | 2.27 | 4.54 | 0 | 0 | 1.24 | 0 | 0.82 | 0.02 | 0 |
| 21939 | 'Cd40' | 0 | 5.96 | 0 | 0 | 0 | 0 | 0 | 5.25 | 0 | 0 |
| 21940 | 'Cd27' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.26 | 0 | 0.17 |
| 21941 | 'Tnfrsf8' | 6.11 | 10.11 | 3.33 | 0 | 8.15 | 0 | 2.02 | 15.39 | 5.98 | 5.61 |
| 21942 | 'Tnfrsf9' | 1.3 | 0 | 0 | 0.03 | 0 | 6.82 | 0 | 0 | 0 | 0 |
| 21944 | 'Tnfrsf12' | 0.87 | 0 | 1.64 | 0 | 0 | 0 | 0 | 0 | 0 | 0.15 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 21945 | 'Dedd' | 19.42 | 16.03 | 17.7 | 16.9 | 11 | 25.52 | 16.1 | 15.14 | 14.79 | 8.62 |
| 21946 | 'Pglyrp1' | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0.44 | 0 | 2.23 |
| 21948 | 'Cd70' | 0 | 0.78 | 3 | 0 | 1.59 | 8.94 | 7.3 | 0.9 | 11.68 | 2.19 |
| 21950 | 'Tnfsf9' | 2.49 | 0 | 1.88 | 18.4 | 0 | 5.14 | 0 | 0 | 4.4 | 13.75 |
| 21951 | 'Tnks' | 1.18 | 0.61 | 1.53 | 5.4 | 0.35 | 0.82 | 0.36 | 0.53 | 2.19 | 0.42 |
| 21952 | 'Tnni1' | 0.61 | 0.23 | 0 | 0 | 2.29 | 1.12 | 0 | 0 | 0 | 0 |
| 21954 | 'Tnni3' | 5.37 | 0.92 | 18.3 | 4.33 | 4.39 | 5.78 | 5.99 | 2 | 5.67 | 9.84 |
| 21955 | 'Tnnt1' | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 1.21 | 0 | 0 |
| 21956 | 'Tnnt2' | 6.22 | 9.91 | 32.2 | 7.41 | 4.63 | 5.74 | 1.96 | 17.3 | 42.47 | 17.6 |
| 21960 | 'Tnr' | 4.55 | 2.33 | 8.72 | 7.65 | 5.22 | 1.67 | 1.35 | 6.44 | 12.59 | 6.66 |
| 21961 | 'Tns1' | 0.01 | 1.49 | 0.85 | 0.02 | 0.86 | 0.01 | 1.19 | 0.16 | 0.47 | 0.08 |
| 21968 | 'Tom1' | 8.74 | 26.51 | 43.6 | 12.4 | 34.4 | 30.24 | 45 | 41.18 | 46.09 | 39.92 |
| 21969 | 'Top1' | 16.67 | 19.74 | 12.1 | 24.1 | 16 | 9.22 | 12.3 | 10.92 | 15.29 | 12.43 |
| 21973 | 'Top2a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 21974 | 'Top2b' | 4.33 | 3.94 | 1.34 | 5.74 | 2.48 | 0.04 | 4.28 | 2.94 | 5.81 | 1.74 |
| 21975 | 'Top3a' | 1.3 | 0 | 0.41 | 0.03 | 4.58 | 2.49 | 0 | 0 | 4.76 | 10.24 |
| 21976 | 'Top3b' | 18.92 | 22.88 | 26.2 | 16.4 | 13.9 | 24.47 | 20.7 | 16.89 | 19.81 | 20.88 |
| 21981 | 'Ppp1r13b' | 6.61 | 4.11 | 3.87 | 4.55 | 4.19 | 7.23 | 4.03 | 2.64 | 3.38 | 3.96 |
| 21982 | 'Tmem165' | 3.31 | 1.88 | 4.23 | 0 | 6.49 | 0 | 13 | 2.74 | 1.63 | 0.88 |
| 21983 | 'Tpbg' | 0.88 | 2.8 | 0.01 | 1.89 | 0.76 | 3.82 | 0 | 1.75 | 4.07 | 1.39 |
| 21985 | 'Tpd52' | 32.77 | 38.37 | 24.9 | 80.8 | 45.3 | 31.27 | 13.5 | 24.78 | 51.47 | 22.5 |
| 21987 | 'Tpd5211' | 62.27 | 58.75 | 72.3 | 98.1 | 85.2 | 141.8 | 58.1 | 79.91 | 60.99 | 91.81 |
| 21991 | 'Tpi1' | 705.1 | 695.6 | 810 | 389 | 622 | 759.2 | 1059 | 773.1 | 542 | 549.94 |
| 22003 | 'Tpm1' | 76.26 | 69.18 | 78.2 | 54 | 46.6 | 61.82 | 76.2 | 71.59 | 58.8 | 46.62 |
| 22004 | 'Tpm2' | 0 | 0 | 0 | 0 | 1.31 | 0 | 0 | 0.07 | 0 | 0 |
| 22017 | 'Tpmt' | 8.86 | 2.93 | 2.31 | 2 | 3.03 | 7.73 | 5.39 | 6.17 | 0.18 | 2.67 |
| 22018 | 'Tpo' | 0 | 1.41 | 0.01 | 0.07 | 5.83 | 0.01 | 0 | 2.33 | 3.26 | 0.18 |
| 22019 | 'Tpp2' | 14.71 | 5.12 | 17.5 | 2.67 | 4.86 | 5.93 | 13.8 | 12.92 | 17.16 | 12.04 |
| 22021 | 'Tpst1' | 9.48 | 9.89 | 10.1 | 9.02 | 12.9 | 5.05 | 4.89 | 8.18 | 3.31 | 0.73 |
| 22022 | 'Tpst2' | 23.31 | 22.3 | 2.88 | 6.51 | 10.8 | 19.6 | 26.9 | 22.79 | 30.88 | 10.07 |
| 22025 | 'Nr2c1' | 4.75 | 0.26 | 1.9 | 0 | 2.35 | 0.03 | 0 | 2.94 | 4.75 | 4.19 |
| 22026 | 'Nr2c2' | 2.56 | 2.42 | 2.87 | 7.09 | 4.33 | 5.02 | 0.94 | 3.9 | 2.3 | 3.89 |
| 22027 | 'Hsp90b1' | 271.7 | 258.4 | 151 | 181 | 202 | 193.6 | 190 | 209 | 316.7 | 342.96 |
| 22029 | 'Traf1' | 0 | 0 | 0 | 1.27 | 3.19 | 0 | 0 | 0 | 3.57 | 0 |
| 22030 | 'Traf2' | 7.21 | 7.72 | 3.9 | 0 | 6.09 | 3.63 | 0.02 | 11.08 | 5.53 | 13.72 |
| 22031 | 'Traf3' | 2.26 | 2.51 | 1.53 | 4.51 | 6.78 | 3.27 | 0.76 | 0.01 | 3.02 | 2.55 |
| 22032 | 'Traf4' | 1.52 | 0.93 | 9.96 | 6.26 | 0.1 | 0.01 | 16.5 | 0.76 | 4.72 | 0 |
| 22034 | 'Traf6' | 0.04 | 0.7 | 2.3 | 3.13 | 1.97 | 0.01 | 0.91 | 0 | 2.05 | 2.33 |
| 22035 | 'Tnfsf10' | 0.19 | 0.42 | 0.4 | 0.39 | 0.14 | 0.34 | 0.91 | 0.16 | 1.73 | 0.44 |
| 22036 | 'Traip' | 14.98 | 12.44 | 7.28 | 5.77 | 13.4 | 30.2 | 22.9 | 18.84 | 2.73 | 12.83 |
| 22038 | 'Plscr1' | 1.51 | 7.54 | 0 | 21.4 | 4.65 | 4.29 | 0.03 | 7.22 | 12.34 | 7.44 |
| 22040 | 'Trex1' | 5.54 | 13.92 | 28.1 | 52.7 | 41.1 | 45.73 | 6.24 | 23.06 | 23.42 | 8.91 |
| 22041 | 'Trf' | 86.56 | 158 | 2.92 | 21.3 | 119 | 365.1 | 5.78 | 15.05 | 0.29 | 37.16 |
| 22042 | 'Tfrc' | 3.94 | 3.14 | 10.1 | 9.57 | 7.61 | 3.94 | 9.59 | 12.79 | 13.43 | 1.86 |
| 22044 | 'Trh' | 23.27 | 1782 | 5.16 | 0.38 | 4.19 | 41.18 | 910 | 4.77 | 1.26 | 240.48 |
| 22045 | 'Trhr' | 6.12 | 14.31 | 12.2 | 0 | 9.96 | 2.96 | 5.36 | 4.57 | 7.9 | 3.87 |
| 22051 | 'Trip6' | 0 | 0 | 1.7 | 0 | 0 | 0 | 0.06 | 2.38 | 0.17 | 3.61 |
| 22057 | 'Tob1' | 12.34 | 18.83 | 19.6 | 23.8 | 8.03 | 2.8 | 7.14 | 6.46 | 3.33 | 7.69 |
| 22059 | 'Trp53' | 14.11 | 19.46 | 21.3 | 32 | 12.2 | 10.37 | 25.5 | 25.9 | 23.46 | 12.94 |
| 22061 | 'Trp63' | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 1.22 |
| 22062 | 'Trp73' | 0 | 0 | 0 | 0 | 0 | 0.82 | 0 | 0 | 0 | 0 |
| 22063 | 'Trpc1' | 1.95 | 1.39 | 1.38 | 6.18 | 0.01 | 0 | 1.06 | 1.06 | 3.16 | 0.01 |
| 22065 | 'Trpc3' | 0 | 0.03 | 0.06 | 0 | 0 | 1.17 | 0 | 1.37 | 1.19 | 0.12 |
| 22066 | 'Trpc4' | 3.71 | 5.45 | 3.21 | 0.16 | 3.51 | 4.61 | 0.02 | 2.67 | 0 | 0 |
| 22067 | 'Trpc5' | 2.57 | 2.84 | 6.38 | 1.57 | 5.31 | 3.23 | 7.37 | 4.15 | 9.56 | 7.35 |
| 22068 | 'Trpc6' | 0.65 | 0.28 | 0.2 | 0.3 | 0.31 | 0.39 | 0.15 | 0.59 | 3.15 | 1.96 |
| 22070 | 'Tpt1' | 422.6 | 386 | 324 | 285 | 348 | 492 | 350 | 328.7 | 363.2 | 364.86 |
| 22083 | 'Ctr9' | 11.8 | 15.81 | 18.3 | 37.4 | 15.7 | 11.28 | 21 | 13.81 | 6.19 | 13.69 |

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|-------|----------|-------|-------|------|-------|------|-------|------|-------|-------|---------|
| 22084 | 'Tsc2' | 4.04 | 6.54 | 12.7 | 7.63 | 5.16 | 3.19 | 11.1 | 7.75 | 6.62 | 11.66 |
| 22088 | 'Tsg101' | 143 | 131.3 | 127 | 88.3 | 87.6 | 93.38 | 122 | 125 | 154.9 | 118.1 |
| 22092 | 'Rsph1' | 25.19 | 19.14 | 0.04 | 15.9 | 75.5 | 10.3 | 12.7 | 12.64 | 18.81 | 26.18 |
| 22094 | 'Tshb' | 6.25 | 7.05 | 9.74 | 11.8 | 11.5 | 8.42 | 7.89 | 5.45 | 9.64 | 6.48 |
| 22099 | 'Tsn' | 69.61 | 78.32 | 74.4 | 67.1 | 77.8 | 73.64 | 51 | 83.48 | 58.85 | 64.72 |
| 22110 | 'Tspyl1' | 140.2 | 169.5 | 132 | 90.4 | 123 | 73.58 | 88.2 | 115.5 | 125.6 | 91.23 |
| 22116 | 'Tsks' | 0.22 | 0 | 0.16 | 0 | 1.11 | 0 | 0.28 | 0 | 1.79 | 0 |
| 22117 | 'Tst' | 9.55 | 16.61 | 13.9 | 14.3 | 9.34 | 52.44 | 23.2 | 9.51 | 5.46 | 10.56 |
| 22121 | 'Rpl13a' | 227.3 | 238 | 217 | 364 | 286 | 233.4 | 183 | 144.1 | 130.5 | 192.39 |
| 22122 | 'Tsta3' | 40 | 44.22 | 58.2 | 38.2 | 46.1 | 56.17 | 91.8 | 42.77 | 58.11 | 60.2 |
| 22123 | 'Psmc3' | 43.89 | 46.33 | 87.2 | 44.9 | 46.1 | 37.23 | 59.6 | 34.67 | 43.94 | 10.67 |
| 22129 | 'Ttc3' | 212.6 | 213.4 | 250 | 188 | 185 | 140.4 | 251 | 186.5 | 263.6 | 203.4 |
| 22130 | 'Ttf1' | 3.62 | 4.27 | 3.33 | 5.51 | 5.7 | 5.62 | 5.5 | 3.06 | 4.77 | 4.31 |
| 22134 | 'Tgoln1' | 78.44 | 70.81 | 74.8 | 75.9 | 40.1 | 26.35 | 55 | 71.55 | 80.77 | 90.09 |
| 22137 | 'Ttk' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22138 | 'Ttn' | 0.03 | 0 | 0.26 | 0.11 | 0.02 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 |
| 22139 | 'Ttr' | 0 | 0 | 0 | 11.5 | 0 | 0 | 0 | 3.7 | 7.97 | 0.14 |
| 22141 | 'Tub' | 9.43 | 11.75 | 13.8 | 19.7 | 12.7 | 5.11 | 8.37 | 14.19 | 5.2 | 10.18 |
| 22142 | 'Tuba1a' | 1635 | 1632 | 2231 | 1538 | 1928 | 1981 | 1484 | 1896 | 1502 | 1901.53 |
| 22143 | 'Tuba1b' | 2256 | 1823 | 2086 | 1181 | 1897 | 2540 | 2464 | 2400 | 1982 | 2270.08 |
| 22145 | 'Tuba4a' | 191.8 | 165 | 318 | 106 | 163 | 304.8 | 209 | 216 | 156.2 | 188.42 |
| 22146 | 'Tuba1c' | 0.06 | 1.95 | 0.23 | 0.54 | 0.22 | 0.05 | 0.21 | 0.12 | 0.05 | 0.15 |
| 22151 | 'Tubb2a' | 872.3 | 700.4 | 817 | 504 | 879 | 942.2 | 800 | 878 | 593.1 | 680.74 |
| 22152 | 'Tubb3' | 209.1 | 191.1 | 376 | 143 | 313 | 352.9 | 239 | 288.6 | 107.5 | 182.08 |
| 22153 | 'Tubb4a' | 551.8 | 522.5 | 576 | 333 | 587 | 895.2 | 509 | 928.1 | 541.6 | 558.28 |
| 22154 | 'Tubb5' | 288.5 | 250.3 | 304 | 225 | 336 | 307.5 | 303 | 318.1 | 278 | 242.37 |
| 22156 | 'Tuft1' | 0 | 0.91 | 7.02 | 7.39 | 0 | 1.81 | 0 | 0 | 0 | 0.33 |
| 22158 | 'Tulp3' | 0.75 | 1.43 | 2.92 | 4.17 | 5.24 | 2.29 | 0.26 | 0.29 | 6.39 | 2.51 |
| 22166 | 'Txn1' | 160.4 | 219.4 | 200 | 211 | 158 | 273.5 | 162 | 177.6 | 200.9 | 216.22 |
| 22169 | 'Cmpk2' | 15.09 | 12.16 | 25.1 | 34.2 | 21.2 | 12.06 | 28.4 | 27.18 | 17.99 | 15.17 |
| 22171 | 'Tyms' | 16.04 | 18.09 | 22 | 29.5 | 23.6 | 23.44 | 20.5 | 14.45 | 30.7 | 18.18 |
| 22173 | 'Tyr' | 2.51 | 3.63 | 2.25 | 5.14 | 2.44 | 3.2 | 2.88 | 1.51 | 2.35 | 2.21 |
| 22174 | 'Tyro3' | 3.06 | 2.36 | 2.6 | 0 | 4.58 | 3.3 | 1.51 | 7.98 | 9.01 | 1.39 |
| 22177 | 'Tyrobp' | 25.29 | 22.48 | 21.6 | 44.1 | 55 | 205.2 | 42.4 | 13.24 | 14.17 | 38.92 |
| 22178 | 'Tyrp1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.12 |
| 22183 | 'Zrsr1' | 0.88 | 1.89 | 1.33 | 2.89 | 6.79 | 1.77 | 1.47 | 3.33 | 3.03 | 2.61 |
| 22184 | 'Zrsr2' | 11.08 | 15.4 | 17.9 | 16.4 | 12.5 | 15.92 | 24.6 | 13.22 | 6.55 | 16.95 |
| 22185 | 'U2af2' | 18.56 | 19.61 | 17.8 | 11.6 | 26.9 | 12.47 | 26.7 | 26.09 | 39.66 | 34.4 |
| 22186 | 'Uba52' | 334.8 | 377.1 | 399 | 386 | 304 | 441.6 | 511 | 242.6 | 306.2 | 288.06 |
| 22187 | 'Ubb' | 8536 | 8746 | 7058 | ##### | 9628 | 13192 | 7930 | 11020 | 10273 | 11620.2 |
| 22190 | 'Ubc' | 1270 | 1393 | 1572 | 1345 | 1109 | 1688 | 1400 | 1253 | 1036 | 1516.2 |
| 22192 | 'Ube2m' | 8.61 | 14.12 | 15.5 | 30.1 | 18.4 | 15.01 | 9.44 | 20.03 | 14.48 | 17.33 |
| 22193 | 'Ube2e3' | 64.19 | 46.09 | 35.5 | 42 | 52.4 | 71.77 | 37.7 | 46.64 | 102.5 | 52.66 |
| 22194 | 'Ube2e1' | 179.7 | 162.6 | 102 | 111 | 106 | 188.7 | 132 | 118.2 | 181.4 | 151.16 |
| 22195 | 'Ube2l3' | 120.1 | 117.3 | 108 | 115 | 71.7 | 116.2 | 86.1 | 97.21 | 126 | 104.92 |
| 22196 | 'Ube2l' | 149.8 | 146.7 | 101 | 97.3 | 112 | 142.8 | 178 | 137.1 | 179.2 | 156.12 |
| 22200 | 'Uba3' | 33.55 | 30.8 | 50 | 61 | 67.4 | 45.58 | 38.2 | 68.85 | 35.03 | 47.11 |
| 22201 | 'Uba1' | 89.27 | 105.1 | 123 | 71.4 | 65.6 | 47.41 | 82 | 74.09 | 85.72 | 83.58 |
| 22202 | 'Uba1y' | 0.24 | 0.11 | 0.45 | 0.57 | 0.46 | 0.35 | 0.33 | 2.66 | 0.23 | 0.24 |
| 22209 | 'Ube2a' | 48.63 | 41.47 | 38 | 17.3 | 36.1 | 32.72 | 14.2 | 47.89 | 17.11 | 29.39 |
| 22210 | 'Ube2b' | 191.7 | 278.6 | 158 | 265 | 149 | 194.2 | 179 | 179.4 | 147.5 | 158.17 |
| 22213 | 'Ube2g2' | 46.45 | 37.79 | 48.7 | 50.6 | 27.9 | 51.37 | 39.7 | 40.32 | 50.86 | 41.55 |
| 22214 | 'Ube2h' | 12.48 | 23.21 | 15.5 | 26 | 12.5 | 4.4 | 9.05 | 16.84 | 13.25 | 13.69 |
| 22215 | 'Ube3a' | 19.41 | 24.08 | 19.8 | 18 | 24.4 | 19.44 | 21.1 | 21.28 | 28.36 | 13.09 |
| 22217 | 'Usp12' | 1.28 | 1.62 | 1.99 | 1.03 | 5.21 | 3.45 | 3.64 | 1.68 | 3.06 | 1.38 |
| 22218 | 'Sumo1' | 283.8 | 328.4 | 200 | 363 | 275 | 260.9 | 388 | 275.1 | 266.8 | 301.6 |
| 22221 | 'Ubp1' | 6.64 | 9.89 | 5.55 | 24.5 | 5.81 | 10.71 | 12.4 | 4.28 | 2.69 | 6.24 |
| 22222 | 'Ubr1' | 8.31 | 8.14 | 5.71 | 5.33 | 6.96 | 1.55 | 19.1 | 16.69 | 11.52 | 16.88 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 22223 | 'Uchl1' | 1076 | 1067 | 1067 | 777 | 1138 | 1303 | 1088 | 891.4 | 615.4 | 1016.81 |
| 22224 | 'Usp10' | 31.54 | 33.43 | 29.2 | 31.1 | 23.5 | 15.01 | 55.3 | 24.18 | 38.18 | 27.45 |
| 22225 | 'Usp5' | 150.1 | 159.6 | 180 | 107 | 135 | 142.2 | 162 | 168.5 | 165.5 | 158.47 |
| 22227 | 'Ucp1' | 0 | 0 | 0 | 4.2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22228 | 'Ucp2' | 44.06 | 40.07 | 28.4 | 72.5 | 49 | 60.83 | 51.2 | 13.4 | 16.41 | 93.96 |
| 22229 | 'Ucp3' | 5.14 | 0 | 0.02 | 0 | 0 | 1.72 | 0 | 0 | 0 | 0 |
| 22230 | 'Ufd1' | 116.6 | 96.42 | 105 | 160 | 120 | 137.1 | 121 | 112.6 | 118.7 | 139.6 |
| 22232 | 'Slc35a2' | 31.94 | 25.42 | 15.9 | 58.6 | 25.8 | 33.41 | 25 | 24.74 | 38.02 | 36.34 |
| 22234 | 'Ugcg' | 3.38 | 4.91 | 6.48 | 6.55 | 8.05 | 0.87 | 4.42 | 4.27 | 2.15 | 4.91 |
| 22235 | 'Ugdh' | 15.48 | 2.77 | 24.9 | 21.3 | 2.97 | 4.01 | 18.6 | 13.94 | 18.65 | 6.79 |
| 22239 | 'Ugt8a' | 2.72 | 3.52 | 3.11 | 0 | 3.26 | 4.23 | 2.94 | 1.61 | 1.08 | 0 |
| 22240 | 'Dpysl3' | 20.21 | 12.87 | 18.6 | 7.57 | 16.6 | 20.89 | 22.8 | 16.11 | 12.34 | 7.61 |
| 22241 | 'Ulk1' | 8.09 | 10.19 | 7.38 | 14 | 7.63 | 7.26 | 18.2 | 9.45 | 5.95 | 8.49 |
| 22242 | 'Umod' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.3 | 0 |
| 22245 | 'Uck1' | 78.13 | 70.35 | 66.8 | 39.2 | 68.8 | 107.1 | 72.1 | 57.03 | 74.58 | 90.04 |
| 22247 | 'Umps' | 12.46 | 7.7 | 4.19 | 21.3 | 7.61 | 13.45 | 12.2 | 10.39 | 11.31 | 14.21 |
| 22248 | 'Unc119' | 16.03 | 3.14 | 16.3 | 7.46 | 6 | 34.73 | 21.6 | 14.84 | 9.3 | 6.7 |
| 22249 | 'Unc13b' | 1.51 | 1.44 | 0.04 | 1.61 | 2.34 | 0 | 0 | 0.66 | 0.01 | 1.2 |
| 22253 | 'Unc5c' | 3.68 | 3.83 | 5.62 | 3.12 | 1.28 | 0.91 | 3.41 | 2.22 | 1.94 | 0.88 |
| 22255 | 'Uncx' | 0.08 | 0.09 | 0 | 0 | 0.56 | 1.92 | 1.22 | 0 | 0 | 0 |
| 22256 | 'Ung' | 0.11 | 0.12 | 2.4 | 0.26 | 0.05 | 0 | 0 | 0 | 4.7 | 0 |
| 22258 | 'Usp4' | 40.5 | 33.31 | 24.3 | 57.1 | 26 | 8.75 | 35.7 | 29.56 | 57.58 | 33.57 |
| 22259 | 'Nr1h3' | 0 | 0 | 2.17 | 0 | 3.26 | 0 | 0 | 0 | 0 | 0 |
| 22260 | 'Nr1h2' | 16.07 | 17.49 | 24.5 | 11.5 | 20.4 | 24.96 | 26.9 | 18.11 | 13.63 | 19.02 |
| 22262 | 'Uox' | 2.95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22264 | 'Prap1' | 0 | 0.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.07 |
| 22268 | 'Upk1b' | 1.9 | 0 | 0 | 0 | 2.72 | 0 | 0 | 0 | 0 | 0 |
| 22269 | 'Upk2' | 3.55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22270 | 'Upk3a' | 0 | 8.8 | 4.52 | 11.4 | 13.7 | 0 | 0 | 0 | 17.71 | 18.85 |
| 22271 | 'Upp1' | 8.48 | 0 | 0 | 0 | 0 | 0 | 8.96 | 2.81 | 0.04 | 0 |
| 22272 | 'Uqcrq' | 182.3 | 140.6 | 167 | 199 | 171 | 268.1 | 158 | 154.7 | 177.2 | 128.68 |
| 22273 | 'Uqcrc1' | 481.9 | 373 | 669 | 547 | 531 | 751.7 | 704 | 568.1 | 555.8 | 585 |
| 22275 | 'Urod' | 45.32 | 64.13 | 43.9 | 44.8 | 57 | 55.14 | 56.5 | 59.98 | 82.51 | 27.75 |
| 22276 | 'Uros' | 54.53 | 49.55 | 29.9 | 11.9 | 37.8 | 68.34 | 38.4 | 54.36 | 47.1 | 70.53 |
| 22278 | 'Usf1' | 49.49 | 56.41 | 77 | 40.1 | 95.5 | 49.39 | 62.7 | 91.74 | 61.05 | 49.48 |
| 22282 | 'Usf2' | 5.29 | 5.21 | 14.3 | 0.02 | 6.32 | 2.1 | 19.5 | 3.45 | 4.48 | 2.97 |
| 22283 | 'Ush2a' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 22284 | 'Usp9x' | 15.74 | 11.53 | 9.32 | 12.8 | 16 | 10.25 | 9.48 | 14.11 | 10.48 | 14.61 |
| 22286 | 'Utf1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 |
| 22287 | 'Scgb1a1' | 0 | 0 | 4.39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22288 | 'Utrn' | 9.11 | 2.37 | 1.08 | 1.91 | 2.88 | 4.18 | 1.7 | 4.47 | 0 | 1.7 |
| 22289 | 'Kdm6a' | 0.36 | 1.11 | 1.03 | 1.43 | 1.19 | 0.19 | 2.23 | 0.88 | 3.8 | 6.51 |
| 22290 | 'Uty' | 3.54 | 3.7 | 0 | 0 | 0.14 | 0.43 | 3.7 | 2.76 | 2.36 | 6.36 |
| 22294 | 'Uxt' | 5.19 | 3.53 | 38.9 | 0.11 | 6.3 | 14.36 | 2.02 | 6.37 | 4.5 | 9.8 |
| 22295 | 'Cdh23' | 0.02 | 0 | 0 | 0.07 | 3.74 | 0.87 | 0 | 0 | 0.37 | 0 |
| 22305 | 'Vmn2r37' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 22313 | 'Vmn2r104' | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22317 | 'Vamp1' | 38.31 | 16.15 | 102 | 15.4 | 49.8 | 65.2 | 116 | 68.84 | 26.16 | 19.33 |
| 22318 | 'Vamp2' | 638.6 | 599.6 | 487 | 204 | 645 | 566.6 | 629 | 891 | 719.5 | 751.69 |
| 22319 | 'Vamp3' | 8.1 | 5.47 | 15.9 | 49.5 | 6.96 | 11.18 | 14.7 | 9.57 | 10.11 | 8.86 |
| 22320 | 'Vamp8' | 0.54 | 12.44 | 0 | 46 | 13.1 | 61.1 | 12.5 | 7.08 | 4.47 | 20.78 |
| 22321 | 'Vars' | 12.59 | 6.02 | 19.1 | 9.64 | 11.9 | 3.62 | 10.1 | 9.37 | 22.41 | 6.44 |
| 223227 | 'Sox21' | 0 | 0 | 0 | 0 | 0.12 | 0 | 0 | 0 | 0.01 | 0 |
| 22323 | 'Vasp' | 1.64 | 3.85 | 3.9 | 3.71 | 8.6 | 4.03 | 3.64 | 5.63 | 18.8 | 9.66 |
| 22324 | 'Vav1' | 0.04 | 0 | 0.01 | 0.03 | 0.02 | 1.41 | 3.84 | 0.03 | 0.02 | 0 |
| 22325 | 'Vav2' | 0 | 0.97 | 2.2 | 0 | 0.33 | 0.16 | 0 | 0.02 | 0 | 0.08 |
| 223254 | 'Farp1' | 1.91 | 3.38 | 7.25 | 10.1 | 3.24 | 4.74 | 0.11 | 2.41 | 5.78 | 3.67 |
| 223255 | 'Stk24' | 3.97 | 8.56 | 6.03 | 18.8 | 4.16 | 3.15 | 12.3 | 2.48 | 15.83 | 7.95 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 22326 | 'Vax1' | 0.79 | 0.39 | 0.71 | 0 | 2.24 | 0.57 | 0.91 | 0.44 | 0 | 1.64 |
| 223267 | 'Ggact' | 31.36 | 33.77 | 31.7 | 10.4 | 17.7 | 19.25 | 22 | 49.82 | 24.46 | 14.54 |
| 22327 | 'Vbp1' | 150.4 | 190.2 | 105 | 101 | 135 | 139.7 | 123 | 145.9 | 90.98 | 155.11 |
| 223272 | 'Itgbl1' | 0 | 0 | 0.51 | 1.1 | 0 | 0 | 0 | 0.6 | 2.64 | 0.33 |
| 22329 | 'Vcam1' | 7.12 | 0.54 | 2.13 | 2.75 | 1.45 | 10.46 | 0 | 2.61 | 0 | 0 |
| 22330 | 'Vcl' | 2.52 | 0.51 | 1.83 | 3.63 | 2.67 | 0 | 1.77 | 2.82 | 2.12 | 3.11 |
| 22333 | 'Vdac1' | 272.8 | 203.5 | 294 | 145 | 296 | 301.1 | 352 | 241.3 | 222 | 166.46 |
| 223332 | 'Ranbp3l' | 1.1 | 0.12 | 0.23 | 0.18 | 0.16 | 0.16 | 0.13 | 0.22 | 0.18 | 0.12 |
| 22334 | 'Vdac2' | 181.5 | 205.9 | 137 | 180 | 191 | 191.9 | 209 | 224.9 | 213.9 | 211.14 |
| 22335 | 'Vdac3' | 458.7 | 391.3 | 340 | 352 | 378 | 538.6 | 428 | 452.3 | 338.1 | 339.21 |
| 22337 | 'Vdr' | 0 | 0 | 0 | 0.41 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22339 | 'Vegfa' | 0.21 | 0.49 | 0.69 | 3.11 | 2.84 | 1.63 | 1.09 | 0.95 | 0.11 | 1.1 |
| 22340 | 'Vegfb' | 18.21 | 8.61 | 7.61 | 4.26 | 30.4 | 5.6 | 10.9 | 13.99 | 10.25 | 12.35 |
| 22341 | 'Vegfc' | 0 | 0.1 | 0.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22342 | 'Lin7b' | 124.8 | 69.67 | 139 | 216 | 102 | 147.2 | 69.7 | 103.4 | 102.5 | 91.77 |
| 22343 | 'Lin7c' | 17.86 | 14.94 | 12.1 | 11.4 | 11.6 | 1.09 | 14 | 8.7 | 14.13 | 22.43 |
| 223433 | 'Otulinl' | 2.92 | 3.45 | 1.79 | 0 | 9.54 | 2.86 | 0.02 | 4.84 | 0 | 1.31 |
| 223435 | 'Trio' | 0.85 | 1.2 | 0.25 | 2.11 | 1.38 | 0.34 | 0.54 | 1.61 | 1.01 | 1.67 |
| 22344 | 'Vezf1' | 6.24 | 6.78 | 12 | 9.13 | 5.19 | 6.07 | 8.58 | 4.82 | 3.96 | 4.8 |
| 223453 | 'Dap' | 1.9 | 3.52 | 3.72 | 7.65 | 6 | 24.32 | 0.72 | 0.03 | 24.1 | 12.32 |
| 223455 | 'March6' | 8.69 | 6.69 | 12.7 | 11.3 | 8.33 | 7.07 | 20.6 | 8.12 | 11.34 | 19.53 |
| 22346 | 'Vhl' | 26.09 | 10.15 | 11.7 | 31.6 | 14.6 | 28.03 | 14.1 | 12.25 | 29.28 | 6.47 |
| 223473 | 'Nipal2' | 5 | 3.1 | 4.64 | 7.56 | 6.3 | 1.22 | 8.02 | 12.07 | 4.18 | 3.65 |
| 22348 | 'Slc32a1' | 5.76 | 1.07 | 2.81 | 0.08 | 11.6 | 1.92 | 0.16 | 2.88 | 3.36 | 1.16 |
| 22349 | 'Vil1' | 0 | 0.05 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.23 | 0 |
| 223499 | 'Dcaf13' | 8.59 | 26.63 | 32.8 | 24.2 | 29.1 | 32.37 | 28.4 | 31.73 | 23.83 | 34.56 |
| 22350 | 'Ezr' | 12.02 | 6.54 | 0.09 | 18.2 | 13.3 | 3.23 | 2.07 | 0.05 | 0.59 | 2.15 |
| 22351 | 'Vill' | 0 | 2.02 | 0 | 0 | 7.64 | 0 | 0 | 4.53 | 3.51 | 0.02 |
| 223513 | 'Abra' | 0.03 | 0 | 0.08 | 0.03 | 0 | 0.03 | 0 | 0.05 | 0 | 0.02 |
| 22352 | 'Vim' | 3.96 | 0 | 0.13 | 0.03 | 32.8 | 0 | 3.29 | 1.56 | 0.42 | 7.71 |
| 223527 | 'Eny2' | 42.99 | 36.83 | 34.7 | 11.8 | 22.2 | 29.48 | 23.4 | 29.34 | 25.43 | 32.45 |
| 22353 | 'Vip' | 0 | 0 | 1.79 | 0 | 0 | 0.42 | 4.6 | 85.08 | 9.61 | 0.03 |
| 22354 | 'Vipr1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.21 | 0 |
| 22355 | 'Vipr2' | 4.43 | 0 | 0.1 | 0 | 0 | 1.75 | 0 | 0 | 0.03 | 0 |
| 22359 | 'Vldlr' | 6.15 | 12.78 | 13.2 | 7.09 | 8.79 | 3.59 | 3.76 | 5.36 | 4.96 | 3.98 |
| 223593 | 'Washc5' | 4.61 | 11.94 | 12 | 9.14 | 15.1 | 1.68 | 7.18 | 10.61 | 14.04 | 8.85 |
| 22360 | 'Nrsn1' | 471.1 | 279.2 | 223 | 424 | 256 | 234.3 | 298 | 387.9 | 147.9 | 236.03 |
| 223601 | 'Fam49b' | 26.36 | 16.71 | 28.9 | 20.9 | 22.2 | 14.41 | 30.6 | 26.05 | 33.17 | 21.38 |
| 223604 | 'Kcnk9' | 0.37 | 0 | 2.28 | 0.97 | 1.79 | 0.56 | 0.76 | 0.41 | 3.35 | 1.96 |
| 22361 | 'Vnn1' | 0 | 0 | 2.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 223626 | 'Them6' | 0 | 1.18 | 0.16 | 0 | 2.88 | 3.27 | 4.57 | 0.41 | 2.19 | 0.23 |
| 22364 | 'Vpreb3' | 0 | 0 | 0 | 0 | 0.97 | 0 | 0 | 0 | 0 | 1.88 |
| 223642 | 'Zc3h3' | 19.78 | 8.43 | 11.9 | 2.69 | 7.32 | 5.73 | 9.69 | 7.23 | 4.11 | 21.92 |
| 223646 | 'Naprt' | 4.66 | 5.56 | 6.23 | 19.5 | 4.92 | 11.95 | 6.22 | 1.85 | 7.79 | 0 |
| 223648 | 'Ccdc166' | 9.48 | 20.25 | 17.6 | 21.2 | 15.1 | 10.31 | 18.1 | 18.83 | 8.63 | 16.36 |
| 223649 | 'Nrbp2' | 18.37 | 8.47 | 5.52 | 23.8 | 27.4 | 4.89 | 7.34 | 3.16 | 4.19 | 2.6 |
| 22365 | 'Vps45' | 42.92 | 35.73 | 28 | 25.4 | 28.9 | 33.87 | 45.8 | 21.93 | 35.79 | 25.02 |
| 223650 | 'Eppk1' | 0.26 | 0.21 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0.08 |
| 223658 | 'Mroh1' | 5.44 | 4.19 | 12.4 | 8.04 | 15.1 | 3.55 | 10.2 | 6.09 | 9.32 | 9.02 |
| 223664 | 'Lrrc14' | 30.17 | 20.96 | 15.2 | 4.74 | 20 | 23.58 | 37.9 | 12.95 | 10.51 | 4.75 |
| 223665 | 'C030006K11Rik' | 3.9 | 2.71 | 9.5 | 0.38 | 18.8 | 9.07 | 12.1 | 4.14 | 4.83 | 5.07 |
| 223666 | 'Arhgap39' | 0.27 | 1.83 | 3.29 | 2.92 | 2.9 | 0.28 | 0.38 | 0.11 | 4.04 | 0.55 |
| 223669 | 'Zfp7' | 1.19 | 0.43 | 9.72 | 0 | 12.7 | 3.36 | 2.4 | 5.49 | 4.04 | 0.05 |
| 22367 | 'Vrk1' | 2.4 | 7.94 | 16.8 | 7.88 | 5.4 | 15.96 | 14.7 | 8.82 | 2.83 | 3.19 |
| 223672 | 'Apol9a' | 0 | 2.38 | 0.03 | 0 | 0 | 0 | 0 | 3.92 | 1.48 | 4.64 |
| 22368 | 'Trpv2' | 16.78 | 31.48 | 22.9 | 16.6 | 11.7 | 22.94 | 15.4 | 20.88 | 16.96 | 26.95 |
| 223690 | 'Ankrd54' | 37.42 | 31.82 | 31.5 | 61.2 | 17.3 | 13.65 | 40.9 | 19.56 | 33.69 | 13.32 |
| 223691 | 'Eif3l' | 38.84 | 74.89 | 60.9 | 63.9 | 61.6 | 58.27 | 67.3 | 84.38 | 57.62 | 87.28 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 223693 | 'Tmem184b' | 11.27 | 15.97 | 24.5 | 5.29 | 12.1 | 6.48 | 12.8 | 8.7 | 15.17 | 9.66 |
| 223696 | 'Tomm22' | 115.2 | 89.68 | 93.4 | 92 | 70.2 | 87.98 | 93 | 100.6 | 87.86 | 112.53 |
| 223697 | 'Sun2' | 1.74 | 1.17 | 0.09 | 0 | 0.21 | 1.37 | 0 | 0.06 | 0 | 0 |
| 22370 | 'Vtn' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 |
| 223701 | 'Mkl1' | 0.3 | 0.58 | 6.47 | 5.47 | 3.96 | 5.91 | 5.05 | 2.51 | 6.05 | 2.31 |
| 223722 | 'Mcat' | 1.98 | 4.71 | 5.02 | 0 | 2.22 | 4.94 | 0.26 | 9.71 | 9.78 | 0 |
| 223723 | 'Ttl12' | 10.2 | 3.87 | 7.77 | 1.15 | 4.64 | 5.91 | 6.82 | 5.19 | 7.58 | 12.04 |
| 223726 | 'Mpped1' | 16.8 | 2.96 | 4.09 | 6.73 | 20.9 | 8.51 | 24.6 | 5.52 | 0.03 | 29.95 |
| 223732 | 'Rtl6' | 17.71 | 12.93 | 18.5 | 3.12 | 16.5 | 6.07 | 15.6 | 17.44 | 13 | 20.87 |
| 223739 | '5031439G07Rik' | 12.2 | 13.4 | 12.4 | 1.83 | 29.8 | 22.82 | 14.2 | 20.14 | 7.01 | 9.08 |
| 22375 | 'Wars' | 57.24 | 57.16 | 80 | 9.79 | 64.5 | 43.1 | 66.2 | 66.49 | 35.44 | 37.39 |
| 223752 | 'Gramd4' | 1.82 | 2.15 | 0.8 | 7.43 | 0 | 5.68 | 0 | 0.75 | 0 | 0.45 |
| 223753 | 'Cerk' | 0.78 | 3.51 | 4.27 | 0.3 | 2.05 | 2.92 | 3.32 | 0.37 | 0.01 | 0.46 |
| 223754 | 'Tbc1d22a' | 11.81 | 5.89 | 6.73 | 6.07 | 9.59 | 5.41 | 3.44 | 5.65 | 4.68 | 7.62 |
| 22376 | 'Was' | 0.02 | 0 | 0 | 0.05 | 0.42 | 0 | 0 | 0 | 0.04 | 0 |
| 22377 | 'Wbp1' | 30.32 | 9.24 | 13.9 | 13.6 | 55.2 | 9.63 | 9.27 | 10.8 | 22.2 | 9.46 |
| 223770 | 'Brd1' | 6.04 | 4.63 | 5.59 | 5.87 | 8.17 | 3.19 | 3.11 | 4.24 | 5.37 | 7.22 |
| 223773 | 'Zbed4' | 0 | 0.97 | 2.2 | 1.89 | 0 | 0 | 5.87 | 1.54 | 2.67 | 0.01 |
| 223774 | 'Alg12' | 29.61 | 19.61 | 14 | 13.6 | 0 | 5.29 | 6.76 | 19.07 | 13.73 | 7.63 |
| 223775 | 'Pim3' | 20.75 | 44.5 | 33.3 | 67.1 | 11.6 | 20.18 | 33.6 | 10.62 | 25.31 | 7.5 |
| 223776 | 'Selenoo' | 5.43 | 2.23 | 10.3 | 15.3 | 7.04 | 0.96 | 4.8 | 4.76 | 4.53 | 0.67 |
| 22378 | 'Wbp2' | 308.5 | 347.6 | 420 | 283 | 375 | 408.6 | 375 | 349.3 | 449.7 | 292.23 |
| 22379 | 'Fmnl3' | 0 | 0 | 0.01 | 0 | 0 | 0.7 | 0.64 | 0.59 | 0 | 0.29 |
| 22380 | 'Wbp4' | 11.62 | 15.74 | 11.3 | 22.8 | 15.1 | 15.71 | 19.8 | 22.74 | 19.52 | 14.82 |
| 22381 | 'Tceal9' | 377.8 | 507.3 | 321 | 632 | 444 | 475 | 276 | 427.8 | 384.9 | 496.41 |
| 223827 | 'Gxylt1' | 0.57 | 0.85 | 0.03 | 4.94 | 0.58 | 0.36 | 1.54 | 0.49 | 0.6 | 0.99 |
| 223828 | 'Pphln1' | 23.93 | 9.81 | 6.8 | 28.6 | 7.38 | 1.67 | 12.3 | 15.78 | 25.4 | 14.03 |
| 223838 | 'Adamts20' | 2.12 | 0.02 | 0.17 | 0.94 | 0.01 | 0 | 0 | 0 | 0.82 | 0 |
| 22384 | 'Eif4h' | 207.9 | 217.1 | 224 | 173 | 173 | 212.7 | 272 | 199.4 | 191 | 190.16 |
| 223843 | 'Dbx2' | 12.34 | 4.58 | 1.12 | 4.75 | 0.02 | 0.02 | 4.51 | 3.05 | 1.69 | 1.57 |
| 22385 | 'Baz1b' | 7.61 | 10.9 | 8.81 | 15.6 | 7.66 | 4.86 | 5.21 | 5.05 | 6.16 | 4.99 |
| 223864 | 'Rapgef3' | 25.31 | 17 | 21.5 | 0.16 | 14.2 | 12.52 | 16.4 | 10.65 | 8.39 | 13.96 |
| 223870 | 'Senp1' | 0.24 | 1.99 | 1.32 | 9.43 | 3.27 | 2.34 | 2.17 | 1.63 | 0.33 | 2.41 |
| 22388 | 'Wdr1' | 149.6 | 151.2 | 193 | 81.6 | 117 | 96.74 | 181 | 175.2 | 212.3 | 142.9 |
| 223881 | 'Rnd1' | 31.12 | 20.12 | 23.3 | 33.4 | 24.4 | 35.18 | 32.8 | 28.22 | 12.15 | 9.71 |
| 22390 | 'Wee1' | 2.92 | 6.45 | 3.34 | 4.09 | 5.35 | 0.16 | 0.89 | 4.01 | 2.88 | 10.25 |
| 223915 | 'Krt73' | 1.04 | 2.09 | 2.57 | 9.38 | 0.02 | 0 | 0.02 | 0 | 0 | 0 |
| 223917 | 'Krt79' | 0 | 0 | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 |
| 223918 | 'Spryd3' | 77.93 | 69.67 | 96.1 | 51.7 | 96.2 | 57.41 | 111 | 119 | 170 | 134.93 |
| 223920 | 'Soat2' | 1.2 | 1.56 | 3.04 | 3.11 | 2.16 | 1.88 | 3.07 | 0.65 | 2.54 | 1.15 |
| 223921 | 'Aaas' | 29.71 | 10.79 | 14.1 | 0 | 12.9 | 26.11 | 13.8 | 15.8 | 20.56 | 10.19 |
| 223922 | 'Atf7' | 1.94 | 0.08 | 3.97 | 0.85 | 0.26 | 3.05 | 5.14 | 0.39 | 10.57 | 0.3 |
| 22393 | 'Wfs1' | 39.57 | 58.9 | 29.2 | 40.7 | 11.5 | 19.33 | 31.4 | 25.74 | 9.84 | 27.64 |
| 223970 | 'Rmi2' | 0.17 | 0.14 | 0.16 | 0.34 | 0.48 | 0.11 | 0.22 | 2.14 | 0.25 | 0.2 |
| 223978 | 'Cpped1' | 7.84 | 6.88 | 10.4 | 0.83 | 0.83 | 7.89 | 0.21 | 3.8 | 18.84 | 5.42 |
| 223989 | 'Marf1' | 37.38 | 25.6 | 16.7 | 12.3 | 41.3 | 29.65 | 22.8 | 46.46 | 50.51 | 41.38 |
| 224008 | 'Spidr' | 0.34 | 0.63 | 1.72 | 0.2 | 0 | 0.63 | 0 | 0 | 0 | 0 |
| 22401 | 'Zmat3' | 2.09 | 3.54 | 3.47 | 4.34 | 5.66 | 0.21 | 5.23 | 1.69 | 2.3 | 1.87 |
| 224014 | 'Fgd4' | 6.87 | 5.83 | 4.24 | 5.33 | 4.99 | 0.48 | 1.75 | 0.82 | 4.96 | 4.07 |
| 224019 | 'Tmem191c' | 63.63 | 51.49 | 62.9 | 77.9 | 84.7 | 88.66 | 43.6 | 62.43 | 60.85 | 54.72 |
| 22402 | 'Wisp1' | 0 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 224020 | 'Pi4ka' | 10.67 | 8.22 | 7.07 | 32.1 | 13.2 | 16.85 | 4.73 | 10.18 | 12.72 | 11.4 |
| 224022 | 'Slc7a4' | 79.24 | 83.24 | 40.8 | 32 | 69.8 | 86.34 | 79.4 | 68.98 | 60.39 | 101.53 |
| 224023 | 'Klhl22' | 54.62 | 45.38 | 46.2 | 43.2 | 33.5 | 18.02 | 92.6 | 62.03 | 73.9 | 46.5 |
| 224024 | 'Scarf2' | 0.01 | 0.01 | 0.23 | 1.6 | 0.5 | 0 | 0 | 0 | 1.26 | 0 |
| 22404 | 'Wiz' | 0.43 | 1.17 | 1.88 | 0.27 | 3.11 | 0.01 | 7.98 | 1.26 | 4.86 | 2.03 |
| 224045 | 'Eif2b5' | 2.47 | 4.65 | 16.1 | 13.8 | 7.93 | 7.27 | 3.37 | 7.85 | 31.41 | 1.62 |
| 224055 | 'Rtp2' | 0 | 2.17 | 0 | 0 | 5.01 | 0 | 0 | 1.79 | 0 | 2.38 |

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|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 224079 | 'Atp13a4' | 5.37 | 3.38 | 3.35 | 0 | 0 | 0 | 5.51 | 1.23 | 5.56 | 0 |
| 22408 | 'Wnt1' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 224088 | 'Atp13a3' | 0.23 | 1.25 | 0.2 | 3.67 | 1.27 | 0.62 | 1.41 | 0.68 | 0.71 | 0.93 |
| 22409 | 'Wnt10a' | 1.55 | 0 | 0 | 0 | 0 | 0 | 0 | 2.23 | 0 | 0 |
| 224090 | 'Tmem44' | 4.43 | 2.08 | 4.44 | 6.3 | 3.34 | 4.8 | 7.76 | 4.13 | 2.13 | 0 |
| 224092 | 'Lsg1' | 12.76 | 22.01 | 18.6 | 3.9 | 29.4 | 10.11 | 14.9 | 23.47 | 7.08 | 12.3 |
| 224093 | 'Fam43a' | 3.23 | 1.52 | 4.06 | 2.2 | 0 | 0 | 0 | 1.93 | 0.03 | 0 |
| 224105 | 'Pak2' | 4.98 | 5.74 | 8.1 | 6.09 | 4.18 | 2.33 | 2.89 | 1.39 | 4.77 | 8.73 |
| 224109 | 'Nrros' | 2.74 | 2.21 | 0.02 | 10.8 | 0 | 0 | 0 | 0 | 0 | 2.41 |
| 224111 | 'Ubxn7' | 2.49 | 3.23 | 3.93 | 0.61 | 1.56 | 0.61 | 5.04 | 4.33 | 5.04 | 7.81 |
| 224116 | 'Muc20' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 224129 | 'Adcy5' | 4.44 | 3.25 | 6.23 | 0.5 | 2.52 | 4.96 | 1.85 | 0.92 | 3.57 | 2.35 |
| 22413 | 'Wnt2' | 0 | 1.29 | 0 | 0 | 1.49 | 0 | 0 | 0.15 | 0 | 0 |
| 224132 | 'Dirc2' | 1.88 | 2.01 | 2.6 | 9.14 | 0.11 | 0.46 | 0.02 | 2.9 | 1.7 | 2.66 |
| 224139 | 'Golgb1' | 9.14 | 9.86 | 8.09 | 12.7 | 10.4 | 10.04 | 10 | 6.54 | 9.04 | 11.44 |
| 22414 | 'Wnt2b' | 0.19 | 0 | 0.01 | 0 | 0.05 | 0 | 0 | 0.23 | 0 | 0 |
| 224143 | 'Poglut1' | 58.96 | 54.34 | 81.3 | 50.7 | 46.9 | 51.18 | 76.8 | 43.93 | 103.8 | 49.42 |
| 22415 | 'Wnt3' | 0 | 0.09 | 1.81 | 2.57 | 3.78 | 9.87 | 11 | 0.71 | 0.08 | 7.58 |
| 22417 | 'Wnt4' | 4.42 | 4.47 | 0.73 | 0.15 | 0.29 | 4.1 | 0.12 | 3.45 | 2.23 | 2.01 |
| 224170 | 'Dzip3' | 32.8 | 20.52 | 18.9 | 20.9 | 17.6 | 18.27 | 25.4 | 26.62 | 19.06 | 27.66 |
| 224171 | 'Cip2a' | 1.84 | 0 | 0.02 | 0.46 | 0 | 0 | 0 | 0.43 | 0.02 | 0 |
| 22418 | 'Wnt5a' | 0 | 2.1 | 0.03 | 0 | 3.2 | 0 | 0 | 0 | 0 | 1.18 |
| 22419 | 'Wnt5b' | 1.79 | 0 | 0 | 0 | 8.44 | 0 | 4.56 | 0.02 | 0 | 5.43 |
| 22420 | 'Wnt6' | 0 | 0.44 | 0 | 0 | 0 | 0 | 1.11 | 0 | 0 | 0.04 |
| 22421 | 'Wnt7a' | 0.41 | 2.65 | 3.82 | 11.2 | 0 | 0 | 1.78 | 1.3 | 0 | 0 |
| 22422 | 'Wnt7b' | 0 | 3.14 | 4.76 | 3.58 | 0.01 | 4.69 | 4.51 | 2.43 | 3.47 | 2.41 |
| 224224 | 'Impg2' | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0.06 | 1.21 |
| 224250 | 'Cldnd1' | 52.3 | 61.3 | 47.7 | 54.6 | 86.4 | 111.9 | 72.4 | 76.15 | 59.54 | 72.58 |
| 22427 | 'Wrn' | 0.66 | 2.03 | 0.83 | 0 | 0.02 | 2.2 | 1.47 | 1.34 | 0.76 | 2.59 |
| 224273 | 'Crybg3' | 0.53 | 0.67 | 0.62 | 0 | 0.53 | 0.06 | 0 | 0.43 | 0.32 | 0.39 |
| 22428 | 'Dctn6' | 124.9 | 117.4 | 148 | 116 | 182 | 173.7 | 127 | 164.9 | 101.4 | 139.24 |
| 22433 | 'Xbp1' | 121.2 | 124.5 | 98.3 | 156 | 128 | 155.7 | 135 | 83.88 | 200.1 | 83.91 |
| 224344 | 'Rbm11' | 5.74 | 2.8 | 10.7 | 0.02 | 5.03 | 18.85 | 5.76 | 9.7 | 4.95 | 5.96 |
| 22437 | 'Xirp1' | 0 | 0 | 0.03 | 0.01 | 0 | 0.01 | 0.01 | 0 | 0 | 0.01 |
| 22439 | 'Xk' | 4.59 | 0.22 | 3.12 | 0 | 0.41 | 0 | 4.95 | 1.69 | 1.53 | 3.24 |
| 224405 | 'Cyr1' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22441 | 'Xlr' | 0 | 0.06 | 0 | 0.21 | 0 | 5.94 | 0 | 1.96 | 0 | 0 |
| 224432 | 'Scaf4' | 3.72 | 2.9 | 5.51 | 6.17 | 1.96 | 2.73 | 4.34 | 3.02 | 2.1 | 2.81 |
| 224440 | 'Setd4' | 10.07 | 7.4 | 3.06 | 2.39 | 6.83 | 1.39 | 3.51 | 6.49 | 3.84 | 4.61 |
| 22445 | 'Xlr3a' | 5.64 | 23.73 | 7.59 | 0 | 5.19 | 0 | 17.4 | 5.39 | 0.04 | 0 |
| 224454 | 'Zdhhc14' | 10.06 | 12.43 | 2.61 | 16.9 | 4.21 | 7.51 | 11.8 | 8.7 | 3.94 | 7.65 |
| 22446 | 'Xlr3c' | 0.11 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0.05 |
| 224480 | 'Nox3' | 0 | 0 | 0 | 0 | 0.41 | 0 | 0 | 0 | 0 | 0 |
| 224481 | 'Tfb1m' | 7.45 | 6.22 | 4.49 | 18.1 | 24.9 | 8.6 | 6.12 | 2.03 | 4.44 | 18.02 |
| 224530 | 'Acat3' | 2.87 | 0.14 | 0.07 | 0.05 | 2.61 | 0 | 0.02 | 0.03 | 0 | 0.98 |
| 224576 | 'Vmn2r106' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.11 |
| 224585 | 'Zfp160' | 2.07 | 3.43 | 2.06 | 0 | 1.82 | 2.9 | 9.4 | 3.34 | 8.23 | 6.21 |
| 224598 | 'Zfp758' | 4.22 | 3.63 | 2.96 | 0.19 | 1 | 2.79 | 3.64 | 1.31 | 2.81 | 0 |
| 224613 | 'Flywch1' | 247.5 | 210 | 297 | 178 | 201 | 256.2 | 288 | 196.1 | 287.5 | 178.78 |
| 224617 | 'Tbc1d24' | 3.2 | 2.96 | 2.75 | 3.92 | 4.25 | 1.62 | 1.53 | 3.36 | 3.89 | 1.95 |
| 224619 | 'Traf7' | 14.86 | 14.01 | 20.3 | 12.3 | 14.3 | 5.27 | 23.1 | 11.72 | 10.43 | 7.7 |
| 224624 | 'Rab40c' | 0.09 | 2.79 | 4.23 | 8.6 | 0.42 | 13.82 | 5.62 | 0.02 | 4.29 | 5.52 |
| 224630 | 'Bnip1' | 41.98 | 20.23 | 27.1 | 28 | 17.3 | 46.61 | 50.2 | 34.02 | 15.74 | 26.76 |
| 224640 | 'Lemd2' | 4.08 | 1.38 | 4.86 | 0 | 7.37 | 3.02 | 2.03 | 2.19 | 4.53 | 1.84 |
| 224647 | 'D17Wsu92e' | 9.05 | 6.4 | 6.26 | 8.27 | 6.15 | 11.2 | 3.15 | 8.04 | 8 | 7 |
| 224648 | 'Uhrf1bp1' | 1.22 | 0.53 | 0 | 0.38 | 2.74 | 3.28 | 0.04 | 1.51 | 1.74 | 0.41 |
| 224650 | 'Anks1' | 2.72 | 0.74 | 2.48 | 0.54 | 1.58 | 1.53 | 4.88 | 2.97 | 0.06 | 0.54 |
| 224656 | 'Zfp523' | 16.58 | 9.83 | 17.7 | 17 | 25 | 13.01 | 17.7 | 5.88 | 18.21 | 11.47 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 224661 | 'Slc26a8' | 0.04 | 0.43 | 0.7 | 7.15 | 0.43 | 0 | 0 | 0 | 0 | 0.72 |
| 224671 | 'Btbd9' | 10.14 | 8.48 | 13.1 | 18.8 | 13.3 | 9.77 | 20 | 9.11 | 10.33 | 7.7 |
| 224674 | 'Slc37a1' | 1.91 | 5.73 | 5.04 | 0 | 3.67 | 3.94 | 0.05 | 2.49 | 10.16 | 15.1 |
| 224691 | 'Zfp472' | 0.24 | 0 | 3.36 | 0 | 0 | 0 | 0 | 0.72 | 3.53 | 4.67 |
| 224694 | 'Zfp81' | 3.3 | 6.43 | 6.97 | 3.13 | 8.22 | 0.61 | 0.02 | 1.28 | 1.2 | 0.09 |
| 224697 | 'Adamts10' | 4.6 | 3.05 | 14.8 | 4.25 | 7.19 | 2.72 | 7.08 | 3.17 | 11.05 | 17.98 |
| 224703 | 'March2' | 14.57 | 7.95 | 8.68 | 19.7 | 24.7 | 9.03 | 13.9 | 17.66 | 9.63 | 5.67 |
| 224705 | 'Vps52' | 13.96 | 13.81 | 19.8 | 11.9 | 27.8 | 19.15 | 21.8 | 33.79 | 31.47 | 13.7 |
| 224727 | 'Bag6' | 13.46 | 12.75 | 8.53 | 6.4 | 10.7 | 12.08 | 8.77 | 16.31 | 23.81 | 11.88 |
| 224742 | 'Abcf1' | 21.6 | 21.22 | 20.2 | 45.9 | 28 | 25.22 | 36.4 | 24.6 | 21.59 | 23.94 |
| 224792 | 'Adgrf5' | 0.01 | 0.67 | 0 | 0 | 0.2 | 1.32 | 0 | 0 | 0 | 0.61 |
| 224794 | 'Enpp4' | 4.96 | 3.91 | 1.1 | 9.72 | 2.84 | 2.45 | 2.54 | 5.88 | 2.32 | 5.96 |
| 224796 | 'Clic5' | 0.01 | 0 | 0.02 | 0 | 0.56 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 |
| 224805 | 'Aars2' | 8.02 | 8.27 | 11.1 | 0.07 | 1.86 | 7.21 | 9.07 | 7.08 | 10.07 | 8.56 |
| 224807 | 'Tmem63b' | 25.77 | 18.56 | 29.7 | 5.52 | 24.9 | 15.51 | 28.5 | 13.3 | 14.47 | 17.27 |
| 224813 | 'Lrrc73' | 6.26 | 3.67 | 4.84 | 26.5 | 3.69 | 8.71 | 4.49 | 1.41 | 9.03 | 2.41 |
| 224814 | 'Abcc10' | 3.55 | 3.52 | 9.85 | 9.55 | 3.39 | 4.41 | 6.5 | 3.98 | 6.58 | 2.06 |
| 224823 | 'Rrp36' | 26.25 | 34.39 | 20.5 | 33.6 | 35.2 | 44.26 | 31.6 | 41.74 | 13.38 | 41.64 |
| 224824 | 'Pex6' | 3.9 | 10.8 | 3.45 | 6.18 | 2.95 | 3.44 | 7.85 | 0.01 | 5.2 | 2.54 |
| 224826 | 'Ubr2' | 1.38 | 5.66 | 3.49 | 7.47 | 2.78 | 3.45 | 2.72 | 1.75 | 8.56 | 3.22 |
| 224829 | 'Tref1' | 1.39 | 2.66 | 4.68 | 0.88 | 3.28 | 1.48 | 7.73 | 2.17 | 0.97 | 2.26 |
| 224836 | 'Usp49' | 1.66 | 0.23 | 0.33 | 1.24 | 0.6 | 0.91 | 1.54 | 0.46 | 1.22 | 2.16 |
| 224840 | 'Trem14' | 0.02 | 0 | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 |
| 224860 | 'Plcl2' | 5.66 | 0.88 | 0.3 | 0.5 | 1.6 | 1.93 | 4.25 | 3.79 | 7.14 | 1.3 |
| 224893 | 'Zfp959' | 0.44 | 0.97 | 0.12 | 12.2 | 0.94 | 0.74 | 4.39 | 4.29 | 4.85 | 6.25 |
| 224897 | 'Dpp9' | 11.88 | 4.8 | 9.15 | 7.1 | 5.79 | 8.94 | 11.2 | 7.12 | 15.07 | 10.52 |
| 224902 | 'Safb2' | 23.98 | 15.46 | 16.4 | 33.3 | 30.9 | 16.26 | 25.5 | 8.95 | 19.22 | 17.89 |
| 224903 | 'Safb' | 36.89 | 47.99 | 37.2 | 34.1 | 43.8 | 41.47 | 56.9 | 34 | 40.48 | 47.55 |
| 224904 | '2410015M20Rik' | 233.7 | 242.2 | 220 | 276 | 224 | 344.9 | 248 | 188.4 | 221.6 | 228.64 |
| 224907 | 'Dus3l' | 52.79 | 44.37 | 44 | 2.74 | 83.1 | 72.26 | 72.5 | 57.68 | 36.23 | 48.58 |
| 224912 | 'Crb3' | 0 | 2.05 | 0 | 0 | 7.76 | 1.88 | 1.36 | 0 | 0.66 | 0 |
| 224916 | 'Vmn2r120' | 0 | 0.02 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 |
| 224938 | 'Pja2' | 160.6 | 151.9 | 142 | 98 | 141 | 78.35 | 137 | 167.7 | 168.5 | 182.44 |
| 224997 | 'Dlga1' | 18.19 | 28.08 | 14.4 | 14.2 | 16.2 | 6.73 | 15.1 | 9.75 | 5.37 | 8.34 |
| 225010 | 'Lclat1' | 10.34 | 3.81 | 5.62 | 0.54 | 3.64 | 1.47 | 6.37 | 5.4 | 7.81 | 2.77 |
| 225020 | 'Fez2' | 20.97 | 34.43 | 34.3 | 58.9 | 26.6 | 21.87 | 44.9 | 22.82 | 14.48 | 19.05 |
| 225027 | 'Srsf7' | 135.5 | 134.3 | 104 | 80.5 | 116 | 114.6 | 120 | 122.1 | 137 | 173.69 |
| 225028 | 'Map4k3' | 4.42 | 4.28 | 1.23 | 0.01 | 1.03 | 0.37 | 3.39 | 4.8 | 0.51 | 3.2 |
| 225049 | 'Ttc7' | 0.22 | 0 | 0.72 | 1.67 | 0.25 | 0.37 | 0.84 | 0 | 2.5 | 2.04 |
| 225055 | 'Fbxo11' | 12.91 | 8.31 | 7.2 | 14.2 | 14.1 | 11 | 16.6 | 12.59 | 10.63 | 15.61 |
| 225115 | 'Svil' | 0 | 0.35 | 0.44 | 0.96 | 0.02 | 0 | 0.79 | 1.45 | 0.72 | 0.17 |
| 225131 | 'Wac' | 18.02 | 15.43 | 20.7 | 16.4 | 15.1 | 15.3 | 23.2 | 13.97 | 22.71 | 21.67 |
| 225160 | 'Thoc1' | 15.94 | 20.05 | 25 | 13.5 | 15.2 | 16.07 | 4.59 | 17.68 | 13.47 | 22.2 |
| 225164 | 'Mib1' | 3.21 | 3.21 | 2.76 | 4.76 | 2.85 | 1.79 | 1.06 | 3.86 | 3.04 | 2.54 |
| 225182 | 'Rbbp8' | 1.5 | 1.35 | 0.67 | 1.96 | 0.06 | 1 | 2.9 | 1.7 | 2.03 | 1.67 |
| 225187 | 'Ankrd29' | 2.04 | 0.2 | 11.5 | 1.86 | 0.82 | 7.65 | 4.07 | 5.03 | 6.97 | 3.68 |
| 225192 | 'Hrh4' | 0 | 0 | 2.06 | 0 | 0 | 0 | 0 | 0 | 0.56 | 0 |
| 225207 | 'Zfp521' | 3.9 | 2.94 | 0.15 | 0.02 | 7.76 | 2.5 | 11.7 | 0.2 | 2.63 | 9.29 |
| 225215 | 'Rsl24d1' | 41.8 | 51.21 | 28.8 | 73.5 | 72.9 | 87.43 | 72.6 | 53.46 | 52.32 | 51.27 |
| 225266 | 'Klhl14' | 0.06 | 0 | 2.3 | 0 | 0 | 0 | 0 | 0 | 0 | 1.91 |
| 225280 | 'Ino80c' | 13.7 | 4.67 | 25.4 | 22.7 | 10.5 | 20.44 | 27.3 | 18.53 | 15.67 | 12.28 |
| 225283 | 'Rprd1a' | 10.72 | 7.11 | 8.37 | 37.3 | 12.6 | 10.72 | 12.2 | 11.96 | 9.1 | 21.67 |
| 225288 | 'Fhod3' | 1.46 | 0.57 | 1.45 | 5.63 | 0.55 | 0.18 | 3.06 | 0.65 | 0.47 | 0.27 |
| 225289 | 'AW554918' | 1.01 | 0.03 | 1.61 | 0.21 | 0.01 | 2.63 | 0.03 | 1.18 | 2.49 | 0.77 |
| 225326 | 'Pik3c3' | 14.91 | 15.6 | 10.5 | 13.8 | 15.1 | 11.3 | 16.1 | 12.66 | 16.77 | 19.74 |
| 225339 | 'Ammecr1l' | 12 | 4.22 | 5.6 | 13.9 | 7.94 | 5.94 | 3.02 | 10.22 | 8.68 | 9.34 |
| 225341 | 'Lims2' | 4.05 | 2.24 | 23.7 | 8.24 | 15.4 | 6.07 | 28.2 | 4.55 | 0 | 0.05 |
| 225348 | 'Wdr36' | 13.38 | 13.47 | 13.4 | 3.77 | 5.38 | 9.68 | 12.7 | 21.47 | 5.5 | 19.89 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 225358 | 'Fam13b' | 20 | 10.73 | 17.4 | 11.1 | 6.89 | 13.82 | 25 | 10.7 | 28.16 | 16.13 |
| 225362 | 'Reep2' | 104.1 | 117.1 | 116 | 48.3 | 133 | 93.51 | 95.5 | 106.9 | 68.14 | 83.09 |
| 225363 | 'Etf1' | 11.9 | 17.42 | 13.1 | 21.7 | 14 | 17 | 7.96 | 13.46 | 24.72 | 14.57 |
| 225372 | 'Apbb3' | 59.39 | 40.52 | 39.1 | 52.9 | 34.8 | 62.84 | 13 | 53.47 | 37.9 | 16.64 |
| 225392 | 'Rell2' | 1.23 | 6.32 | 15.3 | 6.24 | 14.8 | 2.25 | 14.1 | 10.36 | 29.48 | 6.25 |
| 225432 | 'Rbm27' | 3.14 | 4.3 | 3.6 | 9.08 | 3.7 | 5.35 | 4.72 | 3.93 | 6.49 | 5.12 |
| 225467 | 'Pgg1b' | 2.49 | 10.03 | 3.55 | 2.36 | 0.47 | 7.06 | 1.83 | 5.45 | 3.7 | 2.14 |
| 225471 | 'Ticam2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.66 | 0 | 0 |
| 225523 | 'Cep120' | 9.14 | 4.41 | 10.2 | 10.8 | 4.87 | 1.22 | 8.25 | 4.2 | 16.41 | 13.94 |
| 225583 | 'A730017C20Rik' | 345.5 | 344 | 228 | 305 | 202 | 419.1 | 248 | 331.2 | 309.9 | 381.34 |
| 225594 | 'Gm4841' | 0 | 0.1 | 0.03 | 0.06 | 0.19 | 0.02 | 0.05 | 0.07 | 0.07 | 0.04 |
| 225600 | 'Pde6a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.37 | 0 | 0 |
| 225608 | 'Sh3tc2' | 0 | 0 | 0 | 0 | 0.8 | 1 | 0 | 0 | 0 | 0 |
| 225631 | 'Onecut2' | 0.14 | 0.13 | 0 | 0.07 | 1.91 | 1 | 1.07 | 0.27 | 0.86 | 0.93 |
| 225638 | 'Alpk2' | 0.01 | 0 | 0.01 | 0 | 0 | 0 | 0.01 | 0.01 | 0.01 | 0.01 |
| 225642 | 'Grp' | 14.62 | 0 | 4.64 | 0 | 9.38 | 67.09 | 2.53 | 0 | 0 | 54.95 |
| 225651 | 'Mppe1' | 9.94 | 9.06 | 1.97 | 3.68 | 12.4 | 0.56 | 13 | 25.17 | 11.42 | 6.38 |
| 225655 | 'Preli3a' | 24.16 | 42.48 | 19.6 | 14.8 | 40 | 31.95 | 44.7 | 71.18 | 31.59 | 18.98 |
| 225659 | 'Cep76' | 4.06 | 0.93 | 2.11 | 0.01 | 0.28 | 1.27 | 0.58 | 0.12 | 0.14 | 0 |
| 225724 | 'Mapk4' | 8.77 | 12.67 | 13.2 | 5.24 | 9.61 | 5.54 | 3.17 | 0.03 | 13.92 | 1.92 |
| 225742 | 'St8sia5' | 3.83 | 11.42 | 10.3 | 10.1 | 6.91 | 5.79 | 6.17 | 1.07 | 4.59 | 4.87 |
| 225743 | 'Rnf165' | 2.12 | 1.32 | 1.77 | 4.31 | 0.74 | 0.89 | 1.44 | 2.73 | 1.45 | 0.21 |
| 225745 | 'Haus1' | 9.91 | 9.42 | 4.82 | 23.1 | 22.8 | 5.75 | 0.03 | 3.93 | 12.98 | 13.18 |
| 225791 | 'Zadh2' | 3.72 | 4.72 | 0.23 | 7.98 | 3.75 | 0.04 | 0.04 | 0 | 7.28 | 0.02 |
| 225825 | 'Cd226' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.12 | 0 |
| 225845 | 'Pla2g16' | 8.68 | 20 | 8.46 | 0.09 | 1.38 | 25.84 | 27.1 | 8.2 | 4.97 | 3.05 |
| 225849 | 'Ppp2r5b' | 35.91 | 43.74 | 86.9 | 13.3 | 37.8 | 30.26 | 43.9 | 52.59 | 77.95 | 23.27 |
| 225861 | 'Snx32' | 101.2 | 109 | 102 | 116 | 175 | 191.8 | 172 | 115.4 | 105.2 | 101.47 |
| 225870 | 'Rin1' | 0.64 | 3.74 | 0.28 | 1.38 | 2.05 | 0.38 | 0.07 | 0.04 | 0.22 | 4.04 |
| 225872 | 'Npas4' | 15.07 | 15.19 | 44.7 | 13 | 6.7 | 28.34 | 4.5 | 24.14 | 12.22 | 40.44 |
| 225875 | 'Lrfn4' | 0.21 | 1.34 | 0.15 | 1.03 | 1.3 | 0.4 | 1.64 | 0.76 | 2.46 | 0.03 |
| 225876 | 'Kdm2a' | 3.95 | 8.51 | 5.81 | 14.4 | 6.23 | 3.45 | 4.45 | 4.59 | 7.05 | 10.43 |
| 225887 | 'Ndufs8' | 288.8 | 250.2 | 353 | 292 | 417 | 567.2 | 303 | 377.6 | 353.7 | 272.26 |
| 225888 | 'Kmt5b' | 5.31 | 4.38 | 3.22 | 3.04 | 3.87 | 1.22 | 3.44 | 1.8 | 7.66 | 2.68 |
| 22589 | 'Atrx' | 8.59 | 15.52 | 12.7 | 18.9 | 13.1 | 14.25 | 11.4 | 14.53 | 12.52 | 10.52 |
| 225895 | 'Taf6l' | 8.83 | 13.73 | 33 | 0 | 17.1 | 18.8 | 35.6 | 16.62 | 26.05 | 23.21 |
| 225896 | 'Ubxn1' | 55.21 | 80.83 | 92 | 123 | 116 | 99.08 | 71.4 | 61.27 | 72.81 | 75.07 |
| 225898 | 'Eml3' | 0.89 | 1.25 | 1.88 | 0 | 4.88 | 1.19 | 5.98 | 2.78 | 20.26 | 11.56 |
| 22590 | 'Xpa' | 8.67 | 14.15 | 21.1 | 2.16 | 16.5 | 28.23 | 8.97 | 7.88 | 0.54 | 11.86 |
| 225908 | 'Myrf' | 0.19 | 0.53 | 0.38 | 0 | 0.05 | 0.57 | 1.44 | 0 | 0 | 0.01 |
| 22591 | 'Xpc' | 4.24 | 3.59 | 4.64 | 6.91 | 1.67 | 0.01 | 17.2 | 11.19 | 7.44 | 3.66 |
| 225912 | 'Cyb561a3' | 9.11 | 11.44 | 1.15 | 0.39 | 10.2 | 19.57 | 1.26 | 3.42 | 10.12 | 3.83 |
| 225913 | 'Tkfc' | 12.66 | 9.42 | 9.43 | 0.05 | 2.78 | 1.56 | 2.74 | 7.76 | 12.27 | 8.46 |
| 22592 | 'Ercc5' | 6.49 | 4.71 | 11 | 1.75 | 4.9 | 4.03 | 2.34 | 4.9 | 10.62 | 2.73 |
| 225922 | 'Oosp2' | 1.27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 225929 | 'Pat1' | 2.67 | 0.65 | 5.59 | 1.07 | 2.76 | 3.53 | 2.72 | 3.5 | 6.3 | 5.99 |
| 22594 | 'Xrcc1' | 11.39 | 23.36 | 12.8 | 14.6 | 20.6 | 23.57 | 23.7 | 20.44 | 13.5 | 9.03 |
| 22596 | 'Xrcc5' | 20.07 | 12.99 | 13.4 | 19.9 | 20.4 | 15.63 | 10.1 | 10.47 | 6.87 | 13.22 |
| 22598 | 'Slc6a18' | 0.12 | 0.17 | 0.14 | 0.61 | 0.15 | 0.19 | 0.29 | 0.11 | 0.25 | 0.12 |
| 22599 | 'Slc6a20b' | 0.04 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0.02 | 1 | 0 |
| 225994 | 'Nmrk1' | 9.1 | 19.81 | 14.2 | 25.9 | 19.1 | 29.44 | 33.6 | 8.15 | 18.86 | 11.92 |
| 225995 | 'D030056L22Rik' | 8.93 | 11.31 | 3.75 | 20.2 | 4.29 | 0.03 | 8.11 | 2.36 | 5.25 | 0 |
| 225997 | 'Trpm6' | 0 | 1.17 | 0 | 2.07 | 0.3 | 0 | 0.7 | 0.76 | 0.63 | 0.82 |
| 225998 | 'Rorb' | 15.97 | 10.89 | 4.76 | 10.2 | 0.7 | 4.32 | 0.61 | 8.75 | 13.87 | 7.55 |
| 22601 | 'Yap1' | 0 | 2.45 | 0 | 0 | 0.02 | 0 | 0 | 0.98 | 0 | 0.58 |
| 226016 | 'Abhd17b' | 0.64 | 4.31 | 1.99 | 9.55 | 4.95 | 0.02 | 2.03 | 0.19 | 1.6 | 1.85 |
| 226025 | 'Trpm3' | 3.83 | 4.75 | 0.04 | 0.02 | 1.98 | 2.05 | 4.18 | 2.59 | 1.08 | 3.58 |
| 226026 | 'Smc5' | 7.99 | 5.33 | 8.9 | 8.74 | 7.48 | 13.13 | 0.15 | 6.58 | 10.78 | 6.79 |

| | | | | | | | | | | | |
|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 226040 | 'Tmem252' | 0 | 0 | 1.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 226041 | 'Pgm5' | 0.02 | 0 | 0.37 | 0 | 0 | 0 | 0.01 | 0 | 0.03 | 0 |
| 226043 | 'Cbwd1' | 3.95 | 8.47 | 0.42 | 3.67 | 11.6 | 8.22 | 0.62 | 5.02 | 0.53 | 9.32 |
| 226075 | 'Glis3' | 0 | 0.73 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0.46 |
| 22608 | 'Ybx1' | 15.55 | 14.36 | 11.5 | 57.2 | 12.2 | 8.11 | 13.2 | 6.48 | 11.71 | 5.11 |
| 226089 | 'Ric1' | 0 | 0 | 1.97 | 0 | 0 | 0 | 0 | 1.04 | 0 | 0.23 |
| 226090 | 'Ermp1' | 6.61 | 2.59 | 2.13 | 1.71 | 1.13 | 1.22 | 5.4 | 2.49 | 3.16 | 0.7 |
| 226098 | 'Hectd2' | 0 | 0 | 1.26 | 1.68 | 0.01 | 0.79 | 0.44 | 0.89 | 1.98 | 1 |
| 226101 | 'Myof' | 1.02 | 0 | 0 | 0 | 0 | 0.74 | 0 | 0 | 0 | 0 |
| 226115 | 'Opalin' | 11.46 | 5.96 | 0 | 0 | 5.93 | 66.48 | 0.06 | 19.35 | 0 | 0 |
| 22612 | 'Yes1' | 2.66 | 0.37 | 0.01 | 1.59 | 2.61 | 0.01 | 0 | 0.21 | 0.21 | 0 |
| 226122 | 'Ubd1' | 3.1 | 0 | 5.48 | 11.8 | 0.03 | 0 | 3.55 | 2.37 | 6.19 | 3.33 |
| 226123 | 'Morn4' | 94.02 | 84.19 | 86 | 102 | 99.7 | 112.1 | 79.9 | 112.9 | 78.8 | 106.2 |
| 226139 | 'Cox15' | 14.44 | 11.08 | 9.16 | 5.93 | 5.63 | 1.63 | 6.05 | 9.05 | 8.56 | 6.23 |
| 226143 | 'Cyp2c23' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.57 | 0 | 0 |
| 226144 | 'Erlin1' | 6.15 | 2.61 | 1.64 | 9.2 | 2.76 | 4.21 | 2.2 | 1.81 | 4.44 | 6.64 |
| 226151 | 'Slf2' | 14.89 | 13.5 | 17.8 | 14 | 11 | 21.28 | 7.94 | 9.24 | 16.08 | 23.52 |
| 226153 | 'Twink' | 7.29 | 2.59 | 2.23 | 19.7 | 3.82 | 2.45 | 2.3 | 10.55 | 5.94 | 7.39 |
| 226154 | 'Lzts2' | 1.62 | 2.37 | 9 | 6.11 | 7.82 | 0.54 | 5.36 | 2.04 | 8.14 | 0.03 |
| 226162 | 'Dpcd' | 207.1 | 174.9 | 179 | 224 | 159 | 262.5 | 141 | 170.6 | 185.3 | 234.16 |
| 226169 | 'Pprc1' | 4.32 | 2.82 | 2.18 | 8.56 | 0.66 | 0.78 | 6.02 | 4.22 | 3.23 | 1.1 |
| 226178 | 'Wbp11' | 6.19 | 8.34 | 4.31 | 0 | 12.6 | 1.14 | 0.05 | 8.7 | 15.61 | 7.11 |
| 226180 | 'Ina' | 42.16 | 56.47 | 35.6 | 66.5 | 39.9 | 58.18 | 94.1 | 48.39 | 36.45 | 37.11 |
| 226182 | 'Taf5' | 0.07 | 0.06 | 0.07 | 0 | 0.78 | 0.22 | 0.64 | 0.88 | 0 | 0.96 |
| 22619 | 'Siae' | 10.06 | 5.14 | 4.18 | 7.14 | 6.22 | 8.68 | 8.12 | 11.28 | 22.32 | 7.81 |
| 22625 | 'Map3k19' | 1.27 | 1.6 | 0.25 | 5.19 | 0.25 | 1.33 | 0.46 | 0.08 | 0.96 | 0.11 |
| 226250 | 'Afp112' | 0 | 1.98 | 0.54 | 4.17 | 0.02 | 0 | 8 | 1.86 | 0 | 0.02 |
| 226251 | 'Ablim1' | 3.11 | 3.66 | 7.08 | 3.87 | 7.31 | 6.41 | 9.99 | 7.48 | 3.31 | 1.61 |
| 226252 | 'Fam160b1' | 0.01 | 0.46 | 0.95 | 5.67 | 6.34 | 1.04 | 0 | 1.4 | 1.04 | 3.82 |
| 226255 | 'Atrn1' | 1.42 | 0.54 | 0.9 | 0 | 0.02 | 0 | 1.01 | 0.99 | 0.04 | 0 |
| 22626 | 'Slc23a3' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 226265 | 'Eno4' | 0.56 | 4.58 | 2.39 | 3.03 | 9.3 | 1.94 | 2.31 | 1.57 | 1.63 | 0.87 |
| 22627 | 'Ywhae' | 455.6 | 555.6 | 418 | 394 | 540 | 494.9 | 525 | 525 | 552.1 | 673.75 |
| 226278 | 'Prhr' | 0 | 2.19 | 0 | 0 | 0 | 0 | 0.03 | 1.01 | 3.81 | 0 |
| 22628 | 'Ywhag' | 190 | 172.8 | 196 | 107 | 122 | 62.71 | 193 | 172.6 | 225.9 | 137.22 |
| 22629 | 'Ywhah' | 715.2 | 601.2 | 520 | 811 | 579 | 684.3 | 578 | 598.8 | 720.1 | 475.9 |
| 22630 | 'Ywhaq' | 631.8 | 672 | 532 | 583 | 655 | 698.2 | 504 | 691.8 | 635.2 | 659.96 |
| 226304 | 'Npbwr1' | 1.72 | 3.51 | 3.53 | 4.18 | 0.01 | 0 | 0 | 2.69 | 7.81 | 0 |
| 22631 | 'Ywhaz' | 593.6 | 644.4 | 503 | 410 | 579 | 446.1 | 500 | 620 | 537.2 | 644.33 |
| 22632 | 'Yy1' | 1.78 | 3.81 | 3.67 | 10.5 | 3.06 | 0.77 | 0 | 1.93 | 1.03 | 3.86 |
| 22634 | 'Plagl1' | 3.66 | 3.29 | 1.79 | 7.58 | 3.95 | 1.82 | 3.11 | 3.33 | 4.22 | 8.39 |
| 22635 | 'Zan' | 0 | 0 | 1.11 | 0 | 0 | 0 | 0 | 0.68 | 0 | 0 |
| 226351 | 'Tmem185b' | 11.29 | 23.07 | 11.9 | 2.12 | 6.8 | 14.6 | 4.95 | 17.04 | 0.9 | 16.1 |
| 226352 | 'Epb4115' | 5.09 | 2.19 | 2.94 | 5.65 | 3.91 | 0.54 | 2.23 | 3.35 | 5.93 | 6.79 |
| 226356 | 'Cfap221' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 226359 | 'C1ql2' | 11.27 | 0 | 187 | 266 | 0.05 | 0.05 | 15.3 | 26.23 | 0 | 14.32 |
| 22637 | 'Zap70' | 0.74 | 9.21 | 0 | 0 | 6.63 | 9.03 | 9.03 | 3.23 | 3.45 | 7.46 |
| 22640 | 'Zfp1' | 10.42 | 7.21 | 6.68 | 5.69 | 3.96 | 6.52 | 5.27 | 10.9 | 5.11 | 13.01 |
| 226407 | 'Rab3gap1' | 30.55 | 37.05 | 20.7 | 14.4 | 26.9 | 9.7 | 33.3 | 21.97 | 44.84 | 45.9 |
| 226409 | 'Zranb3' | 0.27 | 0.57 | 1.05 | 4.55 | 3.64 | 8.06 | 0.12 | 4.91 | 1.94 | 1.94 |
| 226412 | 'R3hdm1' | 18.99 | 21.41 | 19.1 | 27.2 | 29.1 | 22.67 | 32.7 | 18.08 | 21.13 | 28.72 |
| 226414 | 'Dars' | 72.73 | 61.43 | 34.2 | 42 | 35.4 | 21.36 | 50.4 | 65.57 | 37.95 | 53.78 |
| 226418 | 'Yod1' | 4.34 | 3.34 | 1.17 | 3.3 | 1.98 | 0.04 | 2.84 | 1.47 | 0 | 0 |
| 226419 | 'Dyrk3' | 2.55 | 3.05 | 3.92 | 47 | 0 | 0 | 0 | 0 | 3.2 | 0.94 |
| 22642 | 'Zbtb17' | 3.9 | 9.79 | 9.62 | 15.8 | 6.24 | 8.44 | 4.41 | 10.33 | 11.07 | 4.11 |
| 226421 | 'Rab7b' | 0 | 0 | 0 | 0 | 1.56 | 0 | 0 | 0 | 0 | 0 |
| 226422 | 'Rab29' | 4.15 | 5.24 | 7.26 | 0 | 9.51 | 0 | 5.96 | 5.16 | 0 | 0 |
| 22643 | 'Zfp101' | 0.02 | 0.94 | 1.8 | 0 | 0.13 | 0 | 0 | 2.7 | 0.9 | 1.61 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 226432 | 'Ipo9' | 21.43 | 26.03 | 42.4 | 8.11 | 24.6 | 9.4 | 29.4 | 33.33 | 40.69 | 27.33 |
| 226438 | 'Igf1' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 226439 | 'Ascl5' | 0 | 0.09 | 0 | 0 | 1.42 | 0 | 0 | 0 | 0 | 0 |
| 22644 | 'Rnf103' | 6.37 | 7.15 | 2.89 | 9.86 | 4 | 4.37 | 0.77 | 1.56 | 3.23 | 2.31 |
| 226442 | 'Zfp281' | 2.67 | 3.28 | 8.5 | 7.27 | 4.15 | 1.9 | 8.61 | 4.57 | 5.24 | 0.05 |
| 22646 | 'Zfp105' | 6.32 | 8.64 | 16.9 | 2.35 | 0.34 | 32.52 | 0.05 | 5.41 | 2.44 | 7.02 |
| 226470 | 'Zbtb41' | 1.76 | 0 | 0.01 | 0 | 0.33 | 0.08 | 0.13 | 0.39 | 1.22 | 0.24 |
| 22648 | 'Zfp11' | 1.76 | 1.76 | 0.17 | 0.29 | 3.14 | 0.1 | 2.68 | 1.87 | 3.71 | 2.76 |
| 226499 | 'Odr4' | 19.69 | 14.55 | 18.2 | 8.72 | 19.1 | 14.69 | 10.2 | 13.21 | 22.42 | 18.43 |
| 226517 | 'Smg7' | 4.51 | 4.34 | 11.9 | 7.35 | 4.3 | 4.16 | 9.75 | 3.56 | 9.27 | 4.74 |
| 226518 | 'Nmnat2' | 31.35 | 35.24 | 40.9 | 13.2 | 29.5 | 30.34 | 41.8 | 40.4 | 66.99 | 28.77 |
| 226519 | 'Lamc1' | 0 | 0 | 0.72 | 1.84 | 0.03 | 0 | 0.12 | 0 | 1.39 | 0.5 |
| 226525 | 'Rasal2' | 1.9 | 0.98 | 2.18 | 3.85 | 5.23 | 1.74 | 1.01 | 3.19 | 2.28 | 3.03 |
| 226527 | 'Cryz12' | 3.74 | 2.27 | 3.37 | 21.5 | 1.18 | 10.22 | 20.8 | 2.47 | 1.15 | 3.92 |
| 226539 | 'Dars2' | 10.25 | 3.92 | 7.2 | 0.02 | 1.38 | 2.23 | 8.08 | 4.62 | 8.36 | 10.07 |
| 22654 | 'Zfp13' | 14.32 | 11.97 | 9.84 | 0 | 2.73 | 1.6 | 0 | 15.96 | 14.24 | 12.22 |
| 226541 | 'Klhl20' | 3.15 | 4.74 | 3.65 | 3.44 | 0.84 | 1.57 | 4.68 | 4.79 | 0 | 3.96 |
| 226548 | 'Aph1a' | 26.56 | 14.03 | 10.1 | 0.08 | 10.3 | 25.96 | 15.9 | 20.68 | 14.88 | 6.49 |
| 226551 | 'Suco' | 2.5 | 4.53 | 7.24 | 8.17 | 2.95 | 4.01 | 6.45 | 0.43 | 5.85 | 2.73 |
| 226562 | 'Prrc2c' | 23.63 | 23.73 | 19.4 | 45.2 | 19 | 24.15 | 12.8 | 22.35 | 15.03 | 30.68 |
| 226564 | 'Fmo4' | 0 | 0 | 0 | 0 | 2.02 | 0 | 0 | 0 | 0 | 0 |
| 22658 | 'Pcgf2' | 0.9 | 2.38 | 3.02 | 2.89 | 2.88 | 0.14 | 2.51 | 0.89 | 2.91 | 1.68 |
| 226591 | 'Tipr1' | 70.09 | 90.1 | 74.1 | 84 | 61.7 | 90.16 | 61.1 | 91.97 | 50.45 | 49.88 |
| 226594 | 'Rcsd1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.76 | 0 |
| 226601 | 'Gm4846' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 22661 | 'Zfp148' | 11.73 | 12.61 | 5.49 | 7.2 | 12.6 | 6.53 | 15.4 | 12.09 | 10.6 | 12.42 |
| 226610 | 'Fam78b' | 0 | 0 | 3.36 | 2.56 | 1.39 | 0 | 0.38 | 0.61 | 0 | 0.08 |
| 226641 | 'Atf6' | 0.97 | 1.76 | 4.67 | 6.8 | 4.26 | 2.42 | 1.04 | 2.68 | 1.79 | 2.88 |
| 226646 | 'Ndufs2' | 224.1 | 154.6 | 196 | 197 | 203 | 248.3 | 265 | 197.3 | 189.3 | 175.57 |
| 226652 | 'Arhgap30' | 0 | 0 | 0 | 3.59 | 0 | 0 | 0 | 0 | 0 | 0.27 |
| 226654 | 'Tstd1' | 0.89 | 0 | 0.57 | 2.41 | 117 | 0 | 0.2 | 1.2 | 0.95 | 3.26 |
| 22666 | 'Zbtb14' | 8.48 | 8.2 | 10.5 | 5.69 | 6.39 | 4.7 | 3.99 | 6.3 | 12.66 | 13.52 |
| 22668 | 'Sf1' | 20.86 | 31.19 | 27.6 | 14.1 | 23.2 | 27.21 | 25.5 | 20.74 | 43.38 | 30.27 |
| 22670 | 'Trim26' | 13.57 | 7.9 | 5.78 | 14.7 | 20.4 | 11.27 | 19.3 | 14.88 | 16.55 | 8.43 |
| 22671 | 'Rnf112' | 21.07 | 43.63 | 66.4 | 10.3 | 27.1 | 16.34 | 42.2 | 24.27 | 29.48 | 15.26 |
| 226744 | 'Cnst' | 7.05 | 6.74 | 6.09 | 1.88 | 1.56 | 4.21 | 6.37 | 10.63 | 8.32 | 1.29 |
| 226747 | 'Ahctf1' | 2.11 | 0.75 | 1.66 | 4.37 | 3.33 | 0.59 | 1.98 | 1.61 | 1.02 | 1.95 |
| 226751 | 'Cdc42bpa' | 5.35 | 5.39 | 5.02 | 14.1 | 11.3 | 6.64 | 11.5 | 7.39 | 5.57 | 8.63 |
| 226757 | 'Wdr26' | 2.43 | 4.45 | 3.73 | 5.4 | 2.78 | 4.04 | 3.84 | 2.46 | 2.05 | 2.29 |
| 226777 | 'C130074G19Rik' | 1.09 | 0 | 0 | 0 | 0.6 | 0 | 0 | 0.25 | 0 | 0 |
| 226778 | 'Mark1' | 4.91 | 1.71 | 5.54 | 3.55 | 4.93 | 3.37 | 1.61 | 2.43 | 5.71 | 4.52 |
| 22678 | 'Zfp2' | 10.71 | 6.85 | 6.75 | 3.07 | 12.8 | 5.87 | 15.7 | 14.02 | 9.56 | 11.94 |
| 226781 | 'Slc30a10' | 4.23 | 4.04 | 2.81 | 0.48 | 2.09 | 4.81 | 1.38 | 1.73 | 2.07 | 3.41 |
| 226791 | 'Lyp1a1' | 12.38 | 9.3 | 12.5 | 0 | 12.9 | 22.32 | 18.2 | 14.7 | 4.04 | 2.98 |
| 22680 | 'Zfp207' | 90.98 | 69.59 | 41.5 | 40.7 | 56.6 | 86.23 | 66 | 64.88 | 69.85 | 80.48 |
| 22682 | 'Zfand5' | 17.41 | 19.54 | 8.89 | 47.6 | 15.8 | 15.4 | 6.49 | 8.33 | 12.96 | 6.74 |
| 226823 | 'Kctd3' | 2.29 | 11.36 | 7.07 | 36.7 | 11.8 | 0.1 | 0.92 | 4.8 | 0.47 | 6.73 |
| 226830 | 'Smyd2' | 73.15 | 74.88 | 91.4 | 104 | 87.8 | 77.39 | 67.2 | 86.41 | 89.97 | 50.52 |
| 226841 | 'Vash2' | 0 | 1.07 | 0.05 | 8.82 | 1.44 | 4.14 | 1.37 | 2.39 | 0 | 1.16 |
| 226844 | 'Flvcr1' | 0.01 | 2.31 | 0.06 | 7.65 | 1.02 | 0.49 | 3.94 | 0.5 | 0 | 0.98 |
| 226849 | 'Ppp2r5a' | 2.44 | 0.12 | 0.02 | 0.39 | 0.99 | 0.01 | 2.33 | 0.12 | 1.97 | 2.96 |
| 22685 | 'Zfp239' | 19.08 | 19.07 | 14.2 | 5.48 | 17.8 | 18.47 | 15.6 | 18.53 | 14.11 | 10.81 |
| 226856 | 'Lpgat1' | 5.63 | 7.1 | 7.03 | 2.01 | 7.12 | 8.88 | 2.04 | 3.14 | 3.24 | 4.46 |
| 226861 | 'Hhat' | 1.65 | 2.45 | 2.71 | 0 | 3.15 | 6.7 | 5.13 | 1.23 | 0.12 | 0.86 |
| 226866 | 'Sbspon' | 0 | 1.41 | 0 | 0 | 2.49 | 0 | 0 | 0 | 1.47 | 0.22 |
| 22687 | 'Zpr1' | 25.11 | 23.7 | 33.6 | 24.6 | 15.4 | 30.65 | 23.7 | 26.69 | 21.67 | 18.23 |
| 22688 | 'Zfp26' | 1.74 | 0.41 | 2.07 | 7.39 | 0.54 | 0.14 | 2.33 | 0.87 | 1.09 | 0.53 |
| 22689 | 'Zfp27' | 1.99 | 0.01 | 1.29 | 10 | 1.79 | 0.86 | 0.31 | 2.83 | 0.46 | 5.16 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 22690 | 'Zfp28' | 9.55 | 2.72 | 6.52 | 11.1 | 9.07 | 10.18 | 4.94 | 9.95 | 12.89 | 4.67 |
| 22691 | 'Zscan2' | 0.02 | 0.28 | 0.61 | 0.1 | 0.13 | 0.01 | 0.02 | 0.19 | 0.01 | 0.22 |
| 226922 | 'Kcnq5' | 0 | 0.21 | 2.46 | 0 | 1.71 | 0 | 3.11 | 0.01 | 1.88 | 0.49 |
| 22693 | 'Zfp30' | 1.97 | 0.48 | 9.91 | 13.3 | 8.84 | 6.26 | 8.65 | 14.31 | 10.93 | 8.75 |
| 22694 | 'Zfp35' | 11.75 | 10.04 | 8.17 | 17.5 | 13.9 | 0.52 | 1.57 | 26.86 | 3.87 | 6.82 |
| 22695 | 'Zfp36' | 29.07 | 39.13 | 5.07 | 29.1 | 12.6 | 133.1 | 0 | 0 | 3.33 | 1.41 |
| 22696 | 'Zfp37' | 5.1 | 8.4 | 4.18 | 17.7 | 5.65 | 4.85 | 8.25 | 9.13 | 2.89 | 8.37 |
| 22697 | 'Zscan21' | 12.48 | 16.26 | 0.85 | 9.06 | 18 | 11.32 | 21.7 | 11.6 | 32.39 | 16.17 |
| 226970 | 'Arhgef4' | 122.6 | 64.42 | 81.4 | 41.8 | 69.7 | 75.52 | 117 | 115.8 | 90.38 | 106.79 |
| 226971 | 'Plekhb2' | 256 | 204.2 | 224 | 125 | 188 | 168.1 | 226 | 268.9 | 299.7 | 301.15 |
| 226976 | 'Kansl3' | 17.97 | 9.45 | 21.1 | 10.2 | 14.4 | 9.39 | 25.5 | 15.68 | 37.58 | 13.96 |
| 226977 | 'Actr1b' | 121.5 | 125.4 | 144 | 99.8 | 141 | 121.7 | 202 | 167.6 | 72.43 | 134.85 |
| 22698 | 'Zfp39' | 1.04 | 4.48 | 3.65 | 0 | 0.56 | 0.07 | 4.63 | 2.4 | 3.71 | 0.02 |
| 226982 | 'Eif5b' | 11.81 | 7.69 | 6.58 | 12.8 | 9.56 | 9.54 | 7.07 | 7.19 | 5.28 | 6.35 |
| 226999 | 'Slc9a2' | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22700 | 'Zfp40' | 1.93 | 4.18 | 3.36 | 2.16 | 2.82 | 3.41 | 5.48 | 5.08 | 5.19 | 3.76 |
| 22701 | 'Zfp41' | 0.97 | 4.35 | 2.49 | 6.28 | 3.26 | 0.01 | 0.77 | 2.78 | 3.37 | 2.71 |
| 22704 | 'Zfp46' | 2.97 | 3.46 | 8.7 | 3.86 | 3.94 | 0.01 | 6.84 | 6.11 | 8.05 | 4.13 |
| 227058 | 'Dnah7b' | 0.47 | 0.65 | 0.37 | 0.15 | 1.16 | 0.1 | 1.63 | 0 | 0.8 | 0.02 |
| 227059 | 'Slc39a10' | 8.48 | 9.12 | 17.7 | 0.24 | 12.4 | 6.61 | 19.1 | 11.62 | 15.74 | 24.44 |
| 22709 | 'Zfp51' | 0.47 | 7.65 | 0.19 | 5.67 | 2.1 | 6.47 | 1.01 | 4.12 | 6.67 | 4.32 |
| 227094 | 'Nemp2' | 0 | 0.01 | 3.72 | 0 | 0.01 | 0.31 | 0 | 0.5 | 2.42 | 0 |
| 227095 | 'Hibch' | 10.77 | 13.81 | 7.75 | 46.1 | 23.3 | 20.57 | 27.3 | 16.08 | 21.9 | 8.97 |
| 227099 | 'Pms1' | 0.13 | 3.48 | 2.11 | 0 | 0.1 | 3.61 | 0 | 1.23 | 1.32 | 5.21 |
| 22710 | 'Zfp52' | 1.79 | 6.61 | 3.87 | 6.45 | 0.91 | 3.16 | 2.99 | 3.22 | 2.85 | 3.79 |
| 227102 | 'Ormdl1' | 34.48 | 31.08 | 28.3 | 47.3 | 32.6 | 59.71 | 12.9 | 21.51 | 40.01 | 36.13 |
| 22712 | 'Zfp54' | 2.3 | 0.49 | 2.89 | 0 | 0.02 | 3.31 | 0 | 1.74 | 3.33 | 4.71 |
| 227120 | 'Plcl1' | 5.31 | 0.47 | 2.33 | 0.72 | 1.57 | 0.48 | 1.08 | 2.29 | 1 | 0.99 |
| 22715 | 'Zfp57' | 8.52 | 8.43 | 20 | 9.72 | 5.16 | 7.47 | 17.7 | 33.1 | 16.45 | 15.16 |
| 227154 | 'Stradb' | 16.39 | 15.6 | 4.2 | 0 | 17.8 | 19.44 | 18.9 | 25.83 | 9.79 | 7.34 |
| 227157 | 'Mpp4' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.09 | 0.03 | 0 | 0.42 |
| 22717 | 'Zfp59' | 1.55 | 2.24 | 1.74 | 0.03 | 0.03 | 0 | 3.65 | 2.39 | 0.86 | 1.27 |
| 22718 | 'Zfp60' | 15.74 | 11.7 | 12.5 | 13.8 | 12.6 | 8.06 | 20.3 | 15.89 | 14.93 | 9.56 |
| 22719 | 'Zfp61' | 19.88 | 16.39 | 11.3 | 34.3 | 5.42 | 14.17 | 16.5 | 17.74 | 16.28 | 8.73 |
| 227195 | 'Ino80d' | 1.01 | 0 | 0.86 | 0.05 | 0.08 | 3.25 | 5.11 | 1.27 | 2.39 | 3.15 |
| 227197 | 'Ndufs1' | 100.8 | 94.95 | 104 | 163 | 71.5 | 81.88 | 149 | 101.5 | 82.85 | 109.15 |
| 22720 | 'Zfp62' | 8.31 | 5.85 | 9.56 | 9.88 | 1.18 | 1.98 | 4.02 | 4.38 | 3.79 | 4.87 |
| 227210 | 'Ccnyl1' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 2.1 | 4.26 | 0 |
| 22722 | 'Zfp64' | 5.32 | 9.2 | 5.53 | 0 | 12.2 | 1.76 | 6.62 | 10.74 | 7.88 | 5.45 |
| 227231 | 'Cps1' | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0.02 |
| 22724 | 'Zbtb7b' | 0.12 | 0.08 | 0 | 0 | 2.6 | 0.04 | 0 | 0.42 | 0.02 | 0 |
| 227289 | 'Gpbar1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.57 |
| 227290 | 'Aamp' | 266.7 | 305.8 | 188 | 275 | 239 | 365.4 | 275 | 331.9 | 296.8 | 291.17 |
| 227292 | 'Ctdsp1' | 4.69 | 2.75 | 3.46 | 8.91 | 4.49 | 4.42 | 0.02 | 0.01 | 0.02 | 2.5 |
| 227298 | 'Retreg2' | 43.95 | 19.71 | 16.2 | 53.3 | 41.8 | 36.78 | 54 | 47.9 | 27.41 | 24.13 |
| 227325 | 'Dner' | 168.4 | 215.7 | 156 | 132 | 92.9 | 84.22 | 93.2 | 158.7 | 147.8 | 149.12 |
| 227326 | 'Gpr55' | 1.64 | 4.36 | 0.72 | 3.36 | 0.87 | 0 | 0 | 0.38 | 3.17 | 0 |
| 227327 | 'B3gnt7' | 2.82 | 3.29 | 0.35 | 1.37 | 6.02 | 0.21 | 5.79 | 2.82 | 4.99 | 2.71 |
| 227331 | 'Gigyf2' | 8.36 | 6.83 | 8.19 | 6.48 | 5.43 | 2.22 | 7.16 | 3.73 | 5.76 | 5.94 |
| 227333 | 'Dgkd' | 3.83 | 1.49 | 7.66 | 10.2 | 2.97 | 2.46 | 4.91 | 2.43 | 0.58 | 5.1 |
| 227334 | 'Usp40' | 1.91 | 0.76 | 3.03 | 3.74 | 2.24 | 2.06 | 0.71 | 5.25 | 3.65 | 4.25 |
| 227357 | 'Espnl' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.03 | 0 | 0 | 0 |
| 227358 | 'Erfe' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.65 | 0 |
| 227377 | 'Farp2' | 0.76 | 0.17 | 5.39 | 0.77 | 1.74 | 0.24 | 0 | 1.7 | 7.5 | 3.35 |
| 227394 | 'Slco4c1' | 0.66 | 0.24 | 0 | 0 | 1.16 | 2.94 | 0 | 0.15 | 0.07 | 0.02 |
| 227399 | 'Ppip5k2' | 9.47 | 3.58 | 8.72 | 11.1 | 5.89 | 2.35 | 2.32 | 7.26 | 7.3 | 10.18 |
| 227446 | 'Relch' | 9.07 | 9.65 | 12 | 13.7 | 12.3 | 1.63 | 12.7 | 3.37 | 8.95 | 5.58 |
| 227449 | 'Zcchc2' | 1.03 | 0.17 | 0.22 | 6.26 | 0.01 | 0.02 | 1.08 | 0.96 | 4.35 | 1.1 |

| | | | | | | | | | | | |
|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 22746 | 'Zfp85' | 0 | 0 | 0 | 0 | 2.79 | 0 | 0 | 3.94 | 4.51 | 1.75 |
| 227485 | 'Cdh19' | 0 | 0 | 0 | 2.27 | 0.01 | 0 | 2.13 | 0.32 | 0 | 0 |
| 22750 | 'Zfp9' | 6.62 | 1.69 | 9.1 | 10.2 | 5.52 | 4.95 | 12.8 | 1.62 | 4.92 | 3.04 |
| 22751 | 'Zfp90' | 5.27 | 9.5 | 8.32 | 4.56 | 13.2 | 0.02 | 14 | 10.32 | 5.87 | 10.68 |
| 227522 | 'Rpp38' | 73.24 | 74.03 | 73.9 | 67.8 | 101 | 145.3 | 87.2 | 126.6 | 100.7 | 103.57 |
| 227525 | 'Dclre1c' | 7.64 | 9.34 | 13.6 | 25.6 | 11.2 | 14.38 | 11 | 9.74 | 21.19 | 11.39 |
| 227526 | 'Cdnf' | 0 | 0 | 0.03 | 0.04 | 0 | 0.03 | 0.07 | 0 | 0.39 | 0.06 |
| 22754 | 'Zfp92' | 11.84 | 6.51 | 3.66 | 1.39 | 6.02 | 0.35 | 2.86 | 8.97 | 7.57 | 3.92 |
| 227541 | 'Camk1d' | 0.68 | 0.32 | 1.2 | 1.82 | 2.49 | 2.85 | 4.95 | 0.79 | 0.36 | 0.85 |
| 227545 | 'Proser2' | 1.52 | 2.46 | 1.14 | 1.3 | 2.34 | 2.66 | 0.01 | 2.23 | 0.62 | 1.68 |
| 22755 | 'Zfp93' | 0 | 2.12 | 0.11 | 0.01 | 3.18 | 0.7 | 1.19 | 4.32 | 2.44 | 1.3 |
| 22756 | 'Zfp94' | 5.51 | 1.76 | 4.76 | 1.79 | 3.66 | 9.11 | 13.5 | 3.94 | 1.06 | 8.53 |
| 22757 | 'Zkscan5' | 4.29 | 4.82 | 5.04 | 0 | 2.27 | 1.04 | 8.43 | 3.78 | 2.66 | 2.61 |
| 22758 | 'Zscan12' | 1.41 | 0 | 0.94 | 0.16 | 1.32 | 0.45 | 0.07 | 0.11 | 0.01 | 1.23 |
| 227580 | 'C1ql3' | 1.41 | 0 | 1.21 | 4.3 | 2 | 0.76 | 2.76 | 3.8 | 5.2 | 0.97 |
| 22759 | 'Zfp97' | 2.93 | 2.26 | 0.06 | 0.04 | 10 | 4.85 | 4.11 | 0.56 | 1.62 | 1.33 |
| 22761 | 'Zfpm1' | 0 | 0.17 | 0 | 0.01 | 0 | 0 | 0.24 | 0 | 1.64 | 0 |
| 227612 | 'Tor4a' | 2.15 | 2.35 | 3.8 | 5.18 | 2.82 | 6.1 | 2.25 | 1.44 | 2.78 | 3.76 |
| 227613 | 'Tubb4b' | 374.1 | 341.2 | 428 | 228 | 414 | 608.1 | 323 | 498.6 | 285.5 | 384.04 |
| 227615 | 'Tmem203' | 7.83 | 13.31 | 8.45 | 7.05 | 19.6 | 17.09 | 7.19 | 9.91 | 19.49 | 12.65 |
| 227619 | 'Man1b1' | 17.53 | 10.78 | 24 | 5.2 | 25 | 9.6 | 12.1 | 14.33 | 28.64 | 27.56 |
| 22762 | 'Zfpm2' | 1.63 | 1.92 | 0.71 | 3.34 | 0.09 | 0.35 | 0.96 | 0.51 | 0 | 0 |
| 227620 | 'Uap1l1' | 11.1 | 27.41 | 44.9 | 43.3 | 36.3 | 53.53 | 22.3 | 22.35 | 65.46 | 22.38 |
| 227622 | 'Paxx' | 45.74 | 40.5 | 61.2 | 70.7 | 67.3 | 67.6 | 35.9 | 54.66 | 62.05 | 49.79 |
| 227624 | 'Rabl6' | 18.7 | 21.87 | 46.7 | 29 | 24.5 | 16.21 | 25.1 | 16.42 | 22.31 | 13.55 |
| 22763 | 'Zfr' | 93.77 | 87.83 | 66.7 | 70.6 | 68.4 | 44.29 | 83.4 | 60.15 | 106.5 | 88.73 |
| 227632 | 'Kcnt1' | 2.96 | 5.17 | 8.89 | 5.54 | 7.23 | 10.13 | 18.1 | 3.69 | 8.68 | 4.85 |
| 227634 | 'Camsap1' | 3.04 | 3.9 | 4.64 | 11.1 | 5.65 | 5.17 | 4.89 | 4.03 | 2.13 | 2.49 |
| 227638 | 'Qsox2' | 9.91 | 12.25 | 30 | 16.3 | 6.67 | 6.96 | 0.41 | 5.96 | 12.43 | 1.96 |
| 22764 | 'Zfx' | 1.36 | 0.09 | 0.54 | 0.78 | 1.15 | 1.65 | 2.64 | 0.93 | 0.98 | 2.8 |
| 227644 | 'Snapc4' | 3.16 | 5.87 | 8.94 | 8.33 | 10.5 | 3.29 | 6.39 | 7.17 | 6.51 | 2.81 |
| 227648 | 'Sec16a' | 1.34 | 2.09 | 11.2 | 4.91 | 3.59 | 1.91 | 6.43 | 1.37 | 6.82 | 4.25 |
| 227656 | 'Rexo4' | 27.63 | 15.57 | 24.5 | 21.2 | 19.9 | 43.52 | 17.8 | 30.75 | 17.62 | 24.82 |
| 227659 | 'Slc2a6' | 10.84 | 13.42 | 9.04 | 19.1 | 12.2 | 6.84 | 32.7 | 31.64 | 12.7 | 3.93 |
| 227671 | 'Gbg1' | 0 | 2.68 | 0.87 | 1.48 | 0 | 0.02 | 1.67 | 2.08 | 0.51 | 1.33 |
| 227674 | 'Ddx31' | 13.39 | 7.24 | 7.05 | 15.5 | 1.83 | 4.42 | 0.04 | 8.94 | 4.4 | 6.52 |
| 227682 | 'Trub2' | 2.87 | 5.92 | 2.98 | 0.19 | 2.97 | 6.74 | 0.6 | 4.09 | 12.5 | 7.58 |
| 227683 | 'Coq4' | 19.3 | 18.97 | 39.6 | 40.7 | 37.3 | 43.86 | 42.9 | 25.75 | 8.3 | 17.66 |
| 227693 | 'Zer1' | 4.75 | 6.45 | 5.73 | 14.1 | 3.75 | 6.52 | 12.9 | 4.15 | 6.45 | 11.14 |
| 227695 | 'Spout1' | 16.23 | 31.13 | 48.5 | 50.3 | 58.8 | 17.68 | 58.9 | 23.15 | 46.42 | 37.75 |
| 227696 | 'Phyhd1' | 8.35 | 2.68 | 0 | 8.38 | 7.53 | 28.92 | 12.8 | 6.05 | 0.54 | 2.22 |
| 227697 | 'Dolk' | 32.7 | 28.73 | 29.9 | 0.05 | 28.8 | 14.08 | 22.7 | 34.18 | 20.54 | 5.99 |
| 227699 | 'Nup188' | 1.35 | 2.29 | 0.69 | 4.17 | 0.93 | 0.6 | 2.81 | 0.01 | 0.92 | 2.93 |
| 22770 | 'Zhx1' | 14.53 | 9.78 | 12.6 | 14.2 | 6.84 | 8.24 | 7.32 | 13.25 | 7.15 | 11.12 |
| 227700 | 'Sh3glb2' | 90.13 | 129.4 | 109 | 101 | 154 | 140.4 | 154 | 132.8 | 117 | 121.87 |
| 227707 | 'BC005624' | 125.6 | 117.3 | 67.9 | 149 | 127 | 169.1 | 74.8 | 146.4 | 105.4 | 149.46 |
| 22771 | 'Zic1' | 4.35 | 5.16 | 5.23 | 2.04 | 6.08 | 12.71 | 17.2 | 1.16 | 9.11 | 7.16 |
| 227715 | 'Exosc2' | 28.64 | 48.92 | 11 | 89.3 | 26.9 | 20.34 | 5.19 | 41.37 | 19.83 | 22.26 |
| 227717 | 'Qrfp' | 0 | 0.33 | 0 | 0 | 0 | 0 | 0.36 | 0 | 0 | 0 |
| 22772 | 'Zic2' | 0.28 | 0.43 | 0.37 | 0.02 | 1.88 | 0.05 | 0.18 | 0 | 0.01 | 3.55 |
| 227720 | 'Nup214' | 8.03 | 6.3 | 6.87 | 3.33 | 4.63 | 5.13 | 3.14 | 2.67 | 5.32 | 2.78 |
| 227721 | 'Plpp7' | 18.52 | 25.89 | 12.8 | 0.06 | 34.4 | 32.76 | 29.5 | 37.85 | 14.19 | 23.9 |
| 227723 | 'Prrc2b' | 13.4 | 12.56 | 13.7 | 18.5 | 13.6 | 9.37 | 16.9 | 3.88 | 6.26 | 10.44 |
| 22773 | 'Zic3' | 2.9 | 0.4 | 6.39 | 0 | 4.19 | 0.76 | 9.33 | 2.2 | 2.03 | 7.69 |
| 227731 | 'Slc25a25' | 31.26 | 29.81 | 72.2 | 25.5 | 27.9 | 19.82 | 43.4 | 27.73 | 24.82 | 18.2 |
| 227733 | 'Pip5kl1' | 1.82 | 1.36 | 3.71 | 0 | 1.32 | 6.14 | 0.07 | 4.56 | 2.66 | 0 |
| 227736 | 'Cfap157' | 0.21 | 0 | 0.93 | 0 | 0.51 | 0 | 0 | 0.05 | 0 | 0.31 |
| 227737 | 'Fam129b' | 1.46 | 3.34 | 2.98 | 0 | 5.63 | 0 | 0 | 0.75 | 0 | 0.06 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 228714 | 'Kat14' | 6.43 | 2.12 | 2.13 | 8.79 | 6.5 | 0.06 | 1.79 | 4.75 | 7.12 | 4.19 |
| 228715 | 'Smim26' | 73.11 | 53.42 | 54.4 | 85.7 | 43.1 | 112 | 51.9 | 43.25 | 48.5 | 43.14 |
| 228730 | 'Kiz' | 9.63 | 16.45 | 7.2 | 21.1 | 19.2 | 32.73 | 52.8 | 16.98 | 7.74 | 13.12 |
| 228756 | 'Cstl1' | 0 | 2.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 228765 | 'Sdcbp2' | 2.93 | 0 | 1.54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 228769 | 'Psmf1' | 24.58 | 34.74 | 25.1 | 16.7 | 20.2 | 38.01 | 22.2 | 23.22 | 34.81 | 46.11 |
| 228770 | 'Rspo4' | 1.2 | 0 | 0 | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 |
| 228775 | 'Trib3' | 0.47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 228777 | 'Nrsn2' | 757.8 | 920.5 | 857 | 863 | 632 | 854.7 | 824 | 892.7 | 894.2 | 1181.82 |
| 228778 | '6820408C15Rik' | 2.06 | 5.12 | 3.94 | 1.3 | 2.87 | 9.56 | 4.83 | 1.91 | 1.1 | 5.18 |
| 228787 | 'Xkr7' | 0.4 | 0 | 0.94 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 228788 | 'Ccm2l' | 0 | 1.19 | 0 | 0 | 0 | 0 | 0 | 0.31 | 0 | 0.17 |
| 228790 | 'Asxl1' | 0.01 | 2.28 | 6.66 | 4.59 | 6.92 | 1.89 | 3 | 3.15 | 0.01 | 5.33 |
| 228801 | 'Bpifb1' | 10.82 | 0 | 0.86 | 7.67 | 0 | 0 | 0 | 1.14 | 0 | 3.87 |
| 228802 | 'Bpifb5' | 0 | 1.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 228807 | 'Zfp341' | 0.52 | 0 | 1.11 | 5.05 | 1.42 | 0.02 | 2.3 | 0 | 0.33 | 0 |
| 228812 | 'Pigu' | 53.13 | 32.61 | 43.5 | 0 | 39.8 | 58.75 | 42.7 | 59.01 | 60 | 54.87 |
| 228829 | 'Phf20' | 23.79 | 14.54 | 17.9 | 29.3 | 27.7 | 14.52 | 21.9 | 19.93 | 13.84 | 19.55 |
| 228836 | 'Dlgap4' | 22.21 | 24.19 | 21.1 | 32 | 20.7 | 15.41 | 27.4 | 14.41 | 14.45 | 7.76 |
| 228839 | 'Tgif2' | 1.67 | 1.94 | 1.47 | 3.94 | 1.05 | 0.15 | 0 | 2.64 | 0.28 | 4.01 |
| 228846 | 'D630003M21Rik' | 0 | 1.37 | 0.04 | 0 | 0 | 2.51 | 0 | 0.01 | 0 | 0 |
| 228850 | 'Ralgapb' | 1.56 | 2.68 | 1.28 | 2.33 | 3.44 | 1.68 | 0.22 | 1.13 | 1.67 | 4.12 |
| 228852 | 'Ppp1r16b' | 20.64 | 17.27 | 13.1 | 20.8 | 26.7 | 29.89 | 12.6 | 13.99 | 13.18 | 14.46 |
| 228858 | 'Gdap11l1' | 81.38 | 75.84 | 68.8 | 52.7 | 43.3 | 59.53 | 66.7 | 77.64 | 77.47 | 44.94 |
| 228859 | 'Fitm2' | 11.32 | 10.47 | 16.6 | 9.74 | 2.36 | 14.51 | 11.2 | 15.66 | 14.23 | 3.17 |
| 228866 | 'Pcif1' | 14.76 | 12.7 | 18.1 | 25.2 | 23.8 | 8.47 | 22.3 | 15.87 | 24.04 | 15.81 |
| 228869 | 'Ncoa5' | 2.16 | 7.39 | 1.69 | 2.98 | 8.05 | 0.44 | 0.02 | 2.98 | 1.33 | 0.57 |
| 228875 | 'Slc35c2' | 29.5 | 27.2 | 58.9 | 0 | 51.1 | 35.92 | 46.8 | 34.12 | 28.89 | 22.72 |
| 228876 | 'Zfp334' | 0.99 | 1.39 | 3.67 | 6.12 | 0.2 | 1.13 | 3.21 | 1.79 | 0 | 3.97 |
| 228880 | 'Zmynd8' | 31.85 | 51.21 | 41.4 | 67.5 | 52.4 | 39.47 | 16.8 | 31.47 | 62.26 | 66.89 |
| 228889 | 'Ddx27' | 10.7 | 19.41 | 20.6 | 12.2 | 14 | 12.15 | 15.9 | 7.58 | 14.94 | 14.05 |
| 228911 | 'Tshz2' | 7.47 | 9.04 | 8.25 | 10.6 | 9.12 | 8.51 | 16.3 | 8.42 | 12.32 | 6.31 |
| 228913 | 'Zfp217' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0.03 | 0 | 0.05 |
| 228942 | 'Cbln4' | 12.25 | 3.7 | 17.3 | 12.3 | 26.5 | 24.72 | 72.2 | 11.29 | 5.74 | 23.43 |
| 228960 | 'Stx16' | 6.52 | 8.32 | 14.4 | 13 | 21.4 | 12.22 | 5.45 | 15.01 | 31.62 | 10.25 |
| 228961 | 'Npepl1' | 5.97 | 1.35 | 0 | 0.11 | 0 | 0.02 | 0.02 | 0 | 1.76 | 2.36 |
| 228966 | 'Ppp1r3d' | 0 | 3.46 | 0 | 0 | 0 | 0 | 1.08 | 2.16 | 1.47 | 0 |
| 228980 | 'Taf4' | 0.69 | 1.79 | 2.93 | 0 | 1.38 | 0 | 0.83 | 0.66 | 0 | 2.06 |
| 228983 | 'Osbp12' | 27 | 55.61 | 45.6 | 43.1 | 54.4 | 32.06 | 8.58 | 33.91 | 40.58 | 49.37 |
| 228993 | 'Slc17a9' | 0 | 0 | 0 | 0 | 0 | 3.64 | 0 | 0 | 0 | 0 |
| 228994 | 'Ythdf1' | 1.44 | 1.6 | 3.14 | 4.23 | 3 | 3.67 | 0.14 | 2.85 | 2.07 | 0.6 |
| 228998 | 'Arfgap1' | 57.88 | 34.48 | 39.4 | 56.1 | 69.5 | 59.08 | 87.9 | 61.59 | 65.48 | 42.18 |
| 229003 | 'Helz2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.84 |
| 229004 | 'Gmeb2' | 2.08 | 2.91 | 0 | 0 | 0.4 | 1.6 | 0.01 | 2.3 | 1.51 | 1.41 |
| 229007 | 'Zgpat' | 38.25 | 28.89 | 35.8 | 0.97 | 35.7 | 19.16 | 55.4 | 22.14 | 23.94 | 12.09 |
| 229011 | 'Samd10' | 10.53 | 19.23 | 23.9 | 2.01 | 34.1 | 8.01 | 22.3 | 12.04 | 32.55 | 12.44 |
| 229055 | 'Zbtb10' | 0.2 | 0.21 | 0.76 | 2.36 | 0.03 | 0 | 0.01 | 0.01 | 0.02 | 0.01 |
| 229096 | 'Ythdf3' | 5.61 | 6.08 | 6.94 | 4.47 | 6.09 | 1.13 | 3.14 | 1.84 | 3.77 | 3.24 |
| 229211 | 'Acad9' | 17.25 | 20.39 | 17.7 | 7.8 | 18.3 | 24.5 | 23.2 | 31.86 | 16.65 | 17.27 |
| 229214 | 'Qrfpr' | 0 | 0 | 1.13 | 0 | 0 | 5.48 | 1.76 | 0.22 | 2.2 | 0 |
| 229227 | '4932438A13Rik' | 3.46 | 3.3 | 6.19 | 9.38 | 5.69 | 3.04 | 6.98 | 3.4 | 9.86 | 10.95 |
| 229228 | 'Nudt6' | 4.26 | 3.18 | 0.13 | 32.5 | 2.9 | 4.41 | 6.83 | 0.32 | 7.67 | 2.88 |
| 229279 | 'Hnrnpa3' | 30.39 | 44.17 | 25.6 | 16.8 | 39 | 25.17 | 45.3 | 32.1 | 45.97 | 41.11 |
| 229285 | 'Spg20' | 16.53 | 15.33 | 9.71 | 5.98 | 14 | 8.26 | 7.5 | 12.91 | 11.55 | 28.87 |
| 229302 | 'Tm4sf4' | 2.31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 229317 | 'Eif2a' | 7.29 | 6.25 | 8.78 | 14.6 | 6.94 | 12.86 | 3.45 | 9.89 | 13.04 | 18.55 |
| 229320 | 'Clm1' | 0 | 3.48 | 0.07 | 3.23 | 0 | 0 | 0.07 | 2.99 | 0.01 | 0.01 |
| 229323 | 'Gpr171' | 1.9 | 0 | 0.3 | 10.7 | 1.22 | 1.68 | 0 | 0 | 2.9 | 0 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 229357 | 'Gpr149' | 7.29 | 6.44 | 0.89 | 0 | 4.62 | 2.97 | 4.96 | 4.2 | 0.19 | 1.33 |
| 229363 | 'Gmps' | 18.95 | 22.3 | 13.5 | 25.8 | 26 | 20.27 | 24.1 | 12.19 | 15.52 | 41.68 |
| 229445 | 'Ctso' | 7.89 | 5.41 | 13.7 | 17.1 | 3.83 | 14.71 | 7.16 | 8.95 | 6.53 | 19.39 |
| 229473 | 'Tmem131l' | 3.86 | 6.65 | 0.97 | 1.37 | 14.1 | 5.93 | 4.24 | 5.72 | 7.87 | 10.17 |
| 229474 | 'Fhdc1' | 0 | 0 | 0.26 | 1.24 | 0 | 0 | 0 | 0 | 0 | 0 |
| 229487 | 'Gatb' | 18.07 | 6.03 | 22.4 | 0.03 | 21 | 22.98 | 6.21 | 38.86 | 22.13 | 14.13 |
| 229488 | 'Fam160a1' | 0 | 0.75 | 0 | 0 | 0 | 0 | 0.5 | 0.63 | 0 | 0 |
| 229499 | 'Fcr1l' | 0 | 0 | 0 | 0 | 0 | 6.99 | 0 | 0 | 0 | 0 |
| 229503 | 'Rrnad1' | 15.99 | 18.46 | 23.3 | 9.95 | 25.9 | 3.44 | 18.8 | 15.06 | 22.07 | 27.41 |
| 229504 | 'lsg20l2' | 2.91 | 0.26 | 2.82 | 0 | 0.08 | 0.69 | 0 | 3.38 | 13.13 | 0.83 |
| 229512 | 'Smg5' | 19.25 | 11.06 | 19.6 | 18.5 | 17.6 | 14.1 | 5.62 | 10.59 | 17.41 | 10.32 |
| 229517 | 'Slc25a44' | 20.48 | 10.97 | 23.5 | 17.3 | 21.2 | 13.49 | 9.24 | 31.31 | 16.44 | 13.57 |
| 229521 | 'Syt11' | 313.4 | 279.8 | 294 | 195 | 252 | 359.4 | 298 | 381.5 | 282.4 | 259.93 |
| 229524 | 'Msto1' | 32.99 | 34.01 | 26.8 | 12.3 | 53.7 | 19.23 | 49.8 | 37.6 | 24.15 | 50.13 |
| 229534 | 'Pbxip1' | 12.64 | 17.42 | 12.7 | 15.2 | 15.1 | 9.88 | 1.89 | 10.33 | 7.83 | 16.91 |
| 229541 | 'Dennd4b' | 0.09 | 4.03 | 3.02 | 4.86 | 1.18 | 0 | 2.07 | 1.42 | 3.28 | 1.69 |
| 229542 | 'Gatad2b' | 3.79 | 5.83 | 2.71 | 4.58 | 3.18 | 2.54 | 1.93 | 1.54 | 1.67 | 3.09 |
| 229543 | 'Ints3' | 7.98 | 7.86 | 7.39 | 6.11 | 2.56 | 1.03 | 16.4 | 3.09 | 6.44 | 3.41 |
| 229574 | 'Flg2' | 0.01 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 229584 | 'Pogz' | 3.85 | 2.03 | 5.1 | 6.98 | 2.34 | 0 | 3.76 | 5.71 | 4.55 | 8.29 |
| 229588 | 'Gm128' | 0 | 0.03 | 0 | 0 | 0 | 0 | 6.59 | 0 | 0 | 0 |
| 229589 | 'Prune1' | 11.44 | 12.13 | 11.7 | 18.8 | 15.9 | 13.7 | 15.5 | 14.07 | 21.52 | 25.13 |
| 229593 | 'Golp3l' | 9.88 | 7.9 | 8.07 | 0.11 | 10.5 | 1.15 | 4.31 | 7.49 | 10.73 | 11.01 |
| 229595 | 'Adamtsl4' | 0 | 0 | 0 | 0 | 0.49 | 2.43 | 0.02 | 0.88 | 1.22 | 0.02 |
| 229599 | 'Ciarl' | 22.09 | 23.45 | 22.6 | 88.8 | 12.5 | 19.99 | 19.7 | 20.03 | 5.75 | 9.8 |
| 229600 | 'BC028528' | 1.25 | 1.51 | 8.44 | 8.29 | 1.14 | 2.05 | 17.5 | 1.52 | 1.92 | 2.47 |
| 229603 | 'Otud7b' | 1.26 | 0.91 | 1.86 | 1.16 | 1.47 | 2.04 | 0.66 | 0.11 | 2.93 | 0.81 |
| 229615 | 'Pias3' | 18.68 | 19.56 | 14.8 | 3.44 | 15.8 | 11.54 | 30.3 | 30.19 | 13.85 | 16.74 |
| 229644 | 'Trim45' | 9.72 | 7.8 | 2.43 | 17.1 | 15.4 | 5.83 | 15.9 | 6.14 | 5.72 | 8.88 |
| 229658 | 'Vangl1' | 0.33 | 1.15 | 1.49 | 11.7 | 1.69 | 0 | 0.01 | 0 | 0 | 0.93 |
| 229663 | 'Csde1' | 54.85 | 64.87 | 63.5 | 53.5 | 36.8 | 23.44 | 48.4 | 42.01 | 54.11 | 72.51 |
| 229665 | 'Ampd1' | 0.04 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 229672 | 'Bcl2l15' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 |
| 229675 | 'Rsb1l' | 6.61 | 4.57 | 6.33 | 12.1 | 5.25 | 4.21 | 10.1 | 3.61 | 7.78 | 1.32 |
| 229681 | 'St7l' | 11.3 | 10.17 | 8.2 | 13.3 | 7.65 | 9.9 | 12.7 | 3.09 | 11.04 | 18.01 |
| 229687 | 'Chil5' | 0 | 1.57 | 0.54 | 1.44 | 1.02 | 0.75 | 0.89 | 0.21 | 0 | 0.16 |
| 229699 | 'Slc16a4' | 0.05 | 0 | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 |
| 229700 | 'Rbm15' | 2.61 | 0.68 | 1.36 | 1.58 | 0.91 | 0.65 | 1.34 | 0.41 | 0.61 | 0.91 |
| 229706 | 'Slc6a17' | 8.85 | 4.19 | 9.83 | 7.69 | 13.3 | 14.57 | 0.87 | 6.14 | 8.61 | 7.69 |
| 229707 | 'Strip1' | 50.66 | 47.33 | 35.6 | 56.4 | 36.2 | 20.72 | 53.3 | 38.32 | 46.23 | 33.97 |
| 229709 | 'Ahcyl1' | 24.04 | 16.41 | 21.5 | 8.62 | 19.3 | 10.42 | 26.7 | 12.35 | 19.51 | 9.07 |
| 229714 | 'Gpr61' | 12.24 | 10.03 | 8.01 | 0 | 9.48 | 1.7 | 7.47 | 10.29 | 18 | 4.53 |
| 229715 | 'Amigo1' | 1.82 | 3.25 | 4.19 | 1.59 | 4.68 | 4.5 | 2.8 | 1.3 | 3.66 | 0.83 |
| 229722 | '5330417C22Rik' | 14.19 | 28.61 | 19.5 | 13.2 | 25.1 | 9.34 | 7.52 | 19.58 | 36.03 | 33.42 |
| 229725 | 'Clcc1' | 8.39 | 25.86 | 21.2 | 9.81 | 17.9 | 15.54 | 19.2 | 19.32 | 17.94 | 21.51 |
| 229731 | 'Slc25a24' | 0 | 0 | 0.01 | 0 | 1.76 | 0 | 0 | 1.04 | 0.89 | 1.94 |
| 229759 | 'Olfm3' | 38.94 | 16.74 | 7.78 | 14 | 3.62 | 1.37 | 15.2 | 10.46 | 12.51 | 5.6 |
| 229776 | 'Cdc14a' | 0.01 | 0 | 0.01 | 7.6 | 0 | 0 | 1.11 | 0 | 0 | 0 |
| 229780 | 'Trmt13' | 3.38 | 3.93 | 3.1 | 7.52 | 5.38 | 5.13 | 10.8 | 7.24 | 6.3 | 10.03 |
| 229782 | 'Slc35a3' | 0.15 | 1.19 | 1.97 | 2.89 | 2.12 | 0.91 | 0.01 | 0.07 | 2.41 | 1.32 |
| 229791 | 'Plppr4' | 34.91 | 28.58 | 11.1 | 30.1 | 26.9 | 12.75 | 15.7 | 22.85 | 21.5 | 22.65 |
| 229801 | 'Tram1l1' | 137.7 | 124.7 | 71.8 | 68.1 | 84.2 | 90.48 | 94.8 | 117.4 | 85.85 | 125.73 |
| 229841 | 'Cenpe' | 0.01 | 0.01 | 0.01 | 0 | 0.43 | 0.13 | 0.01 | 0.89 | 0 | 0 |
| 229877 | 'Rap1gds1' | 25.43 | 24.38 | 37.1 | 31.6 | 16.5 | 6.22 | 17.7 | 32.61 | 8.28 | 18.45 |
| 229898 | 'Gbp5' | 0.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0.25 | 0 | 0 |
| 229900 | 'Gbp7' | 1.18 | 0.42 | 1.63 | 3.09 | 0.41 | 0 | 0 | 0.03 | 1.27 | 2.58 |
| 229905 | 'Kyat3' | 0.02 | 2.53 | 3.99 | 0 | 1.58 | 0.03 | 0.25 | 0 | 3.06 | 0 |
| 229906 | 'Gtf2b' | 37.99 | 33.96 | 37.6 | 60.3 | 48 | 82.88 | 41 | 42.85 | 58.11 | 44.58 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 229927 | 'Clca3b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 229937 | 'Znhit6' | 18.55 | 27.51 | 18.2 | 5.04 | 33.5 | 39.89 | 26.5 | 10.52 | 19.67 | 10.35 |
| 229949 | 'Ak5' | 5.27 | 6.73 | 16.7 | 18 | 3.44 | 0 | 10.3 | 9.7 | 34.51 | 7.49 |
| 230025 | 'Prdm13' | 0 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 230027 | 'Coq3' | 25 | 9.68 | 17 | 8.44 | 15 | 15.33 | 10.3 | 13 | 12.57 | 18.96 |
| 230073 | 'Ddx58' | 0.02 | 0.62 | 0.46 | 7.35 | 0.76 | 1.01 | 0 | 0.47 | 0.93 | 2.47 |
| 230075 | 'Ndufb6' | 424.7 | 356.3 | 484 | 384 | 362 | 449.3 | 482 | 410.7 | 429.9 | 385.08 |
| 230082 | 'Nol6' | 14.79 | 25.17 | 40.6 | 6.25 | 16 | 6.98 | 40.5 | 17.35 | 20.53 | 16.17 |
| 230085 | 'Phf24' | 10.96 | 5.99 | 17 | 4.85 | 8.65 | 5.22 | 7.11 | 8.1 | 3.19 | 7.4 |
| 230088 | 'Fam214b' | 10.53 | 18.76 | 11 | 15.7 | 16.1 | 21.11 | 31.4 | 3.59 | 21.93 | 14.1 |
| 230098 | 'Arhgef39' | 0 | 0.93 | 0 | 0 | 0 | 1.85 | 0 | 0.25 | 0 | 0 |
| 230099 | 'Car9' | 0 | 0 | 0 | 2.11 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 230101 | 'Gba2' | 5.15 | 8.32 | 11.9 | 16.1 | 16.8 | 10.15 | 18.6 | 13.93 | 20.9 | 11.06 |
| 230103 | 'Npr2' | 8.13 | 11.94 | 5.46 | 19.4 | 1.58 | 7.25 | 13.4 | 3.36 | 5.88 | 6.69 |
| 230119 | 'Zbtb5' | 5.96 | 1.19 | 3.73 | 2.22 | 3.91 | 1.01 | 0 | 0.01 | 2.28 | 1.28 |
| 230125 | 'Slc25a51' | 34.97 | 17.35 | 27.6 | 20.1 | 18.8 | 18.63 | 25.8 | 21.21 | 30.12 | 34.47 |
| 230126 | 'Shb' | 0.14 | 0 | 0.02 | 0 | 9.51 | 0 | 0.78 | 1.58 | 2.91 | 5.33 |
| 230145 | 'Galnt12' | 0.97 | 0 | 0 | 0 | 0 | 4.23 | 0 | 0.03 | 6.64 | 2.42 |
| 230157 | 'Tmeff1' | 4.95 | 4.54 | 10.8 | 20.6 | 11.6 | 12.27 | 10.8 | 4.68 | 10.87 | 3.33 |
| 230161 | 'Acnat1' | 0.03 | 0.08 | 0.08 | 0.17 | 0.04 | 0.09 | 0.1 | 0.02 | 0.09 | 0.04 |
| 230162 | 'Zfp189' | 4.64 | 3.89 | 5.14 | 4.1 | 1.5 | 0 | 0.02 | 2.97 | 4.78 | 4.65 |
| 230163 | 'Aldob' | 0.04 | 0.86 | 0 | 3.22 | 5.89 | 0 | 0 | 3.8 | 0.89 | 1.04 |
| 230233 | 'Elp1' | 7.64 | 13.59 | 26.9 | 2.6 | 19.2 | 6.69 | 9.15 | 7.52 | 11.44 | 7.96 |
| 230234 | 'Fam206a' | 2.67 | 6.39 | 5.51 | 7.22 | 3.39 | 1.11 | 1.55 | 2.42 | 6.84 | 0.52 |
| 230235 | 'Frrs1l' | 8.84 | 10.59 | 7.56 | 5.11 | 18.1 | 12.4 | 4.42 | 10.83 | 5.69 | 5.27 |
| 230249 | 'Ecpas' | 5.9 | 4.22 | 8.88 | 10 | 3.88 | 3 | 3.7 | 3.13 | 7.16 | 11.62 |
| 230257 | 'Ptbp3' | 1.12 | 1.63 | 0.25 | 0.06 | 0.96 | 0.59 | 0 | 0 | 1.39 | 0.08 |
| 230259 | 'E130308A19Rik' | 4 | 0 | 1.32 | 0 | 6.85 | 3.88 | 0.24 | 1.01 | 0 | 1.98 |
| 230279 | 'Tmem268' | 2.91 | 0.91 | 6.53 | 0 | 10.7 | 9.4 | 8.1 | 12.13 | 4.58 | 5.67 |
| 230316 | 'Megf9' | 6.72 | 0.03 | 10.3 | 13.2 | 2.45 | 0 | 4.23 | 0.04 | 4.93 | 1.13 |
| 230376 | 'Haus6' | 0.66 | 0 | 2.16 | 1.03 | 3.83 | 1.26 | 0 | 1.04 | 4.38 | 1.28 |
| 230379 | 'Acer2' | 7.5 | 6.8 | 4.49 | 5.53 | 4.86 | 18.72 | 4.71 | 4.74 | 2.56 | 11.2 |
| 230393 | 'Focad' | 2.93 | 4.66 | 9.19 | 21.4 | 3.69 | 5.34 | 6.66 | 0.83 | 7.58 | 5.76 |
| 230459 | 'Cyp2j13' | 0.01 | 0.01 | 0 | 0 | 0.04 | 0.02 | 0.01 | 0 | 0.08 | 0 |
| 230484 | 'Usp1' | 0 | 1 | 2.81 | 12 | 3.31 | 0.01 | 0.03 | 1.52 | 1.99 | 0.08 |
| 230500 | 'Efcab7' | 0.94 | 4.05 | 0 | 0 | 0.03 | 4.08 | 0 | 0.07 | 1.52 | 0.05 |
| 230514 | 'Leprot' | 28.74 | 6.21 | 12.3 | 27.8 | 21.5 | 41.29 | 5.75 | 18.41 | 15.76 | 18.99 |
| 230576 | 'Ttc22' | 5.27 | 3.71 | 0 | 0 | 0 | 13.22 | 6.04 | 3.08 | 15.37 | 8.8 |
| 230577 | 'Pars2' | 3.41 | 6.8 | 0.04 | 0.03 | 2.3 | 0.37 | 11.7 | 3.67 | 10.22 | 2.25 |
| 230579 | 'Fam151a' | 0 | 3.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 230582 | 'Cyb5rl' | 9.81 | 0 | 2.98 | 11 | 11.5 | 12.05 | 0.2 | 0.67 | 3.23 | 14.73 |
| 230584 | 'Yipf1' | 58.14 | 43.44 | 31.6 | 68 | 51.2 | 31.04 | 53.3 | 61.63 | 73.88 | 63.19 |
| 230587 | 'Glis1' | 0 | 1.29 | 0 | 0.24 | 0.17 | 0 | 0 | 0 | 0 | 0 |
| 230594 | 'Tut4' | 2.38 | 3.76 | 1.31 | 5.07 | 3.91 | 4.3 | 3.54 | 1.82 | 4.26 | 2.93 |
| 230596 | 'Prpf38a' | 11.02 | 10.21 | 3.91 | 25.8 | 16.4 | 9.05 | 8.04 | 24.56 | 18.4 | 26.35 |
| 230597 | 'Zfyve9' | 0.39 | 5.16 | 0.78 | 2.36 | 5.31 | 0.71 | 4.43 | 2.3 | 7.55 | 0.71 |
| 230598 | 'Nrd1' | 21.3 | 24.28 | 22.4 | 9.04 | 19.7 | 20.44 | 25.3 | 17.95 | 30.27 | 17.04 |
| 230603 | 'Ttc39a' | 8.18 | 4.59 | 9.36 | 4.1 | 8.3 | 4.77 | 1.95 | 0 | 0.82 | 4.75 |
| 230648 | 'Efcab14' | 9.53 | 11.23 | 4.22 | 4.38 | 16.1 | 7.05 | 9.76 | 6.22 | 2.98 | 8.42 |
| 230649 | 'Atpaf1' | 9.98 | 16.53 | 9.94 | 19.1 | 9.27 | 22.19 | 6.66 | 13.8 | 16.12 | 7.02 |
| 230654 | 'Lrrc41' | 30.75 | 37.45 | 52.8 | 21.8 | 29.3 | 37.39 | 17 | 29.02 | 35.26 | 37.31 |
| 230657 | 'Tmem69' | 2.03 | 1.22 | 7.37 | 11.5 | 16.9 | 2.97 | 6.73 | 2.03 | 5.34 | 6.01 |
| 230661 | 'Tesk2' | 0 | 6.49 | 2.73 | 6.23 | 0.06 | 0 | 0.02 | 1.45 | 0 | 2.48 |
| 230673 | 'Ipo13' | 13.93 | 15.05 | 13.3 | 24.1 | 18.6 | 12.75 | 23.9 | 6.94 | 16.56 | 8.21 |
| 230674 | 'Kdm4a' | 9.38 | 4.03 | 3.56 | 3.24 | 4.43 | 5.44 | 4.94 | 9.84 | 1.38 | 4.15 |
| 230676 | 'Szt2' | 2.2 | 0.95 | 2.82 | 0.19 | 0.89 | 1.08 | 2.08 | 1.28 | 0.07 | 0.91 |
| 230678 | 'Tmem125' | 5.46 | 3.23 | 0 | 0 | 3.51 | 1.57 | 0 | 0 | 0 | 0 |
| 230696 | 'AU022252' | 10.29 | 6.35 | 12.9 | 5.98 | 6.89 | 14.63 | 3.86 | 15.01 | 5.12 | 3.84 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 230700 | 'Foxj3' | 10.63 | 14.81 | 15.8 | 26.7 | 11.2 | 12.89 | 10.5 | 4.34 | 18.81 | 11.81 |
| 230709 | 'Zmpste24' | 5.75 | 19.01 | 6.8 | 5.28 | 5.16 | 1.12 | 10.5 | 10.02 | 9.78 | 7.92 |
| 230718 | 'Nt5c1a' | 1.26 | 0.96 | 3.32 | 0 | 1.26 | 0.14 | 5.16 | 2.55 | 1.67 | 0.56 |
| 230721 | 'Pabpc4' | 3.72 | 2.65 | 2.35 | 2.66 | 0.49 | 2.8 | 3.29 | 3.81 | 4.09 | 7.72 |
| 230726 | 'Rhbdl2' | 0.07 | 0.12 | 0.09 | 0.16 | 0.33 | 0 | 0.11 | 0.1 | 0.18 | 0.07 |
| 230734 | 'Yrdc' | 6.03 | 7.1 | 8.14 | 19.2 | 5.64 | 2.44 | 0.29 | 3.37 | 1.73 | 2.55 |
| 230735 | 'Epha10' | 5.51 | 0.09 | 6.37 | 1 | 12.1 | 8.9 | 1.26 | 5.45 | 1.11 | 0 |
| 230737 | 'Gnl2' | 48.28 | 40.78 | 47.5 | 66.3 | 32 | 48.99 | 40.7 | 57.73 | 45.6 | 50.76 |
| 230738 | 'Zc3h12a' | 0 | 0.02 | 0.01 | 0 | 0.03 | 0.16 | 0 | 0 | 0 | 0.02 |
| 230751 | 'Oscp1' | 28.82 | 25.91 | 32.3 | 18.3 | 40.6 | 43.38 | 56.2 | 34.82 | 20.51 | 37.04 |
| 230752 | 'Eva1b' | 0 | 0.89 | 0.47 | 0 | 0 | 0 | 0 | 0.6 | 0 | 0 |
| 230753 | 'Thrap3' | 24.24 | 26.64 | 20 | 34.4 | 27.3 | 24.46 | 22 | 22.31 | 38.27 | 30.78 |
| 230757 | '5730409E04Rik' | 24.29 | 22.84 | 13.8 | 9.37 | 12.9 | 7.81 | 20.1 | 22.55 | 6.04 | 14.7 |
| 230761 | 'Zfp362' | 2.29 | 5.41 | 5.24 | 7.85 | 4.69 | 3.67 | 8.8 | 3.72 | 6.67 | 3.69 |
| 230767 | 'Iqcc' | 15.81 | 11.14 | 0.48 | 9.2 | 9.74 | 11.16 | 11.3 | 11.73 | 1.74 | 5.57 |
| 230770 | 'Tmem39b' | 10.64 | 12.7 | 15.7 | 1.49 | 0.95 | 7 | 23.6 | 13.52 | 29.24 | 22.81 |
| 230775 | 'Adgrb2' | 4.12 | 2.39 | 1.08 | 1.34 | 5.1 | 0.03 | 4.17 | 0.01 | 1.6 | 0 |
| 230777 | 'Hcrtr1' | 9 | 27.15 | 4.91 | 0 | 1.39 | 11.72 | 11.5 | 22.58 | 20.18 | 0 |
| 230779 | 'Serinc2' | 2.79 | 0.32 | 0.11 | 0.2 | 0.13 | 0.14 | 0.06 | 0.12 | 2.42 | 0.08 |
| 230784 | 'Sesn2' | 20.32 | 14.89 | 14.8 | 1.72 | 8.32 | 3.71 | 8.68 | 19.81 | 7.84 | 1.91 |
| 230789 | 'Fam76a' | 36.93 | 29.08 | 47.3 | 31.3 | 26.8 | 24.33 | 28.7 | 21.07 | 31.96 | 21.36 |
| 230793 | 'Ahdc1' | 0.17 | 2.97 | 1.31 | 3.38 | 1.7 | 1.11 | 1 | 1.03 | 0.75 | 0.95 |
| 230796 | 'Wdtdc1' | 1.4 | 1.37 | 0.76 | 2.82 | 4.06 | 1.78 | 8.1 | 4.16 | 6.56 | 0.98 |
| 230801 | 'Pigv' | 6.53 | 7.53 | 3.46 | 10.4 | 21.1 | 3.97 | 4.67 | 5.01 | 1.23 | 19.92 |
| 230806 | 'Crybg2' | 0.51 | 0 | 0 | 0 | 0.24 | 0.01 | 0 | 0 | 1.81 | 0 |
| 230809 | 'Pdik11' | 2.77 | 6.76 | 5.12 | 0.06 | 8.94 | 3.23 | 3.46 | 0.89 | 9.95 | 8.2 |
| 230815 | 'Man1c1' | 0 | 1.27 | 2.43 | 0 | 2.65 | 1.23 | 0.05 | 0.18 | 4.13 | 0.15 |
| 230822 | 'Ncmap' | 0 | 4.9 | 5.46 | 0.76 | 7.79 | 0 | 8.28 | 1.94 | 16.14 | 3.86 |
| 230824 | 'Grhl3' | 2.73 | 0 | 0 | 4.35 | 0 | 0 | 0 | 0 | 0 | 0 |
| 230837 | 'Asap3' | 0 | 2.11 | 1.5 | 2.13 | 0.21 | 1.91 | 2.39 | 1.42 | 0 | 0.04 |
| 230848 | 'Zbtb40' | 1.36 | 0 | 0.7 | 0 | 0.09 | 0.85 | 0 | 0.13 | 0.03 | 0.09 |
| 230857 | 'Ece1' | 18.22 | 28.54 | 19.2 | 47.9 | 14.6 | 20.58 | 18.8 | 21.95 | 25.71 | 30.94 |
| 230861 | 'Eif4g3' | 12.11 | 8.77 | 12.3 | 9.5 | 8.62 | 6.79 | 4.2 | 7.64 | 3.18 | 1.6 |
| 230863 | 'Sh2d5' | 13.13 | 16.64 | 13.7 | 11 | 23.5 | 15.85 | 18.3 | 9.95 | 25.38 | 20.99 |
| 230866 | 'Emc1' | 33.55 | 38.75 | 45.3 | 32.9 | 23.7 | 10.76 | 35.9 | 27.92 | 36.48 | 25.4 |
| 230868 | 'Igsf21' | 14.89 | 12.88 | 26.6 | 26.8 | 41.7 | 2.43 | 21.6 | 35.56 | 0 | 2.56 |
| 230872 | 'Crocc' | 2.29 | 3.84 | 3.02 | 5.55 | 3.93 | 5.74 | 2.53 | 2.6 | 6.32 | 2.24 |
| 230895 | 'Vps13d' | 1.68 | 0.63 | 1.19 | 1.45 | 1.45 | 0.77 | 2.59 | 0.95 | 2.03 | 0.45 |
| 230899 | 'Nppa' | 0.11 | 1.87 | 8.26 | 19.3 | 1.08 | 0.22 | 0 | 0 | 0 | 0.99 |
| 230903 | 'Fbxo44' | 117.1 | 114.5 | 152 | 137 | 169 | 180.1 | 86 | 174.8 | 140.2 | 116.51 |
| 230904 | 'Fbxo2' | 21.82 | 11.67 | 21.3 | 65.7 | 44.8 | 10.68 | 28.8 | 41.55 | 11.66 | 7.79 |
| 230908 | 'Tardbp' | 21.93 | 18.66 | 16.4 | 27.5 | 24 | 12.2 | 24.6 | 18.15 | 22.03 | 14.82 |
| 230917 | 'Tmem201' | 27.17 | 33.58 | 30.3 | 0.91 | 31.3 | 25.67 | 23.7 | 25.21 | 25.77 | 11.28 |
| 230935 | 'Dnajc11' | 40.59 | 38.8 | 21.8 | 36.9 | 56.9 | 37.4 | 32.5 | 39.66 | 39.81 | 26.29 |
| 230936 | 'Phf13' | 5.61 | 6.67 | 1.6 | 16.9 | 5 | 0 | 0.03 | 2.86 | 3.58 | 1.97 |
| 230959 | 'Ajap1' | 0.01 | 0.28 | 0.64 | 0.99 | 0.3 | 4.46 | 1.57 | 0.62 | 2.61 | 1.1 |
| 230967 | 'Cep104' | 6.27 | 9.24 | 5.94 | 8.56 | 4.14 | 2.13 | 8.47 | 5 | 5.38 | 7.84 |
| 230971 | 'Megf6' | 0.48 | 4.08 | 3.37 | 9.5 | 3.1 | 0.2 | 0.2 | 1.85 | 0 | 2.77 |
| 230972 | 'Arhgef16' | 0 | 0 | 3.08 | 0 | 0 | 5.33 | 0 | 0 | 0.19 | 0.07 |
| 230979 | 'Tnfrsf14' | 0.15 | 0 | 0.11 | 0.12 | 0.22 | 0.13 | 0.03 | 0.02 | 0.07 | 0.1 |
| 230991 | 'Fndc10' | 13.49 | 3.83 | 25.7 | 0.48 | 20.3 | 18.7 | 39.4 | 15.77 | 12.09 | 7.61 |
| 230996 | '9430015G10Rik' | 18.84 | 2.12 | 7.99 | 17.7 | 6.74 | 7.68 | 10.2 | 5.88 | 4.33 | 8.48 |
| 231002 | 'Plekhn1' | 2.69 | 0 | 3.63 | 0 | 3.98 | 0 | 2.71 | 0 | 5.25 | 0.85 |
| 231003 | 'Klhl17' | 2.23 | 4.14 | 2.13 | 5.99 | 7.53 | 6.98 | 3.11 | 3.66 | 3.49 | 6.49 |
| 231004 | 'Samd11' | 3.14 | 7.4 | 8.01 | 4.68 | 4.12 | 20.15 | 15.7 | 7.42 | 8.93 | 17.28 |
| 231014 | '9330182L06Rik' | 5.22 | 4.6 | 14.8 | 11.4 | 3.29 | 1.11 | 4.85 | 9.78 | 10.15 | 12.25 |
| 231042 | 'Nupl2' | 2.3 | 5.29 | 1.73 | 3.12 | 5.49 | 7.61 | 7.08 | 6.84 | 1.02 | 4.6 |
| 231050 | 'Galnt11' | 19.42 | 28.43 | 35 | 31.2 | 28 | 13.29 | 36 | 31.53 | 30.77 | 21.57 |

| | | | | | | | | | | | |
|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 231051 | 'Kmt2c' | 1.6 | 3.35 | 2.15 | 4.82 | 2.84 | 1.41 | 2.81 | 1.4 | 2.82 | 2.89 |
| 231070 | 'Insig1' | 39.96 | 38.74 | 55.2 | 47.1 | 42.6 | 14.4 | 36.7 | 33.68 | 78.22 | 24.63 |
| 231086 | 'Hadhb' | 116.8 | 69.23 | 63.9 | 52.6 | 87.4 | 122.7 | 73.8 | 32.26 | 80.16 | 71.05 |
| 231093 | 'Agbl5' | 6.33 | 3.83 | 4.33 | 0 | 3.01 | 2.71 | 9.98 | 2.12 | 6.51 | 1.11 |
| 231103 | 'Gckr' | 2.17 | 0 | 0 | 0 | 0.15 | 0 | 0 | 0 | 0 | 0 |
| 231123 | 'Haus3' | 0.99 | 3.3 | 1.95 | 0.12 | 12.1 | 8.06 | 13.5 | 1.46 | 7 | 7.87 |
| 231125 | 'Zfyve28' | 2.76 | 2.17 | 2 | 10.1 | 3.93 | 7.25 | 3.12 | 2.64 | 3.9 | 6.84 |
| 231128 | 'Fam193a' | 4.77 | 4.99 | 3.38 | 11.9 | 1.74 | 6.23 | 3.77 | 4.33 | 2.15 | 1.89 |
| 231130 | 'Tnip2' | 5.43 | 10.8 | 27 | 0 | 5.35 | 12.52 | 4.87 | 30.57 | 37.65 | 17.1 |
| 231134 | 'Dok7' | 4.23 | 6.45 | 8.22 | 1.42 | 10.6 | 0.19 | 2.7 | 4.3 | 11.33 | 0.99 |
| 231148 | 'Ablim2' | 23.7 | 35.15 | 31.7 | 8.14 | 29.3 | 24.52 | 38.1 | 22.33 | 18.91 | 31.93 |
| 231151 | 'Tada2b' | 0.72 | 0 | 0 | 4.51 | 0.51 | 0.72 | 0 | 0.18 | 0 | 0 |
| 231201 | 'AF366264' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 231207 | 'Cpeb2' | 0.53 | 0.95 | 1.56 | 2.68 | 0.97 | 0.82 | 4.19 | 1.74 | 0.46 | 1.43 |
| 231214 | 'Cc2d2a' | 1.63 | 2.25 | 0.83 | 7.18 | 0.23 | 1.14 | 2.87 | 1.68 | 1.66 | 8.18 |
| 231225 | 'Tapt1' | 6.86 | 0.01 | 1.38 | 4.23 | 1.98 | 2.07 | 7.38 | 4.57 | 1.28 | 0.88 |
| 231238 | 'Sel1l3' | 1.17 | 0 | 1.17 | 4.12 | 2.27 | 0.47 | 0 | 0.29 | 2.47 | 0 |
| 231252 | 'Chrna9' | 0 | 0.38 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 |
| 231279 | 'Guf1' | 1.92 | 1.66 | 1.68 | 0.89 | 4.82 | 5.89 | 3.89 | 2.94 | 4.02 | 2.1 |
| 231290 | 'Slc10a4' | 0 | 0 | 0 | 0 | 4.3 | 0 | 0 | 2.85 | 0 | 1.33 |
| 231293 | 'Cwh43' | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0.52 | 0.08 | 0 |
| 231296 | 'Lrrc66' | 0 | 0 | 0.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 231326 | 'Aasdh' | 5.28 | 4.01 | 1.77 | 3.04 | 6.03 | 2.82 | 12.9 | 3.46 | 2.34 | 4.5 |
| 231327 | 'Ppat' | 1.68 | 6.15 | 3.93 | 6.37 | 4.67 | 4.09 | 5.16 | 1.86 | 2.15 | 0.01 |
| 231329 | 'Polr2b' | 38.99 | 19.41 | 22.7 | 43.4 | 20.6 | 8.33 | 39.4 | 29.16 | 41.06 | 49.3 |
| 231380 | 'Uba6' | 7.33 | 2.24 | 5.1 | 0.37 | 0.49 | 1.29 | 0.14 | 1.13 | 4.63 | 6.41 |
| 231386 | 'Ythdc1' | 6.72 | 4.66 | 5.83 | 23.3 | 6.04 | 5.71 | 6.26 | 4.53 | 5.83 | 3.71 |
| 231413 | 'Grsf1' | 34.73 | 17.87 | 48.8 | 64.8 | 22.6 | 11.84 | 49.6 | 27.49 | 28.41 | 34.16 |
| 231430 | 'Cox18' | 24.29 | 14.67 | 17.6 | 31.1 | 15.6 | 44.47 | 18.2 | 16.98 | 10.12 | 25.67 |
| 231440 | 'Parm1' | 61.83 | 30.4 | 13.2 | 34.7 | 95.3 | 30.43 | 32 | 25.95 | 7.62 | 26.96 |
| 231452 | 'Sdad1' | 1.28 | 4.6 | 10.2 | 7.48 | 2.11 | 8.6 | 9.93 | 5.15 | 7.95 | 8.62 |
| 231464 | 'Cnot6l' | 1.78 | 2.86 | 1.83 | 1.85 | 1.1 | 0.86 | 1.43 | 0.48 | 1.51 | 0.82 |
| 231470 | 'Fras1' | 0 | 0 | 0 | 0.01 | 0.53 | 0 | 0 | 0.05 | 0 | 0.25 |
| 231474 | 'Paqr3' | 13.54 | 20.23 | 10.8 | 18.7 | 14.8 | 9.36 | 8.16 | 9.45 | 19.06 | 8.79 |
| 231503 | 'Tmem150c' | 9.4 | 10.13 | 9.93 | 8.16 | 10.9 | 16.82 | 12.4 | 7.54 | 19.61 | 15.52 |
| 231506 | 'Lin54' | 1.03 | 0 | 3.19 | 0 | 0.03 | 0 | 1.3 | 0.7 | 0 | 1.36 |
| 231507 | 'Plac8' | 0 | 0 | 0 | 0 | 1.64 | 0 | 0 | 0 | 0 | 0 |
| 231510 | 'Gpat3' | 1.87 | 0 | 3.5 | 2.29 | 3.89 | 1.41 | 0 | 3.58 | 8.61 | 2.35 |
| 231532 | 'Arhgap24' | 24.57 | 12.92 | 16.1 | 4.65 | 20.4 | 59.84 | 15.5 | 20.48 | 13.03 | 47.29 |
| 231549 | 'Lrrc8d' | 4.24 | 11.28 | 5.23 | 5.38 | 7.76 | 0.01 | 0.11 | 2.95 | 10.35 | 7.56 |
| 231570 | 'A830010M20Rik' | 9.75 | 8.48 | 10.2 | 15.5 | 8.53 | 4.38 | 5.82 | 9.41 | 10.07 | 11.94 |
| 231571 | 'Rpap2' | 5.03 | 16.84 | 3.18 | 16.9 | 16.6 | 10.48 | 6.74 | 21.42 | 8.72 | 11.7 |
| 231580 | 'Gak' | 16.98 | 13.42 | 24.6 | 17 | 22.9 | 10.56 | 28.4 | 27.13 | 29.21 | 14.66 |
| 231583 | 'Slc26a1' | 1.29 | 0.44 | 0 | 0 | 0 | 0 | 0 | 2.28 | 0.77 | 1.97 |
| 231600 | 'Chfr' | 12.31 | 10.71 | 10.7 | 13.8 | 6.29 | 3.63 | 9.57 | 10.09 | 9.73 | 12.84 |
| 231602 | 'P2rx2' | 1.98 | 4.57 | 0.03 | 0 | 0.03 | 0 | 0 | 2.82 | 0 | 10.14 |
| 231605 | 'Galnt9' | 3.05 | 2.93 | 3.3 | 1.93 | 6.31 | 10.24 | 0 | 12.16 | 7.82 | 0 |
| 231630 | 'Ficd' | 12.7 | 11.05 | 12.3 | 2.75 | 8.86 | 23.01 | 8.22 | 13.8 | 14.56 | 26.08 |
| 231633 | 'Tmem119' | 0 | 1.91 | 0 | 0.03 | 1.06 | 75.29 | 0 | 1.79 | 0 | 0 |
| 231637 | 'Ssh1' | 2.39 | 1.26 | 3.08 | 1.86 | 0.61 | 1 | 4.94 | 1.16 | 0 | 0.15 |
| 231642 | 'Alkbh2' | 9.3 | 15.63 | 21.7 | 6.06 | 16.6 | 16.14 | 2.43 | 8.33 | 10.92 | 22.93 |
| 231646 | 'Myo1h' | 2.98 | 3.78 | 0.39 | 0.1 | 0.12 | 5.88 | 4.7 | 1.73 | 1.43 | 4.84 |
| 231659 | 'Gcn1l1' | 7.36 | 5.23 | 10.3 | 1.15 | 11.4 | 4.52 | 10.6 | 4.42 | 1.14 | 3.64 |
| 231668 | 'Vsig10' | 0 | 1.45 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 3.7 |
| 231670 | 'Fbxo21' | 25.89 | 36.56 | 81.4 | 39.2 | 38.2 | 18.71 | 79.7 | 40.6 | 35.55 | 25.1 |
| 231672 | 'Fbxw8' | 2.93 | 3.41 | 0.42 | 1.07 | 0.91 | 0.15 | 0.32 | 1.2 | 0 | 0.43 |
| 231712 | 'Trafd1' | 22.88 | 27.47 | 36.7 | 32.4 | 27.7 | 30.2 | 33 | 32.05 | 26.43 | 16.14 |
| 231713 | 'Naa25' | 22.71 | 21.53 | 23.5 | 2.61 | 17.6 | 18.16 | 36.9 | 13.74 | 18.24 | 13.45 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 231717 | 'Pheta1' | 0.02 | 5.39 | 8 | 0 | 4.67 | 3.18 | 4.99 | 0 | 5.5 | 2.28 |
| 231724 | 'Rad9b' | 1.98 | 7.1 | 14.7 | 12.5 | 3.45 | 0.03 | 8.46 | 17.06 | 0.11 | 7.43 |
| 231727 | 'B3gnt4' | 6.75 | 1.67 | 0 | 5.54 | 0 | 0.1 | 0 | 2.64 | 0.02 | 1.18 |
| 231760 | 'Rimbp2' | 1.1 | 0.65 | 1.24 | 2.15 | 3.22 | 3.25 | 0.55 | 0.78 | 0.14 | 0.57 |
| 231769 | 'Sfswap' | 5.3 | 6.27 | 10.7 | 5.26 | 12.3 | 10.59 | 7.44 | 6.55 | 6.48 | 3.12 |
| 231798 | 'Lrch4' | 5.47 | 12.2 | 13.6 | 0 | 23.3 | 13.52 | 2.06 | 17.82 | 20.58 | 10.54 |
| 231801 | 'Agfg2' | 12.69 | 4.72 | 4.02 | 3.3 | 2.53 | 3.31 | 2.64 | 7.66 | 9.82 | 1.81 |
| 231803 | 'Mepce' | 3.82 | 0.18 | 5 | 7.35 | 3.71 | 5.07 | 1.61 | 5.46 | 6.02 | 2.17 |
| 231805 | 'Pilra' | 0 | 0.53 | 0.02 | 0.04 | 0.09 | 3.08 | 0 | 0.46 | 0 | 0.02 |
| 231807 | 'BC037034' | 0.1 | 0 | 0 | 1.35 | 0.83 | 0 | 1.64 | 1.16 | 2.01 | 0 |
| 231821 | 'Adap1' | 15.56 | 16.48 | 24.2 | 17.1 | 29 | 12.29 | 10.5 | 14.34 | 8.76 | 10.65 |
| 231830 | 'Micall2' | 0.94 | 3 | 0.95 | 0 | 0.44 | 0.38 | 1.49 | 0.33 | 3.38 | 0.96 |
| 231832 | 'Tmem184a' | 0 | 5.71 | 0 | 0 | 7.64 | 0 | 0.05 | 0 | 0 | 0 |
| 231834 | 'Snx8' | 11.82 | 29.79 | 29.1 | 0.58 | 28.9 | 12.06 | 20.9 | 19.9 | 6 | 3.32 |
| 231841 | 'Brat1' | 16.6 | 7.66 | 11 | 0 | 7.19 | 15.76 | 2.93 | 11.17 | 1.73 | 4.25 |
| 231842 | 'Amz1' | 15.84 | 17.43 | 11 | 5.71 | 4.61 | 3.2 | 5.02 | 10.83 | 13.8 | 7.34 |
| 231855 | 'Ap5z1' | 8.47 | 8.27 | 7.38 | 7.72 | 6.89 | 6.94 | 0 | 5.38 | 8.31 | 4.55 |
| 231858 | 'Radil' | 8.5 | 12.99 | 13 | 0.92 | 13 | 4.79 | 9.8 | 20.08 | 12.28 | 4.42 |
| 231861 | 'Tnrc18' | 0.25 | 0.9 | 1.64 | 0.2 | 0.41 | 0.06 | 0.48 | 0.08 | 0.2 | 1.06 |
| 231863 | 'Fbxl18' | 0.03 | 1.65 | 0 | 5.92 | 1.52 | 5.17 | 0.97 | 1.21 | 3.08 | 0 |
| 231866 | 'Zfp12' | 4.24 | 2.04 | 4.26 | 5.5 | 6.68 | 2.93 | 3.5 | 1.11 | 6.15 | 2.12 |
| 231868 | 'E130309D02Rik' | 12.52 | 6.03 | 7.17 | 10 | 15 | 3.47 | 13.1 | 0.66 | 23.06 | 10.54 |
| 231871 | 'Daglb' | 19.58 | 11.11 | 18 | 10.3 | 19.8 | 24.07 | 15.5 | 12.29 | 10.51 | 27.58 |
| 231872 | 'Aimp2' | 41.33 | 52.82 | 78.4 | 76.7 | 79.6 | 49.25 | 46 | 49.21 | 76.5 | 58.62 |
| 231874 | 'Ccz1' | 3.61 | 0 | 1.61 | 22 | 0.68 | 4.19 | 4.81 | 2.95 | 2.91 | 0 |
| 231876 | 'Lmtk2' | 0.33 | 0.46 | 1.44 | 0.02 | 0.14 | 1.05 | 3.27 | 2.11 | 1.88 | 0.62 |
| 231887 | 'Pdap1' | 29.76 | 20.32 | 36.1 | 24.7 | 39.3 | 23.76 | 28.8 | 28.35 | 39.32 | 26.28 |
| 231889 | 'Bud31' | 37.15 | 63.68 | 61.4 | 79.2 | 41.9 | 52.38 | 53.8 | 59.24 | 21.44 | 42.87 |
| 231912 | 'Katnal1' | 16.91 | 17.15 | 25.1 | 16.7 | 23.4 | 3 | 7.2 | 15.23 | 17.92 | 13.85 |
| 231915 | 'Usp11' | 12.22 | 12.3 | 18.6 | 19.8 | 14.2 | 3.88 | 6.7 | 14.31 | 2.78 | 15.32 |
| 231931 | 'Gimap6' | 0 | 14.95 | 0 | 0 | 0 | 0.34 | 0 | 1.86 | 0 | 0 |
| 231946 | 'Fam221a' | 3.93 | 3.14 | 2.27 | 0 | 0 | 2.06 | 0 | 1.98 | 0 | 1.83 |
| 231986 | 'Jazf1' | 16 | 21.34 | 17.7 | 9.68 | 9.05 | 4.59 | 9.45 | 8.17 | 8.33 | 3.93 |
| 231991 | 'Creb5' | 0 | 1.75 | 3.48 | 0 | 0.76 | 2.28 | 4.12 | 0.84 | 0 | 0.67 |
| 231997 | 'Fkbp14' | 3.08 | 18.41 | 6.45 | 7.21 | 10.4 | 7.02 | 20.5 | 11.36 | 17.21 | 24.11 |
| 231999 | 'Plekha8' | 2.06 | 0.85 | 0.16 | 2.59 | 0 | 2.29 | 0 | 0.98 | 0 | 2.17 |
| 232016 | 'Itprid1' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 232023 | 'Vopp1' | 37.67 | 34.48 | 29.8 | 9.94 | 17.7 | 5.51 | 27.9 | 20.68 | 19.93 | 40.53 |
| 232035 | 'Ccser1' | 1.29 | 0.94 | 0.24 | 1.95 | 0.01 | 0 | 1.7 | 0.22 | 0.6 | 2.37 |
| 232078 | 'Thnsl2' | 2.08 | 0 | 6.56 | 0.03 | 9.16 | 0.02 | 0 | 2.51 | 5.79 | 3.43 |
| 232086 | 'Tmem150a' | 3.49 | 2.06 | 2.19 | 0 | 3.6 | 3.43 | 0.03 | 0.3 | 0.72 | 0.51 |
| 232087 | 'Mat2a' | 131.7 | 134.4 | 111 | 105 | 146 | 133 | 95.8 | 135.2 | 113.9 | 95.1 |
| 232089 | 'Elmod3' | 2.59 | 13.05 | 2.14 | 3.64 | 3.96 | 14.73 | 12.3 | 7.19 | 6.42 | 5.51 |
| 232146 | 'Eva1a' | 6.57 | 5.3 | 0 | 0 | 2.75 | 0 | 0 | 4.65 | 0 | 1.33 |
| 232156 | 'Slc4a5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 232157 | 'Mob1a' | 2.87 | 0.51 | 1.98 | 0 | 0.03 | 0.56 | 0 | 0 | 0 | 0 |
| 232164 | 'Paip2b' | 23.67 | 8.91 | 13.7 | 9.64 | 7.03 | 20.84 | 6.21 | 13.86 | 28.08 | 19.61 |
| 232174 | 'Cyp26b1' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 232187 | 'Smyd5' | 30.01 | 30.3 | 59 | 10.3 | 25.2 | 30.85 | 31.9 | 30.49 | 27.19 | 26.26 |
| 232196 | 'C87436' | 19.15 | 15.88 | 22.1 | 31.2 | 18 | 15.94 | 3.72 | 10 | 16.08 | 26.85 |
| 232201 | 'Arhgap25' | 0.01 | 0 | 0 | 0.02 | 0 | 2.04 | 0 | 0 | 0 | 0 |
| 232210 | 'Hmces' | 37.11 | 34.93 | 11.3 | 52.7 | 16.5 | 32.59 | 33.4 | 53.25 | 33.4 | 42.36 |
| 232223 | 'Txnrd3' | 9.2 | 2.54 | 11.4 | 0.02 | 4.14 | 0 | 12 | 0.97 | 2.61 | 0.05 |
| 232227 | 'Iqsec1' | 7.1 | 14.25 | 14.3 | 18 | 14.9 | 4.9 | 6.59 | 5.88 | 9.01 | 15.42 |
| 232232 | 'Hdac11' | 131.3 | 122.1 | 138 | 76.6 | 122 | 122.4 | 111 | 144.2 | 149.6 | 179.43 |
| 232236 | 'Ccfdc174' | 16.53 | 12.18 | 18.7 | 24.5 | 4 | 37.81 | 11.3 | 13.29 | 31.39 | 27.68 |
| 232237 | 'Fgd5' | 3.43 | 0.75 | 1.11 | 1.35 | 2.68 | 2.42 | 1.65 | 0 | 1.28 | 0.06 |
| 232286 | 'Tmf1' | 11.68 | 10.82 | 8.26 | 12.1 | 11.8 | 9.1 | 12.9 | 8.94 | 10.22 | 10.36 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 232973 | 'Lypd4' | 0 | 0 | 0 | 0 | 0 | 0.43 | 0 | 0 | 0 | 0 |
| 232974 | 'Gm4881' | 0 | 0 | 0 | 0 | 0 | 0 | 19.2 | 0 | 0 | 0 |
| 232975 | 'Atp1a3' | 572.8 | 460.9 | 911 | 144 | 560 | 281.8 | 726 | 677.8 | 435.5 | 578.99 |
| 232976 | 'Zfp574' | 4.19 | 6.08 | 8.96 | 13.9 | 7.48 | 3.33 | 6.64 | 4.98 | 2.83 | 4.92 |
| 232983 | 'Cxcl17' | 0 | 0 | 0.6 | 0 | 0 | 0 | 0 | 0 | 1.08 | 0 |
| 232984 | 'B3gnt8' | 0 | 0 | 0 | 0.77 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 232987 | 'B9d2' | 70.72 | 51.17 | 39.4 | 70.2 | 80 | 110.6 | 11.9 | 57.26 | 44.1 | 59.84 |
| 232989 | 'Hnrnpul1' | 7.31 | 4.37 | 3.37 | 5.12 | 3.22 | 1.42 | 6.4 | 2.95 | 10.53 | 3.17 |
| 233011 | 'Itpkc' | 0.01 | 2.35 | 0 | 19.7 | 0 | 2.34 | 3.72 | 0.28 | 0 | 5.38 |
| 233016 | 'Blvrb' | 8.31 | 2.21 | 9.9 | 0 | 12 | 19.32 | 0 | 5.65 | 14.52 | 15.55 |
| 233020 | 'Hipk4' | 0.44 | 0.35 | 0.29 | 5.14 | 0.35 | 3.18 | 6.72 | 1.38 | 2.63 | 0 |
| 233033 | 'Samd4b' | 1.11 | 2.28 | 4.2 | 4.35 | 0.15 | 3.17 | 6.51 | 2.82 | 4.37 | 1.67 |
| 233040 | 'Fbxo27' | 0 | 8.33 | 3.9 | 5.29 | 4.31 | 1.36 | 10.9 | 10.71 | 5.81 | 11.68 |
| 233046 | 'Rasgrp4' | 0.08 | 1.13 | 1.01 | 0.02 | 0.27 | 1.02 | 1.06 | 0.64 | 1.3 | 0.37 |
| 233056 | 'Zfp790' | 6.69 | 5.95 | 5.6 | 5.1 | 4.92 | 1.2 | 7.34 | 1.23 | 3.78 | 12.01 |
| 233057 | 'Zfp940' | 8.11 | 6.45 | 7.68 | 0 | 5.4 | 0.2 | 7.37 | 7.28 | 4.83 | 6.86 |
| 233058 | 'Zfp420' | 6.3 | 9.01 | 0.29 | 0 | 4.34 | 2.95 | 4.6 | 8.55 | 4.78 | 1.28 |
| 233060 | 'Zfp382' | 3.21 | 4.47 | 2.86 | 0.16 | 1.57 | 1.37 | 0.13 | 4.92 | 0.92 | 0.25 |
| 233064 | 'Wdr62' | 0 | 0.02 | 0.02 | 0 | 0 | 0 | 0.03 | 0 | 0.01 | 0 |
| 233065 | 'Alkbh6' | 90.48 | 109.7 | 98.4 | 139 | 144 | 123.1 | 81.2 | 145.1 | 144.9 | 132.17 |
| 233066 | 'Syne4' | 4.17 | 0.63 | 0.47 | 0 | 6.88 | 1.79 | 1.17 | 0.15 | 8.68 | 5.62 |
| 233067 | 'Lrfn3' | 1.98 | 2.75 | 4.55 | 3.26 | 5.74 | 1.6 | 2.27 | 0.06 | 1.34 | 2.09 |
| 233071 | 'Arhgap33' | 8.26 | 3.57 | 7.44 | 0.07 | 11.2 | 7.54 | 10.6 | 5.49 | 5.42 | 13.89 |
| 233073 | 'U2af1l4' | 43.96 | 53.37 | 66.8 | 67.9 | 108 | 58.53 | 36.8 | 58.98 | 77.37 | 84.15 |
| 233079 | 'Ffar2' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 233103 | '4931406P16Rik' | 2.44 | 0.87 | 7.07 | 2.99 | 1.55 | 2.65 | 3.72 | 0.59 | 3.8 | 4.3 |
| 233107 | 'Kctd15' | 5.65 | 3.31 | 0.07 | 0 | 1.91 | 0 | 6.42 | 0.02 | 2.38 | 2.18 |
| 233115 | 'Dpy19l3' | 0.8 | 3.59 | 1.69 | 2.77 | 0.04 | 0.65 | 2.42 | 2.34 | 3.5 | 4.74 |
| 233147 | 'Zfp939' | 1.98 | 0.73 | 1.07 | 0 | 5.96 | 3.04 | 0.03 | 7.68 | 7.03 | 6.52 |
| 233168 | 'Al987944' | 7.59 | 8.05 | 2.16 | 0 | 8.04 | 5.78 | 2.18 | 4.65 | 9.09 | 6.98 |
| 233189 | 'Ctu1' | 5.81 | 7.85 | 0 | 3.23 | 7.3 | 0 | 0.83 | 5.63 | 0 | 4.26 |
| 233204 | 'Tbc1d17' | 41.89 | 39.12 | 57.2 | 29.2 | 39 | 38.73 | 27.1 | 40 | 60.5 | 29.79 |
| 233208 | 'Scaf1' | 3.34 | 4.06 | 12.4 | 0.84 | 2.94 | 1.3 | 2.85 | 4.43 | 3.68 | 7.05 |
| 233210 | 'Prr12' | 1.16 | 0.84 | 2.62 | 3.49 | 0.7 | 1.88 | 2.41 | 1.08 | 0.87 | 2.24 |
| 233231 | 'Mrgprb1' | 0 | 0 | 0 | 0.03 | 0.02 | 0.02 | 0.01 | 0 | 0 | 0 |
| 233246 | 'Ano5' | 0.23 | 1.85 | 0.73 | 2.67 | 2.59 | 2.18 | 1.01 | 0.21 | 0.43 | 1.44 |
| 233271 | 'Luzp2' | 12.5 | 5.97 | 14.4 | 3.48 | 28 | 9.23 | 13.4 | 7.59 | 3.07 | 9.83 |
| 233274 | 'Siglech' | 0 | 1.07 | 0 | 16.7 | 10.7 | 26.69 | 3.78 | 0.45 | 4.32 | 0 |
| 233276 | 'Tubgcp5' | 21.34 | 9.88 | 16.2 | 4.18 | 17.3 | 3.97 | 13.8 | 12.24 | 18.82 | 7.18 |
| 233280 | 'Nipa1' | 6.66 | 5.19 | 2.41 | 4.64 | 1.55 | 0.68 | 6.02 | 9.07 | 3.93 | 3.63 |
| 233315 | 'Mtmr10' | 2.05 | 0.66 | 0.6 | 2.5 | 0.06 | 1.39 | 6.24 | 0 | 4.52 | 1.33 |
| 233332 | 'Adamts17' | 0.19 | 0.01 | 0.04 | 0 | 1.05 | 0 | 1.71 | 0.16 | 0 | 0.84 |
| 233335 | 'Synm' | 1.34 | 1.7 | 1.44 | 4.4 | 5.75 | 0.19 | 1.53 | 0.82 | 0 | 0 |
| 233405 | 'Vps33b' | 12.4 | 18.97 | 11.7 | 12.8 | 6.01 | 12.56 | 23.4 | 16.91 | 11.11 | 13.45 |
| 233406 | 'Prc1' | 0 | 0.06 | 0.23 | 0 | 0.6 | 0 | 0 | 0.4 | 4.34 | 0 |
| 233410 | 'Zfp592' | 0.8 | 0.95 | 1.15 | 2 | 0.69 | 0.07 | 5.28 | 0.16 | 3.55 | 0.86 |
| 233424 | 'Tmc3' | 0.97 | 0 | 0.01 | 0 | 1.8 | 0.03 | 0 | 1.46 | 0 | 0.02 |
| 233489 | 'Picalm' | 8.87 | 6.29 | 4.87 | 20.4 | 5.64 | 9.41 | 3.77 | 3.23 | 3.38 | 4.84 |
| 233490 | 'Crebzf' | 3.75 | 3.29 | 1.35 | 0.14 | 3.64 | 4.62 | 2.77 | 1.01 | 2.24 | 1.9 |
| 233529 | 'Kctd14' | 0.02 | 0.12 | 0 | 0 | 0 | 0.04 | 0 | 0.04 | 0 | 0 |
| 233532 | 'Rsf1' | 5.24 | 0.81 | 2.63 | 5.49 | 4.51 | 3.05 | 3.93 | 3.89 | 3.58 | 1.42 |
| 233537 | 'Gdprd4' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 233545 | 'Emsy' | 4.18 | 11.86 | 7.73 | 4.4 | 4.6 | 5.5 | 14.6 | 4.79 | 5.67 | 8.05 |
| 233552 | 'Gdprd5' | 2.47 | 1.42 | 1.91 | 1.07 | 2.07 | 0 | 2.99 | 0 | 4.67 | 0.01 |
| 233571 | 'P2ry6' | 0.02 | 0 | 0.03 | 0 | 0 | 13.5 | 0 | 0 | 0 | 0 |
| 233575 | 'Pgap2' | 6.92 | 4.5 | 5.93 | 2.4 | 14 | 4.58 | 9.13 | 5.83 | 9.7 | 10.57 |
| 233649 | 'Cnga4' | 0.58 | 0.36 | 0 | 0 | 3.62 | 0.88 | 0 | 0 | 3.84 | 1.12 |
| 233651 | 'Dchs1' | 0.84 | 1.13 | 0 | 0.74 | 1.06 | 0.67 | 2.17 | 0.92 | 1.21 | 0.95 |

| | | | | | | | | | | | |
|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 233724 | 'Tmem41b' | 14.84 | 16.65 | 24.7 | 30.9 | 13 | 23.57 | 20.5 | 14.42 | 18.63 | 16.98 |
| 233726 | 'lpo7' | 8.78 | 2.73 | 14.8 | 10.5 | 7.36 | 5.57 | 13.1 | 6.44 | 10.24 | 11.58 |
| 233733 | 'Galnt18' | 17.53 | 29.88 | 6.28 | 25.4 | 29.9 | 10.74 | 12.5 | 11.24 | 3.44 | 40.32 |
| 233744 | 'Spon1' | 58.7 | 9 | 14.4 | 8.52 | 15.3 | 5.46 | 9.94 | 59.53 | 15.72 | 12.33 |
| 233752 | 'Insc' | 0 | 0 | 0 | 0 | 0.15 | 3.57 | 4.37 | 0 | 0 | 0 |
| 233765 | 'Plekha7' | 3.97 | 7.97 | 6.05 | 2.02 | 5.35 | 1.49 | 4.89 | 2.48 | 2.26 | 4.04 |
| 233781 | 'Xylt1' | 0 | 0 | 1.13 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 233789 | 'Smg1' | 1.85 | 1.85 | 2.85 | 3.34 | 3.02 | 2.13 | 3.92 | 0.83 | 1.52 | 1.66 |
| 233799 | 'Acsm2' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 233802 | 'Thumpd1' | 66.33 | 57.86 | 52.1 | 86.7 | 39.8 | 78.65 | 36.6 | 43.76 | 52.6 | 57.55 |
| 233805 | 'Dcun1d3' | 3.18 | 1.95 | 1.07 | 4.75 | 0.22 | 0.03 | 2.95 | 1.55 | 5.6 | 3.22 |
| 233806 | 'Tmem159' | 17.06 | 13.9 | 11.8 | 15.7 | 13 | 22.43 | 6.85 | 19.67 | 42.45 | 33.24 |
| 233812 | 'Mosmo' | 4.92 | 4.29 | 4.94 | 5.19 | 6.58 | 1.35 | 0.26 | 3.27 | 2.54 | 8.05 |
| 233813 | 'Vwa3a' | 8.69 | 2.49 | 11 | 1.57 | 4.84 | 0.02 | 0.01 | 2.53 | 0 | 7.54 |
| 233824 | 'Cog7' | 17.96 | 46.36 | 47.7 | 48.1 | 45.2 | 38.12 | 35.3 | 32.85 | 26.77 | 49.41 |
| 233826 | 'Palb2' | 0 | 0 | 0.03 | 0 | 0 | 0.32 | 0.35 | 0.13 | 0 | 0 |
| 233833 | 'Tnrc6a' | 3.02 | 7.38 | 7.34 | 11.3 | 11.9 | 7.42 | 8.23 | 6.96 | 8.72 | 6.16 |
| 233836 | 'Slc5a11' | 3.07 | 0.5 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 2.8 |
| 233863 | 'Gtf3c1' | 8.99 | 7.93 | 19.6 | 16 | 7.8 | 8.86 | 8.46 | 6.05 | 11.12 | 7.25 |
| 233865 | 'D430042O09Rik' | 1.9 | 2.33 | 2.04 | 4.43 | 0.14 | 1.61 | 0.34 | 1.26 | 3.95 | 3.01 |
| 233870 | 'Tufm' | 56.76 | 40.34 | 82.5 | 48.6 | 65.5 | 60.75 | 66.5 | 60.89 | 88.71 | 53.17 |
| 233871 | 'Atxn2l' | 9.87 | 7.79 | 11.3 | 19.1 | 8.62 | 4.14 | 7.3 | 9.43 | 11.6 | 4.25 |
| 233875 | 'Ino80e' | 48.33 | 37.35 | 43.9 | 51.3 | 28.6 | 61.57 | 42.8 | 46.24 | 61.52 | 69.49 |
| 233876 | 'Hirip3' | 9.06 | 8.6 | 10.2 | 8.8 | 4.02 | 17.94 | 5.23 | 10.06 | 12.34 | 8.28 |
| 233877 | 'Kctd13' | 56.27 | 51 | 49.7 | 40.2 | 58.7 | 28.67 | 32.3 | 34.24 | 52.73 | 25.12 |
| 233878 | 'Sez6l2' | 42.7 | 42.71 | 44.7 | 66.4 | 29.4 | 34.46 | 30.6 | 51.16 | 43.43 | 33.51 |
| 233879 | 'Asphd1' | 16.3 | 7.11 | 17.3 | 11.9 | 10.3 | 5.21 | 11.6 | 13.72 | 8.8 | 15.49 |
| 233887 | 'Zfp553' | 11.94 | 4.03 | 8.8 | 0.93 | 9.97 | 1.97 | 16.2 | 7.37 | 5.04 | 2.62 |
| 233890 | 'Zfp768' | 0.04 | 0.11 | 2.65 | 0 | 0 | 3.95 | 0 | 4.88 | 0 | 4.9 |
| 233893 | 'Zfp764' | 3.19 | 2.12 | 2.49 | 1.47 | 0.16 | 9.9 | 0.08 | 2.46 | 5.25 | 0.29 |
| 233895 | 'Prr14' | 11.33 | 15.53 | 13.2 | 24.9 | 11.3 | 13.03 | 14.5 | 18.45 | 16.59 | 16.33 |
| 233899 | 'Ccdc189' | 10.63 | 15.68 | 11 | 18.2 | 10.7 | 12.82 | 3.84 | 9.39 | 13.93 | 14.91 |
| 233900 | 'Rnf40' | 6.07 | 10.41 | 3.97 | 15.6 | 8.83 | 1.95 | 8.38 | 6.76 | 9.14 | 15.06 |
| 233902 | 'Fbxl19' | 1.75 | 0.71 | 3.16 | 0 | 3.6 | 5.49 | 1.63 | 0.86 | 0.14 | 3.38 |
| 233904 | 'Setd1a' | 1.64 | 2.42 | 4.85 | 9.94 | 0.43 | 1.88 | 3 | 2.82 | 3.62 | 4.09 |
| 233905 | 'Zfp646' | 0.31 | 0.61 | 0.02 | 1.92 | 1.38 | 0 | 0 | 1.25 | 0.38 | 1.47 |
| 233908 | 'Fus' | 76.52 | 62.17 | 124 | 72.3 | 83.7 | 40.17 | 89.5 | 68.07 | 105.8 | 28.86 |
| 233912 | 'Armc5' | 1.25 | 0.24 | 5.39 | 0 | 3.31 | 2.08 | 3.9 | 2.12 | 0 | 3.78 |
| 233913 | 'BC017158' | 17.44 | 17.6 | 13.9 | 26.1 | 12.5 | 19.3 | 38.8 | 17.39 | 10.09 | 9.16 |
| 233919 | 'Gpr26' | 4.76 | 2.03 | 0.51 | 0.02 | 0.84 | 5.78 | 0.02 | 0.02 | 0 | 2.78 |
| 233977 | 'Ppfia1' | 0.03 | 2.75 | 2.79 | 1.19 | 4.36 | 2.95 | 0.54 | 5.53 | 3.97 | 3.42 |
| 233979 | 'Tpcn2' | 0 | 5.03 | 1.92 | 0 | 2.14 | 3.05 | 0 | 3.3 | 0.3 | 0 |
| 233987 | 'Zfp958' | 3.89 | 2.07 | 6.9 | 0 | 3.97 | 6.67 | 0 | 4.26 | 1.57 | 5.59 |
| 234023 | 'Arglu1' | 93.85 | 86.98 | 102 | 125 | 169 | 33.16 | 61.1 | 63.94 | 102.9 | 117.71 |
| 234069 | 'Pcid2' | 11.6 | 23.03 | 14 | 8.06 | 5.94 | 28.9 | 8.01 | 31.24 | 6.79 | 14.26 |
| 234072 | 'Adprhl1' | 0.45 | 0.52 | 1.09 | 1.08 | 1.53 | 1.26 | 0.47 | 1.19 | 2.32 | 1.2 |
| 234076 | 'Tmco3' | 13.46 | 29.52 | 32 | 35.4 | 12.1 | 25.5 | 38.9 | 27.93 | 27.51 | 17.3 |
| 234086 | 'Erich1' | 10.62 | 10.92 | 5.76 | 24.3 | 14.5 | 16.23 | 5.94 | 5.17 | 14.16 | 6.16 |
| 234094 | 'Arhgef10' | 1.58 | 0.55 | 0.54 | 0.66 | 1.99 | 3.37 | 0.29 | 0 | 0.45 | 0.72 |
| 234129 | 'Tpte' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 234130 | 'Dkk4' | 0 | 0 | 0.52 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| 234135 | 'Nsd3' | 30.19 | 31.45 | 11.2 | 40.4 | 33.4 | 26.64 | 18.2 | 25.31 | 27.6 | 30.02 |
| 234138 | 'Tti2' | 7.56 | 9.04 | 14.2 | 14.2 | 3.36 | 7.58 | 12.6 | 8.26 | 16.21 | 14.15 |
| 234155 | 'Mboat4' | 1.62 | 0.08 | 0 | 0 | 2.02 | 0 | 0.11 | 0 | 2.35 | 5.74 |
| 234199 | 'Fgl1' | 0 | 6.36 | 1.68 | 16.2 | 0 | 11.28 | 0 | 0 | 0 | 3.03 |
| 234214 | 'Sorbs2' | 8.4 | 4.65 | 13.9 | 6.87 | 7.2 | 9.23 | 10.4 | 11.24 | 5.24 | 18.17 |
| 234219 | 'Helt' | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 234267 | 'Gpm6a' | 430.5 | 507.2 | 397 | 335 | 300 | 276.6 | 526 | 451 | 310.6 | 391.33 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 234847 | 'Spg7' | 7.31 | 5.17 | 8.47 | 8.97 | 13.9 | 2.91 | 17.4 | 5.59 | 10.31 | 1.9 |
| 234852 | 'Chmp1a' | 88.7 | 66.87 | 85.8 | 36.8 | 61.2 | 59.95 | 66 | 76.26 | 70.6 | 83.7 |
| 234854 | 'Cdk10' | 53.74 | 44.14 | 44.5 | 55.5 | 35.9 | 50.53 | 41.8 | 59.42 | 38.31 | 66.09 |
| 234857 | 'Spire2' | 0.02 | 0.1 | 4.17 | 0 | 8.96 | 0.43 | 0 | 0.74 | 0.05 | 0.38 |
| 234865 | 'Nup133' | 8.46 | 6.64 | 12.6 | 2.11 | 5.21 | 3.99 | 14.1 | 5.09 | 4.78 | 10.85 |
| 234875 | 'Ttc13' | 10.36 | 21.42 | 26.4 | 11.7 | 7.48 | 6.9 | 25.6 | 13.01 | 34.87 | 21.11 |
| 234878 | 'Map3k21' | 0 | 0 | 0 | 0.01 | 0.03 | 0 | 0.01 | 0 | 0 | 0 |
| 234889 | 'Gucy1a2' | 0.53 | 0.44 | 2.08 | 2.64 | 0.23 | 2.97 | 3.45 | 0.84 | 2.49 | 0.92 |
| 234912 | 'Cfap300' | 16.33 | 9.34 | 2.36 | 0.6 | 6.36 | 0.24 | 0.97 | 8.78 | 7.24 | 11.22 |
| 234915 | 'Cep126' | 0.42 | 0.38 | 0.04 | 3.57 | 3.32 | 1.78 | 0 | 0.37 | 1.48 | 1.79 |
| 234959 | 'Med17' | 0.52 | 8.63 | 5.96 | 6.79 | 3.24 | 1.3 | 7.83 | 6.11 | 7.61 | 6.31 |
| 234964 | 'Deup1' | 2.02 | 2.33 | 0.73 | 0 | 0.15 | 2.15 | 0.48 | 1.88 | 8.74 | 2.63 |
| 234967 | 'Slc36a4' | 16.98 | 6.17 | 16.1 | 15.3 | 3.29 | 11.96 | 35.6 | 13.09 | 18.45 | 11.85 |
| 235028 | 'Zfp426' | 14.68 | 3.97 | 10.3 | 5.44 | 15.3 | 0.8 | 4.64 | 11.8 | 7.86 | 9.06 |
| 235036 | 'Ppan' | 21.07 | 14.2 | 17.1 | 29.3 | 2.5 | 15.55 | 18 | 10.23 | 26.29 | 25.01 |
| 235040 | 'Atg4d' | 23.56 | 24.59 | 21.6 | 6.78 | 19.8 | 12.17 | 8.02 | 34.05 | 21.9 | 12.64 |
| 235041 | 'Kank2' | 0 | 0.34 | 0.02 | 0 | 0 | 0 | 1.9 | 1.43 | 0 | 0 |
| 235043 | 'Tmem205' | 74.73 | 47.15 | 59.5 | 13.5 | 44.3 | 66.78 | 29.3 | 62.05 | 38.47 | 65.39 |
| 235044 | 'Plppr2' | 36.84 | 45.45 | 63.7 | 34.9 | 25.1 | 32.56 | 41.2 | 29.51 | 29.47 | 18.5 |
| 235047 | 'Zfp809' | 10.44 | 2.68 | 1.51 | 7.61 | 3.47 | 9.24 | 6.5 | 2.88 | 0.44 | 5.99 |
| 235048 | 'Zfp599' | 3.36 | 1.23 | 1.76 | 0.12 | 1.48 | 0.03 | 3.56 | 2.75 | 4.34 | 2 |
| 235050 | 'Zfp810' | 1.55 | 1.47 | 5.64 | 0 | 3.71 | 1.25 | 5.52 | 4.51 | 1.26 | 4.68 |
| 235072 | 'Sept7' | 139 | 180.4 | 109 | 99.1 | 139 | 151.6 | 158 | 136.2 | 154.1 | 171.28 |
| 235086 | 'Igsf9b' | 4.25 | 3.55 | 5.12 | 4.56 | 8.77 | 7.72 | 1.64 | 5.02 | 7.79 | 5.33 |
| 235106 | 'Ntm' | 94.58 | 128.3 | 160 | 68 | 146 | 130.5 | 99.7 | 105.3 | 72.98 | 95.29 |
| 235130 | 'Adamts15' | 0 | 1.77 | 0.01 | 0 | 0 | 0 | 0 | 0.64 | 1.03 | 0.52 |
| 235132 | 'Zbtb44' | 0.3 | 0.75 | 0.71 | 0.09 | 0.34 | 0.39 | 0.9 | 0.82 | 0.35 | 0.33 |
| 235134 | 'Nfrkb' | 6.48 | 4.15 | 10.6 | 2.52 | 9.26 | 3.98 | 6.42 | 4.05 | 5.32 | 7 |
| 235135 | 'Tmem45b' | 0 | 0 | 5.4 | 0 | 20.5 | 0 | 0 | 0 | 0.04 | 0 |
| 235169 | 'Foxred1' | 22.11 | 33.31 | 41.6 | 40.8 | 28.5 | 22.92 | 35 | 47.13 | 28.75 | 17.65 |
| 235180 | 'Fez1' | 204.8 | 211 | 197 | 228 | 209 | 239.3 | 303 | 291 | 198 | 188.35 |
| 235184 | 'Msantd2' | 2.83 | 6.8 | 2.14 | 3.79 | 4.56 | 0.2 | 1.36 | 2.29 | 0.79 | 4.03 |
| 235281 | 'Scn3b' | 41.03 | 40.69 | 27.9 | 19.3 | 46.5 | 6.79 | 54.3 | 20.26 | 33.24 | 23.25 |
| 235283 | 'Gramd1b' | 3.94 | 5.38 | 2.44 | 2.29 | 0.81 | 2.5 | 5.03 | 4.01 | 4.15 | 3.32 |
| 235293 | 'Sc5d' | 33.35 | 27.83 | 46 | 32.6 | 32.8 | 35.43 | 62 | 62.14 | 56.54 | 51.61 |
| 235300 | 'Tmem136' | 4.46 | 5.24 | 2.47 | 2.11 | 3.37 | 0.82 | 0.61 | 1 | 1.86 | 2.46 |
| 235302 | 'D630033O11Rik' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 235312 | 'C1qtnf5' | 6.19 | 3.93 | 0 | 18.8 | 1.56 | 0 | 0.03 | 0.26 | 0 | 2.13 |
| 235315 | 'Rnf214' | 16.94 | 22.34 | 23.2 | 23.8 | 15.8 | 13.93 | 13.8 | 16.1 | 10.05 | 14.42 |
| 235320 | 'Zbtb16' | 0.02 | 4.73 | 2.96 | 0.06 | 0.36 | 1.85 | 2.29 | 0.96 | 0.01 | 0.12 |
| 235323 | 'Usp28' | 4.82 | 3.65 | 2.82 | 5.85 | 0.56 | 0.06 | 3.57 | 3.48 | 7.48 | 0.41 |
| 235330 | 'Ttc12' | 1.25 | 1.27 | 0.52 | 0 | 0 | 0 | 0.8 | 2.67 | 0.02 | 0 |
| 235339 | 'Dlat' | 37.06 | 36.52 | 47.1 | 22.3 | 37.9 | 25.11 | 51.2 | 51.68 | 33.38 | 46.63 |
| 235344 | 'Sik2' | 2.42 | 2.42 | 5 | 1.66 | 0.09 | 0.63 | 4.08 | 1.76 | 1.91 | 0.6 |
| 235345 | '4833427G06Rik' | 2.6 | 0 | 0 | 0.08 | 0 | 0 | 0 | 1.43 | 0 | 0 |
| 235379 | 'Gldn' | 0.69 | 4.93 | 3.03 | 10.6 | 1.11 | 1.86 | 0.11 | 0.38 | 0 | 8.1 |
| 235380 | 'Dmxl2' | 5.27 | 4.99 | 8.97 | 14.8 | 7.41 | 4.46 | 4.7 | 2.64 | 4.59 | 3.12 |
| 235386 | 'Hykk' | 0.11 | 1.36 | 0.6 | 0.05 | 1.3 | 0.02 | 0.03 | 0.12 | 0.03 | 1.71 |
| 235402 | 'Lingo1' | 14.12 | 7.5 | 6.17 | 9.49 | 7.23 | 6.56 | 10.2 | 8.88 | 2.5 | 10.17 |
| 235406 | 'Snx33' | 0 | 3.3 | 0 | 0.01 | 0 | 0.01 | 0 | 0.09 | 0 | 0 |
| 235415 | 'Cplx3' | 0 | 0 | 5.3 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 |
| 235416 | 'Lman1l' | 0 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 235431 | 'Coro2b' | 9.29 | 15.38 | 14.8 | 9.54 | 8.61 | 1.4 | 5.42 | 8.33 | 12.95 | 8.77 |
| 235439 | 'Herc1' | 6.71 | 5.18 | 8.09 | 15.1 | 7.79 | 7.98 | 7.95 | 4.3 | 7.28 | 9.53 |
| 235441 | 'Usp3' | 3.46 | 7.08 | 3.33 | 8.72 | 3.57 | 4.56 | 11.2 | 10.62 | 5.93 | 7.27 |
| 235442 | 'Rab8b' | 9.29 | 7.06 | 8.91 | 17.8 | 7.61 | 1.25 | 13.1 | 6.35 | 4.24 | 13.11 |
| 235459 | 'Gtf2a2' | 78.9 | 67.66 | 117 | 139 | 82.7 | 68.97 | 50.1 | 82.12 | 49.75 | 81.32 |
| 235461 | 'Mindy2' | 3.98 | 2.91 | 2.27 | 4.49 | 3.22 | 2.73 | 1.77 | 0.8 | 2.35 | 1.52 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 236930 | 'Ercc6l' | 0 | 0 | 0 | 0 | 0.14 | 0 | 0 | 0 | 0 | 0 |
| 237010 | 'Klhl4' | 2.84 | 4.66 | 1.88 | 0 | 0 | 1.74 | 0 | 2.72 | 2.43 | 3.34 |
| 237029 | '4932411N23Rik' | 0.01 | 0 | 0.01 | 0.02 | 0.01 | 0 | 0 | 0 | 0.03 | 0 |
| 237038 | 'Nox1' | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0.24 |
| 237052 | 'Tceal1' | 72.9 | 94.35 | 61.5 | 102 | 65 | 76.93 | 55.8 | 84.48 | 57.94 | 91.12 |
| 237073 | 'Rbm41' | 0.03 | 0.01 | 0.04 | 0.11 | 0.67 | 0.36 | 0 | 0.01 | 0.92 | 0.39 |
| 237082 | 'Nxt2' | 18.15 | 12.81 | 23.3 | 6.59 | 15.8 | 15.42 | 19.2 | 18.09 | 24.43 | 17.38 |
| 237107 | 'Gnl3l' | 117.6 | 115.9 | 123 | 106 | 76.7 | 75.91 | 116 | 108.1 | 87.08 | 96.28 |
| 237175 | 'Adgrg2' | 0 | 0 | 0.85 | 1.84 | 0.11 | 3.01 | 1.51 | 0.87 | 1.42 | 0 |
| 237178 | 'Ppef1' | 0.05 | 0.04 | 0 | 2.1 | 0 | 0 | 0 | 3.69 | 0 | 0 |
| 237211 | 'Fancb' | 0 | 0 | 0 | 0 | 0 | 0.07 | 0 | 1.26 | 0.7 | 0.2 |
| 237213 | 'Glr2' | 32.74 | 11.99 | 16.2 | 12.7 | 27.9 | 11.81 | 26.3 | 49.75 | 8.53 | 10.61 |
| 237221 | 'Gemin8' | 15.9 | 10.31 | 12.6 | 10.6 | 4.03 | 15.64 | 3.34 | 7.16 | 3.12 | 13.8 |
| 237222 | 'Ofd1' | 1.32 | 1.29 | 0.64 | 2.45 | 1.33 | 3.78 | 0 | 0.7 | 6.21 | 1.16 |
| 237253 | 'Lrp11' | 19.85 | 17.39 | 15.1 | 23.3 | 17.6 | 9.79 | 15.9 | 10.94 | 29.87 | 6.93 |
| 237300 | 'Gm4922' | 0 | 0 | 1.45 | 0 | 0 | 0.04 | 0 | 0.02 | 0 | 0.29 |
| 237320 | 'Aldh8a1' | 0 | 0 | 0 | 2.05 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 237336 | 'Tbpl1' | 39.7 | 41.73 | 42.8 | 30.6 | 46.5 | 22.01 | 35.2 | 17.37 | 43.95 | 27.71 |
| 237339 | 'L3mbtl3' | 2.82 | 7.97 | 1.26 | 2.05 | 1.44 | 0.01 | 3.27 | 6.55 | 2.54 | 3.66 |
| 237353 | 'Sh3rf3' | 0.2 | 0.98 | 0 | 0.73 | 0 | 0 | 0.01 | 0.04 | 0.09 | 0 |
| 237360 | 'Adamts14' | 0 | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 |
| 237362 | 'Npffr1' | 0.09 | 4.92 | 3.43 | 0.27 | 11.3 | 0.07 | 2.3 | 4.19 | 0.04 | 2.33 |
| 237387 | 'Lrrc3' | 1.82 | 1.85 | 5.06 | 1.33 | 0.22 | 3.75 | 2.46 | 0.02 | 0.25 | 0.19 |
| 237397 | 'C2cd4c' | 0.01 | 1.77 | 0.29 | 0.5 | 0.01 | 0 | 2.52 | 1.77 | 0.02 | 0.17 |
| 237400 | 'Mex3d' | 1.48 | 0.22 | 1.66 | 11.7 | 1.35 | 0 | 0 | 0.21 | 0.01 | 0 |
| 237403 | 'Lingo3' | 6.45 | 3.67 | 9.31 | 0 | 12.8 | 1.16 | 14.6 | 5.41 | 5.72 | 0.29 |
| 237411 | 'Zfp938' | 5.39 | 12.89 | 5.9 | 4.55 | 15.8 | 8.11 | 9.63 | 12.42 | 11.78 | 16.43 |
| 237412 | 'Gm4924' | 4.62 | 8.34 | 1.91 | 0.09 | 5.57 | 0.08 | 3.38 | 3.7 | 3.46 | 1.72 |
| 237422 | 'Ric8b' | 18.18 | 24.08 | 19.4 | 26.3 | 7.28 | 4.28 | 13.7 | 17.98 | 17.81 | 13.06 |
| 237433 | 'Gm4925' | 0 | 0 | 0 | 0 | 0.29 | 0.38 | 0 | 1.97 | 0 | 0 |
| 237436 | 'Gas2l3' | 0.45 | 0.36 | 0.88 | 1.52 | 1.62 | 0.56 | 0.33 | 0.34 | 1.07 | 0.48 |
| 237459 | 'Cdk17' | 4.39 | 2.2 | 1.72 | 0.51 | 4.85 | 5.31 | 3.02 | 2.7 | 8.58 | 8 |
| 237465 | 'Ccadc38' | 0.08 | 0.2 | 0.23 | 0 | 0.37 | 0.06 | 0.14 | 0.19 | 0.28 | 1.28 |
| 237500 | 'Tmtc3' | 4.02 | 0.5 | 2.29 | 3.74 | 5.03 | 5.32 | 0.3 | 0.34 | 4.83 | 3.77 |
| 237504 | 'Rassf9' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.12 |
| 237523 | 'Ptprq' | 0.81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 237542 | 'Osbp18' | 3.03 | 7.08 | 4.18 | 3.97 | 1.78 | 3.32 | 5.56 | 6.22 | 6.3 | 5.16 |
| 237553 | 'Trhde' | 1.5 | 1.66 | 0.21 | 1.98 | 1.41 | 1.24 | 0.93 | 0 | 2.98 | 2.04 |
| 237558 | 'Myrf1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 237560 | 'Lrrc10' | 0 | 1.2 | 0 | 0.08 | 0.03 | 0.07 | 0.04 | 0 | 0.03 | 0.06 |
| 237611 | 'Stac3' | 0.97 | 2.88 | 0 | 2.09 | 0.66 | 3.08 | 1.71 | 0 | 10.89 | 11.69 |
| 237615 | 'Ankrd52' | 2.02 | 1.34 | 1.29 | 2.39 | 0.66 | 1.16 | 1.61 | 0.21 | 2.66 | 1.35 |
| 237625 | 'Pla2g3' | 1.98 | 0.64 | 5.21 | 0 | 0 | 0 | 0 | 0 | 0.81 | 1.42 |
| 237711 | 'Eml6' | 3.33 | 2.79 | 4.91 | 6.01 | 1.65 | 0.84 | 2.91 | 1.92 | 3.25 | 2.52 |
| 237716 | 'Gpr75' | 3.96 | 2.99 | 6.46 | 4.8 | 5.29 | 0.01 | 4.89 | 1.67 | 2.61 | 2.72 |
| 237730 | 'Fbl11' | 6.11 | 4.07 | 4.73 | 13 | 7.98 | 12.15 | 16.6 | 3.78 | 16.21 | 3.85 |
| 237758 | 'Zfp454' | 0.89 | 1.28 | 6.21 | 0 | 3.24 | 0 | 0 | 1.59 | 4.64 | 0.14 |
| 237759 | 'Col23a1' | 0 | 0.28 | 0 | 0.45 | 3.64 | 0.02 | 0.21 | 0 | 0 | 1.55 |
| 237761 | 'Sowaha' | 7.79 | 1.97 | 4.53 | 3.96 | 7.28 | 4.26 | 4.81 | 0.02 | 0.01 | 1.06 |
| 237775 | 'Zfp867' | 4 | 2.56 | 1.92 | 5.52 | 2.36 | 0.3 | 7.97 | 6.55 | 7.57 | 3.93 |
| 237781 | 'Mief2' | 3.25 | 8.74 | 14.6 | 16.2 | 12.6 | 12.36 | 8.43 | 8.75 | 14.19 | 9.34 |
| 237782 | 'Smcr8' | 0.01 | 0.78 | 2.67 | 4.17 | 0.11 | 0.01 | 0.15 | 0.02 | 0.75 | 1.06 |
| 237806 | 'Dnah9' | 0.99 | 0.3 | 0.08 | 0.48 | 0.31 | 0.05 | 0.16 | 0.07 | 0.83 | 0.14 |
| 237823 | 'Pfas' | 14.73 | 16.73 | 9.53 | 12.4 | 13.9 | 10.68 | 7.55 | 15.35 | 11.15 | 11.92 |
| 237831 | 'Slc13a5' | 2.7 | 0 | 2.75 | 0 | 0 | 0 | 4.5 | 0 | 2.95 | 1.96 |
| 237847 | 'Rtn4rl1' | 0.01 | 1.36 | 9.78 | 0 | 5.04 | 8.58 | 0 | 1.69 | 8.03 | 17.48 |
| 237858 | 'Trarg1' | 2.74 | 0 | 0 | 0 | 1.67 | 0 | 0.02 | 0.01 | 0 | 0 |
| 237859 | 'Nsrp1' | 11.28 | 13.49 | 9.44 | 5.6 | 15.8 | 8.03 | 6.55 | 8.83 | 7.82 | 12.75 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 237860 | 'Ssh2' | 1.99 | 2.56 | 0.93 | 0.1 | 2.62 | 1.94 | 1.86 | 1.2 | 1.97 | 0.75 |
| 237868 | 'Sarm1' | 8.96 | 8.37 | 8.07 | 7.53 | 8.35 | 5.53 | 6.38 | 6.37 | 3.24 | 7.04 |
| 237877 | 'Atad5' | 1.43 | 2.72 | 0.14 | 1.9 | 0.5 | 0.37 | 0.01 | 2.18 | 0.39 | 2.5 |
| 237880 | '1700071K01Rik' | 0 | 0 | 3.54 | 0 | 0 | 0 | 0 | 0.96 | 0 | 0 |
| 237886 | 'Slnf9' | 0.35 | 0.41 | 0.41 | 2.43 | 0.62 | 0.53 | 0.53 | 0.28 | 0.46 | 0.32 |
| 23789 | 'Coro1b' | 38.18 | 60.42 | 33.2 | 28.3 | 44.5 | 38.96 | 41.1 | 43.04 | 38.81 | 29.69 |
| 237891 | 'Gas2l2' | 1.21 | 1.26 | 0.44 | 0 | 0.18 | 0 | 0 | 0 | 0 | 0.44 |
| 237898 | 'Usp32' | 0.89 | 3.86 | 2.23 | 8.97 | 2.31 | 0.05 | 1.56 | 3.09 | 3.62 | 3.55 |
| 23790 | 'Coro1c' | 27.39 | 31.83 | 50.4 | 52.9 | 39.4 | 39.3 | 43.1 | 45.87 | 41.95 | 34.25 |
| 237911 | 'Brip1' | 0.27 | 0.4 | 0.55 | 0.3 | 0.4 | 0.34 | 0.35 | 0.33 | 0.33 | 0.42 |
| 23792 | 'Adam23' | 3.12 | 1.74 | 2.06 | 1.08 | 5.15 | 0.88 | 3.96 | 2.16 | 7.73 | 1.71 |
| 237926 | 'Rsad1' | 2.93 | 2.79 | 1.99 | 0 | 4.84 | 0 | 9.48 | 1.51 | 7.48 | 2.25 |
| 237928 | 'Phospho1' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0.04 | 0 | 0 |
| 23794 | 'Adamts5' | 0.73 | 0 | 0 | 0 | 0 | 0.24 | 0.04 | 0 | 0 | 0 |
| 237940 | 'Aoc2' | 0.12 | 0.09 | 0.13 | 3.99 | 1.14 | 0.11 | 0.04 | 0.08 | 0.18 | 0.02 |
| 237943 | 'Gpatch8' | 10.73 | 5.77 | 7.22 | 8.05 | 10.5 | 6.76 | 7.99 | 6.65 | 5.53 | 5.24 |
| 23795 | 'Agr2' | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23796 | 'Aplnr' | 21.2 | 11.4 | 30.5 | 25.2 | 13.1 | 151.1 | 113 | 252.8 | 102.1 | 233.41 |
| 23797 | 'Akt3' | 4.72 | 2.75 | 4.33 | 4.13 | 6.71 | 2.34 | 2.71 | 0.38 | 5.14 | 0.91 |
| 237979 | 'Sdk2' | 1.51 | 1.37 | 0.06 | 2.07 | 0.47 | 0.01 | 0 | 0.46 | 0.61 | 0.34 |
| 237988 | 'Cdr2l' | 1.88 | 1.41 | 6.09 | 0 | 2.05 | 1.5 | 4.67 | 1.31 | 4.44 | 1.16 |
| 23801 | 'Aloxe3' | 4.46 | 7.01 | 3.33 | 3.01 | 2.99 | 4.9 | 7.37 | 1.9 | 6.9 | 14.89 |
| 23802 | 'Amfr' | 15.13 | 13.89 | 20.2 | 23.3 | 15 | 12.66 | 25.3 | 3.85 | 13.59 | 12.07 |
| 238021 | 'Fscn2' | 0.75 | 0.45 | 0 | 5.21 | 0 | 0 | 0 | 0.47 | 0 | 0.32 |
| 238023 | 'Hexdc' | 2.66 | 15.53 | 14.9 | 24 | 5.4 | 12.32 | 19.3 | 15.66 | 2.58 | 5.43 |
| 238024 | 'Fn3krp' | 4.16 | 5.91 | 6.44 | 2.05 | 3.19 | 6.71 | 3.55 | 1.73 | 3.99 | 3.9 |
| 238037 | 'Wdcp' | 5.37 | 4.73 | 7.22 | 7.64 | 2.21 | 3.73 | 1.63 | 5.67 | 5.26 | 3.37 |
| 23805 | 'Apc2' | 8.61 | 7.44 | 12.1 | 9.64 | 8.11 | 3.28 | 4.87 | 7.79 | 7.44 | 15 |
| 23806 | 'Arih1' | 1.03 | 3.24 | 5.24 | 4.81 | 0.61 | 1.88 | 4.02 | 2.84 | 0.48 | 2.31 |
| 23807 | 'Arih2' | 16.61 | 12.98 | 14.8 | 13.7 | 21.2 | 9.19 | 14 | 12.7 | 13.23 | 16.45 |
| 238076 | 'Kcns3' | 0.02 | 2.66 | 0.51 | 0 | 0.03 | 5.84 | 6.35 | 3.42 | 0 | 0 |
| 23808 | 'Ash2l' | 11.5 | 4.05 | 7.56 | 42.5 | 6.56 | 11 | 12.2 | 8.82 | 10.7 | 11.33 |
| 238123 | 'Cog5' | 8.64 | 6.8 | 14.9 | 15.5 | 0.51 | 6.86 | 2.76 | 12.11 | 13.93 | 4.15 |
| 238130 | 'Dock4' | 2.58 | 2.09 | 0.66 | 0.12 | 1.46 | 0.2 | 1.29 | 0.2 | 0.33 | 0.29 |
| 238161 | 'Akap6' | 14.06 | 11.94 | 15.8 | 12.5 | 11.4 | 9.16 | 11.6 | 9.97 | 12.29 | 14.53 |
| 238205 | 'Lrfn5' | 24.78 | 18.83 | 27 | 18.9 | 10.2 | 9.35 | 26.6 | 21.42 | 15.93 | 21.56 |
| 23821 | 'Bace1' | 16.59 | 14.34 | 14.4 | 9.13 | 6.86 | 10.65 | 14.7 | 7.31 | 12.33 | 10.78 |
| 238247 | 'Arid4a' | 24.98 | 21.12 | 13.3 | 47.7 | 26.7 | 27.35 | 36.2 | 22.81 | 22.44 | 26.85 |
| 23825 | 'Banf1' | 143.5 | 139.5 | 109 | 149 | 121 | 114 | 119 | 146.3 | 102.2 | 117.83 |
| 238252 | 'Gpr135' | 2.68 | 12.37 | 3.31 | 5.28 | 2.08 | 14.46 | 20.7 | 6.24 | 3.94 | 16.52 |
| 238257 | 'Tmem30b' | 0 | 0 | 0 | 0 | 1.54 | 0 | 0 | 0 | 0 | 0 |
| 238266 | 'Syt16' | 3.52 | 28.66 | 28.2 | 13.3 | 7.63 | 7.99 | 29.9 | 35.41 | 8.35 | 7.61 |
| 23827 | 'Bpnt1' | 50.66 | 62.88 | 37.1 | 29.7 | 33.7 | 38.57 | 29.8 | 57 | 25.82 | 50.8 |
| 238271 | 'Kcni5' | 1.94 | 2.8 | 3.99 | 0.01 | 5.6 | 0.65 | 1.8 | 2.52 | 6.21 | 4.11 |
| 238276 | 'Akap5' | 2.21 | 1.8 | 1.11 | 4.77 | 0.77 | 2.89 | 6.19 | 2.43 | 2.62 | 0.79 |
| 23828 | 'Bves' | 0 | 0 | 1.43 | 0 | 0 | 0 | 0 | 0.35 | 0 | 0 |
| 23829 | 'C1ql1' | 1.23 | 0 | 0 | 0 | 3.79 | 9.54 | 0 | 0 | 5.93 | 3.96 |
| 23830 | 'Capn10' | 13.15 | 18.66 | 33.3 | 19.1 | 17.1 | 29.52 | 17.9 | 8.09 | 20.69 | 4.02 |
| 23831 | 'Car14' | 2.18 | 4.57 | 0.09 | 0.04 | 0.09 | 7.37 | 0 | 5.07 | 0.05 | 0.05 |
| 238317 | 'Elmsan1' | 0.79 | 3.91 | 1.66 | 0.01 | 0.76 | 0.47 | 1.46 | 0.03 | 0.21 | 0.29 |
| 23832 | 'Xcr1' | 0.55 | 0.14 | 0.08 | 0.16 | 0.1 | 0.09 | 0.06 | 0.06 | 0.03 | 0.08 |
| 238323 | 'Rps6kl1' | 31.68 | 44.21 | 39.2 | 21 | 33 | 25.64 | 24 | 37.79 | 45.33 | 54.91 |
| 238328 | 'Vash1' | 0.16 | 1.11 | 0.54 | 2.94 | 4.46 | 2.38 | 3.65 | 1.87 | 1.43 | 0.74 |
| 23833 | 'Cd52' | 12.51 | 1.27 | 2.55 | 19.6 | 4.55 | 33.03 | 0 | 1.87 | 0 | 0 |
| 238330 | 'Irf2bp1' | 10.35 | 10.01 | 12.6 | 6.53 | 5.97 | 9.33 | 5.56 | 8.11 | 7.05 | 8.79 |
| 238331 | 'Zdhhc22' | 34.5 | 54.28 | 23.3 | 50.1 | 54.3 | 28.33 | 64.5 | 47.33 | 7.74 | 5.71 |
| 238333 | 'Samd15' | 0.64 | 2.63 | 0.11 | 1.33 | 0.26 | 0.03 | 1.17 | 0.44 | 2.54 | 2.73 |
| 23834 | 'Cdc6' | 0 | 0 | 0 | 0 | 0.02 | 0 | 4.94 | 0 | 0 | 0.02 |

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|--------|--------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 23836 | 'Cdh20' | 4.7 | 8.65 | 0.03 | 0.35 | 0 | 0.58 | 3.75 | 1.21 | 4.66 | 6.41 |
| 23837 | 'Cfdp1' | 204.2 | 127.7 | 136 | 179 | 127 | 161.7 | 135 | 158.9 | 129.1 | 140.85 |
| 238377 | 'Gpr68' | 3.51 | 0.94 | 10.5 | 0.1 | 2.83 | 10.55 | 0.07 | 1.98 | 4.78 | 4.42 |
| 238384 | 'Slc24a4' | 0 | 0 | 0 | 1.37 | 2.02 | 0 | 0.04 | 0 | 0 | 0.01 |
| 238386 | 'Btdb7' | 0.63 | 0.72 | 1.94 | 5.88 | 0.88 | 2.24 | 0.01 | 0.66 | 0.75 | 0.24 |
| 238393 | 'Serpina3f' | 0.02 | 1.91 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23844 | 'Clca1' | 0 | 0 | 0 | 0 | 0.78 | 0 | 0 | 0 | 0 | 0 |
| 23845 | 'Clec5a' | 0 | 0.72 | 0 | 0 | 3.9 | 0.55 | 2.83 | 0.02 | 0 | 0 |
| 23849 | 'Klf6' | 8.33 | 29.5 | 28.9 | 88 | 15.9 | 17.18 | 20.5 | 16.09 | 17.6 | 18.37 |
| 23850 | 'Pappa2' | 0 | 0 | 0.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 238505 | 'Mtr' | 2.16 | 0.8 | 0.02 | 0.01 | 1.75 | 0.56 | 4.1 | 0 | 3.02 | 0.53 |
| 23853 | 'Def6' | 2.55 | 1.62 | 0 | 0 | 0 | 5.32 | 0 | 0 | 2.23 | 5.24 |
| 23854 | 'Def8' | 19.42 | 23.13 | 30.3 | 3.73 | 19.5 | 8.42 | 11.2 | 8.1 | 18.89 | 13.61 |
| 23855 | 'Defa17' | 0 | 0 | 0 | 0 | 0 | 0 | 34.3 | 0 | 0 | 0 |
| 238555 | 'Btn2a2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.87 | 0 |
| 23856 | 'Dido1' | 6.93 | 4.99 | 2.62 | 9.48 | 8.85 | 7.15 | 2.16 | 4.91 | 11.84 | 8.28 |
| 238564 | 'Mylk4' | 0.03 | 0 | 0.1 | 0.05 | 0.04 | 0.02 | 0.01 | 0 | 0.02 | 0.01 |
| 23857 | 'Dmtf1' | 12.55 | 10.22 | 20.8 | 17 | 23.1 | 8.74 | 7.16 | 15.72 | 12.12 | 26.76 |
| 23859 | 'Dlg2' | 9.42 | 8.11 | 8.18 | 6.06 | 9.78 | 14.32 | 5.25 | 7.1 | 13.17 | 19.14 |
| 23863 | 'Dand5' | 2.05 | 0.95 | 6.87 | 0 | 5.78 | 11.11 | 5.3 | 15.15 | 13.31 | 20.22 |
| 238663 | 'Spata31d1d' | 0 | 0 | 0 | 0 | 0 | 1.64 | 0 | 0 | 0 | 0 |
| 238673 | 'Zfp367' | 5.3 | 5.67 | 4.89 | 0.68 | 7.01 | 3.69 | 4.41 | 2.18 | 0.85 | 4.45 |
| 238680 | 'Cntnap3' | 0 | 0.14 | 1.92 | 0 | 1.18 | 0 | 0.23 | 0 | 0 | 0 |
| 238690 | 'Zfp458' | 1.91 | 1.43 | 0.34 | 0.26 | 0.84 | 0.55 | 2.27 | 0.09 | 1.42 | 0.77 |
| 238692 | 'Zfp874a' | 4.77 | 2.82 | 3.43 | 0 | 1.92 | 4.73 | 0 | 4.48 | 0 | 6.54 |
| 238693 | 'Zfp58' | 0 | 7.73 | 1.1 | 0 | 6.35 | 3.56 | 3.7 | 2 | 2.72 | 5.04 |
| 23871 | 'Ets1' | 0 | 0 | 0 | 0 | 0.01 | 0 | 2.02 | 0 | 0 | 0 |
| 23872 | 'Ets2' | 40.49 | 54.69 | 35 | 27.3 | 21.9 | 23.4 | 42.2 | 50.1 | 18.63 | 37.36 |
| 238722 | 'Zfp72' | 3.15 | 2.92 | 4.02 | 0 | 2.78 | 1.19 | 4.59 | 4.22 | 6.6 | 3.57 |
| 238725 | 'Gpr150' | 0.57 | 1.77 | 2.67 | 0 | 3.33 | 0.98 | 0 | 2.13 | 1.62 | 2.68 |
| 238726 | 'Fam81b' | 1.56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23873 | 'Faim' | 44.72 | 76.73 | 53.2 | 66 | 64.7 | 72.23 | 62.6 | 23.67 | 56.54 | 52.13 |
| 23874 | 'Farsb' | 117.1 | 95.54 | 73.1 | 67.8 | 47.6 | 83.09 | 106 | 73.83 | 82.5 | 87.2 |
| 23876 | 'Fbln5' | 15.37 | 6.25 | 0.02 | 0.02 | 0 | 5.23 | 12.9 | 1.95 | 0 | 0 |
| 23877 | 'Fiz1' | 9.4 | 2.27 | 7.49 | 4.23 | 11.8 | 7.52 | 2.34 | 2.21 | 1.57 | 5.01 |
| 23879 | 'Fxr2' | 14.15 | 17.95 | 10.2 | 0 | 22.6 | 4.99 | 5.54 | 13.21 | 11.07 | 8.19 |
| 238799 | 'Tnpo1' | 4.91 | 4.84 | 5.07 | 7.56 | 1.8 | 2.16 | 3.59 | 3.55 | 4.38 | 5.08 |
| 23880 | 'Fyb' | 0 | 0 | 1.25 | 0.63 | 1.66 | 9.52 | 0.01 | 1.54 | 0 | 0 |
| 23881 | 'G3bp2' | 157.2 | 151 | 118 | 74.1 | 159 | 146.8 | 167 | 157.3 | 154 | 166.39 |
| 23882 | 'Gadd45g' | 93.13 | 305 | 263 | 490 | 58 | 133.7 | 22.5 | 141.6 | 82.93 | 147.39 |
| 238831 | 'Ppwd1' | 2.33 | 2.33 | 2.35 | 0.99 | 5.93 | 2.46 | 2.21 | 1.5 | 3.41 | 5.13 |
| 23885 | 'Gmcl1' | 7.71 | 0.72 | 2.56 | 6.09 | 7.89 | 1.91 | 2.16 | 4.8 | 5.45 | 3 |
| 23886 | 'Gdf15' | 0 | 3.01 | 0 | 0 | 0.98 | 0 | 0 | 0 | 0 | 0 |
| 23887 | 'Ggt5' | 0.31 | 6.45 | 0 | 0 | 0.03 | 0 | 0 | 1.65 | 0 | 0 |
| 238871 | 'Pde4d' | 2.28 | 3.35 | 5.1 | 7.53 | 2.91 | 3.78 | 7.87 | 3.36 | 5.35 | 1.84 |
| 238875 | 'Gapt' | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 |
| 23888 | 'Gpc6' | 0.45 | 0.39 | 1.03 | 0.02 | 1.58 | 1.04 | 0.51 | 0.66 | 0.09 | 0.38 |
| 238896 | 'Cdc20b' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23890 | 'Gpr34' | 0.23 | 0.25 | 0 | 7.71 | 6.77 | 19.41 | 0 | 0.04 | 0 | 1.76 |
| 23892 | 'Grem1' | 0 | 2.99 | 4.12 | 9.66 | 0 | 8.69 | 0 | 0 | 5.68 | 0 |
| 23893 | 'Grem2' | 0.22 | 0.57 | 1.42 | 0.56 | 3.37 | 0.6 | 3.13 | 0.87 | 3.35 | 1.18 |
| 23894 | 'Gtf2h2' | 23.02 | 26.3 | 18.3 | 60.8 | 23 | 55.58 | 24.7 | 28.77 | 64.8 | 39.22 |
| 23897 | 'Hax1' | 101.3 | 145.2 | 108 | 129 | 104 | 210.9 | 158 | 128.8 | 105.7 | 122.09 |
| 238988 | 'Erc2' | 9.01 | 10.94 | 8.93 | 6.73 | 12.6 | 11.06 | 13.8 | 8.61 | 15.36 | 7.02 |
| 239017 | 'Ogdhl' | 16.75 | 20.19 | 52.9 | 17.5 | 14.3 | 6.57 | 27.8 | 14.61 | 33.56 | 19.13 |
| 239027 | 'Arhgap22' | 3.78 | 0.44 | 4.68 | 6.1 | 1.07 | 4.92 | 6.01 | 0 | 7.47 | 0.67 |
| 23908 | 'Hs2st1' | 5.31 | 8.72 | 2.37 | 10.6 | 1.45 | 0 | 0.01 | 2.96 | 0.99 | 0.43 |
| 239096 | 'Cdh24' | 0.27 | 1.69 | 0.07 | 0 | 0 | 0.11 | 2.08 | 0 | 0 | 0 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 23959 | 'Nt5e' | 0 | 0.05 | 0 | 0.61 | 0 | 0 | 4.35 | 1.6 | 0 | 0 |
| 239591 | 'Ttl8' | 0.13 | 0.12 | 0.31 | 0.02 | 0 | 0 | 0 | 0.01 | 0.52 | 0.83 |
| 23960 | 'Oas1g' | 0 | 0 | 0 | 1.96 | 0 | 0 | 0 | 0 | 0 | 0 |
| 239606 | 'Slc2a13' | 1.33 | 1.27 | 4.89 | 0.03 | 0.94 | 2.32 | 2.81 | 0.63 | 1.87 | 2.78 |
| 239611 | 'Muc19' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 239618 | 'Pdzn4' | 13.9 | 28.93 | 8.98 | 5.06 | 6.94 | 4.43 | 14 | 14.46 | 4.43 | 2.67 |
| 23962 | 'Oasl2' | 0.02 | 3.18 | 7.26 | 86.5 | 0 | 0.02 | 6.41 | 2.3 | 17.93 | 10.9 |
| 23963 | 'Tenm1' | 10.82 | 6.69 | 9.55 | 5.14 | 10.3 | 7.7 | 11.7 | 8.92 | 11.41 | 9.35 |
| 23964 | 'Tenm2' | 8.06 | 3.54 | 7.44 | 2.31 | 16 | 3.93 | 7.01 | 6.95 | 0.94 | 1.27 |
| 239647 | 'Pced1b' | 7.84 | 2.64 | 2.74 | 0.31 | 0.19 | 4.18 | 2.89 | 4 | 0.29 | 2.23 |
| 23965 | 'Tenm3' | 2.04 | 1.27 | 1.86 | 7.44 | 3.07 | 1.61 | 7.46 | 0.82 | 0.48 | 1.24 |
| 239650 | 'Ccdc184' | 33.32 | 34.98 | 80.8 | 93 | 31.6 | 28.76 | 44.3 | 52.58 | 34.21 | 32.89 |
| 239652 | 'Zfp641' | 1.71 | 1.96 | 5.37 | 0 | 2.29 | 1.11 | 3.24 | 3.19 | 0.13 | 2.76 |
| 23966 | 'Tenm4' | 1.9 | 5.99 | 6.18 | 3.18 | 7.66 | 4.34 | 9.14 | 3.64 | 4.93 | 2.48 |
| 239667 | 'Dip2b' | 1.72 | 0.71 | 3.34 | 9.17 | 1.64 | 1.62 | 3.33 | 1.5 | 2 | 1 |
| 23967 | 'Osr1' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 239673 | 'Krt90' | 11.18 | 59.19 | 0.02 | 24.8 | 0.04 | 0 | 0 | 26.18 | 0.07 | 9.78 |
| 23968 | 'Nlrp5' | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23969 | 'Pacsin1' | 85.08 | 65.44 | 76.8 | 29.8 | 113 | 87.09 | 63.9 | 81.3 | 60.3 | 78.75 |
| 23970 | 'Pacsin2' | 4.57 | 6.33 | 30.3 | 25.6 | 22.6 | 13.93 | 26 | 9.12 | 29.91 | 12.29 |
| 239706 | 'Mettl22' | 27.9 | 41.27 | 49.9 | 12.6 | 34.9 | 73.51 | 31.1 | 64.52 | 56.39 | 41.27 |
| 23971 | 'Papss1' | 19.31 | 32.86 | 36.3 | 8.85 | 22.5 | 26.28 | 36.6 | 17.29 | 23.07 | 43.38 |
| 239719 | 'Mkl2' | 26.1 | 17.95 | 17 | 35.9 | 24.9 | 12.61 | 22.8 | 17.1 | 17.67 | 19.66 |
| 23972 | 'Papss2' | 3.84 | 1.07 | 2.49 | 0 | 0.11 | 4.13 | 0.8 | 3.09 | 1.47 | 0 |
| 239731 | 'Rimbp3' | 1.36 | 1.78 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.8 | 0 |
| 239739 | 'Lamp3' | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0.04 |
| 239743 | 'Klhl6' | 0 | 0 | 0.02 | 0 | 2.65 | 0.68 | 0 | 0 | 0 | 0 |
| 239759 | 'Liph' | 1.53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.48 |
| 239766 | 'Rtp1' | 1.56 | 3.95 | 0 | 0 | 0.03 | 3.67 | 3.92 | 5.64 | 0 | 0 |
| 239789 | 'Gmnc' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 239796 | 'Mb21d2' | 11.5 | 4.68 | 1.87 | 0 | 0.55 | 6.42 | 3.6 | 5.56 | 5.12 | 2.89 |
| 23980 | 'Pebp1' | 739.5 | 772.6 | 774 | 641 | 812 | 1061 | 983 | 794.9 | 591 | 680.63 |
| 239827 | 'Pigz' | 14.29 | 3.84 | 7.79 | 1.69 | 2.73 | 8.35 | 11.9 | 12.13 | 18.68 | 9.68 |
| 23983 | 'Pcbp1' | 102 | 104.8 | 79.9 | 84.2 | 86.3 | 103.8 | 87.7 | 78.72 | 64.95 | 100.21 |
| 239833 | 'Lmln' | 0.29 | 0.01 | 0.41 | 2.15 | 1.03 | 2.77 | 3.22 | 0.55 | 1.19 | 1.79 |
| 239839 | 'Ccdc14' | 0.65 | 0.24 | 0 | 8.21 | 0.45 | 0 | 1.97 | 1.59 | 0 | 0.38 |
| 23984 | 'Pde10a' | 4.12 | 2.03 | 3.44 | 5.95 | 2.86 | 3.47 | 1.48 | 1.87 | 11.42 | 2.13 |
| 239845 | 'Gpr156' | 0 | 0 | 1.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23985 | 'Slc26a4' | 0 | 0 | 2.73 | 0 | 0 | 0 | 0 | 0.9 | 0 | 0.01 |
| 239857 | 'Cadm2' | 3.46 | 2.17 | 3.09 | 2.48 | 3.02 | 0.13 | 7.82 | 2.58 | 1.16 | 4.02 |
| 23986 | 'Eci2' | 20.23 | 40.78 | 50.7 | 57.7 | 23.2 | 52.48 | 51.4 | 35.58 | 24.31 | 19.82 |
| 23988 | 'Pin1' | 67.89 | 55.9 | 58.5 | 86.7 | 90.6 | 86.1 | 58.7 | 91.77 | 71.89 | 84.73 |
| 23989 | 'Med24' | 15.72 | 31.8 | 27.7 | 19.3 | 13.8 | 8.32 | 37.7 | 26.46 | 11.07 | 28.98 |
| 23991 | 'Cib1' | 7.87 | 2.07 | 5.26 | 0.07 | 10.1 | 16.7 | 5.88 | 5.77 | 13.58 | 4.64 |
| 23992 | 'Prkra' | 13.42 | 38.12 | 36 | 24.3 | 14.6 | 30.24 | 33.8 | 23.1 | 20.78 | 27.35 |
| 23994 | 'Dazap2' | 71.96 | 52.56 | 81.4 | 126 | 66.3 | 82.62 | 120 | 78 | 53.05 | 58.97 |
| 23996 | 'Psmc4' | 156.2 | 187.6 | 182 | 208 | 163 | 223.6 | 142 | 241.6 | 233.2 | 192.39 |
| 23997 | 'Psm13' | 112.5 | 114.7 | 130 | 152 | 120 | 103.6 | 112 | 134.6 | 87.21 | 119.44 |
| 239985 | 'Arid1b' | 2.35 | 1.65 | 0.39 | 1.93 | 0.46 | 0.43 | 0.56 | 0.32 | 2.47 | 1.33 |
| 23999 | 'Twf2' | 12.99 | 33.61 | 40 | 12.3 | 34.4 | 22.65 | 20.3 | 22.92 | 24.81 | 39.17 |
| 24000 | 'Ptpn21' | 0.46 | 0.11 | 0.18 | 1.13 | 0 | 0.9 | 1.71 | 0.42 | 1.19 | 0.24 |
| 24001 | 'Tiam2' | 1.45 | 1.28 | 1.68 | 3.29 | 0.11 | 0 | 0.06 | 1.88 | 0 | 1.71 |
| 240023 | 'Pnldc1' | 0.03 | 0.21 | 0 | 0.13 | 0.09 | 0.11 | 0.68 | 0.03 | 0.09 | 0 |
| 240025 | 'Dact2' | 9.44 | 4.58 | 1.68 | 0.02 | 2.01 | 0 | 1.8 | 1.98 | 7.02 | 0.03 |
| 240028 | 'Lnpep' | 0.02 | 1.62 | 1.61 | 0 | 0 | 4.53 | 1.11 | 1.4 | 3.22 | 0.69 |
| 240034 | 'Zfp760' | 1.99 | 1.9 | 0.66 | 0.01 | 3.21 | 0.01 | 0 | 0.71 | 2.16 | 0.01 |
| 240038 | 'Zfp994' | 2.46 | 3.81 | 3.85 | 2.48 | 1.08 | 2.06 | 5.99 | 3.24 | 1.46 | 1.73 |
| 24004 | 'Rai2' | 1.39 | 0.84 | 2.63 | 11 | 8.02 | 2.72 | 12.7 | 5.42 | 13.22 | 9.66 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 240041 | 'Zfp945' | 1.69 | 0.77 | 2.39 | 3.03 | 2.06 | 1.28 | 1.5 | 1.36 | 2.64 | 2.28 |
| 240047 | 'Mmp25' | 0 | 0.03 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 240055 | 'Neurl1b' | 0.17 | 0 | 0.92 | 4.14 | 0.25 | 0 | 0 | 0 | 0 | 0.01 |
| 240057 | 'Syngap1' | 0.78 | 0.3 | 1.47 | 0.76 | 0.53 | 2.97 | 0.77 | 1.4 | 1.13 | 0.67 |
| 240058 | 'Cpne5' | 9.35 | 7.83 | 7.55 | 25.2 | 16.6 | 22.68 | 11.7 | 14.32 | 7.01 | 23.53 |
| 240063 | 'Zfp811' | 6.8 | 11.12 | 4.57 | 0.22 | 3.3 | 5.5 | 11.6 | 13.33 | 3.33 | 8.01 |
| 240064 | 'Zfp799' | 5.34 | 4.59 | 4.27 | 6.47 | 3.68 | 3.97 | 3.27 | 2.13 | 1.78 | 11.44 |
| 240066 | 'Zfp870' | 0.14 | 0.06 | 3.8 | 0 | 0 | 1.58 | 0.01 | 1.57 | 4.38 | 3.22 |
| 240067 | 'Zfp952' | 12.25 | 4.13 | 7.33 | 18.8 | 14.9 | 3.42 | 7.5 | 10.47 | 10.29 | 2.51 |
| 240068 | 'Zfp563' | 4.77 | 1.84 | 0.85 | 0 | 1.38 | 1.18 | 3.06 | 1.37 | 4.48 | 2.48 |
| 240069 | 'Morc2b' | 1.58 | 0.6 | 2.39 | 0 | 0.02 | 0.93 | 2.46 | 0.34 | 0 | 0.45 |
| 240084 | 'Cchcr1' | 1.63 | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 1.34 |
| 240087 | 'Mdc1' | 0.29 | 0.61 | 1.23 | 0.58 | 2.58 | 1.48 | 0.97 | 0.2 | 0.79 | 4.21 |
| 240095 | 'H2-M5' | 1.32 | 0 | 0 | 2.35 | 0 | 0 | 0.09 | 0.21 | 0 | 0 |
| 24010 | 'Ik' | 97.61 | 69.62 | 96.8 | 143 | 68.2 | 50.03 | 78.6 | 80.7 | 66.52 | 82.44 |
| 240119 | 'St6gal2' | 1.66 | 0.4 | 12.7 | 0 | 0.29 | 12.07 | 1.36 | 10.04 | 0.02 | 0 |
| 24012 | 'Rgs7' | 17.72 | 5.65 | 14.9 | 10.1 | 8.07 | 7.36 | 11.3 | 9.98 | 15.47 | 12.2 |
| 240120 | 'Zfp119b' | 2.43 | 0 | 5.83 | 0.13 | 0 | 0 | 0.03 | 0.02 | 3.34 | 0.09 |
| 240121 | 'Fsd1' | 116.7 | 134.7 | 97.3 | 119 | 117 | 82.29 | 99.5 | 91.29 | 107.2 | 115.91 |
| 24013 | 'Grk1' | 2.42 | 2.46 | 3.76 | 2.69 | 4.13 | 2.91 | 3.23 | 2.46 | 4.79 | 2.27 |
| 24014 | 'Rnasel' | 0.13 | 0.1 | 0.11 | 0.21 | 6.01 | 0.07 | 2.98 | 0.09 | 5.82 | 6.8 |
| 24015 | 'Abce1' | 17.98 | 14.49 | 14.5 | 26 | 11.6 | 7.69 | 9.11 | 15.93 | 19.25 | 10.87 |
| 240168 | 'Rasgrp3' | 3.9 | 0.54 | 0 | 0.01 | 1.91 | 2.44 | 0 | 0 | 0 | 2.11 |
| 24017 | 'Rnf13' | 83.23 | 57.98 | 92.3 | 62.2 | 60.3 | 76.03 | 50.1 | 38.52 | 56.6 | 64.34 |
| 240174 | 'Thada' | 3.63 | 0.86 | 2.21 | 0.02 | 2.32 | 0.46 | 5.09 | 0.38 | 0.25 | 2.42 |
| 24018 | 'Rngtt' | 19.57 | 18.39 | 5.01 | 21.7 | 8.72 | 5.28 | 14 | 11.71 | 18.12 | 29.15 |
| 240185 | 'Jcad' | 0.2 | 0 | 0 | 0 | 0.77 | 0 | 0 | 0.01 | 0 | 3.18 |
| 240186 | 'Zfp438' | 1.32 | 0.95 | 0 | 0.08 | 0.11 | 5.97 | 1.88 | 2.12 | 7.5 | 0 |
| 240216 | 'E230025N22Rik' | 0 | 0 | 0.32 | 0 | 0.03 | 11.18 | 3.73 | 0 | 0 | 0 |
| 240239 | 'Gpr151' | 0 | 9.47 | 0 | 0 | 0.03 | 0.03 | 0 | 0 | 0 | 0 |
| 240255 | 'Ythdc2' | 0.27 | 0.46 | 1.01 | 1.91 | 0.84 | 0.01 | 5.22 | 0.85 | 0.75 | 0.12 |
| 240261 | 'Ccdc112' | 0.28 | 1.31 | 2.11 | 2.14 | 1.77 | 0.98 | 3.05 | 1.82 | 1.1 | 1.21 |
| 240263 | 'Fem1c' | 4.8 | 2.28 | 1.9 | 6.89 | 9.87 | 2.29 | 3.95 | 4.2 | 1.94 | 2.95 |
| 240283 | 'Dmxl1' | 0.72 | 0.51 | 0.65 | 2.27 | 0.63 | 0.58 | 1.52 | 0.06 | 1.06 | 0.51 |
| 24030 | 'Mrps12' | 230 | 161.8 | 202 | 243 | 245 | 347.7 | 252 | 307.1 | 231.3 | 272.84 |
| 240322 | 'Adamts19' | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 240327 | 'Gm4951' | 0.02 | 0.02 | 1.18 | 0 | 0 | 0.04 | 0 | 0 | 1.22 | 0.21 |
| 240328 | 'F830016B08Rik' | 4.69 | 3.61 | 5.22 | 11.5 | 7.37 | 5.43 | 4.15 | 2.21 | 4.38 | 4.37 |
| 240332 | 'Slc6a7' | 10.41 | 7.43 | 10.9 | 7.17 | 9.32 | 7.83 | 10.4 | 4.87 | 3.47 | 2.06 |
| 240334 | 'Pcyox1l' | 23.87 | 34.38 | 21.4 | 13.7 | 26 | 25.75 | 28 | 40.7 | 42.92 | 35.28 |
| 240354 | 'Malt1' | 0.99 | 0.35 | 1.47 | 2.53 | 0.82 | 0.18 | 2.99 | 0.19 | 1.19 | 0.65 |
| 240396 | 'Mex3c' | 1.23 | 0.88 | 0.33 | 0.01 | 0.67 | 0 | 1.44 | 1.26 | 0 | 0.03 |
| 240427 | 'Setbp1' | 0.49 | 1.46 | 0.41 | 0.76 | 0 | 0.54 | 0.07 | 0.07 | 0.82 | 0.8 |
| 24044 | 'Scamp2' | 5.7 | 16.59 | 17.3 | 5.77 | 1.68 | 20.13 | 20.6 | 5.08 | 3.67 | 4.77 |
| 240442 | 'Adnp2' | 6.24 | 0.29 | 1.68 | 9.64 | 0.8 | 0.04 | 3.2 | 3.97 | 1.86 | 2.45 |
| 240444 | 'Kcng2' | 0.35 | 2.65 | 0.04 | 3.74 | 4.93 | 4.44 | 1.78 | 2.8 | 2.36 | 4.71 |
| 24045 | 'Scamp3' | 83.62 | 73.69 | 73.7 | 85.5 | 86.8 | 83.9 | 79.7 | 91.07 | 95.74 | 61.37 |
| 24046 | 'Scn11a' | 1.41 | 0 | 0.01 | 1.1 | 2.78 | 0.57 | 0 | 0 | 0 | 1.08 |
| 24047 | 'Ccl19' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.52 | 0 |
| 240476 | 'Zfp407' | 1.46 | 0.56 | 1.12 | 3.73 | 2.24 | 1.2 | 0 | 0.43 | 0.09 | 1.05 |
| 240479 | 'Fam69c' | 0 | 0 | 5.16 | 2.61 | 0 | 3 | 0 | 3.06 | 0 | 0 |
| 24050 | 'Sept3' | 50.97 | 41.86 | 54.7 | 52.3 | 50.4 | 50.33 | 32.9 | 54.03 | 29.99 | 40.22 |
| 240505 | 'Cdc42bpg' | 0.62 | 0 | 0 | 0 | 0 | 0 | 0 | 1.05 | 0 | 0 |
| 24051 | 'Sgcb' | 17.16 | 33.08 | 29.2 | 15.5 | 8.79 | 25.45 | 51.2 | 33.61 | 20.36 | 36.79 |
| 240514 | 'Ccdc85b' | 7.41 | 8.43 | 14.8 | 5.67 | 16.9 | 5.28 | 10.2 | 4.97 | 9.84 | 0.93 |
| 240518 | 'Peli3' | 21 | 8.97 | 14.8 | 8.77 | 19.3 | 3.57 | 24.8 | 6.94 | 33.07 | 20.37 |
| 24052 | 'Sgcd' | 2.84 | 0.05 | 0.84 | 0.11 | 1.18 | 0.1 | 1.62 | 0.47 | 0.75 | 4.79 |
| 24053 | 'Sgcg' | 0 | 0.01 | 0.09 | 0 | 0.04 | 0.03 | 0 | 0.01 | 0.02 | 0.02 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 240549 | 'Gm4952' | 4.01 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 |
| 24055 | 'Sh3bp2' | 0 | 0.13 | 0 | 0 | 4.43 | 3.57 | 1.79 | 0 | 0.31 | 0.74 |
| 24056 | 'Sh3bp5' | 25.3 | 28.24 | 15.5 | 6.82 | 22.7 | 19.71 | 34.6 | 18.97 | 12.91 | 13.25 |
| 24057 | 'Sh3yl1' | 0 | 12.51 | 18.4 | 22.7 | 13.5 | 7.45 | 12.5 | 8.04 | 18.17 | 10.54 |
| 24059 | 'Slco2a1' | 0 | 0.04 | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 |
| 24060 | 'Slc35a1' | 9.15 | 20.99 | 20.1 | 35.1 | 22.9 | 30.39 | 12.1 | 22.65 | 18.46 | 24.01 |
| 24061 | 'Smc1a' | 20.84 | 31.86 | 30.3 | 29.8 | 19.4 | 23.39 | 25.8 | 24.38 | 23.04 | 23.15 |
| 240613 | '9930021J03Rik' | 3.18 | 0.34 | 3.48 | 8.2 | 2.02 | 2.57 | 2.6 | 0.6 | 5.63 | 0.99 |
| 240614 | 'Ranbp6' | 18.68 | 13.18 | 9.59 | 9.37 | 14.1 | 5.8 | 27.6 | 8.27 | 16.28 | 13.71 |
| 24063 | 'Spry1' | 4.49 | 8.43 | 19 | 21.2 | 1.18 | 0 | 4.1 | 2.6 | 0 | 2.03 |
| 240638 | 'Slc16a12' | 0.04 | 0 | 0 | 0 | 0 | 0 | 3.5 | 0 | 0 | 0 |
| 24064 | 'Spry2' | 13.76 | 20.61 | 16.6 | 51.4 | 5.29 | 12.29 | 8.68 | 15.67 | 18.19 | 18.15 |
| 240641 | 'Kif20b' | 0 | 0 | 0.33 | 0 | 0 | 0.15 | 0 | 0 | 0 | 0 |
| 24066 | 'Spry4' | 0.79 | 2.31 | 1.95 | 0.6 | 1.15 | 0.22 | 7.93 | 2.76 | 0.43 | 2.53 |
| 240660 | 'Slc35g1' | 2.76 | 0.07 | 0.12 | 0.08 | 0.11 | 0.03 | 0.03 | 0.03 | 0.11 | 1.39 |
| 240665 | 'Ccnj' | 1.28 | 1.05 | 1.63 | 3.05 | 0.05 | 0 | 0 | 0.34 | 0.94 | 0 |
| 240667 | 'Sec31b' | 0 | 0 | 0.08 | 0 | 0 | 0 | 0.49 | 0.34 | 1.28 | 0.19 |
| 24067 | 'Srp54a' | 30.53 | 29.55 | 40.9 | 31.2 | 28 | 33.7 | 25.9 | 38.97 | 41.38 | 34.02 |
| 240672 | 'Dusp5' | 0 | 0.38 | 3.63 | 7.06 | 0 | 0 | 0.04 | 0 | 0.42 | 0.19 |
| 240675 | 'Vwa2' | 0 | 0.19 | 0 | 4.41 | 1.26 | 0 | 0 | 0 | 0.01 | 0 |
| 24068 | 'Sra1' | 87.73 | 57.98 | 68.7 | 125 | 105 | 97.6 | 20.5 | 59.94 | 77.04 | 109.39 |
| 24069 | 'Sufu' | 2.61 | 4.04 | 2.5 | 7.55 | 3.44 | 2.34 | 2.72 | 2.09 | 0.3 | 1.78 |
| 240690 | 'St18' | 0.06 | 0.12 | 0.01 | 0.01 | 0.84 | 1.3 | 0.71 | 0 | 0.01 | 0.57 |
| 240697 | 'Mcmdc2' | 8.71 | 5.79 | 7.38 | 11 | 9.59 | 7.94 | 7.13 | 7.08 | 11.36 | 7.44 |
| 24070 | 'Mpdu1' | 34.98 | 43.51 | 62 | 62.3 | 51.8 | 51.75 | 44.7 | 65.74 | 46.54 | 45.47 |
| 24071 | 'Synj2bp' | 15.22 | 17.14 | 14.3 | 14.8 | 16.7 | 11.99 | 14.5 | 15.45 | 9.27 | 13.41 |
| 240725 | 'Sulf1' | 11.59 | 4.2 | 12.9 | 5.86 | 9.07 | 1.17 | 18.5 | 3.19 | 24.2 | 22.48 |
| 240726 | 'Slco5a1' | 0 | 0.29 | 0.01 | 1.24 | 0.76 | 0 | 0.88 | 0.28 | 0.01 | 0.02 |
| 24074 | 'Taf7' | 12.38 | 11.8 | 15.1 | 33.7 | 4.19 | 7.26 | 13.1 | 6.69 | 12.38 | 13.45 |
| 24075 | 'Taf10' | 8 | 4.43 | 24.9 | 9.79 | 7.15 | 4.45 | 6.51 | 0.06 | 5.93 | 1.26 |
| 240752 | 'Pik3c2b' | 0.77 | 1.9 | 0.36 | 2.91 | 1.9 | 0.33 | 0.1 | 0.54 | 0.68 | 1.72 |
| 240753 | 'Plekha6' | 4.33 | 4.32 | 5.31 | 1.29 | 3.76 | 3.9 | 5.79 | 3.9 | 3.96 | 4.5 |
| 240754 | 'Lax1' | 1.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 240756 | 'Klhl12' | 31.03 | 15.28 | 23.7 | 12.8 | 5.02 | 12.98 | 24 | 24.44 | 8.65 | 18.19 |
| 240776 | 'Kcnt2' | 0.03 | 0 | 2.19 | 1.47 | 3.47 | 2.24 | 0.28 | 2.11 | 5.01 | 7.02 |
| 240816 | 'Rgs11' | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24083 | 'Natd1' | 1.38 | 2.35 | 3.53 | 3.31 | 0.28 | 5.87 | 0 | 0.01 | 0 | 0.66 |
| 240832 | 'Tor1aip2' | 34.12 | 19.08 | 30.2 | 57.1 | 15.2 | 18.05 | 22.6 | 28.69 | 10.52 | 32.39 |
| 24084 | 'Tekt2' | 7.72 | 36.28 | 6.79 | 13.1 | 51.9 | 25.96 | 9.84 | 6.19 | 16.9 | 40.59 |
| 240843 | 'Brinp2' | 35.89 | 33.95 | 27.9 | 42.2 | 6.09 | 4.6 | 14.5 | 35.54 | 25.55 | 31.49 |
| 24086 | 'Tlk2' | 1.63 | 4.25 | 6.63 | 7.9 | 12.4 | 4.32 | 8.82 | 4.42 | 11.55 | 4.47 |
| 240869 | 'Zbtb37' | 0.58 | 0.84 | 3.73 | 0 | 1.57 | 4.04 | 2.76 | 1.47 | 0 | 0.32 |
| 24087 | 'Tll2' | 0.01 | 0.49 | 0 | 2.54 | 0.99 | 0.63 | 0 | 0 | 0.67 | 0 |
| 240879 | 'Mettl11b' | 0 | 0 | 0 | 0 | 0 | 0 | 1.08 | 0 | 0 | 0 |
| 24088 | 'Tlr2' | 0 | 0 | 0 | 0 | 0 | 2.98 | 0 | 0 | 0 | 1.92 |
| 240880 | 'Scyl3' | 3.14 | 1.44 | 5.13 | 3.59 | 0.42 | 0.79 | 5.95 | 2 | 1.84 | 0.02 |
| 240888 | 'Gpr161' | 0.24 | 0.67 | 0.01 | 0.02 | 0 | 0.01 | 0 | 0.47 | 1.45 | 0.08 |
| 240892 | 'Dusp27' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 240913 | 'Adamts4' | 1.41 | 5.68 | 0.12 | 0.02 | 1.23 | 0.27 | 3.23 | 0 | 0.01 | 0 |
| 240916 | 'Vsig8' | 0.37 | 0 | 1.8 | 0 | 0 | 0 | 0 | 0.03 | 0.07 | 1.24 |
| 240960 | 'Dnah14' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24099 | 'Tnfsf13b' | 1.83 | 0 | 1.48 | 0 | 2.31 | 3.71 | 0.07 | 3.07 | 2.31 | 0 |
| 24100 | 'Tpra1' | 67.48 | 76.38 | 47 | 29.5 | 68.5 | 40.34 | 71.6 | 68.2 | 68.69 | 99.56 |
| 24102 | 'Trex2' | 0 | 3.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24105 | 'Rbck1' | 62.34 | 63.74 | 84.8 | 51.8 | 53.2 | 79.1 | 126 | 87.12 | 40.29 | 110.45 |
| 241062 | 'Pgap1' | 2.63 | 3.12 | 4.77 | 3.68 | 1.66 | 1.64 | 4.54 | 1.9 | 0.82 | 4.66 |
| 241066 | 'Carf' | 5.21 | 2.87 | 3.85 | 2.28 | 2.61 | 1.27 | 0.14 | 1.98 | 4.28 | 1.61 |
| 241070 | 'Gpr1' | 2.58 | 8.97 | 6.01 | 10.1 | 1.64 | 9.54 | 0.03 | 0.02 | 0.77 | 0.14 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 241075 | 'Plek3m3' | 0.48 | 1.66 | 0.37 | 1.12 | 0.88 | 0.83 | 3.97 | 1.87 | 2.05 | 1.92 |
| 24109 | 'Ubl3' | 60.36 | 48.29 | 67.5 | 67 | 57.3 | 90.63 | 57.4 | 97.49 | 76.74 | 55.18 |
| 24110 | 'Usp18' | 0 | 2.67 | 2.81 | 31.6 | 2.88 | 0 | 6.6 | 0 | 0 | 0.02 |
| 241112 | 'Catip' | 0 | 2.77 | 0 | 0 | 0 | 0 | 0 | 0.72 | 0 | 0 |
| 241113 | 'Prkag3' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 241116 | 'Cfap65' | 0.4 | 3.14 | 0.01 | 0.01 | 0.75 | 0.02 | 0 | 1.71 | 3.05 | 0.81 |
| 241118 | 'Asic4' | 0.02 | 36.64 | 2.15 | 0 | 0 | 0.02 | 0.51 | 0 | 0.03 | 0 |
| 241134 | 'Nyap2' | 3.01 | 4.65 | 2.84 | 1.96 | 1.38 | 0.64 | 1.99 | 4.83 | 1.52 | 2.68 |
| 24115 | 'Best1' | 12.21 | 3.76 | 5.89 | 5.34 | 12.9 | 18.46 | 6.16 | 2.68 | 27.81 | 10.93 |
| 241158 | 'Ankmy1' | 0 | 0 | 0.18 | 0 | 0 | 2.78 | 0.09 | 0 | 0.07 | 2.34 |
| 241159 | 'Neu4' | 0 | 0 | 7.42 | 2.89 | 1.18 | 0 | 25.4 | 3.97 | 0 | 0 |
| 24116 | 'Nelfa' | 25.73 | 26.86 | 17.3 | 7.35 | 19.9 | 19.72 | 20.5 | 21.33 | 26.57 | 10.47 |
| 24117 | 'Wif1' | 0 | 3.42 | 0 | 0 | 0.02 | 1.32 | 0 | 3.19 | 7.25 | 0 |
| 241175 | 'Cntnap5b' | 1.5 | 0.04 | 0.02 | 0 | 1.3 | 1.12 | 1.49 | 2.47 | 0.23 | 1.76 |
| 241201 | 'Cdh7' | 2.66 | 6.34 | 4.92 | 0.02 | 1.25 | 0.55 | 0.38 | 7.05 | 2.95 | 4 |
| 241226 | 'Itga8' | 0 | 1.21 | 0.55 | 0 | 0 | 0.01 | 0.53 | 0 | 1.19 | 0.89 |
| 241230 | 'St8sia6' | 0 | 0 | 1.54 | 0.01 | 0.26 | 0 | 0 | 4.1 | 0.4 | 0.01 |
| 241263 | 'Gpr158' | 1.98 | 3.92 | 10.4 | 3.45 | 9.32 | 2.22 | 7.26 | 2.82 | 5.51 | 4.57 |
| 24127 | 'Xrn1' | 2.94 | 1.16 | 2.56 | 10.3 | 2.15 | 5.41 | 3.58 | 2.65 | 3.54 | 1.62 |
| 241274 | 'Pnpla7' | 0.43 | 2.53 | 0.07 | 5.39 | 0.59 | 3.06 | 3.93 | 0.23 | 0 | 1.25 |
| 24128 | 'Xrn2' | 15.79 | 11 | 22.8 | 27.8 | 12.7 | 13.23 | 9.94 | 15.97 | 17.14 | 18.06 |
| 241289 | 'Ppp1r26' | 3.46 | 2.89 | 3.84 | 4.48 | 1.89 | 0.05 | 1.11 | 1.49 | 2.29 | 0.96 |
| 241296 | 'Lrrc8a' | 32.48 | 23.8 | 30.5 | 28.8 | 41.7 | 35.01 | 30.2 | 56.07 | 76.97 | 37.03 |
| 241303 | 'Fam78a' | 0 | 0.02 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 241308 | 'Ralgps1' | 2.02 | 3.3 | 3.52 | 10.7 | 2.08 | 1.95 | 8.53 | 2.1 | 2.24 | 4.48 |
| 24131 | 'Ldb3' | 6.7 | 4.69 | 0.95 | 0.21 | 11.9 | 0.23 | 0.19 | 5.57 | 0.16 | 5.35 |
| 241311 | 'Zbtb34' | 1.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0.73 | 0 | 0.25 |
| 24132 | 'Zfp53' | 10.95 | 6.59 | 5.4 | 0.84 | 5.48 | 3.34 | 4.86 | 4.41 | 2.16 | 10.03 |
| 241322 | 'Zbtb6' | 1.86 | 0.25 | 0.47 | 3.7 | 0.07 | 0.23 | 0.26 | 0.75 | 0.02 | 1.19 |
| 241324 | 'Crb2' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0.89 |
| 241327 | 'Olfml2a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.94 | 0 |
| 24135 | 'Zfp68' | 6.64 | 7.06 | 12.7 | 5.68 | 5.9 | 7.72 | 10.9 | 14.82 | 9.52 | 13.44 |
| 24136 | 'Zeb2' | 0.64 | 0.01 | 0.02 | 0 | 0.77 | 1.89 | 3.55 | 0.14 | 1.88 | 0.24 |
| 241431 | 'Xirp2' | 0.01 | 0 | 0.04 | 0 | 0 | 0.01 | 0.02 | 0 | 0.01 | 0.01 |
| 241447 | 'Cers6' | 3.32 | 3.43 | 2.82 | 3.69 | 3.43 | 0.02 | 2.77 | 3.13 | 2.44 | 4.09 |
| 241489 | 'Pde11a' | 0 | 0.36 | 4.36 | 0.01 | 3.96 | 0.27 | 0.3 | 1.29 | 0.01 | 0.93 |
| 241490 | 'Rbm45' | 2.7 | 2.29 | 0.99 | 1.02 | 3.67 | 0.31 | 0.98 | 1.67 | 1.88 | 0.59 |
| 241494 | 'Zfp385b' | 1.24 | 9.73 | 8.63 | 9.07 | 16.3 | 1.82 | 10.3 | 16.52 | 1.67 | 12.73 |
| 241514 | 'Zfp804a' | 1.9 | 3.74 | 0.68 | 3.95 | 3.55 | 1.55 | 2.28 | 1.21 | 1.49 | 1.07 |
| 241516 | 'Fsip2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 241520 | 'Fam171b' | 54.99 | 96.78 | 57.9 | 41 | 29.9 | 39.32 | 60.5 | 55.29 | 58.98 | 51.66 |
| 241525 | 'Ypel4' | 32.96 | 25.96 | 45.6 | 6.19 | 26.6 | 19.89 | 32.9 | 26.88 | 50.15 | 58.71 |
| 241528 | 'Lrrc55' | 10.61 | 1.19 | 8.82 | 3.38 | 4.39 | 0.15 | 2.34 | 4.2 | 5.04 | 3.58 |
| 241547 | 'Harbi1' | 4.95 | 11.06 | 6.17 | 0 | 3.35 | 0.77 | 1.04 | 6.81 | 6.11 | 5.37 |
| 241556 | 'Tspan18' | 5.1 | 3.18 | 7.38 | 0 | 3.62 | 0.41 | 0.22 | 5.76 | 0 | 7.2 |
| 241568 | 'Lrrc4c' | 23.8 | 21.35 | 31.9 | 23.2 | 37.4 | 32.51 | 27.1 | 32.94 | 44.94 | 24.03 |
| 241576 | 'Ldlrad3' | 0 | 0.29 | 1.59 | 0.06 | 0 | 0.13 | 3.02 | 1.47 | 0.33 | 0.08 |
| 241589 | 'D430041D05Rik' | 2.13 | 0.99 | 2.19 | 2.64 | 1.73 | 3.06 | 2.34 | 3.33 | 2.38 | 2.31 |
| 241612 | 'Slc5a12' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 241624 | 'Exd1' | 0.01 | 0.27 | 1.02 | 0 | 1.33 | 0.06 | 0.02 | 0.02 | 0.01 | 0 |
| 241627 | 'Wdr76' | 0.94 | 0.15 | 0.45 | 0 | 1.01 | 0.12 | 1.25 | 0.1 | 0 | 0.09 |
| 241633 | 'Atp8b4' | 0 | 0.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 241636 | 'Tgm6' | 0 | 0 | 0.45 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 |
| 241638 | 'Lzts3' | 1.63 | 1.78 | 10 | 2.14 | 2.64 | 1.94 | 5.17 | 3.12 | 9.1 | 3.66 |
| 241639 | 'Fermt1' | 0 | 0 | 0 | 0 | 0 | 0.29 | 0 | 1.18 | 0 | 0 |
| 241656 | 'Pak7' | 8.92 | 9.74 | 3.91 | 15.7 | 2.56 | 0.04 | 3.08 | 4 | 4.38 | 5.11 |
| 241688 | 'Dzank1' | 18.02 | 11.41 | 40.1 | 16.7 | 12.1 | 14.22 | 27.8 | 16.62 | 16.07 | 18.08 |
| 241694 | 'Ralgapa2' | 1.95 | 1.73 | 2.56 | 5.99 | 0.73 | 3.4 | 0.04 | 0.78 | 2.43 | 0.78 |

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|--------|---------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 241727 | 'Snph' | 9.05 | 13.78 | 30.9 | 3.69 | 3.61 | 10.46 | 12.7 | 16.5 | 3.29 | 11.45 |
| 241732 | 'Tspyl3' | 40.85 | 37.99 | 37.2 | 7.72 | 24 | 37.98 | 21.5 | 57.44 | 42.22 | 28.28 |
| 241764 | 'L3mbtl1' | 0.32 | 2.26 | 9.2 | 0.71 | 1.24 | 2.28 | 2.32 | 4.44 | 0.45 | 3.4 |
| 241770 | 'Rims4' | 1.02 | 2.16 | 1.4 | 0.01 | 3.04 | 2.75 | 5.12 | 0.61 | 1.82 | 1.98 |
| 241794 | 'Kcng1' | 0 | 0 | 6.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0.83 |
| 241846 | 'Lsm14b' | 4.6 | 3.73 | 3.8 | 3.55 | 6.03 | 1.14 | 2.18 | 0.96 | 7.22 | 2.28 |
| 241850 | 'Abhd16b' | 0.02 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 241915 | 'Phc3' | 1.3 | 1.65 | 4.85 | 8.18 | 1.85 | 4.41 | 4.95 | 0.95 | 2.31 | 1.19 |
| 241919 | 'Slc7a14' | 11.97 | 8.55 | 12 | 13.6 | 7.31 | 7.35 | 6.81 | 9.99 | 17.08 | 9.43 |
| 241943 | 'Ccdc144b' | 0 | 0.25 | 0 | 0 | 0.06 | 0.05 | 0 | 0.08 | 0 | 0.05 |
| 241944 | 'D3Erttd254e' | 2.76 | 3.74 | 3.69 | 6.77 | 8.08 | 1.15 | 1.89 | 3.4 | 1.42 | 6.95 |
| 241950 | 'Bbs12' | 2.11 | 0.92 | 3.41 | 0 | 3.01 | 0 | 0.78 | 0.31 | 3.95 | 6.27 |
| 241989 | 'Pabpc4l' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.44 | 0 | 0 |
| 242022 | 'Frem2' | 0.41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 242037 | 'Ankub1' | 1.99 | 0 | 0 | 0 | 0 | 0.39 | 0 | 0 | 0 | 0 |
| 242050 | 'Igsf10' | 0.01 | 0.55 | 0.52 | 0 | 1.77 | 0.08 | 0.01 | 0.17 | 1.62 | 0.01 |
| 242083 | 'Ppm1l' | 16.02 | 7.89 | 11.6 | 18.9 | 16.2 | 6.19 | 31.6 | 13.32 | 11.88 | 7.93 |
| 242109 | 'Zfp697' | 1.61 | 2.51 | 1.94 | 1.31 | 1.74 | 2.53 | 0.54 | 0.25 | 0.3 | 0.37 |
| 242125 | 'Mab2113' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.85 | 0 |
| 242126 | 'Slc22a15' | 0.46 | 0.22 | 0.01 | 0 | 0 | 0.04 | 0.01 | 0 | 0.21 | 0.52 |
| 242253 | 'Wdr63' | 0 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 |
| 242259 | 'Slc44a5' | 0.99 | 1.15 | 1.66 | 1.99 | 2.04 | 0 | 0.77 | 0.91 | 0.38 | 0 |
| 242274 | 'Lrrc7' | 3.66 | 0.79 | 2.56 | 1.15 | 2.98 | 2.16 | 1.86 | 2.08 | 1.45 | 0.86 |
| 242291 | 'Impad1' | 3.43 | 4.33 | 4.04 | 5.23 | 8.42 | 2.13 | 6.84 | 3.42 | 8.87 | 3.19 |
| 242297 | 'Fam110b' | 17.2 | 17.96 | 50.3 | 10 | 2.29 | 20.65 | 26.4 | 25.75 | 32.53 | 20.27 |
| 242362 | 'Manea' | 3.42 | 2.23 | 3.81 | 6.14 | 3.99 | 2.81 | 4.34 | 3.23 | 2.24 | 0.87 |
| 242377 | 'Pm20d2' | 0.56 | 0.91 | 1.15 | 2.35 | 0.43 | 0.02 | 0.99 | 0.24 | 1.44 | 0.25 |
| 242384 | 'Lingo2' | 17.09 | 4.76 | 20.8 | 11 | 4.68 | 5.66 | 22.2 | 12.65 | 12.81 | 8.69 |
| 242406 | 'Rgp1' | 2.87 | 1.63 | 8.7 | 1.41 | 4.02 | 3.3 | 1.76 | 0.02 | 0.11 | 4.51 |
| 242408 | 'Fam221b' | 0 | 0.6 | 0 | 0.03 | 0 | 1.72 | 0 | 0.07 | 2.03 | 1.58 |
| 242409 | 'Tmem8b' | 4.72 | 3.53 | 4.28 | 1.68 | 4.61 | 2.82 | 4.45 | 5.84 | 12.57 | 4.79 |
| 242418 | 'Dcaf10' | 3.11 | 2.72 | 4.14 | 18.6 | 2.73 | 2.48 | 2.02 | 1.27 | 3.34 | 1.85 |
| 242425 | 'Gabbr2' | 5.18 | 4.9 | 2.62 | 4.79 | 9.53 | 9.69 | 3.05 | 3.13 | 0.39 | 3.15 |
| 242443 | 'Grin3a' | 2.05 | 5.02 | 3.95 | 2.35 | 7.16 | 0.84 | 9.49 | 3.5 | 5.56 | 6.1 |
| 242466 | 'Zfp462' | 1.41 | 1.98 | 3.71 | 3.52 | 2.68 | 0.37 | 1.12 | 4.09 | 2.01 | 1.16 |
| 242474 | 'Tmem245' | 1.66 | 2.81 | 0.6 | 2.5 | 1.47 | 0.39 | 0.85 | 1.72 | 0.67 | 0.97 |
| 242481 | 'Palm2' | 3.87 | 3.29 | 3.05 | 0.64 | 2.76 | 1.38 | 0.45 | 1.38 | 0.19 | 1.9 |
| 242505 | 'Rasef' | 0 | 0 | 0 | 0 | 0 | 0.6 | 0.88 | 0.01 | 0.31 | 0.46 |
| 242506 | 'Frmtd3' | 5.39 | 6.99 | 13.7 | 0.91 | 5.98 | 16.68 | 11.3 | 2.54 | 9.29 | 1.06 |
| 242509 | 'Bnc2' | 0 | 0 | 0 | 2.12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 242521 | 'Klhl9' | 20.35 | 20.68 | 41.2 | 33 | 24.5 | 13.33 | 18.5 | 22.48 | 21.96 | 16.36 |
| 242523 | 'Dmrta1' | 0 | 1.28 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 242546 | 'Cyp2j12' | 0 | 1.02 | 0 | 0 | 5.5 | 4.74 | 0 | 0 | 0 | 0 |
| 242553 | 'Kank4' | 0.01 | 1.22 | 0.23 | 0 | 0.85 | 0 | 4.3 | 0 | 0.32 | 0.1 |
| 242557 | 'Atg4c' | 6.95 | 16.51 | 13.2 | 15.6 | 6.91 | 8.68 | 3.12 | 11.35 | 16.93 | 15.43 |
| 242570 | 'Raver2' | 0.6 | 1.05 | 0 | 0 | 0 | 0.08 | 0.02 | 0 | 0 | 0.01 |
| 242584 | 'Wdr78' | 3.76 | 5.42 | 3.94 | 0 | 7.53 | 11.15 | 8.76 | 4.9 | 7.04 | 6.05 |
| 242585 | 'Slc35d1' | 0.02 | 2.65 | 0.62 | 5.44 | 2.5 | 3.07 | 1.06 | 0.88 | 1.19 | 0.03 |
| 242594 | 'Fyb2' | 0.75 | 0.45 | 0 | 0 | 0 | 0 | 0.07 | 0.13 | 0 | 0.05 |
| 242602 | 'Lexm' | 0 | 0.19 | 0 | 0 | 0 | 0 | 0 | 1.06 | 0 | 0.07 |
| 242603 | 'Cdcp2' | 0 | 0 | 0 | 0 | 0 | 0.19 | 1.31 | 0 | 0 | 0.39 |
| 242607 | 'Slc1a7' | 0 | 0 | 0.03 | 0.03 | 0.08 | 0 | 0 | 0 | 0 | 0 |
| 242620 | 'Dmrta2' | 0.32 | 0 | 0 | 0 | 0 | 0.49 | 0 | 0 | 0 | 0.11 |
| 242642 | 'Hpd1' | 1.22 | 0 | 0.61 | 0 | 0 | 0 | 0.03 | 0 | 0 | 2.04 |
| 242646 | 'Tctex1d4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.89 | 0 | 0 |
| 242653 | 'Cldn19' | 0 | 0.01 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 242662 | 'Rims3' | 17.54 | 8.05 | 17.9 | 11.5 | 6.8 | 7.39 | 18.6 | 10.25 | 12.79 | 9.37 |
| 242667 | 'Dlgap3' | 2.66 | 1.2 | 4.64 | 7.09 | 5.69 | 2.45 | 5.54 | 1.32 | 1.77 | 0.72 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 242669 | 'Azin2' | 1.12 | 5.39 | 2.27 | 9.63 | 0.18 | 13.15 | 10.5 | 6.11 | 14.25 | 1.12 |
| 242681 | 'Rab42' | 4.14 | 1.68 | 3.77 | 1 | 7.44 | 7.13 | 8.47 | 5.15 | 5.96 | 0.13 |
| 242687 | 'Wasf2' | 1.71 | 3.37 | 2.67 | 2 | 4.34 | 7.73 | 0 | 1.86 | 0.69 | 4.37 |
| 242691 | 'Gpatch3' | 1.67 | 0 | 3.73 | 0.97 | 0 | 0 | 0 | 2.99 | 0 | 0 |
| 242700 | 'Ifnlr1' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 242702 | 'Myom3' | 0.76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 242705 | 'E2f2' | 0 | 0 | 0 | 0 | 0 | 0.13 | 0.01 | 0 | 0 | 1.64 |
| 242707 | 'Lactbl1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.15 |
| 242721 | 'Klhdc7a' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.14 | 0 | 0.04 | 0 |
| 242726 | 'Padi6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.79 | 0 |
| 242735 | 'Lrrc38' | 1.3 | 5.55 | 1.78 | 4.21 | 0.99 | 1.49 | 1.66 | 4.37 | 2.02 | 0.83 |
| 242736 | 'Pramef8' | 9.11 | 0.33 | 4.45 | 9.22 | 0.64 | 0 | 6.5 | 2.75 | 6.36 | 4.39 |
| 242747 | 'Zfp933' | 2.38 | 1.08 | 1 | 0.04 | 2.71 | 0.02 | 0.07 | 3.06 | 1.55 | 0.02 |
| 242748 | 'Disp3' | 10.54 | 6.89 | 14.9 | 5.28 | 3.47 | 0.96 | 7.34 | 8.7 | 6.64 | 3.59 |
| 242773 | 'Slc45a1' | 27.78 | 23 | 33.3 | 8.84 | 20.6 | 27.13 | 25.1 | 29.47 | 49.98 | 15.38 |
| 242785 | 'Klhl21' | 1.37 | 2.12 | 4.86 | 3.27 | 1.47 | 0.53 | 2.27 | 1.61 | 0.11 | 3.01 |
| 242800 | 'Ttc34' | 0.04 | 1.95 | 1.75 | 0.85 | 0.14 | 0 | 1.27 | 2.22 | 0.03 | 0.61 |
| 242819 | 'Rundc3b' | 3.6 | 3.77 | 2.77 | 4.78 | 3.04 | 3.35 | 2.61 | 5.18 | 5.84 | 5.65 |
| 242838 | 'Lrrd1' | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0.63 | 1.67 | 0.04 |
| 242860 | 'Rsb1l' | 1.03 | 0.56 | 2.07 | 4.63 | 0.92 | 0.52 | 0.19 | 0.21 | 0.09 | 0.29 |
| 242864 | 'Napepld' | 3.27 | 0.89 | 0.01 | 1.07 | 2.78 | 0.37 | 4.16 | 2.26 | 2.03 | 2.36 |
| 242891 | 'Cct8l1' | 0 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 |
| 242894 | 'Actr3b' | 45.44 | 54.01 | 49.4 | 52 | 42.1 | 32.27 | 30.5 | 40.13 | 13.6 | 27.37 |
| 242915 | 'Garem2' | 0.41 | 1.15 | 3.29 | 0 | 1.31 | 0 | 2.73 | 0 | 0.01 | 0 |
| 242960 | 'Fbx15' | 47.84 | 45.92 | 26.6 | 60.2 | 38.2 | 29.04 | 69.9 | 30.06 | 49.13 | 61.35 |
| 243025 | 'Tmem156' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 |
| 243043 | 'Kctd8' | 4.58 | 6.71 | 11.2 | 3.32 | 7.74 | 2.06 | 3.8 | 4.38 | 9.08 | 0.01 |
| 243078 | 'Tecr1' | 0.02 | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 243168 | 'Hsd17b13' | 0 | 0 | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 |
| 243197 | 'Mfsd7a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 243219 | '2900026A02Rik' | 2.91 | 4.48 | 3.28 | 3.53 | 1.26 | 2.34 | 5.23 | 1.2 | 0.01 | 1.15 |
| 243272 | 'Sbno1' | 10.35 | 9.35 | 14 | 7.15 | 10.7 | 8.12 | 9.49 | 7.75 | 13.61 | 12.18 |
| 243274 | 'Tmem132d' | 0 | 1.44 | 0 | 6.91 | 0.43 | 0 | 0.02 | 0 | 1.76 | 0.02 |
| 243277 | 'Adgrd1' | 0.86 | 0 | 2.7 | 0 | 0 | 0 | 0.02 | 0.16 | 0 | 0 |
| 243300 | 'Nyap1' | 5.08 | 6.07 | 3.37 | 0.57 | 4.54 | 4.36 | 4.7 | 1.99 | 1.45 | 7.77 |
| 243308 | 'A430033K04Rik' | 9 | 3.89 | 16.4 | 4.82 | 5.68 | 7.3 | 3.31 | 7.7 | 5.86 | 8.95 |
| 243312 | 'Elf1' | 0.81 | 7.35 | 3.24 | 3.51 | 7.66 | 1.6 | 2.19 | 0.08 | 0.01 | 1.17 |
| 243328 | 'Slc29a4' | 4.44 | 0.5 | 12.8 | 12.1 | 0.02 | 4.12 | 5.2 | 1.75 | 3.38 | 2.4 |
| 243339 | 'Tmem130' | 1239 | 1349 | 1242 | 939 | 705 | 1176 | 904 | 1146 | 1197 | 1408.06 |
| 243362 | 'Stard13' | 0 | 0.08 | 1.06 | 0 | 0.06 | 0.18 | 3.58 | 0 | 0 | 1 |
| 243369 | 'Sspo' | 0.28 | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 |
| 243371 | 'Lrrc61' | 25.85 | 11.96 | 27.8 | 16.1 | 19.7 | 12.11 | 13.6 | 25.13 | 17.13 | 27.08 |
| 243372 | 'Zfp775' | 6.61 | 5.42 | 8.87 | 0 | 2.21 | 4.06 | 0 | 3.46 | 9.1 | 3.81 |
| 243374 | 'Gimap8' | 0.5 | 0.27 | 0.99 | 0.48 | 0.4 | 0.34 | 0.05 | 0.09 | 0.17 | 0.08 |
| 243382 | 'Ppm1k' | 12.09 | 5.89 | 10.4 | 3.58 | 9.98 | 14.64 | 9 | 7.27 | 8.21 | 8.51 |
| 243385 | 'Gprn3' | 7.04 | 4.8 | 8.47 | 1.91 | 6.63 | 0.13 | 9.42 | 1.67 | 3.95 | 0 |
| 243407 | 'C130060K24Rik' | 2.01 | 0.84 | 0 | 0 | 0.76 | 0 | 1.44 | 0 | 0 | 0 |
| 243499 | 'Lrrtm4' | 9.27 | 6.05 | 10.3 | 0.81 | 14 | 8.22 | 9.32 | 11.83 | 7.05 | 8.47 |
| 243510 | 'Ccdc142' | 2.09 | 0.78 | 3.38 | 0 | 0.12 | 4.09 | 4.34 | 3.14 | 3.36 | 3.42 |
| 243529 | 'H1fx' | 0.43 | 0.14 | 0.09 | 0.44 | 0.14 | 0.04 | 0.39 | 0.12 | 0 | 0.37 |
| 243537 | 'Uroc1' | 0.07 | 1.57 | 0 | 0.14 | 0 | 0 | 0 | 0.09 | 0 | 0 |
| 243538 | 'Cfap100' | 1.14 | 4.07 | 0.11 | 7.6 | 0.03 | 2.87 | 0.31 | 0.14 | 0 | 0 |
| 243547 | 'Grip2' | 1.83 | 2.05 | 0.91 | 2.15 | 2.04 | 1.06 | 1.7 | 2.93 | 2.67 | 1.59 |
| 243548 | 'Prickle2' | 6.15 | 4.41 | 5.64 | 8.43 | 5.2 | 5.91 | 7.16 | 5.43 | 3.83 | 3.86 |
| 243574 | 'Kbtbd8' | 1.42 | 0 | 1.78 | 0.01 | 0 | 0.01 | 0 | 0.98 | 1.53 | 3.15 |
| 243616 | 'Slc6a11' | 23.04 | 16.25 | 8.65 | 8.24 | 12.3 | 10.35 | 9.37 | 8.51 | 5.2 | 6.37 |
| 243621 | 'Iqsec3' | 3.42 | 7.22 | 4.73 | 8.67 | 5.28 | 3.82 | 0.28 | 4.22 | 2.83 | 0.56 |
| 243634 | 'Ano2' | 0 | 0 | 0 | 0 | 1.26 | 0 | 0 | 0.76 | 0 | 0 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 243653 | 'Clec1a' | 0 | 0 | 2.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 243659 | 'Styk1' | 4.07 | 0 | 0 | 0 | 0 | 3.16 | 0 | 1.24 | 10.96 | 5.76 |
| 243725 | 'Ppp1r9a' | 12.78 | 11.1 | 9.12 | 9.83 | 8.59 | 11.34 | 17 | 12.54 | 19.63 | 19.55 |
| 243743 | 'Plxna4' | 4.76 | 2.83 | 11.1 | 9.91 | 7.43 | 0.54 | 3.1 | 4.85 | 0.91 | 3.24 |
| 243753 | 'Slc23a4' | 0.02 | 0.14 | 4.87 | 0 | 2.61 | 0 | 0.02 | 0 | 0.57 | 0 |
| 243755 | 'Slc13a4' | 0 | 1.32 | 0 | 0 | 2.39 | 0 | 0.01 | 0 | 0 | 0 |
| 243764 | 'Chrm2' | 0.26 | 1.25 | 2.17 | 0.01 | 3.79 | 0 | 25.9 | 3.09 | 2.97 | 0.89 |
| 243771 | 'Parp12' | 1.16 | 0.18 | 1.3 | 6.9 | 1.78 | 0.11 | 4.68 | 0 | 0 | 1.24 |
| 243780 | 'E330009J07Rik' | 0.9 | 0.37 | 1.75 | 0.33 | 2.19 | 0.11 | 1.37 | 0.24 | 1.63 | 0.93 |
| 243813 | 'Leng9' | 3.39 | 11 | 4.3 | 8.84 | 11.2 | 4.69 | 26 | 12.67 | 7.24 | 6.31 |
| 243816 | 'Gp6' | 0.04 | 0.02 | 0.41 | 0.07 | 0.06 | 0.11 | 0.02 | 0.02 | 0.03 | 0.02 |
| 243819 | 'Ppp6r1' | 1.41 | 0.39 | 1.31 | 0.65 | 0.5 | 4.89 | 0.14 | 0.07 | 0.09 | 1.58 |
| 243833 | 'Zfp128' | 0 | 1.45 | 0.01 | 0.01 | 4.38 | 0 | 4.13 | 2.4 | 3.47 | 1.83 |
| 243834 | 'Zfp324' | 0.86 | 0 | 0.09 | 0.04 | 4.46 | 0.09 | 0.36 | 0 | 2.33 | 4.47 |
| 243842 | 'Bicra' | 0.12 | 0.45 | 1.19 | 0 | 1.09 | 0.01 | 0.94 | 0.97 | 0.77 | 0.09 |
| 243846 | 'Ccdc9' | 0.8 | 0.61 | 0.69 | 0 | 4.34 | 4.65 | 0.07 | 1.68 | 6.78 | 1.41 |
| 243853 | 'Fkrp' | 21.28 | 33.91 | 18.2 | 12.9 | 5.54 | 13.96 | 26.3 | 19.15 | 14.6 | 29.01 |
| 243864 | 'Mill2' | 0.03 | 0.31 | 0.06 | 0.35 | 5.78 | 6.21 | 0.48 | 1.75 | 5.11 | 10.68 |
| 243867 | 'Fbxo46' | 8.27 | 3.57 | 5.26 | 0.34 | 1.4 | 0.58 | 3.52 | 2.4 | 2.22 | 6.59 |
| 243874 | 'Nlrp9b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 243880 | 'Nlrp4a' | 0 | 0 | 0 | 0 | 0.01 | 0.02 | 0 | 0 | 0 | 0 |
| 243897 | 'Ggn' | 0 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0 | 0 | 0.48 |
| 243905 | 'Zfp568' | 0.4 | 0 | 0.01 | 0.06 | 0 | 0.07 | 0 | 0 | 2.7 | 0.64 |
| 243906 | 'Zfp14' | 8.77 | 2.65 | 4.39 | 5.81 | 7.85 | 8.8 | 3.9 | 8.25 | 7.37 | 7.66 |
| 243910 | 'Nfkbid' | 2.09 | 4.33 | 1.41 | 0 | 6.54 | 2.22 | 0.03 | 3.3 | 0 | 0 |
| 243911 | 'Kirrel2' | 0 | 1.57 | 0 | 12.7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 243912 | 'Hspb6' | 10.11 | 24.12 | 19.7 | 32 | 0.15 | 26.82 | 20.3 | 24.7 | 24.27 | 14.94 |
| 243914 | 'Lgi4' | 1.33 | 0 | 3.17 | 0 | 0.15 | 2.05 | 3.57 | 0.61 | 1.69 | 0 |
| 243923 | 'Rgs9bp' | 0 | 0 | 0.01 | 0 | 0 | 1.5 | 0 | 0 | 0 | 1.13 |
| 243931 | 'Tshz3' | 0.09 | 0.14 | 0.32 | 0.03 | 2.64 | 0 | 0 | 0 | 0 | 0.08 |
| 243937 | 'Zfp536' | 0 | 1.41 | 2.85 | 0 | 1.7 | 0.63 | 0 | 0.55 | 0 | 1.14 |
| 243961 | 'Shank1' | 4.42 | 4.23 | 4.47 | 3.77 | 8.47 | 3.58 | 2.07 | 3.16 | 4.9 | 2.62 |
| 243963 | 'Zfp473' | 0.03 | 0 | 0 | 0.73 | 0.13 | 0 | 0.01 | 0.01 | 0 | 0.19 |
| 243967 | 'Ntn5' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 243983 | 'Zdhhc13' | 9.36 | 5.88 | 7.09 | 22.5 | 8.95 | 19 | 5.81 | 15.82 | 4.11 | 13.14 |
| 244058 | 'Rgma' | 0.13 | 0.47 | 0.75 | 0.29 | 0.07 | 0.11 | 0.55 | 0.05 | 1.83 | 0.01 |
| 244059 | 'Chd2' | 4.62 | 6.43 | 3.38 | 9.59 | 5.72 | 8.43 | 0.91 | 4.5 | 6.71 | 7.9 |
| 244091 | 'Fsd2' | 1.79 | 0 | 0.05 | 0 | 0.02 | 0.02 | 0 | 0.01 | 0.01 | 0.03 |
| 244141 | 'Nars2' | 13.9 | 22.6 | 14.9 | 1.11 | 8.91 | 13.04 | 29.9 | 15.64 | 12.85 | 14.42 |
| 244144 | 'Usp35' | 1.45 | 2 | 7.71 | 0.03 | 5.29 | 0.9 | 0 | 2.64 | 1.88 | 0.98 |
| 244152 | 'Tsku' | 0 | 0.02 | 0.02 | 0 | 0.32 | 0 | 0 | 0.06 | 0 | 0 |
| 244198 | 'Olfml1' | 8.45 | 1.69 | 0 | 0 | 5.81 | 12.97 | 0.03 | 0 | 3.14 | 0 |
| 244202 | 'Nlrp10' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 244216 | 'Zfp771' | 34.29 | 34.32 | 24.1 | 16.8 | 25.1 | 21.94 | 56.4 | 26.78 | 37.05 | 16.03 |
| 244219 | 'Zfp668' | 6.02 | 5.61 | 7.89 | 1.02 | 4.85 | 1.32 | 3.22 | 5.83 | 6.05 | 5.85 |
| 244233 | 'Cd16311' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.56 | 0 |
| 244237 | 'Tnfrsf26' | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 |
| 244238 | 'Mrgpre' | 16.95 | 8.58 | 27.2 | 12.8 | 11.7 | 8.76 | 26.7 | 18.72 | 27.23 | 24.16 |
| 244281 | 'Myo16' | 0.25 | 0.78 | 0.67 | 0.73 | 0.36 | 0.87 | 1.22 | 0.15 | 0.47 | 1.39 |
| 244310 | 'Dlgap2' | 8.48 | 1.91 | 9.26 | 1.89 | 1.7 | 3.55 | 6.31 | 5.75 | 11.52 | 4.47 |
| 244329 | 'McpH1' | 6.82 | 2.76 | 2.32 | 1.06 | 3.24 | 6.86 | 3.86 | 1.08 | 4.14 | 7.93 |
| 244349 | 'Kat6a' | 1.88 | 2.4 | 2.55 | 1.73 | 0.66 | 1.83 | 0.5 | 1.28 | 2.76 | 2.84 |
| 244373 | 'Erlin2' | 26.47 | 20.75 | 29.6 | 24.8 | 33.3 | 13.39 | 17 | 25.48 | 55.95 | 35.53 |
| 244416 | 'Ppp1r3b' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 244418 | 'Prag1' | 3.64 | 7.25 | 2.7 | 0.07 | 0.64 | 0.07 | 2.07 | 1.23 | 0.01 | 1.32 |
| 244421 | 'Lonrf1' | 0.99 | 2.47 | 2.34 | 5.58 | 0 | 0 | 1.43 | 1.08 | 0 | 0 |
| 244431 | 'SgcZ' | 1.99 | 3.21 | 0 | 3.79 | 1.83 | 1.75 | 2.41 | 8.77 | 0.86 | 3.43 |
| 244484 | 'Wdr17' | 6.7 | 6.65 | 6.12 | 11.2 | 9.96 | 5.53 | 2.51 | 8.23 | 8.68 | 3.44 |

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|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 244495 | 'Sgo2b' | 0 | 0 | 0 | 0 | 0.43 | 0 | 0 | 0 | 0 | 0 |
| 244548 | 'Elmod2' | 2.02 | 0.9 | 4.21 | 3.63 | 0.98 | 3.72 | 7.22 | 3.09 | 9.99 | 7.69 |
| 244550 | 'Podnl1' | 0.19 | 0 | 1.93 | 1.4 | 0 | 0.85 | 0 | 0.02 | 0 | 0 |
| 244551 | 'Nanos3' | 0.04 | 0.74 | 1.46 | 5.84 | 1.72 | 0 | 0.87 | 0.59 | 1.86 | 0 |
| 244556 | 'Zfp791' | 3.87 | 4.55 | 4.19 | 0.07 | 3.74 | 0.72 | 0.09 | 0.04 | 6.52 | 2.69 |
| 244562 | 'Abcc12' | 0 | 0 | 0 | 0 | 0 | 0.12 | 0 | 0 | 0 | 1.14 |
| 244579 | 'Tox3' | 0.5 | 0 | 0 | 0 | 1.49 | 1.43 | 0.7 | 0.39 | 0 | 0 |
| 244585 | 'Rpgr11' | 7.04 | 3.61 | 3 | 0.71 | 9.13 | 9.91 | 4.36 | 1.74 | 5.93 | 8.42 |
| 244595 | 'Ces1a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 244608 | 'Ccdc113' | 6.3 | 16 | 7.47 | 12.8 | 3.72 | 8.42 | 3.17 | 4.49 | 0.66 | 14.57 |
| 244631 | 'Pskh1' | 0 | 2.49 | 6.34 | 0 | 7.47 | 0 | 4.39 | 0.68 | 0 | 8.93 |
| 244646 | 'Pkd1l3' | 0.01 | 0.09 | 0.07 | 0.01 | 0 | 0 | 0 | 0.03 | 0.03 | 0 |
| 244650 | 'Phlpp2' | 2.47 | 2.09 | 2.21 | 4.67 | 3.88 | 5.32 | 3.16 | 2.45 | 1.07 | 3.76 |
| 244653 | 'Hydin' | 0 | 0.39 | 0.01 | 0 | 0.02 | 0.06 | 0 | 0 | 0 | 0.01 |
| 244654 | 'Mtss1l' | 5.59 | 8.57 | 9.62 | 1.98 | 11.8 | 6.97 | 10 | 5.49 | 2.91 | 8.2 |
| 244666 | 'Sprtn' | 0.07 | 0.97 | 9.35 | 0.94 | 0 | 0.22 | 0 | 0.7 | 4.09 | 2.05 |
| 244667 | 'Disc1' | 0.55 | 0.1 | 0.88 | 2.3 | 0 | 0.01 | 2.42 | 1.32 | 0.01 | 1.76 |
| 244668 | 'Sipa1l2' | 0 | 0 | 0.74 | 0 | 0.01 | 0 | 0 | 1 | 2.66 | 0.17 |
| 244672 | 'Cwf19l2' | 1.09 | 5.98 | 4.46 | 7 | 1.23 | 9.42 | 2.63 | 1.21 | 1.62 | 3.43 |
| 244682 | 'Cntn5' | 3.57 | 1.34 | 4.83 | 0.59 | 14.8 | 7.49 | 13.3 | 6.27 | 0 | 5.89 |
| 244694 | 'Kdm4d' | 0.05 | 1.17 | 0.39 | 8.81 | 3.55 | 0.4 | 0 | 7.04 | 2.88 | 0.02 |
| 244713 | 'Zfp317' | 9.96 | 5.09 | 7.47 | 5.01 | 4.64 | 2.24 | 5.37 | 10.59 | 8.23 | 6.91 |
| 244721 | 'Zfp846' | 9.49 | 4.62 | 9.01 | 0.88 | 5.92 | 2.89 | 10.4 | 7.36 | 5.55 | 9.81 |
| 244723 | 'Olfm2' | 80.25 | 118.9 | 66.3 | 92.3 | 108 | 37.46 | 73.2 | 96.24 | 26.94 | 37.34 |
| 244745 | 'Dpy19l1' | 3.39 | 6.73 | 15.7 | 16.6 | 11.2 | 7.77 | 11.2 | 5.99 | 3.76 | 1.79 |
| 244757 | 'Glb1l2' | 0.73 | 0.05 | 0.01 | 0 | 8.77 | 0 | 0 | 0 | 0 | 4.74 |
| 244810 | 'AW551984' | 195.3 | 232.6 | 125 | 119 | 84.5 | 97.4 | 193 | 133.9 | 133.2 | 209.95 |
| 244813 | 'Bsx' | 0 | 0 | 0 | 0 | 5.48 | 0 | 0 | 0 | 0 | 0 |
| 244853 | 'Nxpe4' | 2.2 | 0.59 | 4.3 | 0.3 | 0.15 | 0 | 0.02 | 0 | 0 | 1.63 |
| 244864 | 'Layn' | 0.73 | 1.27 | 1.26 | 1.44 | 2.72 | 0.94 | 4.23 | 0.41 | 4.57 | 0.63 |
| 244867 | 'Arhgap20' | 3.14 | 2.8 | 3.01 | 3.82 | 3.36 | 1.23 | 0.5 | 0.25 | 1.05 | 4.24 |
| 244871 | 'Zc3h12c' | 3.15 | 3.83 | 1.81 | 4.68 | 3.07 | 0.67 | 2.29 | 1.89 | 2.4 | 1.15 |
| 244879 | 'Npat' | 5.31 | 1.89 | 2.58 | 10.7 | 0.61 | 1.08 | 4.25 | 2.18 | 4.36 | 5.55 |
| 244882 | 'Tnfaip8l3' | 0 | 5.13 | 1.92 | 0 | 0 | 4.97 | 1.39 | 7.26 | 9.96 | 2.77 |
| 244885 | 'Sh2d7' | 0.28 | 0.37 | 0.04 | 0 | 0.05 | 0.44 | 0.33 | 0.19 | 0.17 | 0.06 |
| 244886 | 'Tmem266' | 7.99 | 7.38 | 3.62 | 14.1 | 3.38 | 0 | 3.77 | 6.12 | 0 | 0.04 |
| 244891 | 'Scaper' | 9.97 | 9.88 | 9.51 | 5.69 | 4.05 | 10.17 | 9.59 | 6.7 | 9.96 | 7.67 |
| 244895 | 'Peak1' | 0.04 | 0.02 | 0.16 | 0.9 | 0.35 | 0.25 | 0.24 | 0.75 | 1.13 | 0.32 |
| 244923 | 'Klhl31' | 0.01 | 0.01 | 0.02 | 0 | 0 | 0.02 | 0.33 | 0.01 | 0.02 | 0.11 |
| 244954 | 'Prss35' | 3.61 | 2.82 | 0.8 | 1.13 | 0.63 | 1.04 | 0.21 | 4.38 | 0.57 | 0.5 |
| 244958 | 'Mrap2' | 306.7 | 90.7 | 85.5 | 76.2 | 80.2 | 161.5 | 96.1 | 199.8 | 175.1 | 194.54 |
| 244962 | 'Snx14' | 24.99 | 24.76 | 25.5 | 22.6 | 17.9 | 18.58 | 38.6 | 19.01 | 38.5 | 28.59 |
| 245000 | 'Atr' | 0.13 | 0.92 | 0.15 | 0.16 | 0.02 | 0 | 0.11 | 1.55 | 1.35 | 1.91 |
| 245007 | 'Zbtb38' | 3.57 | 5.33 | 7.44 | 10.4 | 2.55 | 6.51 | 10.5 | 2.66 | 6.44 | 1.64 |
| 245020 | 'Slc35g2' | 91.98 | 84.94 | 64.8 | 0.55 | 76.4 | 138.7 | 101 | 82.3 | 134.2 | 113.82 |
| 245026 | 'Col6a6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.81 | 0.45 |
| 245038 | 'Dclk3' | 9.65 | 17.16 | 1.49 | 0.05 | 9.98 | 19.08 | 15 | 5.18 | 9.07 | 3.21 |
| 245049 | 'Myrip' | 2.73 | 0.14 | 0.84 | 0.03 | 2.07 | 1.08 | 1.33 | 1.52 | 1.64 | 1.66 |
| 245050 | 'Fam198a' | 1.98 | 4.93 | 1.33 | 0 | 1.21 | 0 | 0 | 0.04 | 2.79 | 0 |
| 245126 | 'Tarm1' | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 |
| 245174 | 'Zfp937' | 3.6 | 5.44 | 3.82 | 4.07 | 8.2 | 2.23 | 7.1 | 1.24 | 8.69 | 8.2 |
| 245269 | 'Nim1k' | 7.45 | 7.73 | 8.16 | 11.5 | 2.53 | 1.25 | 0.42 | 10.63 | 0.92 | 7.73 |
| 245308 | 'Zdhhc19' | 0 | 0 | 0 | 0 | 2.36 | 0 | 0 | 0 | 0 | 0 |
| 245350 | 'AA414768' | 13.72 | 28.67 | 12.9 | 23 | 17.5 | 18.99 | 9.92 | 15.96 | 18.85 | 7.93 |
| 245368 | 'Zfp300' | 3.6 | 2.6 | 0.23 | 0.52 | 3.03 | 0.26 | 1.94 | 0.21 | 2.27 | 1.67 |
| 245386 | 'Tmem255a' | 171.9 | 132.4 | 103 | 93.9 | 140 | 96.83 | 102 | 127.7 | 97.88 | 136.39 |
| 245403 | 'Dcaf12l2' | 3.01 | 1.36 | 0.89 | 0.04 | 1.07 | 0.06 | 0 | 1.47 | 0.01 | 0.32 |
| 245404 | 'Dcaf12l1' | 58.11 | 48.23 | 45.4 | 27 | 55.7 | 77.44 | 68.1 | 64.41 | 48.5 | 60.7 |

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|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 245423 | 'Gm364' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.94 |
| 245424 | 'Gpr101' | 20.87 | 7.67 | 13.2 | 0 | 14.5 | 21.75 | 35.6 | 44.21 | 156.2 | 88.09 |
| 245440 | 'Gm4988' | 37.62 | 31.74 | 27.6 | 15.6 | 24.8 | 27.93 | 29.7 | 29.22 | 31.55 | 27.55 |
| 245446 | 'Slitrk4' | 8.25 | 5.43 | 7.97 | 0 | 14.5 | 5.37 | 15.6 | 12.78 | 1.24 | 3.59 |
| 245450 | 'Slitrk2' | 4.82 | 2.03 | 2.24 | 3.16 | 1.52 | 0.75 | 1.68 | 1.72 | 3.22 | 1.09 |
| 245468 | 'Pnma3' | 8.65 | 6.11 | 3.03 | 4.77 | 11.4 | 8.09 | 6.74 | 4.8 | 7.66 | 15.69 |
| 245469 | 'Pdzd4' | 3.9 | 4.1 | 1.56 | 0 | 2.82 | 1.75 | 7.01 | 1.78 | 3.55 | 2.47 |
| 245474 | 'Dkc1' | 21.38 | 13.19 | 13.2 | 16.7 | 6.59 | 26.47 | 16.2 | 18.44 | 20.11 | 28.96 |
| 245522 | 'Zc4h2' | 2.55 | 6.38 | 6.41 | 15 | 10.7 | 12.2 | 10.7 | 8.2 | 8.55 | 5.2 |
| 245526 | 'Pgr15l' | 0.04 | 0.69 | 3.85 | 0.49 | 0.04 | 0.63 | 0 | 0.61 | 0.96 | 1.12 |
| 245527 | 'Eda2r' | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.16 |
| 245532 | 'Awat2' | 0 | 0 | 2.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 245537 | 'Nlgn3' | 20.06 | 26.03 | 47.6 | 8.8 | 21.9 | 11.19 | 44.1 | 16.09 | 18.2 | 27.78 |
| 245555 | 'Nexmif' | 2.67 | 2.47 | 2.53 | 5.46 | 1.75 | 0.25 | 1.6 | 2.56 | 1.05 | 0.85 |
| 245578 | 'Pcdh11x' | 15.46 | 11.65 | 17 | 1.91 | 6.77 | 7.62 | 4.17 | 12.22 | 4.15 | 5.77 |
| 245595 | 'Zfp711' | 0.92 | 7.07 | 3.76 | 11.8 | 5.85 | 0.32 | 9.27 | 6.31 | 4.53 | 3.31 |
| 245596 | 'Hdx' | 0.82 | 1 | 1.13 | 2.56 | 1.8 | 3.47 | 2.25 | 1.3 | 1.28 | 0 |
| 245607 | 'Gprasp2' | 247 | 227 | 265 | 244 | 200 | 91.94 | 291 | 239.8 | 289.3 | 320.09 |
| 245610 | 'Nxf3' | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83 | 1.18 |
| 245615 | 'Kir3dl2' | 3.76 | 1.67 | 0 | 0 | 0 | 0.27 | 0 | 5.24 | 0 | 0.04 |
| 245616 | 'Kir3dl1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 |
| 245622 | 'Fam199x' | 0.85 | 0.1 | 2.84 | 1.54 | 0.37 | 0.49 | 1.95 | 0.92 | 2.21 | 1.43 |
| 245631 | 'Mum11l' | 2.01 | 3.54 | 4.54 | 3.39 | 3.43 | 1.54 | 4.71 | 2.12 | 4.27 | 0.04 |
| 245638 | 'Tbc1d8b' | 0.01 | 0 | 0.06 | 0.02 | 0.16 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 |
| 245643 | 'Frmpp3' | 1.87 | 7.68 | 4.34 | 7.95 | 10.4 | 7.46 | 12.3 | 1.6 | 12.89 | 3.99 |
| 245650 | 'Gucy2f' | 0 | 0.1 | 0.11 | 0 | 0 | 0 | 0.58 | 0.01 | 0 | 0 |
| 245666 | 'Iqsec2' | 0.86 | 1.21 | 2.44 | 2.85 | 2.27 | 1.07 | 1.19 | 1.21 | 0.95 | 0.28 |
| 245670 | 'Rragb' | 8.95 | 8.22 | 11.3 | 9.52 | 6.46 | 9.16 | 13.2 | 11.98 | 12.63 | 9.21 |
| 245671 | 'Klf8' | 0 | 0.03 | 0.02 | 0.02 | 0 | 0.35 | 0.02 | 1.57 | 5.11 | 1.22 |
| 245683 | 'Klhl34' | 0.98 | 1.45 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 245684 | 'Cnksr2' | 1.79 | 3.96 | 5.12 | 6.1 | 1.28 | 3.56 | 3.4 | 0.67 | 0.78 | 1.75 |
| 245688 | 'Rbbp7' | 168.2 | 196.9 | 133 | 353 | 137 | 117 | 109 | 167.7 | 129.5 | 164.13 |
| 245695 | 'Tceanc' | 2.2 | 1.06 | 0.97 | 0.17 | 0.57 | 0 | 0.01 | 0.08 | 0.08 | 0.03 |
| 245828 | 'Trappc1' | 99.65 | 104.6 | 82.6 | 91.9 | 117 | 125.1 | 59.4 | 124.8 | 119.5 | 96.62 |
| 245839 | 'Gzmn' | 0 | 0 | 0.69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 245841 | 'Polr2h' | 45.46 | 31.29 | 57.5 | 60.2 | 53.7 | 58.37 | 62.3 | 51.7 | 33.5 | 55.58 |
| 245847 | 'Amdhd2' | 19.87 | 18.48 | 24.1 | 4.03 | 26.3 | 46.7 | 14.6 | 40.9 | 20.34 | 35.96 |
| 245857 | 'Ssh3' | 16.52 | 26.5 | 9.8 | 13.3 | 23.3 | 0.54 | 30.9 | 27.9 | 14.97 | 35.57 |
| 245860 | 'Atg9a' | 22.74 | 26.5 | 27 | 9.15 | 25.8 | 9.51 | 33.8 | 22.38 | 39.23 | 33.4 |
| 245865 | 'Spag4' | 1.7 | 3.3 | 2.21 | 0 | 10.3 | 5.21 | 8.03 | 5.65 | 30.51 | 9.66 |
| 245866 | 'Ift52' | 30.19 | 20.92 | 27.8 | 33.7 | 39.1 | 14.68 | 21.1 | 25.91 | 14.74 | 42.41 |
| 245867 | 'Pcmt2' | 17.78 | 19.11 | 15.4 | 18.9 | 12.4 | 3.79 | 8.34 | 19.23 | 7.08 | 19.37 |
| 245877 | 'Map7d1' | 22.86 | 22.73 | 16.8 | 31.4 | 27.2 | 9.72 | 11.5 | 12.18 | 16.63 | 11.17 |
| 245880 | 'Wasf3' | 4.4 | 6.79 | 10.5 | 6.9 | 14.2 | 11.43 | 6.47 | 5.09 | 9.68 | 4.4 |
| 245884 | 'Fam71f2' | 0 | 2.54 | 1.77 | 0 | 0 | 0 | 0 | 0 | 0.13 | 0 |
| 245886 | 'Ankrd27' | 22.79 | 10.04 | 3.9 | 13.1 | 6.95 | 8.36 | 4.77 | 10.3 | 10.38 | 9.06 |
| 245902 | 'Ccdc15' | 2.09 | 0 | 1.9 | 1.29 | 0.99 | 1.53 | 0 | 0 | 1.2 | 0.89 |
| 245944 | 'Vps54' | 2.52 | 0.25 | 1.05 | 9.26 | 0.48 | 0.41 | 1.26 | 2.2 | 0.04 | 0.06 |
| 245945 | 'Rbm47' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0.28 | 0 | 0 | 0 |
| 246048 | 'Chodl' | 55.56 | 84.1 | 0.04 | 54.4 | 8.65 | 1.51 | 0.07 | 11.81 | 3.15 | 0.03 |
| 246049 | 'Slc36a2' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 |
| 246086 | 'Onecut3' | 0 | 0.24 | 0 | 0 | 0.19 | 0.46 | 0 | 0 | 0.34 | 3.56 |
| 246102 | 'Rttn' | 1.02 | 0 | 0 | 2.33 | 0.09 | 0.12 | 0.11 | 0.9 | 0.15 | 0 |
| 246103 | 'Atxn7' | 1.26 | 1.16 | 1.01 | 1.16 | 2.65 | 0.02 | 1.72 | 0.58 | 0.06 | 1.23 |
| 246104 | 'Rhbdl3' | 0 | 0 | 1.15 | 0.01 | 0.32 | 0 | 0 | 0.67 | 0.11 | 1.48 |
| 246133 | 'Kcne2' | 0 | 0 | 0 | 7.77 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 246154 | 'Vasn' | 5.23 | 6.35 | 6.16 | 5.35 | 0 | 0.01 | 2.48 | 1.01 | 0 | 0.01 |
| 246179 | 'Fktn' | 21.55 | 7.61 | 9.05 | 11.6 | 5.38 | 3.94 | 9.75 | 16.59 | 5.13 | 8.24 |

| | | | | | | | | | | | |
|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 246190 | 'Otoa' | 0.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0.63 | 0 | 0 |
| 246196 | 'Zfp277' | 18.35 | 23.26 | 25.2 | 40.3 | 27.1 | 22.41 | 19.7 | 13.85 | 37.71 | 20.73 |
| 246198 | 'Mllt6' | 1.51 | 5.18 | 2.91 | 0 | 5.52 | 4.71 | 3.87 | 3.49 | 3.78 | 1.59 |
| 246221 | 'Mpst' | 3.52 | 3.15 | 0 | 0 | 2.91 | 0 | 0 | 2.76 | 7.71 | 0.07 |
| 246228 | 'Vwa1' | 7.74 | 1.9 | 13.9 | 6.98 | 7.72 | 16.11 | 26.1 | 10.97 | 31.77 | 20.77 |
| 246229 | 'Bivm' | 3 | 4.76 | 0.24 | 3.99 | 1.14 | 0.88 | 1.61 | 5.91 | 2.56 | 7.11 |
| 246257 | 'Ovca2' | 2.5 | 0.69 | 10.7 | 6.7 | 2.58 | 4.7 | 1.35 | 2.64 | 1.72 | 3.7 |
| 246277 | 'Csad' | 16.1 | 9.79 | 5.02 | 17.9 | 23.9 | 17.68 | 17.2 | 0.23 | 5.66 | 14.32 |
| 246293 | 'Klhl8' | 3.26 | 10.61 | 6.12 | 0.61 | 9.29 | 7.67 | 3.22 | 9.38 | 4.46 | 0.01 |
| 246313 | 'Prokr2' | 0 | 0 | 5.68 | 0 | 2.36 | 18.26 | 0 | 0 | 2.55 | 11.66 |
| 246316 | 'Lgi2' | 0.81 | 0.76 | 0.03 | 0 | 2.36 | 0 | 1.3 | 0.01 | 0 | 0.84 |
| 246317 | 'Neto1' | 1.82 | 3.27 | 0.67 | 0.92 | 4.41 | 7.08 | 2.5 | 0.62 | 0.97 | 0 |
| 246691 | 'Prok1' | 0 | 0 | 0 | 0.71 | 0 | 0 | 0 | 0 | 0 | 0 |
| 246694 | 'Hps5' | 0.01 | 2.1 | 2.33 | 0.3 | 6.54 | 1.12 | 1.6 | 1.62 | 1.64 | 1.66 |
| 246696 | 'Slc25a28' | 3.1 | 2.9 | 4.87 | 57.2 | 0.88 | 2.59 | 21.4 | 3.76 | 19.97 | 8.43 |
| 246703 | 'Naxe' | 207.9 | 170.4 | 239 | 120 | 286 | 280.5 | 309 | 255 | 216.1 | 235.26 |
| 246707 | 'Emilin2' | 0 | 0.17 | 0.6 | 0.87 | 0.05 | 0 | 0 | 0 | 0 | 0 |
| 246710 | 'Rhobtb2' | 3.07 | 1.69 | 1.13 | 0.23 | 3.74 | 3.67 | 2.8 | 1.26 | 5.23 | 2.22 |
| 246727 | 'Oas3' | 0.25 | 3.01 | 0.38 | 0.77 | 0.32 | 0.31 | 0.37 | 0.24 | 0.19 | 0.43 |
| 246728 | 'Oas2' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 246730 | 'Oas1a' | 0 | 0 | 0 | 0 | 0.86 | 0.03 | 0 | 0 | 0 | 4.1 |
| 246735 | 'AY074887' | 0.07 | 0.07 | 0.29 | 0.34 | 0.07 | 9.12 | 0.15 | 0.18 | 0.32 | 0 |
| 246738 | 'Dnajc28' | 5.1 | 5.42 | 4.69 | 0.02 | 0 | 11.99 | 2.1 | 8.21 | 4.87 | 11.59 |
| 246746 | 'Cd300lf' | 0.1 | 0.01 | 0.14 | 0.12 | 0.07 | 0.03 | 0.17 | 0.03 | 0.07 | 0.08 |
| 246747 | 'Adig' | 0.61 | 0 | 1.64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 246782 | 'Atpaf2' | 11.7 | 41.68 | 34.7 | 34.1 | 38.9 | 30.8 | 50.1 | 26.41 | 39.05 | 54.4 |
| 246787 | 'Slc5a2' | 0 | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 246788 | 'Trpv3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.15 | 0 |
| 252830 | 'Obox6' | 0 | 1.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 252837 | 'Ackr4' | 0.04 | 0 | 0.09 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 |
| 252838 | 'Tox' | 7.18 | 34.04 | 12.2 | 27.1 | 18.2 | 9.27 | 17 | 1.33 | 15.19 | 14.82 |
| 252864 | 'Dusp15' | 8.73 | 7.42 | 5.5 | 0 | 6.64 | 8 | 9.68 | 4.78 | 3.4 | 8.29 |
| 252868 | 'Odf4' | 0.08 | 0 | 0.63 | 0.21 | 0 | 4.59 | 0.46 | 0 | 0.09 | 0 |
| 252870 | 'Usp7' | 2.04 | 2.04 | 5.46 | 3.23 | 5.82 | 11.37 | 1.87 | 1.76 | 4.92 | 1.52 |
| 252875 | 'Mios' | 1.72 | 7.42 | 2.22 | 4.68 | 1.17 | 4.05 | 9.32 | 3.45 | 5.91 | 0.84 |
| 252876 | 'Gin1' | 2.89 | 1.12 | 7 | 1.49 | 6.13 | 18.49 | 13.6 | 5.95 | 0 | 7.72 |
| 252903 | 'Ap1s3' | 0.76 | 0.63 | 0.78 | 1.14 | 2 | 0.7 | 0.78 | 0.86 | 3 | 2.92 |
| 252966 | 'Cables2' | 1.54 | 2.22 | 0.07 | 6.14 | 2.87 | 1 | 3.78 | 2.15 | 0.12 | 0.03 |
| 252967 | 'Ropn1l' | 0.2 | 2.31 | 0.17 | 1.31 | 0 | 0.21 | 0.75 | 4.33 | 0 | 3.48 |
| 252972 | 'Tpcn1' | 2.5 | 0.41 | 2.44 | 7.11 | 0.77 | 1.41 | 0.04 | 0 | 5.53 | 0.44 |
| 252973 | 'Grhl2' | 0 | 0.31 | 0 | 1.21 | 0 | 0 | 0.18 | 0.11 | 0 | 0 |
| 252974 | 'Tspear' | 0 | 2.4 | 2.04 | 5.8 | 8.47 | 0 | 0.02 | 0 | 2.45 | 3.57 |
| 257630 | 'Il17f' | 0.02 | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 257632 | 'Nod2' | 0 | 0 | 0 | 1.97 | 0.02 | 0 | 0 | 0.2 | 0 | 0 |
| 257633 | 'Acsf3' | 11.26 | 22.92 | 30 | 5.89 | 17.2 | 22.56 | 17.7 | 16.11 | 23.91 | 23.05 |
| 257635 | 'Sdsl' | 7.63 | 4.39 | 2.65 | 1.89 | 5.12 | 10.38 | 4.66 | 4.69 | 1.31 | 6.04 |
| 257882 | 'Olf1344' | 2.9 | 0 | 7.4 | 0 | 0 | 0 | 0 | 0 | 0.42 | 0.05 |
| 257884 | 'Olf1744' | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 |
| 257891 | 'Olf1479' | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 |
| 257892 | 'Olf1324' | 0 | 0 | 4.72 | 0 | 0 | 0 | 0 | 2.72 | 0 | 0 |
| 257926 | 'Olf1544' | 0 | 0 | 0 | 0 | 0.18 | 0 | 0 | 0 | 0 | 0 |
| 257932 | 'Olf1332' | 0.45 | 0.82 | 2.79 | 0.29 | 0 | 0 | 0 | 0 | 0 | 1.64 |
| 257947 | 'Olf1543' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.33 | 0 |
| 258008 | 'Olf1513' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258019 | 'Olf1212' | 0 | 0.05 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 258020 | 'Olf1213' | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258028 | 'Olf1901' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.38 |
| 258064 | 'Olf1316' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |

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|--------|--------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 258068 | 'Olfr804' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 |
| 258148 | 'Olfr789' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 258364 | 'Olfr976' | 0.11 | 0.1 | 0.3 | 0.48 | 0.29 | 0.28 | 0.08 | 0.22 | 0.18 | 0.05 |
| 258380 | 'Olfr461' | 0 | 0 | 0 | 6.95 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258423 | 'Olfr1510' | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 |
| 258436 | 'Olfr458' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.53 | 0 | 0 |
| 258462 | 'Olfr1392' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74 | 0 | 0 |
| 258470 | 'Olfr91' | 0 | 0 | 0 | 4.75 | 0 | 4.22 | 0 | 0 | 0 | 0 |
| 258494 | 'Olfr318' | 0 | 0 | 2.86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258521 | 'Olfr860' | 0.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258540 | 'Olfr771' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 258571 | 'Olfr1033' | 0.26 | 0.22 | 0.01 | 0.2 | 0.15 | 0.14 | 0.33 | 0 | 0.66 | 0.13 |
| 258678 | 'Olfr1441' | 0 | 0 | 1.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258731 | 'Olfr491' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 258737 | 'Olfr1316' | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 |
| 258745 | 'Olfr689' | 0 | 0 | 0 | 0 | 3.24 | 0 | 0 | 0 | 0 | 0 |
| 258783 | 'Olfr920' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.85 |
| 258819 | 'Olfr640' | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258837 | 'Olfr545' | 0 | 0 | 0 | 0 | 2.19 | 0 | 0 | 0 | 0 | 0 |
| 258854 | 'Olfr985' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.8 |
| 258858 | 'Olfr371' | 0 | 0 | 0.69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258871 | 'Olfr898' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.67 |
| 258896 | 'Olfr1206' | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 258922 | 'Olfr267' | 0.44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.7 |
| 258938 | 'Olfr1417' | 0 | 0 | 0 | 0 | 0 | 0 | 6.81 | 0 | 0 | 0 |
| 259009 | 'Olfr394' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 259023 | 'Olfr1055' | 0 | 0 | 0 | 0.1 | 0 | 0.05 | 0 | 0 | 0.04 | 0.04 |
| 259051 | 'Olfr658' | 0 | 0 | 0 | 0 | 0 | 3.1 | 0 | 0 | 0 | 0.06 |
| 259063 | 'Olfr691' | 0 | 0 | 1.55 | 0 | 0 | 0 | 3.38 | 0 | 5.22 | 0 |
| 259087 | 'Olfr622' | 0 | 0 | 0 | 0 | 0 | 0 | 0.82 | 0 | 0 | 0 |
| 259104 | 'Olfr613' | 7.05 | 7.49 | 11.3 | 10.7 | 10.5 | 8.28 | 7.56 | 5.04 | 11.29 | 7.83 |
| 259116 | 'Olfr559' | 0 | 0 | 0 | 0.93 | 0 | 0 | 0 | 0 | 0 | 0 |
| 259122 | 'Olfr635' | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 259124 | 'Olfr638' | 0 | 0.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 259144 | 'Olfr456' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.13 | 0 |
| 259148 | 'Olfr329-ps' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 5.75 |
| 259172 | 'Mfrp' | 0.15 | 0.05 | 0 | 0.44 | 0 | 0 | 0.03 | 0 | 0 | 0.05 |
| 259277 | 'Klk8' | 0.44 | 0 | 0 | 11.1 | 0 | 0 | 0 | 0 | 0 | 0.07 |
| 259279 | 'Tubgcp3' | 18.59 | 20.68 | 24 | 17.7 | 19.7 | 4.22 | 22.1 | 20.31 | 20.04 | 23.57 |
| 259300 | 'Ehd2' | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 259302 | 'Srgap3' | 5.99 | 7.47 | 8.24 | 8.94 | 9.92 | 4.42 | 5.19 | 3.26 | 5.34 | 3.54 |
| 260296 | 'Trim61' | 0 | 0.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.31 |
| 260297 | 'Prnt1' | 7.66 | 8.09 | 4.31 | 12.8 | 9.65 | 4.45 | 10.4 | 6.49 | 5.2 | 9.87 |
| 260299 | 'Cadm4' | 6.82 | 4.95 | 8.34 | 4.78 | 5.8 | 4.38 | 12.7 | 7.08 | 4.93 | 4.03 |
| 260302 | 'Gga3' | 9.66 | 15.29 | 19.7 | 6.07 | 15.6 | 8.66 | 15.1 | 16.68 | 31.87 | 16.22 |
| 260305 | 'Nphp4' | 1.91 | 2.36 | 0.79 | 1.28 | 1.93 | 3.51 | 0.86 | 2.75 | 1.37 | 1.59 |
| 260315 | 'Nav3' | 1.66 | 3.88 | 4.56 | 0.61 | 3.73 | 3.68 | 2.34 | 1.86 | 2.54 | 3.1 |
| 260408 | 'Prss45' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.96 | 0 |
| 260409 | 'Cdc42ep3' | 15.19 | 15.03 | 12.6 | 4.96 | 11.3 | 26.27 | 25.4 | 16.28 | 11.84 | 16.11 |
| 260423 | 'Hist1h3f' | 0 | 2.66 | 0 | 0 | 0 | 0.79 | 1.91 | 0 | 1.05 | 2.07 |
| 263406 | 'Plekhg3' | 0.61 | 0.62 | 0 | 0 | 0.46 | 0 | 0 | 0 | 0 | 0 |
| 26356 | 'Ing1' | 19 | 14.85 | 9.29 | 17.7 | 8.35 | 15.5 | 12.3 | 7.58 | 16.05 | 19.42 |
| 26357 | 'Abcg2' | 0.02 | 9.64 | 0.69 | 0.03 | 7.56 | 0 | 9.36 | 6.81 | 13.95 | 12.77 |
| 26358 | 'Aldh1a7' | 0 | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 |
| 26360 | 'Angptl2' | 0 | 0 | 0.01 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 26362 | 'Axl' | 2.77 | 0 | 0.8 | 0.01 | 3.41 | 0.47 | 10.3 | 1.05 | 2.16 | 5.55 |
| 26363 | 'Btd' | 6.61 | 1.24 | 5.88 | 21.8 | 2.67 | 10.8 | 15.6 | 3.7 | 9.5 | 2.97 |
| 26364 | 'Adgre5' | 0 | 2.08 | 0 | 0 | 0 | 0 | 0 | 2.26 | 2.73 | 0.01 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 26365 | 'Ceacam1' | 0 | 0 | 0 | 0 | 1.15 | 0 | 0.02 | 0 | 0 | 0 |
| 26366 | 'Ceacam10' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.72 | 0 | 0 |
| 26368 | 'Ceacam9' | 0 | 0 | 0 | 0 | 0 | 0 | 2.93 | 0.65 | 0 | 0.47 |
| 26370 | 'Cetn2' | 122.8 | 111.8 | 53.2 | 93.7 | 85.1 | 108.8 | 50.9 | 126.4 | 73.18 | 153.45 |
| 26371 | 'Ciao1' | 27.27 | 22.08 | 31.3 | 19.7 | 22.2 | 26.57 | 29.3 | 36.23 | 38.54 | 32.73 |
| 26372 | 'Clcn6' | 9.28 | 11.3 | 9.35 | 4.34 | 9.13 | 9.1 | 12 | 8.72 | 9.02 | 5.43 |
| 26373 | 'Clcn7' | 16.64 | 20.77 | 23.1 | 19.2 | 25.8 | 19.8 | 20.1 | 30.53 | 20.39 | 30.01 |
| 26374 | 'Cop1' | 1.38 | 2.6 | 1.4 | 6.24 | 0.91 | 2.65 | 0.2 | 1.56 | 4.53 | 1.49 |
| 263764 | 'Creg2' | 16.28 | 2.62 | 19.4 | 9.16 | 12 | 3.48 | 12.3 | 3.35 | 20.42 | 4.46 |
| 26377 | 'Dapp1' | 0 | 0.11 | 0 | 0 | 6.78 | 3.51 | 0 | 0 | 0 | 0 |
| 26378 | 'Decr2' | 9.07 | 12.38 | 18.1 | 12.5 | 12.3 | 33.58 | 21.5 | 17.15 | 11.05 | 23.6 |
| 26379 | 'Esrra' | 0.88 | 0.68 | 0.18 | 2.5 | 3.56 | 0.08 | 1.74 | 0.83 | 2.29 | 0.15 |
| 26380 | 'Esrrb' | 0 | 0 | 0.44 | 0 | 0 | 0.01 | 0 | 0.01 | 0 | 0.99 |
| 26381 | 'Esrrg' | 0.81 | 0.02 | 4.02 | 2.19 | 1.31 | 0.06 | 0.12 | 0 | 0.35 | 0.37 |
| 26382 | 'Fgd2' | 0 | 0 | 0.03 | 7.77 | 21.4 | 10.3 | 0 | 0 | 0.13 | 0.37 |
| 26383 | 'Fto' | 44.3 | 61.08 | 78.1 | 29.8 | 58.4 | 22.28 | 52.1 | 87.51 | 115.2 | 108.82 |
| 26384 | 'Gnpda1' | 46.66 | 28.08 | 32.3 | 28.1 | 60.6 | 28.21 | 34.8 | 64.14 | 41.55 | 52.34 |
| 26385 | 'Grk6' | 2.69 | 5.7 | 30 | 2.14 | 8.16 | 7.98 | 4.8 | 11.27 | 19.29 | 7.48 |
| 26386 | 'Hsf4' | 3.66 | 5.85 | 20.2 | 9.59 | 23.6 | 12.68 | 34.8 | 17.22 | 21.23 | 21.32 |
| 263876 | 'Spata2' | 3.13 | 11.27 | 16.6 | 22.4 | 2.26 | 0.01 | 9.47 | 3.22 | 6.99 | 5.4 |
| 26390 | 'Mapkbp1' | 1.18 | 1.92 | 3.7 | 3.67 | 2.63 | 1.42 | 6.95 | 0.23 | 0.65 | 1.49 |
| 26394 | 'Lyp1a2' | 107.1 | 87.39 | 75.9 | 59.8 | 95.2 | 85.4 | 104 | 100.1 | 136.8 | 117.6 |
| 26395 | 'Map2k1' | 293.9 | 254 | 202 | 233 | 154 | 158.8 | 284 | 200.8 | 199.2 | 199.63 |
| 26396 | 'Map2k2' | 48.59 | 42.72 | 65.8 | 23.9 | 22.1 | 37.68 | 48.5 | 20.9 | 47.87 | 13.44 |
| 26397 | 'Map2k3' | 4.85 | 9.03 | 11.9 | 5.78 | 14.1 | 3.18 | 16.7 | 6.62 | 8.62 | 13.89 |
| 26398 | 'Map2k4' | 48.61 | 55.09 | 36.6 | 75 | 53.2 | 49.48 | 47 | 63.41 | 75.74 | 56.94 |
| 26399 | 'Map2k6' | 1.01 | 1.79 | 3.61 | 6.12 | 4.21 | 13.08 | 3.11 | 3.36 | 0 | 7.31 |
| 26400 | 'Map2k7' | 43.42 | 26.54 | 35.8 | 8.63 | 17.9 | 24.64 | 20.4 | 25.98 | 52.27 | 23.1 |
| 26401 | 'Map3k1' | 1.9 | 2.27 | 2.33 | 2.01 | 1.29 | 2.22 | 3.19 | 3.86 | 3.57 | 6.89 |
| 26403 | 'Map3k11' | 4.03 | 4.42 | 6.69 | 0.02 | 0 | 3.93 | 1.71 | 4.22 | 1.48 | 0.2 |
| 26404 | 'Map3k12' | 34.19 | 18.36 | 42.1 | 16.7 | 35 | 11.82 | 29 | 20.75 | 19.59 | 24.19 |
| 26405 | 'Map3k2' | 0.61 | 0.56 | 0.81 | 2.79 | 0.61 | 0.56 | 0.72 | 0.25 | 1.54 | 0.52 |
| 26406 | 'Map3k3' | 2.28 | 2.41 | 2.98 | 0.64 | 3.85 | 4.62 | 0.56 | 1.37 | 8.3 | 1.13 |
| 264064 | 'Cdk8' | 3.05 | 1.79 | 9.58 | 12.8 | 6.97 | 1.95 | 0.52 | 6.08 | 1.73 | 2.73 |
| 26407 | 'Map3k4' | 8 | 6.59 | 4.74 | 6.66 | 4.87 | 4.84 | 9.09 | 6.43 | 7.16 | 9.36 |
| 26408 | 'Map3k5' | 2.26 | 5.28 | 3.39 | 4.73 | 2.61 | 2.39 | 1.16 | 2.27 | 3.87 | 3.25 |
| 26409 | 'Map3k7' | 0.2 | 1.25 | 0.76 | 1.4 | 0.82 | 1.15 | 0.39 | 0.74 | 0 | 2.13 |
| 26410 | 'Map3k8' | 0 | 0.66 | 0.58 | 6.13 | 0.03 | 1.81 | 4.86 | 0 | 0 | 0.91 |
| 26411 | 'Map4k1' | 2.75 | 1.6 | 0 | 5.41 | 2.46 | 0 | 0.05 | 0 | 8.64 | 0.02 |
| 26412 | 'Map4k2' | 10.24 | 14.41 | 20.2 | 6.03 | 15.1 | 7.37 | 10.6 | 13.48 | 12.92 | 9.12 |
| 26413 | 'Mapk1' | 53.11 | 52.94 | 58 | 125 | 55.8 | 79.79 | 63.8 | 60.83 | 61.19 | 41 |
| 264134 | 'Ttc26' | 0.74 | 0.07 | 0.58 | 8.18 | 0.08 | 2.61 | 3.38 | 0.06 | 2.62 | 1.56 |
| 26414 | 'Mapk10' | 71.65 | 92.91 | 84.1 | 59.3 | 72.3 | 128 | 115 | 62.57 | 85.18 | 91.06 |
| 26416 | 'Mapk14' | 5.32 | 2.2 | 12.1 | 3.52 | 5.79 | 1.37 | 0.02 | 1.26 | 9 | 4.19 |
| 26417 | 'Mapk3' | 24.99 | 25.36 | 14.5 | 41.3 | 50 | 26.48 | 29.1 | 22.39 | 13.1 | 28.82 |
| 26419 | 'Mapk8' | 1.81 | 6.48 | 3.92 | 6.78 | 5.59 | 2.48 | 13.9 | 3.29 | 2.47 | 4.5 |
| 26420 | 'Mapk9' | 19.99 | 14.03 | 21 | 17.6 | 14 | 4.74 | 17.7 | 19.35 | 21.41 | 12.1 |
| 26422 | 'Nbea' | 6.96 | 2.94 | 3.36 | 3.68 | 2.52 | 5.01 | 3.99 | 3.05 | 5.73 | 2.88 |
| 26424 | 'Nr5a2' | 0 | 0.18 | 0.01 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0.02 |
| 26425 | 'Nubp1' | 1.35 | 0.23 | 5.67 | 6.67 | 2.78 | 1.11 | 0 | 2.98 | 11.12 | 2.07 |
| 26426 | 'Nubp2' | 40.82 | 42.2 | 29.4 | 84.8 | 37.5 | 36.72 | 16.2 | 36.99 | 64.96 | 47.3 |
| 26427 | 'Creb3l1' | 1.32 | 0 | 0 | 19.4 | 3.16 | 0 | 0 | 1.18 | 0.04 | 0.13 |
| 26428 | 'Orc4' | 43.17 | 36.83 | 35.1 | 45.1 | 29.2 | 37.27 | 32.3 | 31.11 | 37.15 | 44.61 |
| 26429 | 'Orc5' | 26.04 | 16.98 | 43.8 | 31 | 22.2 | 40.14 | 37.9 | 26.92 | 37.28 | 40.58 |
| 26430 | 'Parg' | 4.77 | 2.37 | 4.78 | 0 | 3.25 | 3.25 | 0 | 4.31 | 4.36 | 0.36 |
| 26431 | 'Git2' | 7.09 | 9.97 | 10 | 7.82 | 4.71 | 7.87 | 5.58 | 2.65 | 2.72 | 1.86 |
| 26432 | 'Plod2' | 0.32 | 0 | 0.25 | 0.17 | 0.52 | 2.49 | 0 | 0.68 | 0 | 0.05 |
| 26433 | 'Plod3' | 12.33 | 9.57 | 5.25 | 16.5 | 22.4 | 2.14 | 6.07 | 8.2 | 0.16 | 4.24 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 26434 | 'Prnd' | 0 | 0 | 0 | 3.58 | 0 | 0 | 3.72 | 0 | 0.87 | 0 |
| 26436 | 'Psg16' | 23.25 | 12.46 | 8.49 | 19.3 | 10.6 | 8.56 | 20.1 | 13.3 | 7.11 | 13.1 |
| 26440 | 'Psm1' | 218.8 | 256.4 | 229 | 195 | 180 | 298 | 229 | 231.9 | 161.4 | 249.72 |
| 26441 | 'Psm4' | 130.7 | 69.7 | 78.5 | 149 | 98.4 | 153.8 | 108 | 160.8 | 134 | 133.12 |
| 26442 | 'Psm5' | 272.8 | 166.4 | 242 | 323 | 236 | 243.8 | 181 | 268.9 | 222 | 220.46 |
| 26443 | 'Psm6' | 244.5 | 287.1 | 292 | 380 | 192 | 290.4 | 250 | 286.3 | 272.4 | 268.62 |
| 26444 | 'Psm7' | 228.7 | 282.8 | 369 | 344 | 362 | 435 | 297 | 443.8 | 373.3 | 364.11 |
| 26445 | 'Psm2' | 385.3 | 320.1 | 367 | 471 | 421 | 451.8 | 339 | 512.2 | 390.3 | 386.75 |
| 26446 | 'Psm3' | 348.9 | 307 | 454 | 685 | 442 | 485.2 | 380 | 483.5 | 210.3 | 386.01 |
| 26447 | 'Poli' | 8.19 | 7.22 | 5.6 | 0.32 | 10.9 | 2.91 | 7.66 | 7.19 | 8.48 | 11.33 |
| 26448 | 'Mok' | 3.39 | 16.34 | 6.74 | 0.46 | 18.5 | 30.55 | 1.92 | 18.35 | 8.7 | 20.34 |
| 26450 | 'Rbbp9' | 21.82 | 49.42 | 20 | 12.8 | 25.6 | 19.78 | 21.7 | 25.08 | 13.38 | 25.83 |
| 26451 | 'Rpl27a' | 89.13 | 102 | 98.3 | 85.8 | 92.5 | 87.43 | 96.4 | 52.84 | 66.04 | 57.18 |
| 26456 | 'Sema4g' | 6.82 | 0.47 | 5.89 | 1.57 | 4.74 | 8.24 | 3.15 | 3.88 | 5.42 | 1.83 |
| 26457 | 'Slc27a1' | 23.05 | 24.47 | 23.5 | 22.3 | 21 | 12.92 | 12.3 | 25.37 | 10.67 | 15.76 |
| 26458 | 'Slc27a2' | 26.26 | 6.12 | 19.6 | 0 | 8.64 | 4.47 | 16.9 | 8.96 | 14.32 | 8.45 |
| 26459 | 'Slc27a5' | 0 | 0 | 0 | 0 | 0.88 | 0 | 0 | 0.14 | 0 | 0 |
| 26462 | 'Txnrd2' | 13.79 | 18 | 25.8 | 1.52 | 22.9 | 24.46 | 25.1 | 15.58 | 29.51 | 26.51 |
| 26465 | 'Zfp146' | 4.29 | 9.47 | 0.07 | 3.82 | 16 | 14.43 | 0.02 | 11.13 | 8.65 | 4.15 |
| 26466 | 'Zfp260' | 15.95 | 12.5 | 12.1 | 9.78 | 15 | 9.36 | 26.2 | 19.24 | 25.28 | 21.23 |
| 264895 | 'Acsf2' | 0.06 | 0.08 | 0.04 | 0 | 0 | 0 | 0 | 0.03 | 0.25 | 0 |
| 26549 | 'Itgb1bp2' | 0.1 | 0.53 | 0.19 | 0 | 0 | 0.07 | 0.12 | 0 | 0.03 | 0.07 |
| 26554 | 'Cul3' | 9.61 | 8.3 | 5.76 | 14.9 | 12.3 | 7.14 | 4.98 | 5.15 | 1.91 | 9.23 |
| 26556 | 'Homer1' | 1.45 | 2.74 | 1.99 | 6.01 | 2.15 | 0.63 | 1.68 | 1.7 | 5.99 | 2.16 |
| 26557 | 'Homer2' | 0.51 | 0.06 | 0.8 | 1.13 | 0.42 | 0.25 | 0.09 | 0.53 | 1.09 | 1.95 |
| 26558 | 'Homer3' | 0.93 | 0 | 1.01 | 6.22 | 0 | 0.58 | 0 | 0 | 0.02 | 0 |
| 26559 | 'Hunk' | 0 | 4.01 | 4.4 | 0 | 1.31 | 3.06 | 1.5 | 6.54 | 3.9 | 1.71 |
| 26561 | 'Mmp23' | 1.15 | 6.9 | 1.43 | 0 | 0.46 | 6.41 | 3.87 | 2.6 | 11.67 | 0.08 |
| 26562 | 'Ncdn' | 171.3 | 127.3 | 195 | 37.1 | 194 | 119.5 | 298 | 223.6 | 141.6 | 105.24 |
| 26563 | 'Ror1' | 0 | 0 | 0 | 0 | 0.39 | 0 | 0 | 0 | 0 | 0 |
| 26564 | 'Ror2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 26565 | 'Pla2g10' | 0 | 0 | 0 | 3.41 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26568 | 'Slc27a3' | 0.35 | 0 | 2.71 | 0 | 2.61 | 4.3 | 5.95 | 6.4 | 9.73 | 11.5 |
| 26569 | 'Slc27a4' | 9.24 | 6.53 | 11.3 | 9.27 | 8.95 | 8.37 | 3.49 | 4.52 | 18.58 | 6.26 |
| 26570 | 'Slc7a11' | 0.34 | 0.01 | 0.13 | 0 | 0 | 0.03 | 2.24 | 0.03 | 0.01 | 0.92 |
| 26572 | 'Cops3' | 137.1 | 107.8 | 132 | 99 | 141 | 204.4 | 119 | 167.7 | 123.1 | 177.03 |
| 26611 | 'Rcn2' | 378.2 | 322 | 246 | 414 | 273 | 547.7 | 270 | 324.1 | 410.6 | 421.77 |
| 266614 | 'Ly6g5b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.39 | 0 |
| 266632 | 'Irak4' | 69.3 | 20.5 | 50.3 | 0 | 12.5 | 399.5 | 0 | 301.1 | 222.6 | 195.02 |
| 266645 | 'Acmsd' | 0.21 | 0.11 | 0.23 | 0.34 | 0.27 | 0.13 | 0.16 | 0.07 | 0.19 | 0.06 |
| 266690 | 'Cyb5r4' | 2 | 2.53 | 8.52 | 2.55 | 0.73 | 3.2 | 7.47 | 4.41 | 11.87 | 0 |
| 266692 | 'Cpne1' | 21.83 | 12.61 | 16.2 | 8.64 | 18.4 | 20.92 | 21 | 18.33 | 26.15 | 16.82 |
| 266781 | 'Snx17' | 109.7 | 112.4 | 106 | 110 | 94.8 | 152.7 | 126 | 106.7 | 83.05 | 140.27 |
| 267019 | 'Rps15a' | 10.32 | 12.06 | 16.2 | 16.2 | 10.3 | 6.48 | 16.3 | 11.64 | 7.18 | 8.14 |
| 26754 | 'Cops5' | 70.33 | 43.94 | 89.8 | 73.6 | 102 | 82.14 | 76.4 | 78.71 | 39.29 | 66.11 |
| 26757 | 'Dpysl4' | 9.59 | 17.8 | 24.5 | 24.5 | 18.8 | 5.14 | 31.2 | 30.74 | 21.45 | 16.46 |
| 268281 | 'Shprh' | 2.38 | 7.73 | 1.77 | 5.89 | 5.91 | 0.89 | 2.25 | 2.62 | 3.95 | 1.03 |
| 268288 | 'Samd3' | 8.9 | 3.2 | 10.4 | 0 | 5.24 | 87.08 | 3.24 | 4.25 | 56.66 | 81.98 |
| 268291 | 'Rnf217' | 0 | 0 | 0 | 0.39 | 0 | 0 | 0.68 | 0.85 | 0.3 | 0.53 |
| 268294 | 'Zbtb24' | 12.31 | 12.83 | 8.61 | 6.05 | 7.46 | 7.24 | 6.59 | 7.98 | 14.12 | 7.14 |
| 268297 | 'Scml4' | 16.13 | 4.03 | 2.28 | 4.21 | 1.45 | 0.36 | 5.84 | 5.06 | 4.35 | 4.18 |
| 268301 | 'Sowahc' | 3.86 | 1.86 | 8.36 | 3.52 | 0.86 | 8.47 | 1.44 | 3.02 | 1.25 | 2.12 |
| 268345 | 'Kcnc2' | 7.18 | 10.93 | 5.14 | 4.23 | 4.3 | 8.93 | 7.37 | 2.62 | 7.89 | 7.4 |
| 268354 | 'Fam19a2' | 11.33 | 4.71 | 17.6 | 0.02 | 7.29 | 7.24 | 14.3 | 8.62 | 10.43 | 10.66 |
| 268373 | 'Ppia' | 4144 | 3845 | 3653 | 3215 | 3743 | 4789 | 4447 | 4678 | 3177 | 4043.98 |
| 268379 | 'Abca13' | 0 | 0 | 0 | 0 | 0 | 0 | 1.23 | 0 | 0 | 0 |
| 268390 | 'Ahsa2' | 52.61 | 29.03 | 8.96 | 14.2 | 22.9 | 11.65 | 26.2 | 38.03 | 12.94 | 24.67 |
| 268395 | 'Mpg' | 27.51 | 21.96 | 27.5 | 19.1 | 22.8 | 35.89 | 41.3 | 41.47 | 38.36 | 25.12 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 268396 | 'Sh3pxd2b' | 0.27 | 0.45 | 0.1 | 0 | 0.33 | 0 | 0.86 | 0.64 | 0.01 | 0 |
| 268417 | 'Zkscan17' | 0.98 | 0.09 | 2.33 | 0.01 | 0.08 | 1.78 | 0.26 | 0.53 | 0.25 | 0.03 |
| 268420 | 'Alkbh5' | 16.52 | 17.39 | 15.8 | 19.9 | 11.8 | 5.44 | 9.53 | 10.53 | 13.68 | 17.34 |
| 268445 | 'Ankrd13b' | 3.51 | 5.72 | 1.36 | 29 | 2.2 | 0.95 | 3.11 | 1.69 | 3.14 | 0.03 |
| 268448 | 'Phf12' | 4.65 | 2.92 | 2.02 | 10.9 | 8.24 | 0.44 | 2.04 | 1.47 | 2.81 | 3.36 |
| 268449 | 'Rpl23a' | 147.7 | 236.9 | 251 | 335 | 202 | 353.5 | 320 | 191.2 | 226 | 202.98 |
| 268451 | 'Rab11fip4' | 13.02 | 10.93 | 7.61 | 10.4 | 8.59 | 5.72 | 7.24 | 4.85 | 8.35 | 4.84 |
| 268465 | 'Eme1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.6 | 0.03 | 0 | 0 |
| 268469 | 'Zfp652' | 0.33 | 3.94 | 0.02 | 0.53 | 0 | 0 | 0 | 0 | 0 | 0.25 |
| 268470 | 'Ube2z' | 16.96 | 4.91 | 10.9 | 2.96 | 10.3 | 6.69 | 2.4 | 8.62 | 4.29 | 6.82 |
| 268480 | 'Rapgef11' | 4.39 | 1.81 | 2.37 | 0.02 | 5.43 | 0.51 | 2.66 | 3.56 | 5.9 | 1.08 |
| 268481 | 'Krt222' | 8.6 | 9.89 | 15.1 | 18.1 | 10.4 | 4.53 | 10.2 | 17.25 | 4.67 | 19.28 |
| 268482 | 'Krt12' | 0 | 2.47 | 0 | 0 | 0 | 0 | 4.16 | 1.61 | 0 | 0 |
| 268490 | 'Lsm12' | 13.33 | 15.34 | 10.8 | 28.7 | 19.2 | 10.8 | 18.4 | 20.66 | 22.87 | 12.56 |
| 268491 | 'Meioc' | 0.13 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 |
| 268510 | 'Mgat5b' | 1.38 | 0 | 2.95 | 0.02 | 0.73 | 0 | 10.4 | 1.77 | 4.19 | 4.25 |
| 268512 | 'Slc26a11' | 0.04 | 15.33 | 0.02 | 0 | 7.47 | 36.27 | 4.67 | 13.28 | 44.5 | 14.82 |
| 268515 | 'Bahcc1' | 0.33 | 1.13 | 0.76 | 0.01 | 0 | 0.26 | 0 | 0.15 | 1.28 | 0.92 |
| 268527 | 'Greb1' | 1.83 | 2.8 | 0 | 2.48 | 0.02 | 0 | 0 | 0.54 | 0 | 0 |
| 268534 | 'Sntg2' | 3.08 | 3.44 | 2.93 | 0 | 0.03 | 7.17 | 4.63 | 9.11 | 9.75 | 11.76 |
| 268564 | 'Zbtb1' | 3.05 | 3.39 | 2.22 | 0 | 0.01 | 0.34 | 0 | 1.99 | 2.34 | 0 |
| 268566 | 'Gphn' | 26.24 | 29.22 | 43.7 | 57.8 | 34.1 | 22.4 | 20.7 | 24.88 | 33.6 | 19.76 |
| 268567 | 'Tmem229b' | 10.9 | 0.23 | 0.01 | 0 | 9.13 | 0.66 | 8.78 | 0.81 | 0.08 | 2.19 |
| 268595 | 'D430019H16Rik' | 4.36 | 5.07 | 5.09 | 3.77 | 6.27 | 2.86 | 11.5 | 4.75 | 5.19 | 7.1 |
| 268656 | 'Sptlc1' | 11.03 | 7.86 | 15.9 | 10.6 | 10.2 | 6.16 | 12.5 | 1.41 | 18.22 | 9.97 |
| 268663 | 'Cdhr2' | 2.14 | 6.79 | 5.81 | 1.6 | 0 | 4.93 | 0.01 | 3.73 | 9.19 | 2.06 |
| 268670 | 'Zfp759' | 0.56 | 0.01 | 2.4 | 4.49 | 0 | 0.31 | 0 | 0 | 2.36 | 0.21 |
| 268697 | 'Ccnb1' | 0 | 0 | 1.97 | 0.02 | 0 | 0 | 0 | 0 | 0 | 3.21 |
| 268706 | 'Slc38a9' | 2.18 | 2.34 | 0.21 | 2.3 | 0.34 | 4.4 | 2.95 | 6.48 | 2.98 | 2.95 |
| 268709 | 'Fam107a' | 5.43 | 3.02 | 0.86 | 9.53 | 0.03 | 0.1 | 0 | 9.56 | 0 | 0.01 |
| 268721 | 'Zswim8' | 6.99 | 7.63 | 2.48 | 11.2 | 7.29 | 5.67 | 4.69 | 5.31 | 6.32 | 3.4 |
| 268729 | 'Frmfd2' | 0 | 0 | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268739 | 'Arhgef40' | 1.47 | 6.31 | 7.93 | 11.6 | 5.93 | 4.89 | 0.43 | 2.3 | 4.22 | 11.19 |
| 26874 | 'Abcd2' | 2.57 | 2.65 | 0.27 | 0.04 | 0.03 | 0.73 | 0.06 | 1.72 | 2.57 | 3.93 |
| 268741 | 'Tox4' | 15.3 | 20.16 | 11.9 | 0.95 | 8.14 | 14.45 | 16.9 | 13.14 | 12.8 | 11.01 |
| 268747 | 'Carmil3' | 2.08 | 2.83 | 2.17 | 6.82 | 4.75 | 2.2 | 3.54 | 0.38 | 6.67 | 7.97 |
| 268749 | 'Rnf31' | 3.61 | 6.32 | 14.1 | 12.1 | 2.59 | 11.54 | 8.14 | 0.95 | 1.16 | 11.37 |
| 26875 | 'Pclo' | 5.36 | 2.98 | 5.47 | 4.8 | 3.13 | 2.9 | 7.23 | 4.04 | 3.79 | 2.95 |
| 268752 | 'Wdfy2' | 0.92 | 1.83 | 2.17 | 2.4 | 4.05 | 1.03 | 0.9 | 1.76 | 1.95 | 2.69 |
| 268756 | 'Gulo' | 0 | 0 | 0.43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268759 | '9930012K11Rik' | 3.76 | 9.22 | 2.75 | 0 | 0.02 | 0 | 0 | 0 | 4.33 | 0 |
| 26877 | 'B3galt1' | 29.44 | 8.24 | 12.4 | 13.6 | 2.95 | 0.02 | 1.24 | 10.87 | 1.8 | 1.74 |
| 26878 | 'B3galt2' | 8.85 | 7.54 | 1.84 | 2.3 | 0.37 | 2.87 | 6.78 | 2.4 | 2.85 | 1.63 |
| 268780 | 'Egflam' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.12 | 1.83 | 0 |
| 268782 | 'Agxt2' | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268783 | 'Mtmr12' | 4.62 | 0.61 | 2.71 | 8.09 | 0.01 | 0 | 3.59 | 1.52 | 3.71 | 0.22 |
| 26879 | 'B3galnt1' | 116.5 | 76.05 | 106 | 88.3 | 55.8 | 49.89 | 111 | 102.5 | 153.4 | 81.57 |
| 268807 | 'Klhl38' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0.02 |
| 268822 | 'Adck5' | 16.34 | 21.13 | 13.8 | 0.76 | 21.6 | 14.33 | 10.9 | 15.52 | 8.33 | 20.48 |
| 26885 | 'Casp8ap2' | 0.09 | 1.83 | 1.8 | 7.45 | 0.52 | 0.25 | 1.83 | 0.92 | 2.6 | 0.99 |
| 268857 | 'Nlrc3' | 3 | 3.11 | 1.74 | 2.07 | 2.22 | 2.61 | 1.03 | 2.15 | 3.48 | 0.97 |
| 268859 | 'Rbfox1' | 52.54 | 70.11 | 75.2 | 69.8 | 57.2 | 75.22 | 103 | 68.36 | 44.31 | 37.1 |
| 26886 | 'Cenph' | 0 | 1.03 | 1.61 | 0 | 3.09 | 0 | 0 | 0 | 0 | 0 |
| 268860 | 'Abat' | 101.1 | 74.61 | 100 | 71.4 | 60.8 | 34.75 | 69.7 | 101.9 | 40.25 | 57.55 |
| 268878 | 'Atp13a5' | 1.6 | 0 | 0 | 0 | 0 | 2.09 | 0.51 | 2.18 | 0 | 0.2 |
| 26888 | 'Clec4a2' | 0.85 | 0.75 | 1.21 | 1.53 | 1.65 | 2.5 | 1.29 | 0.4 | 0.82 | 0.98 |
| 268880 | 'Xxy1t1' | 4.36 | 3.98 | 0.61 | 0 | 0.14 | 0 | 6.8 | 1.55 | 6.05 | 1.58 |
| 268882 | 'Fbxo45' | 1.84 | 2.66 | 1.6 | 2.42 | 2.84 | 2.63 | 2.6 | 0.26 | 0.9 | 0.41 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 26889 | 'Cln8' | 9.4 | 6.7 | 14.8 | 0.83 | 1.45 | 14.27 | 9.71 | 14.43 | 13.02 | 7.75 |
| 268890 | 'Lsamp' | 70.68 | 99.38 | 64.2 | 89.5 | 45.1 | 85.69 | 62.2 | 48.46 | 66.23 | 60.96 |
| 268902 | 'Robo2' | 3.82 | 0.33 | 0.01 | 0.01 | 0.72 | 0.4 | 5.1 | 2.46 | 0.66 | 0.95 |
| 268903 | 'Nrip1' | 3.56 | 4.38 | 6.54 | 4.35 | 1.34 | 0.59 | 0.24 | 4.48 | 2.72 | 1.17 |
| 26891 | 'Cops4' | 187.5 | 164 | 121 | 180 | 157 | 196 | 125 | 183.8 | 175.7 | 183.01 |
| 26893 | 'Cops6' | 286.8 | 235.5 | 278 | 287 | 351 | 380.4 | 298 | 430.6 | 339.7 | 317.88 |
| 268930 | 'Pkmyt1' | 1.54 | 1.64 | 5.02 | 0 | 7.86 | 0 | 0 | 4.66 | 17.05 | 1.48 |
| 268932 | 'Caskin1' | 4.2 | 4.42 | 12.4 | 8.88 | 9.9 | 8.44 | 2.98 | 7.91 | 2.25 | 3.69 |
| 268933 | 'Wdr24' | 19.58 | 7.81 | 7.11 | 2.22 | 3.54 | 1.86 | 6.73 | 8.03 | 3.28 | 5.95 |
| 268934 | 'Grm4' | 1.61 | 1.38 | 0 | 0 | 0.12 | 0.01 | 0.03 | 0.03 | 0.61 | 2.21 |
| 268935 | 'Scube3' | 1.31 | 0.86 | 0.01 | 0.02 | 0.48 | 0.02 | 0.01 | 0.08 | 0 | 0 |
| 268936 | 'Brpf3' | 0 | 0.09 | 0.39 | 2.83 | 0.03 | 1.52 | 3.95 | 1.31 | 0.04 | 0.99 |
| 26894 | 'Cops7a' | 186.8 | 183.5 | 146 | 153 | 87.7 | 169.6 | 153 | 193.5 | 93.69 | 162.6 |
| 268949 | 'Mucl3' | 0 | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 |
| 26895 | 'Cops7b' | 22.6 | 9.27 | 14.3 | 0 | 31.5 | 0.06 | 15.4 | 22.45 | 22.62 | 15.43 |
| 268958 | 'Capn11' | 0 | 0.96 | 0 | 1.19 | 0 | 0 | 0 | 0 | 1.03 | 2.79 |
| 26896 | 'Med14' | 2.97 | 1.52 | 2 | 5.09 | 5.64 | 0.99 | 0.3 | 3.06 | 6.28 | 1.03 |
| 26897 | 'Acot1' | 2.71 | 20.25 | 2.49 | 8.55 | 13.7 | 11.13 | 0 | 14 | 16.98 | 7.18 |
| 268977 | 'Ltbp1' | 0 | 0.23 | 0 | 0.93 | 0.73 | 0.37 | 0 | 0 | 0 | 1.26 |
| 268980 | 'Strn' | 4.59 | 1.76 | 1.9 | 2.75 | 0.8 | 1.29 | 0.08 | 1.2 | 2.23 | 1.46 |
| 268996 | 'Ss18' | 2.1 | 4.78 | 9.25 | 3.46 | 5.13 | 2.89 | 17 | 2.32 | 9.97 | 12.67 |
| 26900 | 'Ddx3y' | 32.48 | 29.77 | 0.05 | 0.01 | 21.1 | 9.08 | 21 | 25.91 | 24.53 | 25.14 |
| 269003 | 'Sap130' | 6.42 | 16.62 | 21.7 | 7.8 | 16.2 | 6.91 | 23.3 | 15.16 | 24.3 | 14.23 |
| 26901 | 'Ss18l2' | 94.91 | 151 | 141 | 130 | 128 | 136.5 | 110 | 89.08 | 62.58 | 120.57 |
| 269019 | 'Stk32a' | 13.2 | 8 | 10.9 | 21.5 | 1.97 | 2.74 | 0.04 | 15.17 | 11.51 | 6.71 |
| 269023 | 'Zfp608' | 2.43 | 3.01 | 0.37 | 2.35 | 2.52 | 2.02 | 1.56 | 2.33 | 3.93 | 4.27 |
| 26903 | 'Dysf' | 0 | 0.23 | 0.04 | 0.01 | 0.19 | 0.91 | 0 | 0 | 0.36 | 0.74 |
| 269033 | '4930503L19Rik' | 4.76 | 1.48 | 3.82 | 0 | 3.01 | 0 | 20 | 3.8 | 5.38 | 1.88 |
| 269037 | 'Ctif' | 1.91 | 4.25 | 1.3 | 3.17 | 3.33 | 2.94 | 2.68 | 3 | 0.7 | 0.66 |
| 26904 | 'Sh2d1b1' | 0 | 0.41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26905 | 'Eif2s3x' | 19.47 | 22.91 | 45.3 | 23.7 | 13.4 | 6.82 | 24.9 | 20.18 | 23.48 | 27.07 |
| 269053 | 'Gpr152' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.08 |
| 269060 | 'Dagla' | 0.91 | 0.93 | 4.18 | 0.08 | 2.84 | 3.02 | 2.34 | 0.28 | 1.38 | 0.78 |
| 269061 | 'Cpsf7' | 9.56 | 14.37 | 19.5 | 17.4 | 12.1 | 4.76 | 18.8 | 10.65 | 26.73 | 19.45 |
| 26908 | 'Eif2s3y' | 20.79 | 15.41 | 0.07 | 1.56 | 27 | 28 | 31.7 | 27.13 | 36.35 | 42.74 |
| 269109 | 'Dpp10' | 11.31 | 10.99 | 8.66 | 7.85 | 26.7 | 15.94 | 15.1 | 18.65 | 14.69 | 19.01 |
| 269113 | 'Nup54' | 6.55 | 9.79 | 4.89 | 14.3 | 2.65 | 13.61 | 7.26 | 7.4 | 9.47 | 12.64 |
| 269116 | 'Nfasc' | 21.4 | 15.73 | 22.3 | 24.2 | 11.3 | 9.98 | 19.9 | 9.55 | 12.52 | 16.25 |
| 26912 | 'Gcat' | 8.41 | 4.54 | 7.49 | 7.37 | 7.86 | 14.23 | 16.5 | 3.84 | 23.05 | 7.34 |
| 269120 | 'Optc' | 0.12 | 1.7 | 2.86 | 0 | 21 | 38.01 | 6.96 | 6.18 | 4.29 | 7.08 |
| 26913 | 'Gprin1' | 3.04 | 7.23 | 1.56 | 5.01 | 3.54 | 0.08 | 2.05 | 5.45 | 2 | 2.28 |
| 269132 | 'Colgalt2' | 0 | 0.08 | 0.88 | 0 | 0 | 0 | 0 | 0.02 | 2.77 | 0.19 |
| 26914 | 'H2afy' | 39.81 | 44.58 | 43.2 | 50 | 45.4 | 41.2 | 49 | 51.56 | 53.87 | 31.81 |
| 269152 | 'Kif26b' | 0.12 | 0.01 | 1.79 | 0.02 | 0.42 | 1.35 | 1.75 | 0.26 | 0 | 0.08 |
| 26918 | 'Ern2' | 3.6 | 0 | 0.37 | 0 | 0.02 | 0.02 | 0.73 | 6.64 | 2.91 | 0.11 |
| 269180 | 'Inpp4a' | 99.19 | 100 | 61.4 | 112 | 124 | 93.95 | 54.6 | 116 | 141.5 | 114.36 |
| 269181 | 'Mgat4a' | 3.09 | 6.57 | 3.97 | 2.04 | 3.18 | 6.95 | 5.08 | 3.51 | 3.12 | 3.19 |
| 26919 | 'Zfp346' | 0.58 | 3.57 | 0.03 | 0 | 11.2 | 9.15 | 16.8 | 1.48 | 1.07 | 0.05 |
| 269198 | 'Nbeal1' | 1.52 | 1.56 | 1.89 | 0 | 1.96 | 0.29 | 1.33 | 0.61 | 1.41 | 1.96 |
| 26920 | 'Cntrl' | 3.34 | 2.69 | 0.77 | 4.28 | 8.56 | 1.34 | 1.29 | 0.36 | 2.67 | 2.46 |
| 269209 | 'Stk36' | 0.11 | 2.61 | 1.3 | 1.25 | 0.71 | 0.08 | 0 | 0 | 0 | 2.55 |
| 26921 | 'Map4k4' | 1.31 | 2.49 | 0.31 | 0.78 | 0.93 | 0.13 | 0.81 | 0.1 | 0.25 | 1.43 |
| 26922 | 'Mecr' | 16.32 | 22.6 | 9.32 | 19.7 | 21.9 | 16.52 | 2.26 | 28.75 | 21.49 | 29.79 |
| 269224 | 'Pask' | 0.01 | 0.4 | 1.04 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0.54 |
| 269233 | 'Fam171a1' | 2.54 | 13.45 | 7.51 | 2.23 | 4.26 | 8.27 | 10.2 | 4.82 | 2.77 | 13.1 |
| 269252 | 'Gtf3c4' | 1.26 | 0.95 | 0.77 | 3.96 | 2.25 | 0.72 | 0.15 | 1.1 | 1.24 | 1.05 |
| 269254 | 'Setx' | 2.64 | 1.18 | 2.98 | 5.68 | 2.63 | 0.58 | 1.5 | 3.12 | 2.46 | 3.99 |
| 26926 | 'Aifm1' | 16.52 | 14.91 | 7.41 | 0 | 11.2 | 16.09 | 10.8 | 18.08 | 15.03 | 7.85 |

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|--------|--------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 269261 | 'Rpl12' | 202.2 | 155.8 | 141 | 250 | 151 | 162.8 | 137 | 166.9 | 108.7 | 184.89 |
| 269275 | 'Acvr1c' | 0.65 | 0.66 | 0 | 0.35 | 0 | 0 | 0.1 | 0.55 | 0.01 | 0.12 |
| 26931 | 'Ppp2r5c' | 33.03 | 29.77 | 34.7 | 79.1 | 45.9 | 49.19 | 48.2 | 41.87 | 32.65 | 43.97 |
| 26932 | 'Ppp2r5e' | 5.98 | 5.62 | 6.89 | 13.7 | 5.27 | 1.06 | 3.82 | 3.28 | 3.59 | 2.36 |
| 269336 | 'Ccadc32' | 89.51 | 61.44 | 64.5 | 38.1 | 64.1 | 104.2 | 76.5 | 82.94 | 66.42 | 99.13 |
| 269338 | 'Vps39' | 23.27 | 21.77 | 34.1 | 42.7 | 26 | 19.93 | 13.8 | 24.38 | 34.32 | 38.87 |
| 26934 | 'Racgap1' | 4.18 | 10.43 | 11.5 | 12.5 | 4.54 | 0 | 11.1 | 1.83 | 6.39 | 3.81 |
| 269344 | 'Eil3' | 1.91 | 3.24 | 3.07 | 6.42 | 3.32 | 2.2 | 0.72 | 1.81 | 2.97 | 4.03 |
| 269346 | 'Slc28a2' | 0.02 | 0 | 0.17 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 269356 | 'Slc4a11' | 0.02 | 2.23 | 0 | 0 | 0.02 | 0 | 0 | 1.33 | 0 | 0 |
| 26936 | 'Mpripl' | 5.01 | 7.18 | 6.22 | 9.52 | 6.3 | 6.05 | 6.92 | 9.92 | 7.64 | 6.46 |
| 269378 | 'Ahcy' | 22.09 | 47.66 | 35.3 | 35.1 | 30.4 | 16.96 | 44 | 37.94 | 30.17 | 28.4 |
| 26938 | 'St6galnac5' | 21.05 | 8.64 | 17.2 | 0 | 18.7 | 13.95 | 7.57 | 19.85 | 7.95 | 2.3 |
| 269389 | 'Tox2' | 52.22 | 41.66 | 86.8 | 25.2 | 48.1 | 25.37 | 94.3 | 56.34 | 56.51 | 38.07 |
| 26939 | 'Polr3e' | 14.07 | 15.56 | 18.8 | 16.5 | 17.6 | 11.11 | 16.8 | 16.75 | 10.18 | 6.7 |
| 269397 | 'Ss18l1' | 11.25 | 7.56 | 13.6 | 3.51 | 13.2 | 4.13 | 6.46 | 13.81 | 12.89 | 6.69 |
| 26940 | 'Ecsit' | 16.7 | 46.14 | 49 | 71.2 | 53.2 | 61.41 | 63.5 | 40.95 | 50.39 | 39.73 |
| 269400 | 'Rtel1' | 3.31 | 6.66 | 8.48 | 4.52 | 5.98 | 4.45 | 9.7 | 2.58 | 3.36 | 4.55 |
| 269401 | 'Zfp512b' | 9.73 | 13.68 | 14 | 20.1 | 11.4 | 8.91 | 12.9 | 9.84 | 7.42 | 7.54 |
| 26941 | 'Slc9a3r1' | 1.82 | 9.38 | 7.98 | 4.4 | 8.84 | 9.7 | 25.9 | 5.33 | 5.48 | 2.45 |
| 26942 | 'Spag1' | 1.55 | 1.65 | 7.01 | 2.09 | 3.18 | 2.46 | 5.25 | 1.77 | 4.24 | 1.03 |
| 269423 | 'Abhd18' | 4.66 | 3.7 | 3.38 | 3.46 | 8.3 | 5.07 | 6.65 | 4.23 | 2.77 | 1.15 |
| 269424 | 'Jade1' | 6.89 | 2.23 | 4.26 | 12.2 | 1.71 | 0.37 | 3.51 | 3.34 | 2.26 | 2.47 |
| 26943 | 'Serinc3' | 66.15 | 41.54 | 57.9 | 42.6 | 45.3 | 19.99 | 40.4 | 35.69 | 41.89 | 53.52 |
| 269437 | 'Plch1' | 1.42 | 0.35 | 3.81 | 0 | 1.98 | 0.44 | 1.12 | 0.23 | 0 | 0 |
| 26944 | 'Tinag' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.33 |
| 26945 | 'Tpsg1' | 0 | 0 | 0.05 | 0.15 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 26946 | 'Trpc7' | 11.71 | 7.84 | 5.48 | 8.87 | 14.1 | 22.1 | 16.1 | 15.74 | 11.74 | 15.77 |
| 269470 | 'Wdr3' | 10.76 | 10.56 | 2.57 | 1.39 | 4.13 | 4.4 | 12.5 | 8.78 | 10.24 | 5.36 |
| 269473 | 'Lrig2' | 7.84 | 2.34 | 8.41 | 11.5 | 6.42 | 3.2 | 6.63 | 6.32 | 3.24 | 4.25 |
| 26949 | 'Vat1' | 39.31 | 33.29 | 25.6 | 26.6 | 38.7 | 23.19 | 29 | 37 | 56.88 | 54.51 |
| 26950 | 'Vsn11' | 271.8 | 270.2 | 269 | 101 | 316 | 396.7 | 266 | 420.2 | 593.6 | 455.84 |
| 26951 | 'Zw10' | 10.57 | 7.37 | 9.62 | 9.93 | 3.74 | 13.48 | 11.4 | 9.15 | 8.88 | 10.32 |
| 269513 | 'Nkain3' | 1.72 | 8.93 | 5.75 | 4.43 | 1.93 | 0.65 | 3.18 | 3.93 | 0.1 | 5.55 |
| 269514 | 'Fbxl4' | 12.17 | 19.74 | 16.5 | 16.5 | 4.92 | 21.97 | 3.03 | 26.53 | 28.39 | 31.05 |
| 269523 | 'Vcp' | 182.4 | 192.8 | 157 | 142 | 154 | 198.1 | 192 | 160.6 | 174 | 258.84 |
| 269529 | 'Fbxo10' | 16.96 | 17.36 | 37.2 | 18 | 6.97 | 7.99 | 22 | 20.96 | 18.46 | 22.66 |
| 269536 | 'Tex10' | 25.54 | 14.55 | 24.5 | 5.47 | 7.33 | 12.62 | 4.89 | 16.94 | 26.89 | 15.21 |
| 269582 | 'Clspn' | 1.12 | 0 | 0.02 | 0.04 | 0 | 0 | 0 | 0.01 | 0.04 | 0 |
| 269585 | 'Zscan20' | 1.41 | 0.09 | 0.1 | 0.05 | 0.65 | 1.16 | 0.02 | 0.54 | 0.19 | 1.37 |
| 269587 | 'Epb41' | 3 | 1.88 | 2.97 | 6.46 | 2.21 | 2.6 | 1.56 | 1.59 | 0.6 | 3.96 |
| 269589 | 'Syt11' | 0 | 0.05 | 0 | 0.65 | 0 | 0 | 0 | 0 | 0 | 0 |
| 269593 | 'Luzp1' | 2.75 | 4.68 | 6.71 | 8.55 | 8.97 | 3.56 | 9.43 | 4.82 | 6.87 | 3.57 |
| 269604 | 'Gpr157' | 0.4 | 0.39 | 0.56 | 0.87 | 0.68 | 0.76 | 0.95 | 0.67 | 2.26 | 0.99 |
| 269608 | 'Plekhhg5' | 9.49 | 6.69 | 8.28 | 7.22 | 1.02 | 0.03 | 8.72 | 7.86 | 7.96 | 6.59 |
| 26961 | 'Rpl8' | 165.8 | 212.5 | 250 | 173 | 170 | 298 | 199 | 151.6 | 137.8 | 234.88 |
| 269610 | 'Chd5' | 1.97 | 3.98 | 6 | 2.47 | 5.15 | 6.13 | 4.94 | 3.83 | 4.92 | 5.2 |
| 269614 | 'Pank4' | 31.55 | 36.19 | 20.2 | 21.8 | 32.4 | 17.63 | 84 | 36.86 | 33.46 | 44.44 |
| 269615 | 'Plch2' | 0.33 | 0 | 4.45 | 1.35 | 1.49 | 5.71 | 1.8 | 4.18 | 0 | 2.62 |
| 269623 | 'Rbm48' | 7.4 | 2.57 | 8.7 | 16.2 | 10.9 | 4.62 | 5.23 | 10.29 | 10.53 | 10.05 |
| 269629 | 'Lhfp13' | 5.91 | 23.44 | 37.9 | 10.2 | 11.9 | 4.14 | 17.6 | 19.12 | 15.33 | 11.47 |
| 269633 | 'Wdr86' | 1.77 | 0.06 | 0.03 | 1.83 | 0.09 | 0 | 0.34 | 0.55 | 0.01 | 0.01 |
| 269639 | 'Zfp512' | 23.64 | 42.63 | 60.4 | 40.1 | 42.3 | 48.39 | 28 | 45.74 | 64.48 | 43.46 |
| 269642 | 'Nat8l' | 7.08 | 6.32 | 5.44 | 8.7 | 16.2 | 2.7 | 15.4 | 3.18 | 1.3 | 0.76 |
| 269643 | 'Ppp2r2c' | 9.48 | 13.77 | 13.4 | 11.5 | 21 | 8.48 | 21.3 | 12.73 | 12.59 | 10.54 |
| 26965 | 'Cul1' | 33.15 | 45.48 | 56.2 | 45.4 | 35 | 44.66 | 62.1 | 30.02 | 42.05 | 49.09 |
| 26968 | 'Islr' | 0 | 0 | 0 | 0.03 | 10.3 | 0 | 15.9 | 0 | 0 | 0.02 |
| 269682 | 'Golga3' | 2.8 | 8.02 | 4.02 | 7.71 | 5.99 | 0.29 | 4.92 | 10.18 | 10.47 | 1.18 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 269693 | 'Ccadc60' | 0 | 0.2 | 0 | 0 | 2.32 | 0 | 0 | 1 | 0 | 0.39 |
| 269695 | 'Rnft2' | 6.1 | 7.55 | 6.38 | 6.64 | 6.22 | 2.11 | 3.72 | 1.17 | 2.55 | 6.11 |
| 269700 | 'Hectd4' | 4.09 | 5.24 | 8.72 | 5.64 | 4.98 | 3.64 | 9.15 | 5.61 | 5.17 | 6.46 |
| 269701 | 'Wdr66' | 0.07 | 2.93 | 0.36 | 2.42 | 1.35 | 0.3 | 0 | 0.3 | 0 | 1.09 |
| 269702 | 'Mphosph9' | 2.74 | 7.3 | 2.4 | 1.82 | 6.74 | 5.91 | 5.26 | 4.85 | 4.58 | 2.43 |
| 269704 | 'Zfp664' | 16.32 | 8.4 | 12.6 | 5.44 | 6.35 | 3.19 | 11.8 | 12.55 | 12.67 | 0.87 |
| 269713 | 'Clip2' | 0.48 | 1.25 | 1.11 | 1.11 | 1.34 | 0.16 | 0.22 | 0.51 | 1.55 | 1.39 |
| 269717 | 'Orai2' | 6.75 | 6.37 | 22.3 | 0.9 | 10.8 | 1.31 | 10.7 | 8.52 | 5.58 | 5.39 |
| 26972 | 'Spo11' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.85 |
| 269774 | 'Aak1' | 3.17 | 8.75 | 5.47 | 7 | 6.33 | 2.63 | 7.5 | 6.56 | 3.38 | 7 |
| 269784 | 'Cntn4' | 8.34 | 0.68 | 8.32 | 11 | 13.3 | 14.11 | 11.7 | 6.8 | 19.27 | 15.39 |
| 269788 | 'Lhfp14' | 12.86 | 12.27 | 15.9 | 6.11 | 11.3 | 8.04 | 15 | 10.54 | 11.69 | 6.77 |
| 269800 | 'Zfp384' | 5.74 | 2.56 | 6.54 | 2.63 | 5.4 | 3.93 | 2.04 | 0.48 | 2.46 | 2.11 |
| 269823 | 'Pon3' | 0.02 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0.02 |
| 269831 | 'Tspan12' | 9.18 | 13.18 | 16 | 4.68 | 9.91 | 28.43 | 10.8 | 14.76 | 26.32 | 11.69 |
| 269854 | 'Nat14' | 147.4 | 132.7 | 109 | 114 | 142 | 197 | 99.9 | 181 | 117 | 178.64 |
| 269855 | 'Ssc5d' | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.17 | 0.6 |
| 26987 | 'Eif4e2' | 13.58 | 14.88 | 11 | 31.7 | 21.1 | 5.61 | 12.2 | 16.16 | 8.3 | 16.66 |
| 269870 | 'Zfp446' | 5.25 | 6.46 | 6.16 | 2.86 | 4.98 | 1.38 | 2.14 | 6.08 | 4.2 | 4.56 |
| 269878 | 'Megf8' | 3.21 | 5.57 | 12.8 | 0.03 | 10.8 | 6.72 | 8.31 | 2.68 | 5.09 | 6.06 |
| 269881 | 'Map3k10' | 0.51 | 0.41 | 2.99 | 1.65 | 4.06 | 0.97 | 1.08 | 0.82 | 0.92 | 1.48 |
| 269902 | 'Vmn2r57' | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0.05 |
| 26992 | 'Brd7' | 13.34 | 14.38 | 12.5 | 2.09 | 8.64 | 10.41 | 6.48 | 6.53 | 10.16 | 14.59 |
| 269941 | 'Chsy1' | 1.33 | 2.4 | 2 | 7.46 | 0.66 | 1.3 | 0.44 | 2.37 | 0.5 | 0 |
| 269951 | 'Idh2' | 69.57 | 66.15 | 68.2 | 70.9 | 96.1 | 109.9 | 87.8 | 71.82 | 63.59 | 70.26 |
| 269952 | 'Gdpgp1' | 0.92 | 2.8 | 1.93 | 0.11 | 5.01 | 7.58 | 2.72 | 0.74 | 1.95 | 0.24 |
| 269954 | 'Till13' | 0.07 | 0.45 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0.78 | 1.24 |
| 269955 | 'Rccd1' | 2.48 | 1.7 | 2.1 | 1.8 | 3.7 | 0.58 | 2.35 | 4.99 | 4.91 | 1 |
| 269959 | 'Adamts13' | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0.49 | 0 | 0 |
| 269966 | 'Nup98' | 7.82 | 2.54 | 6.73 | 17.7 | 5.18 | 5.15 | 2.82 | 2.67 | 5.8 | 7.67 |
| 269994 | 'Gsg11' | 2.81 | 1.76 | 0 | 6.16 | 3.43 | 4.59 | 4.74 | 1.82 | 0 | 0 |
| 269997 | 'Zfp747' | 0 | 1.91 | 0 | 1.61 | 3.59 | 5.26 | 0 | 2.73 | 7.67 | 9.1 |
| 269999 | 'Orai3' | 15.19 | 16.45 | 10.6 | 0 | 6.99 | 1.32 | 5.06 | 10.99 | 5.04 | 5.58 |
| 270028 | 'Fam155a' | 24.22 | 26.78 | 31.2 | 47.3 | 50.7 | 40.54 | 30 | 25.99 | 38.14 | 23.83 |
| 270035 | 'Letm2' | 7.86 | 10.35 | 5.38 | 17.5 | 10.6 | 19.89 | 6.32 | 7.91 | 8.83 | 15.64 |
| 270049 | 'Galnt16' | 8.11 | 1.76 | 0.05 | 10.1 | 9.59 | 4.44 | 4.16 | 6.13 | 1.47 | 5.18 |
| 270058 | 'Map1s' | 19.39 | 26.87 | 25.2 | 6.19 | 19.4 | 25.88 | 39.3 | 36.34 | 20.05 | 49.2 |
| 270066 | 'Slc35e1' | 0.64 | 1.31 | 0.91 | 0.11 | 2.35 | 0.01 | 1.9 | 0.36 | 0.02 | 1.53 |
| 270076 | 'Gcdh' | 28.32 | 27.28 | 34.1 | 33.6 | 23.2 | 7.74 | 11.8 | 28.85 | 34.63 | 31.12 |
| 27008 | 'Micall1' | 1.07 | 1.87 | 5.01 | 0.34 | 0.94 | 6.23 | 0.05 | 0.32 | 6.47 | 0.52 |
| 270084 | 'Lpcat2' | 1.2 | 2.92 | 9.58 | 4.51 | 5.51 | 30.16 | 4.17 | 7.52 | 2.04 | 6.96 |
| 270086 | 'Ogfod1' | 18.4 | 14.4 | 25.4 | 11 | 18.2 | 17.75 | 26.7 | 14.73 | 34.05 | 14.99 |
| 270096 | 'Mon1b' | 3.4 | 3.6 | 6.49 | 8.7 | 6.75 | 1.89 | 5.65 | 4.71 | 7.55 | 2.39 |
| 270097 | 'Vat11' | 218.6 | 218.8 | 62.6 | 16.5 | 109 | 95.95 | 221 | 207.7 | 204.1 | 185.63 |
| 270106 | 'Rpl13' | 435.6 | 510.4 | 591 | 694 | 426 | 470.7 | 562 | 371 | 281.4 | 392.96 |
| 270109 | 'Pcnx2' | 0.08 | 1.38 | 1.67 | 2.88 | 3.44 | 1.31 | 6.47 | 0.52 | 0.09 | 0.11 |
| 270110 | 'Irf2bp2' | 3.13 | 4.43 | 3.87 | 4.58 | 3.29 | 2.08 | 3.61 | 0.94 | 2.86 | 1.97 |
| 270118 | 'Maml2' | 1.61 | 1.89 | 1.35 | 10.7 | 4.95 | 4.12 | 0.14 | 3.24 | 2.12 | 1.52 |
| 270120 | 'Fat3' | 1.71 | 0.32 | 1.74 | 2.53 | 1.48 | 0.34 | 1.25 | 0.52 | 0 | 0.68 |
| 27015 | 'Polk' | 1.74 | 0.93 | 2.48 | 1.66 | 2.26 | 0.45 | 1.42 | 3.35 | 1.73 | 1.82 |
| 270150 | 'Ccadc153' | 5.33 | 0 | 0 | 0 | 6.75 | 5.31 | 0 | 14.51 | 0 | 6.84 |
| 270151 | 'Nlrx1' | 2.97 | 0.49 | 0.29 | 3.46 | 0.56 | 0 | 0 | 0 | 0 | 0.43 |
| 270156 | 'Nkapd1' | 2.6 | 3.02 | 1.3 | 8.73 | 0.68 | 0 | 1.95 | 2.38 | 1.48 | 4.4 |
| 270160 | 'Rab39' | 1.75 | 0 | 0 | 0 | 0.28 | 0.32 | 0 | 0.21 | 0 | 2.33 |
| 270162 | 'Elmod1' | 5.43 | 9.28 | 7.75 | 5.04 | 24.2 | 17.94 | 10.6 | 10.19 | 16.02 | 14.09 |
| 270163 | 'Myo9a' | 6.98 | 5.55 | 4.06 | 7.43 | 2.98 | 2.56 | 8.64 | 4.61 | 3.21 | 2.67 |
| 270166 | 'Clpx' | 18.84 | 16.1 | 18 | 0.6 | 17.1 | 18.18 | 17.5 | 21.85 | 25.63 | 20.31 |
| 270190 | 'Ephb1' | 3.59 | 0.32 | 3.16 | 1.67 | 1.62 | 1.97 | 6.02 | 4.43 | 7.32 | 1.62 |

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|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 271981 | 'Tbck' | 18.47 | 18.02 | 13.2 | 19.9 | 17.1 | 19.4 | 15.7 | 19.72 | 21.66 | 11.51 |
| 272009 | 'Srsf12' | 23.22 | 16.59 | 18.3 | 12.7 | 21.8 | 5.69 | 8.3 | 14.35 | 22.33 | 20.55 |
| 272027 | 'Tstd2' | 2.72 | 6.22 | 8.64 | 8.44 | 4.11 | 3.1 | 6.73 | 5.33 | 3.28 | 5.25 |
| 272031 | 'Plppr1' | 13.63 | 8.4 | 6.11 | 1.64 | 9.69 | 24.84 | 11.3 | 10.86 | 4.86 | 4.07 |
| 27204 | 'Syn3' | 2.66 | 6.65 | 7.24 | 9.9 | 8.49 | 6.56 | 22 | 7.28 | 6.74 | 6.28 |
| 27205 | 'Podxl' | 1.14 | 0.71 | 1.1 | 0 | 0.15 | 0.01 | 3.6 | 0.87 | 0 | 0 |
| 27207 | 'Rps11' | 478.5 | 323.2 | 447 | 423 | 387 | 443.4 | 478 | 305.7 | 440.3 | 431.48 |
| 27214 | 'Dbf4' | 0 | 0.2 | 1.12 | 0 | 0 | 0 | 0 | 0 | 0.12 | 0 |
| 27215 | 'Azi2' | 28.62 | 29.87 | 23.5 | 14.1 | 17 | 20.91 | 29.9 | 34.09 | 24.22 | 26.82 |
| 272158 | 'Poln' | 0 | 0.03 | 0 | 0.04 | 0 | 0.02 | 0.14 | 0.08 | 0.03 | 0.01 |
| 27217 | 'Mixl1' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27218 | 'Slamf1' | 0 | 1.78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.95 |
| 27219 | 'Sgk2' | 1.4 | 2.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27220 | 'Cartpt' | 341.4 | 616.6 | 449 | 260 | 153 | 26.1 | 8.57 | 28.84 | 331.5 | 74.49 |
| 27221 | 'Chaf1a' | 0 | 2.11 | 0.49 | 2.09 | 2.02 | 0 | 0 | 1.88 | 0.01 | 3.52 |
| 27222 | 'Atp1a4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.22 |
| 27223 | 'Trp53bp1' | 17.06 | 11.34 | 20.7 | 16.4 | 9.7 | 9.76 | 15.3 | 12.21 | 19.26 | 29.42 |
| 27224 | 'Eloa' | 10.92 | 11.19 | 4.75 | 9.58 | 6.32 | 4.59 | 6.36 | 9.59 | 2.71 | 11.44 |
| 27225 | 'Ddx24' | 158.8 | 158.9 | 143 | 120 | 139 | 142.9 | 155 | 138.8 | 121.4 | 139.04 |
| 27226 | 'Pla2g7' | 42.22 | 46.31 | 23.3 | 74.1 | 17 | 34.47 | 44.1 | 28.37 | 63.11 | 44.58 |
| 272322 | 'Arntl2' | 1.35 | 12.23 | 7.71 | 0.07 | 1.11 | 2.05 | 4.18 | 8.44 | 0.64 | 2.19 |
| 272347 | 'Zfp398' | 3.74 | 5.73 | 5.05 | 1.27 | 2.84 | 6.19 | 2.57 | 8.2 | 5.02 | 7.13 |
| 272359 | 'Irf2bp1' | 12.37 | 2.16 | 6.58 | 4.19 | 5.55 | 9.17 | 7.46 | 5.41 | 5.82 | 8.54 |
| 272381 | 'Lrrc4b' | 3.81 | 2.48 | 1.09 | 4.35 | 5.22 | 3.64 | 3.26 | 1.97 | 2.82 | 3.27 |
| 272382 | 'Spib' | 0.03 | 0 | 0.37 | 0.04 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 272396 | 'Tarsl2' | 2.19 | 3.11 | 3.81 | 3.24 | 4.09 | 3.34 | 4.03 | 3.75 | 0 | 2.77 |
| 272411 | 'B3gnt6' | 0 | 0 | 6.03 | 0 | 0 | 0 | 0 | 4.05 | 0 | 0 |
| 272465 | 'Tmem255b' | 0 | 0 | 8.43 | 18.4 | 0 | 0 | 2.3 | 2.35 | 0 | 0 |
| 272538 | 'Tango6' | 1.92 | 0.31 | 1.87 | 0 | 0.1 | 0 | 2.62 | 1.03 | 0.02 | 0 |
| 272551 | 'Gins2' | 0 | 2.87 | 3.5 | 0 | 0 | 0 | 4.28 | 0 | 2.49 | 3.96 |
| 272589 | 'Tbcel' | 3.17 | 0.82 | 2.38 | 0.23 | 1.85 | 2.37 | 1.37 | 1.75 | 0.13 | 1.5 |
| 27260 | 'Plek2' | 6.26 | 4.86 | 2.98 | 10.7 | 0.03 | 11.3 | 5.16 | 4.93 | 0.73 | 0 |
| 27261 | 'Dok3' | 0.29 | 0 | 4.28 | 18.1 | 5.15 | 0 | 1.81 | 1.5 | 0.08 | 0.67 |
| 27263 | 'Smok2a' | 0 | 0 | 0.72 | 3.15 | 0.53 | 0 | 0 | 0 | 0 | 0 |
| 272636 | 'Esyt3' | 12.48 | 10.69 | 6.79 | 7.64 | 28.4 | 0.2 | 1.46 | 3.56 | 21.83 | 9.25 |
| 272643 | 'Prss43' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.09 | 0 |
| 27267 | 'Cars' | 26.2 | 27.69 | 35.2 | 42.9 | 38.7 | 48.73 | 22 | 31.65 | 22.41 | 40.98 |
| 27273 | 'Pdk4' | 0.63 | 1.17 | 0.11 | 0 | 0 | 2.49 | 1.06 | 0 | 0.65 | 0.41 |
| 27274 | 'Zfp354b' | 0.54 | 3.15 | 0 | 0 | 8.4 | 0.6 | 0 | 1.43 | 2.98 | 3.21 |
| 27275 | 'Nufip1' | 8.64 | 15.1 | 10.7 | 14 | 7.78 | 4.89 | 22.3 | 7.91 | 11.67 | 9.68 |
| 27276 | 'Plekhb1' | 59.63 | 119.6 | 114 | 125 | 780 | 136.8 | 86.3 | 127.2 | 88.67 | 69.31 |
| 27277 | 'Golga5' | 12.11 | 20.77 | 6.83 | 17.1 | 10.2 | 11.42 | 12.9 | 8.1 | 10.24 | 14.26 |
| 27278 | 'Clnk' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 |
| 27279 | 'Tnfrsf12a' | 3.33 | 9.66 | 20.6 | 0 | 4.29 | 35.83 | 13.7 | 8.52 | 6.17 | 20.35 |
| 272790 | 'Magee2' | 41.85 | 36.36 | 29.5 | 6.67 | 5.32 | 9.17 | 33.4 | 16.06 | 20.17 | 24.66 |
| 27280 | 'Phlda3' | 28.32 | 8.9 | 22.6 | 42.9 | 23.9 | 24.21 | 46 | 23.65 | 32.24 | 12.15 |
| 27281 | 'Hrasls' | 28.46 | 14.63 | 24.5 | 34.5 | 18.5 | 37.68 | 45.2 | 34 | 34.48 | 31.55 |
| 27354 | 'Nbn' | 4.67 | 5.18 | 13.7 | 5.98 | 10.3 | 1.42 | 6.76 | 9.83 | 19.51 | 8.4 |
| 27355 | 'Pald1' | 1.9 | 0.8 | 4.3 | 0 | 0 | 0 | 0 | 0.33 | 0.65 | 0.02 |
| 27356 | 'Insl6' | 4.91 | 5.7 | 0 | 0 | 6.31 | 1.88 | 7.57 | 0 | 0 | 0 |
| 27357 | 'Gyg' | 29.25 | 30.78 | 35 | 5.09 | 20.7 | 26.03 | 17.7 | 34.98 | 50.46 | 23.13 |
| 27359 | 'Sytl4' | 2.7 | 12.72 | 4.73 | 12.8 | 0.03 | 0.02 | 5.77 | 2.38 | 0.01 | 14.16 |
| 27360 | 'Add3' | 10.44 | 24.86 | 7.67 | 9.27 | 11.2 | 8.35 | 13.5 | 13.71 | 2.71 | 12.06 |
| 27361 | 'Msrb1' | 5.01 | 4.02 | 6.07 | 6.96 | 5.45 | 11.66 | 9.39 | 7.16 | 10.13 | 5.56 |
| 27362 | 'Dnajb9' | 76.93 | 84.8 | 47.4 | 59 | 70.8 | 66.82 | 29.2 | 39.79 | 76.44 | 47.31 |
| 27364 | 'Srr' | 18.77 | 19.09 | 9.51 | 20.4 | 23 | 12.22 | 10.7 | 21.3 | 10.39 | 21.4 |
| 27366 | 'Txnl4a' | 354.6 | 302.5 | 388 | 427 | 423 | 415.1 | 241 | 358.6 | 456.8 | 360.83 |
| 27367 | 'Rpl3' | 313.3 | 378.8 | 426 | 517 | 323 | 327.8 | 399 | 316.2 | 232.5 | 190.61 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 277345 | 'Wfdc16' | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 277360 | 'Prex1' | 1.55 | 0.49 | 3.81 | 11 | 2.31 | 0.01 | 0.85 | 1.04 | 0.92 | 0.01 |
| 277396 | 'Klhl23' | 7.41 | 8.96 | 14.8 | 8.42 | 7.39 | 2.41 | 3.08 | 7.72 | 13.11 | 5.53 |
| 277414 | 'Trp53i11' | 50.31 | 85.75 | 41.5 | 51.7 | 129 | 32.91 | 10.9 | 56.55 | 51.95 | 25.77 |
| 277432 | 'Vstm2l' | 0.59 | 0.22 | 0.25 | 1.7 | 0.96 | 0.58 | 0.56 | 0.21 | 0.13 | 0.13 |
| 277463 | 'Gpr107' | 14.46 | 4.65 | 19 | 0.78 | 4.97 | 1.28 | 9.45 | 14.68 | 18.07 | 8.03 |
| 277468 | 'Slc39a12' | 10.12 | 16.83 | 4.73 | 4.48 | 0.69 | 19.1 | 7.41 | 9.36 | 2.73 | 4.51 |
| 27756 | 'Lsm2' | 41.55 | 25.31 | 30.3 | 16.3 | 19.2 | 35.08 | 3.45 | 17.84 | 44.82 | 24.44 |
| 27762 | 'Vwa7' | 0 | 0 | 0.46 | 0 | 0 | 0.35 | 0 | 0 | 0 | 0 |
| 277743 | 'Fam131c' | 0.86 | 0.37 | 5.98 | 3.8 | 1.3 | 0.13 | 0 | 0.11 | 0.03 | 0.5 |
| 277773 | 'Fam205c' | 0 | 0 | 0 | 6.43 | 1.12 | 0 | 0 | 0.76 | 0 | 0 |
| 27784 | 'Commd8' | 28.38 | 30.96 | 26.1 | 36.8 | 30.5 | 14.97 | 32.5 | 27.2 | 28.7 | 34.94 |
| 277854 | 'Depdc5' | 2.92 | 2.81 | 5.2 | 0.1 | 1.85 | 1.47 | 7.87 | 1.78 | 4.23 | 1.52 |
| 277939 | 'C2cd3' | 1.35 | 1.91 | 3.71 | 0 | 2.95 | 1.45 | 0.01 | 1.35 | 0.48 | 1.56 |
| 277973 | 'Slc9a5' | 3.1 | 1.32 | 14.4 | 0.02 | 2.25 | 4.93 | 0.46 | 8.21 | 10.78 | 9.19 |
| 277978 | 'Exoc3l' | 0.05 | 0.18 | 1.01 | 0 | 0.14 | 7.87 | 0 | 0.17 | 0.61 | 3.61 |
| 27801 | 'Zdhhc8' | 3.63 | 5.04 | 6.49 | 2.18 | 7.44 | 0.28 | 0.36 | 2.8 | 1.93 | 4.38 |
| 278097 | 'Armcx6' | 25.72 | 8.73 | 25.7 | 15.8 | 11.7 | 11.68 | 74.8 | 4.75 | 41.1 | 20.44 |
| 278174 | 'Ssxb3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.11 |
| 278240 | 'Spin2c' | 17.31 | 14.47 | 20.8 | 7 | 29.3 | 21.33 | 33.1 | 30.29 | 36.38 | 22.06 |
| 278279 | 'Tmtc2' | 6.5 | 0.33 | 0.12 | 0.67 | 1.23 | 0.55 | 0.27 | 0.06 | 0.85 | 2.52 |
| 278304 | 'Zfp385c' | 0.04 | 0.07 | 0.12 | 0.09 | 0.05 | 0.36 | 0.06 | 0.03 | 0.04 | 0.02 |
| 278507 | 'Wfikkn2' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 0 |
| 278672 | 'Duxbl1' | 0.62 | 0.89 | 0.2 | 4.38 | 0.05 | 1.8 | 0 | 0 | 0 | 1.12 |
| 278679 | 'Apol7b' | 0.1 | 0.02 | 0 | 0.03 | 0.02 | 0 | 0.09 | 0 | 0 | 0.01 |
| 27878 | 'Tada1' | 34.7 | 36.05 | 39.7 | 17.1 | 36.4 | 20.58 | 30.6 | 53.01 | 29.25 | 33.45 |
| 278795 | 'Lrrc10b' | 1.27 | 0.37 | 3.27 | 3.6 | 0 | 0 | 0 | 0.54 | 3.39 | 4.68 |
| 27883 | 'Tango2' | 104.4 | 113.6 | 173 | 126 | 175 | 273.4 | 250 | 249.1 | 247.8 | 178.71 |
| 27886 | 'Ess2' | 10.86 | 22.23 | 23.4 | 23.3 | 29 | 4.88 | 3.99 | 32.14 | 10.91 | 39.21 |
| 279028 | 'Adamts13' | 0.92 | 1.3 | 0.63 | 2.48 | 0.9 | 0.85 | 1.17 | 0.71 | 1.62 | 0.91 |
| 279029 | 'Stkld1' | 0 | 0 | 0 | 0 | 0 | 0.84 | 0 | 1.22 | 0 | 0 |
| 279185 | 'Gm13083' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0.03 | 0 |
| 279499 | 'Kctd19' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 279561 | 'Wnk3' | 1.46 | 0.96 | 1.1 | 2.59 | 2.64 | 1.53 | 3.62 | 2.02 | 1.99 | 2.39 |
| 279572 | 'Tlr13' | 0 | 0 | 0.01 | 4.26 | 0 | 0.19 | 0 | 0 | 0 | 0 |
| 279618 | 'Gm715' | 0 | 0 | 0.45 | 0 | 0 | 0 | 0 | 1.19 | 0 | 0.36 |
| 27965 | 'Spg21' | 39.4 | 56.69 | 45.4 | 44.7 | 45.9 | 65.23 | 59.8 | 43.29 | 63.01 | 48.63 |
| 279653 | 'Pcdh19' | 2.02 | 4.09 | 7.18 | 8.88 | 4.44 | 0.87 | 3.14 | 2.52 | 9.39 | 4.48 |
| 27966 | 'Rrp9' | 34.55 | 26.83 | 16.8 | 49.7 | 29.6 | 22.85 | 39.3 | 38.4 | 51.57 | 40.63 |
| 27967 | 'Cherp' | 10.91 | 14.5 | 30.6 | 6.82 | 13.5 | 5.46 | 15.1 | 15.94 | 9.48 | 9.87 |
| 279706 | 'Nup62cl' | 0 | 0 | 0 | 21.4 | 0 | 0 | 0 | 0 | 0 | 31.05 |
| 27973 | 'Vkorc1' | 47.84 | 105.8 | 58.2 | 64.3 | 38.3 | 70.03 | 35.7 | 31.38 | 67.3 | 104.52 |
| 279766 | 'Rhbdd3' | 32.22 | 35.78 | 27.2 | 22.2 | 21.8 | 52.97 | 41.5 | 27.88 | 23.28 | 26.13 |
| 27979 | 'Eif3b' | 5.97 | 8.43 | 3.82 | 8.2 | 13.6 | 6.18 | 13.4 | 2.42 | 16.15 | 6.58 |
| 27981 | 'Rsrp1' | 179 | 196.6 | 173 | 217 | 365 | 227.4 | 157 | 299.2 | 207.1 | 236.87 |
| 27984 | 'Efhd2' | 19.27 | 19.88 | 8.21 | 31.5 | 16.4 | 35.4 | 32.2 | 14.2 | 73.66 | 20.55 |
| 27993 | 'Imp4' | 14.32 | 40.35 | 17.5 | 56 | 26.3 | 41.04 | 30.3 | 16.34 | 30.11 | 16.06 |
| 27998 | 'Exosc5' | 20.17 | 21.28 | 28.3 | 4.24 | 47.3 | 68.7 | 21.7 | 24.57 | 22.68 | 20.8 |
| 27999 | 'Fam3c' | 16.4 | 21.14 | 18.3 | 19.8 | 18 | 9.42 | 11.9 | 7.17 | 23.29 | 6.77 |
| 28000 | 'Prpf19' | 6.47 | 8.14 | 11.2 | 9.54 | 7.36 | 10.7 | 12 | 10.23 | 13.41 | 10.12 |
| 28006 | 'Washc2' | 7.2 | 15.28 | 23.8 | 20.7 | 6.84 | 3.11 | 17.4 | 11.41 | 20.74 | 13.76 |
| 28010 | 'Miip' | 8.21 | 3.47 | 14.1 | 0 | 11.6 | 8.55 | 0.19 | 1.58 | 17.14 | 8.01 |
| 28015 | 'Polr2m' | 126.9 | 105.4 | 144 | 158 | 89.6 | 86.09 | 198 | 63 | 166.3 | 55.41 |
| 28018 | 'Ubfd1' | 8.8 | 3 | 11 | 14.7 | 6.12 | 5.63 | 12.3 | 9.42 | 11.58 | 3.69 |
| 28019 | 'Ing4' | 33.97 | 26.21 | 24.8 | 0.04 | 36.3 | 42.04 | 35.6 | 30.85 | 29.89 | 19.01 |
| 28028 | 'Mrpl50' | 29.61 | 19.65 | 29.3 | 19.7 | 30.6 | 17.14 | 13.8 | 25.78 | 34.15 | 25.89 |
| 280287 | 'Kiss1' | 26.22 | 2.68 | 3.34 | 2484 | 0.22 | 0.31 | 0.22 | 0.88 | 0.09 | 1.36 |
| 28030 | 'Gfm1' | 17.85 | 5.15 | 9.4 | 1.7 | 5.05 | 16.83 | 4.46 | 11.33 | 15.59 | 10.65 |

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|--------|--------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 28035 | 'Usp39' | 10.85 | 22.57 | 25.8 | 7.1 | 11.8 | 19.39 | 5.92 | 10.26 | 12.72 | 3.68 |
| 28036 | 'Larp7' | 8.62 | 13.31 | 16.4 | 29.2 | 9.96 | 13.25 | 7.13 | 11.71 | 13.3 | 11.55 |
| 28040 | 'D6Wsu163e' | 9.15 | 13.35 | 26.3 | 17.4 | 4.94 | 3.34 | 14.6 | 12.17 | 14.01 | 10.47 |
| 280408 | 'Rilp' | 1.92 | 2.16 | 0 | 0 | 3.45 | 0.5 | 0 | 3.36 | 7.92 | 0.06 |
| 280411 | 'Lix1l' | 0.56 | 0 | 0 | 0 | 1.87 | 0 | 0 | 0.71 | 0 | 0 |
| 28042 | 'Selenoi' | 5.37 | 8.18 | 5.12 | 4.52 | 7.17 | 2.95 | 4.46 | 4.59 | 7.31 | 3.8 |
| 280621 | 'Selenov' | 1.9 | 0.04 | 5.51 | 0 | 0.04 | 7.29 | 1.18 | 0.85 | 0 | 1.01 |
| 28064 | 'Yipf3' | 54.26 | 40.05 | 67.9 | 12.1 | 36.4 | 45.87 | 36.3 | 52.4 | 58.8 | 54.17 |
| 280645 | 'B3gat2' | 2.03 | 3.97 | 1.44 | 5.28 | 0.77 | 2.32 | 2.16 | 3.54 | 2.02 | 2.07 |
| 280667 | 'Adam1b' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 280668 | 'Adam1a' | 2.77 | 1.17 | 1.97 | 0 | 5.36 | 0 | 2.56 | 0.71 | 2.48 | 0.04 |
| 28071 | 'Twistnb' | 21.95 | 29.14 | 9.96 | 20 | 11.8 | 10.41 | 17.5 | 15.93 | 22.76 | 11.86 |
| 28075 | 'Desi1' | 7.46 | 20.29 | 5.09 | 5.45 | 18.3 | 3.37 | 10.7 | 6.96 | 0.42 | 2.24 |
| 28077 | 'Med10' | 47.91 | 63.18 | 51.5 | 87.3 | 64.5 | 78.12 | 79.7 | 75 | 64.82 | 101.8 |
| 28080 | 'Atp5o' | 514.9 | 425 | 717 | 444 | 607 | 789.3 | 744 | 640.6 | 510.6 | 546.26 |
| 28081 | 'Fam104a' | 21.73 | 25 | 19.8 | 26 | 22.2 | 11.05 | 13.6 | 22.71 | 17.69 | 8.46 |
| 28084 | 'Vps25' | 65.85 | 118.2 | 59.5 | 84.4 | 112 | 81.81 | 165 | 106.3 | 106 | 98.42 |
| 28088 | 'Rtcb' | 118.9 | 134.6 | 166 | 136 | 120 | 182.1 | 133 | 134.7 | 155.4 | 183.9 |
| 28105 | 'Trim36' | 0.9 | 1.81 | 0.35 | 0.3 | 1.87 | 0.16 | 0.2 | 1.99 | 2.11 | 0.22 |
| 28106 | 'Mydgf' | 151.7 | 121.4 | 103 | 112 | 123 | 183.6 | 132 | 145.8 | 172.2 | 159.68 |
| 28109 | 'D10Wsu102e' | 10.14 | 11.06 | 8.54 | 14.3 | 5.02 | 2.18 | 16.1 | 8.37 | 16.2 | 14.32 |
| 28113 | 'Tinf2' | 3.82 | 3.08 | 9.75 | 13.4 | 3.01 | 16.44 | 0.64 | 10.47 | 10.51 | 10.7 |
| 28114 | 'Nsun2' | 9.1 | 10.36 | 8.24 | 29.5 | 6.82 | 2.42 | 21.8 | 14.2 | 13.52 | 3.98 |
| 28126 | 'Nop16' | 63.67 | 45.18 | 34.5 | 62.7 | 13.8 | 63.82 | 40.3 | 48.28 | 61.72 | 44.33 |
| 28135 | 'Cep63' | 14.53 | 11.21 | 21.9 | 17.6 | 28 | 18.78 | 8.76 | 12.71 | 8.76 | 11.72 |
| 28146 | 'Serp1' | 16.2 | 17.64 | 10.1 | 41.7 | 27.3 | 31.4 | 23.5 | 19.12 | 18.85 | 13.92 |
| 28169 | 'Agpat3' | 6.75 | 5.92 | 11.6 | 14 | 8.44 | 10.6 | 0.87 | 7.45 | 5.84 | 2.42 |
| 28185 | 'Tomm70a' | 12.6 | 12.53 | 16.9 | 34.3 | 12 | 11.03 | 22 | 11.59 | 15.54 | 2.2 |
| 28193 | 'Reep3' | 1.05 | 1.77 | 5.21 | 2.64 | 1.59 | 2.04 | 4.42 | 4.27 | 1.8 | 0.94 |
| 28199 | 'Dcaf11' | 72.03 | 56.91 | 42.1 | 67.1 | 59.6 | 56.65 | 62.6 | 57.57 | 74.97 | 56.25 |
| 28200 | 'Dhrs4' | 16.08 | 4.41 | 9.92 | 0.13 | 10.4 | 35.98 | 0.07 | 3.28 | 0 | 6.54 |
| 28240 | 'Trpm2' | 8.07 | 10.95 | 9.81 | 10.3 | 5.9 | 3.03 | 15.1 | 7.04 | 4.39 | 3.48 |
| 28250 | 'Slco1a4' | 0 | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0.01 |
| 282619 | 'Sbsn' | 6.02 | 6.46 | 6.91 | 13.9 | 5.85 | 9.78 | 7.12 | 9.52 | 1.82 | 4.99 |
| 282663 | 'Serpinb1b' | 8.99 | 8.31 | 4.65 | 0 | 15.7 | 56.5 | 47.6 | 5.48 | 19.68 | 6 |
| 28295 | 'D10Jhu81e' | 90.43 | 100.3 | 124 | 28.2 | 89.9 | 97.67 | 112 | 117.6 | 124.4 | 105.88 |
| 286940 | 'Flnb' | 0.68 | 1.52 | 6.44 | 5.14 | 2.4 | 0.17 | 1.91 | 2.91 | 0.84 | 1.6 |
| 286942 | 'Kif19a' | 0.1 | 0 | 1.19 | 0.21 | 0 | 0 | 0 | 0 | 0.26 | 0.7 |
| 29805 | 'Znhit2' | 44.06 | 42.53 | 38.8 | 42.2 | 34.4 | 41.89 | 62.1 | 53.54 | 37.24 | 23.68 |
| 29806 | 'Limd1' | 1.43 | 3.05 | 2.13 | 4.7 | 2.03 | 0.01 | 3.08 | 1.75 | 4.8 | 1.83 |
| 29807 | 'Tpk1' | 0.02 | 0.02 | 0.25 | 0 | 0.47 | 0 | 0 | 1.62 | 0 | 3.43 |
| 29808 | 'Mga' | 2.69 | 2.38 | 3.59 | 6.02 | 3.74 | 4.28 | 6.69 | 5.12 | 3.19 | 10.44 |
| 29809 | 'Rabgap1l' | 2.85 | 9.56 | 5.66 | 9.53 | 8.48 | 4.87 | 6.57 | 3.96 | 4.29 | 4.65 |
| 29810 | 'Bag3' | 9.51 | 2.21 | 0.74 | 19 | 0.06 | 0.02 | 2.51 | 0.02 | 0.02 | 2.82 |
| 29811 | 'Ndrg2' | 432.7 | 234.5 | 265 | 351 | 132 | 622.8 | 486 | 232.2 | 217.2 | 311.57 |
| 29812 | 'Ndrg3' | 187.4 | 146.5 | 204 | 156 | 135 | 154.8 | 336 | 200.1 | 200.5 | 162.56 |
| 29813 | 'Zfp385a' | 2.9 | 1.8 | 5.72 | 2.46 | 3.8 | 9.59 | 2.71 | 5.15 | 3.82 | 1.63 |
| 29815 | 'Bcar3' | 4.75 | 12.65 | 3.94 | 6.69 | 3.72 | 29.04 | 11.3 | 5.96 | 15.02 | 13.4 |
| 29816 | 'Hip1r' | 2.67 | 6.77 | 19.3 | 5.5 | 5.24 | 1.79 | 10.2 | 5.18 | 8.44 | 5.82 |
| 29817 | 'Igfbp7' | 0.69 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 |
| 29818 | 'Hspb7' | 0.06 | 0.02 | 0.1 | 0.08 | 0.09 | 0.03 | 0.02 | 0.01 | 0.03 | 0.05 |
| 29819 | 'Stau2' | 31.59 | 37.34 | 35 | 42.3 | 21.8 | 27.16 | 33.7 | 27.35 | 41.43 | 35 |
| 29820 | 'Tnfrsf19' | 4.47 | 6.53 | 3.69 | 2.15 | 2.4 | 0.44 | 0.01 | 7.92 | 1 | 7.8 |
| 29856 | 'Smtn' | 0.14 | 0.31 | 0 | 0 | 0 | 0.01 | 0.3 | 0.61 | 0 | 0.09 |
| 29857 | 'Mapk12' | 5.24 | 0 | 7.31 | 0 | 5.68 | 0 | 0.36 | 1.62 | 3.3 | 0 |
| 29858 | 'Pmm1' | 218.2 | 213.1 | 184 | 119 | 206 | 228.2 | 214 | 199.5 | 252.3 | 220.71 |
| 29859 | 'Sult4a1' | 133.6 | 118.5 | 173 | 88.4 | 127 | 66.68 | 137 | 123.2 | 111.1 | 57.97 |
| 29861 | 'Dpf1' | 15.21 | 18.56 | 16.2 | 12.9 | 10.9 | 15.58 | 13.5 | 16.17 | 9.76 | 15.94 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 29862 | 'Ninj2' | 0 | 0 | 3.69 | 0 | 5.79 | 9.07 | 13.4 | 3.24 | 0 | 0 |
| 29863 | 'Pde7b' | 0.78 | 1.36 | 2.69 | 0.05 | 0.34 | 0.26 | 4.16 | 1.63 | 3.53 | 1.51 |
| 29864 | 'Rnf11' | 15.07 | 11.69 | 11.4 | 31.2 | 14.3 | 16.35 | 15.2 | 9.11 | 7.07 | 4.91 |
| 29867 | 'Cabp1' | 0 | 3.13 | 5.28 | 2.49 | 0.61 | 5.56 | 0 | 1.75 | 3.57 | 4.91 |
| 29869 | 'Ulk2' | 0.16 | 1.4 | 0.95 | 5.18 | 1.99 | 3.01 | 2.56 | 1.11 | 2.8 | 2.89 |
| 29870 | 'Gtse1' | 0 | 0 | 0 | 8.11 | 2.14 | 0 | 0 | 0 | 0 | 0 |
| 29871 | 'Scmh1' | 1.65 | 9.34 | 5.7 | 1.79 | 12.7 | 1.23 | 13 | 7.54 | 10.73 | 11.12 |
| 29873 | 'Cspg5' | 16.68 | 21.4 | 29.3 | 17.6 | 12.2 | 14.43 | 43.8 | 12.17 | 15.01 | 5.37 |
| 29875 | 'lqgap1' | 0.92 | 2.34 | 7.98 | 7.86 | 2.4 | 1.28 | 1.02 | 1.27 | 2.79 | 9.71 |
| 29876 | 'Clic4' | 11.96 | 12.12 | 8.19 | 1.63 | 5.03 | 9.96 | 17.3 | 12.64 | 0.06 | 5.28 |
| 29877 | 'Hdglf3' | 9.74 | 6.76 | 10.9 | 5.5 | 8.51 | 15.56 | 13.7 | 6.35 | 14.22 | 8.45 |
| 30044 | 'Opn4' | 0 | 0 | 0 | 0 | 1.61 | 0.02 | 0 | 0.37 | 0 | 0 |
| 30045 | 'Dnajc12' | 39.03 | 66.07 | 66.5 | 118 | 57.3 | 107.7 | 99.6 | 60.71 | 105.2 | 54.96 |
| 30046 | 'Zfp292' | 2.92 | 1 | 3.24 | 5.9 | 3.69 | 1.76 | 2.16 | 1.75 | 3.6 | 1.13 |
| 30049 | 'Scd3' | 0.06 | 0.11 | 1.14 | 2.93 | 0.08 | 3.07 | 0.09 | 1.81 | 1.54 | 1.21 |
| 30050 | 'Fbxw2' | 47.5 | 57.75 | 77.8 | 37.5 | 41.9 | 77.86 | 87.4 | 51.3 | 51.05 | 16.74 |
| 30051 | 'Spdef' | 4.9 | 0.08 | 5.51 | 0.18 | 0.02 | 4.29 | 0.02 | 0.97 | 0 | 24.19 |
| 30052 | 'Pcsk1n' | 261 | 276.3 | 485 | 494 | 221 | 249.4 | 296 | 164.3 | 182.8 | 145.7 |
| 30054 | 'Rnf17' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.9 | 0 |
| 30055 | 'Timm13' | 160.4 | 133.5 | 147 | 141 | 172 | 222.4 | 141 | 135.5 | 138.6 | 155.54 |
| 30056 | 'Timm9' | 89.68 | 67.44 | 96.7 | 108 | 56.3 | 77.08 | 131 | 90.72 | 69.94 | 79.97 |
| 30057 | 'Timm8b' | 439.8 | 434.5 | 418 | 578 | 401 | 600.2 | 346 | 428.5 | 419.6 | 416.14 |
| 30058 | 'Timm8a1' | 26.05 | 13.55 | 20.7 | 31.2 | 13.8 | 6.46 | 5.18 | 28 | 9.51 | 10.48 |
| 30059 | 'Timm10' | 117.1 | 89.13 | 109 | 33.6 | 66.7 | 50.13 | 108 | 118 | 73.39 | 67.24 |
| 30060 | 'Melf' | 0 | 0.13 | 0.06 | 2.28 | 0.02 | 0.13 | 0 | 0.08 | 0 | 0.07 |
| 30785 | 'Cttnbp2' | 5.55 | 7.49 | 2.56 | 3.35 | 4.44 | 2.34 | 6.71 | 3.75 | 3.17 | 4.27 |
| 30791 | 'Slc39a1' | 11.1 | 14.18 | 28.6 | 31.4 | 26.9 | 8.37 | 12.8 | 8.01 | 36.53 | 26.53 |
| 30794 | 'Pdlim4' | 7.3 | 8.64 | 3.08 | 0 | 10.4 | 25.45 | 0.06 | 2.08 | 0 | 2.99 |
| 30795 | 'Fkbp3' | 382.1 | 358.1 | 406 | 414 | 262 | 520 | 426 | 482.9 | 460.8 | 322.06 |
| 30805 | 'Slc22a4' | 5.52 | 3.8 | 11.3 | 7.57 | 8.06 | 2.49 | 6.77 | 12.03 | 2.53 | 7.41 |
| 30806 | 'Adamts8' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.94 |
| 30838 | 'Fbxw4' | 2.46 | 5.02 | 1 | 3.99 | 1.55 | 0.05 | 5.78 | 1.53 | 4 | 1.12 |
| 30839 | 'Fbxw5' | 71.31 | 102 | 49.3 | 78.5 | 81.2 | 99.3 | 128 | 113 | 70.94 | 90.86 |
| 30840 | 'Fbxl6' | 24.07 | 15.82 | 16.9 | 7.52 | 39.4 | 16.81 | 14.3 | 7.19 | 18.71 | 28.7 |
| 30841 | 'Kdm2b' | 2.83 | 3.72 | 5.67 | 4.22 | 1.73 | 0.57 | 11.8 | 1.88 | 4.18 | 2.87 |
| 30843 | 'Fbxl12' | 8.26 | 5.25 | 3.38 | 7.38 | 7.73 | 2.04 | 10.4 | 7.33 | 1.01 | 4.67 |
| 30853 | 'Mlf2' | 228.2 | 230 | 202 | 309 | 263 | 254 | 225 | 220.7 | 244.3 | 112.15 |
| 30877 | 'Gnl3' | 11.84 | 25.99 | 20.5 | 15.1 | 6.26 | 15.17 | 17.1 | 17.37 | 24.43 | 20.7 |
| 30878 | 'Apln' | 1.12 | 2.9 | 2.78 | 0 | 3.41 | 0 | 0 | 0 | 0 | 0 |
| 30924 | 'Angptl3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.47 |
| 30925 | 'Slamf6' | 0 | 0.01 | 0.02 | 0 | 0 | 6.28 | 0 | 0 | 0 | 0 |
| 30926 | 'Glr3' | 101.4 | 107.7 | 97.3 | 113 | 99.5 | 91.85 | 81.7 | 116.1 | 118.1 | 95.4 |
| 30927 | 'Snai3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.47 | 0 |
| 30928 | 'Zbtb18' | 0.42 | 0.81 | 0.16 | 0.56 | 0.19 | 0.66 | 0.04 | 0.91 | 1.18 | 0.5 |
| 30930 | 'Vps26a' | 19.7 | 23.02 | 12.4 | 19.3 | 25.1 | 18.59 | 38.2 | 15.85 | 23.39 | 20.61 |
| 30931 | 'Tor1a' | 49.53 | 58.28 | 62.2 | 59.8 | 38.9 | 68.86 | 37.3 | 61.04 | 43.16 | 59.53 |
| 30932 | 'Zfp330' | 23.16 | 25.53 | 25.7 | 40.5 | 44.1 | 37.91 | 24.9 | 31.39 | 41.75 | 35.32 |
| 30933 | 'Tor2a' | 29.13 | 21.99 | 19.4 | 5.07 | 27.6 | 5.81 | 21 | 31.38 | 24.58 | 32.17 |
| 30934 | 'Tor1b' | 11.11 | 27.83 | 3.56 | 10.8 | 17.1 | 7.23 | 16.4 | 15.36 | 3.84 | 17.39 |
| 30935 | 'Tor3a' | 2.1 | 3.47 | 1.54 | 5.01 | 0.73 | 1.42 | 0.53 | 1.24 | 6.04 | 6.28 |
| 30936 | 'Slc46a2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.46 | 2.24 |
| 30937 | 'Lmcd1' | 0 | 2.46 | 20.1 | 6.11 | 0 | 0 | 7.52 | 0 | 0 | 2.61 |
| 30938 | 'Fgd3' | 3.23 | 3.03 | 0 | 1.09 | 3.04 | 2.68 | 0 | 0 | 0 | 1.08 |
| 30939 | 'Pttg1' | 23.76 | 45.89 | 82.8 | 128 | 125 | 33.42 | 44.2 | 86.4 | 36.47 | 38.61 |
| 30940 | 'Usp25' | 0.19 | 0 | 2 | 1.94 | 0.68 | 0 | 0 | 0.04 | 0.09 | 0.02 |
| 30941 | 'Usp21' | 54.05 | 31.8 | 25.3 | 5.05 | 38.1 | 16.96 | 18.4 | 23.96 | 15.34 | 12.79 |
| 30943 | 'Prss30' | 0.43 | 2.77 | 3.24 | 0 | 0 | 0 | 0 | 2.13 | 0 | 0 |
| 30944 | 'Zfp354c' | 3.6 | 1.03 | 4.62 | 0.11 | 1.68 | 1.18 | 4.04 | 4.83 | 7.99 | 3.52 |

| | | | | | | | | | | | |
|--------|--------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 30945 | 'Rnf19a' | 3.63 | 3.32 | 8.57 | 8 | 4.34 | 1.33 | 4.46 | 7.46 | 5.54 | 4.75 |
| 30946 | 'Abt1' | 3.99 | 4.15 | 8.66 | 18.3 | 8.31 | 6.19 | 3.88 | 8.68 | 5.05 | 9.06 |
| 30947 | 'Adat1' | 4.05 | 4.43 | 0.23 | 0.29 | 3.26 | 0.31 | 0.08 | 2.95 | 5.91 | 4.88 |
| 30948 | 'Bin1' | 81.82 | 73.2 | 71.1 | 57.8 | 73.9 | 70.7 | 108 | 40.77 | 60.33 | 38.99 |
| 30949 | 'Lcmt1' | 84.91 | 109.1 | 98.9 | 94.2 | 81.7 | 107.6 | 105 | 88.81 | 90.69 | 71.14 |
| 30951 | 'Cbx8' | 20.57 | 14.02 | 3.3 | 19.2 | 29.7 | 0 | 4.56 | 7.32 | 8.78 | 20.62 |
| 30953 | 'Schip1' | 65.68 | 67.33 | 59.3 | 28.6 | 107 | 84.49 | 68.7 | 67.7 | 121.3 | 75.95 |
| 30954 | 'Siva1' | 31.07 | 22.37 | 30.2 | 20.7 | 20.1 | 57.63 | 19.2 | 34.39 | 36.52 | 53.95 |
| 30955 | 'Pik3cg' | 0.91 | 0 | 0.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30956 | 'Aass' | 1.08 | 0 | 0 | 0 | 0 | 2.62 | 0.01 | 0 | 0 | 0 |
| 30957 | 'Mapk8ip3' | 42.14 | 52.55 | 80.5 | 39.9 | 45.1 | 37.42 | 65.1 | 44.87 | 66.23 | 54.5 |
| 30959 | 'Ddx25' | 75.27 | 60.89 | 112 | 94.4 | 80.7 | 104.7 | 127 | 139.5 | 81.56 | 104.63 |
| 30960 | 'Vapa' | 90.51 | 86.33 | 113 | 202 | 88.5 | 75.62 | 105 | 66.74 | 85.73 | 65.76 |
| 30963 | 'Hacd1' | 13.24 | 2.32 | 0.11 | 0 | 33.1 | 0.05 | 10.1 | 14.62 | 16.7 | 2.73 |
| 317652 | 'Klk15' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 |
| 317653 | 'Klk14' | 0 | 0.06 | 0.08 | 0.2 | 0.02 | 0.03 | 0.04 | 0 | 0.14 | 0.03 |
| 317717 | 'Sec22a' | 19.02 | 19.3 | 26.6 | 36.7 | 18.4 | 31.2 | 36.3 | 35.47 | 26.77 | 27.67 |
| 317750 | 'Slc24a5' | 0 | 0.49 | 0 | 20.3 | 2.33 | 7.72 | 0 | 1.02 | 0 | 6.47 |
| 317755 | 'Zar1' | 2.83 | 0.78 | 0 | 0 | 0.63 | 0 | 0 | 0 | 2.62 | 0.55 |
| 317757 | 'Gimap5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.52 |
| 319146 | 'Ifnz' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.31 | 0 |
| 319149 | 'Hist1h3d' | 0 | 0.42 | 5.9 | 0 | 0 | 5.74 | 0 | 0 | 0 | 0 |
| 319150 | 'Hist1h3b' | 0 | 0 | 0 | 0 | 0.12 | 0 | 3.02 | 0 | 0 | 0 |
| 319151 | 'Hist1h3e' | 0 | 4.22 | 6.37 | 9.09 | 0.12 | 25.27 | 0.75 | 3.28 | 6.23 | 0 |
| 319152 | 'Hist1h3h' | 0.93 | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 319153 | 'Hist1h3i' | 0 | 0 | 0.16 | 0.4 | 0 | 2.35 | 0 | 0.19 | 0.23 | 0.21 |
| 319154 | 'Hist2h3b' | 0 | 3.08 | 0.29 | 0 | 3.22 | 0 | 0 | 0.58 | 3.1 | 2.67 |
| 319155 | 'Hist1h4c' | 4.47 | 7.28 | 4.29 | 32.8 | 2.89 | 7.33 | 16.8 | 1.32 | 7.67 | 7.46 |
| 319156 | 'Hist1h4d' | 9.44 | 8.55 | 9.63 | 31.2 | 1.09 | 24.36 | 6.37 | 2.07 | 7.83 | 4.42 |
| 319157 | 'Hist1h4f' | 0 | 0 | 1.34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 319158 | 'Hist1h4i' | 3.02 | 2.35 | 12.5 | 10.2 | 0 | 6 | 21 | 6.15 | 15.81 | 7.27 |
| 319160 | 'Hist1h4k' | 0 | 0.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 319162 | 'Hist3h2a' | 43.54 | 44.83 | 11.6 | 37.3 | 53.8 | 56.28 | 42.6 | 40.95 | 52.46 | 48.77 |
| 319164 | 'Hist1h2ac' | 0 | 0.96 | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0.16 |
| 319165 | 'Hist1h2ad' | 0.23 | 0.21 | 0 | 0 | 0 | 0.35 | 3.69 | 0 | 0.39 | 0 |
| 319166 | 'Hist1h2ae' | 11.56 | 5.03 | 4.46 | 9.86 | 6.2 | 8.91 | 17.2 | 6.91 | 3.19 | 5.38 |
| 319167 | 'Hist1h2ag' | 0 | 3.16 | 0 | 0 | 0 | 3.54 | 0 | 0 | 3.58 | 0.75 |
| 319169 | 'Hist1h2ak' | 0 | 0 | 0.41 | 0 | 0 | 0 | 1.23 | 0 | 0 | 2.06 |
| 319171 | 'Hist1h2ap' | 3.2 | 5.33 | 9.1 | 32.1 | 2.09 | 18.9 | 12.2 | 2.03 | 9.32 | 4 |
| 319172 | 'Hist1h2ab' | 0 | 3.23 | 0 | 0 | 0 | 0 | 3.5 | 0.59 | 0 | 0 |
| 319173 | 'Hist1h2af' | 0 | 0 | 0 | 0.09 | 0 | 0.08 | 0 | 0 | 0 | 0.13 |
| 319176 | 'Hist2h2ac' | 0 | 2.08 | 0 | 0 | 2.01 | 0 | 0 | 0 | 0 | 1.98 |
| 319178 | 'Hist1h2bb' | 2.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 319179 | 'Hist1h2be' | 3.41 | 1 | 0.02 | 6.27 | 0 | 7.47 | 2.61 | 1.93 | 0.11 | 2.29 |
| 319181 | 'Hist1h2bg' | 0 | 7.54 | 0.49 | 0 | 4.23 | 1.8 | 9.14 | 1.2 | 0 | 4.77 |
| 319183 | 'Hist1h2bj' | 0 | 0 | 0 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0.58 |
| 319184 | 'Hist1h2bk' | 0 | 0 | 0 | 0 | 0 | 0 | 0.46 | 0 | 0 | 0 |
| 319186 | 'Hist1h2bm' | 0 | 0 | 0 | 0 | 0 | 4.09 | 0 | 0 | 0 | 0 |
| 319187 | 'Hist1h2bn' | 0 | 1.17 | 0 | 0 | 0 | 0 | 2.62 | 0 | 0 | 0 |
| 319188 | 'Hist1h2bp' | 0 | 0 | 0 | 0 | 0 | 4.7 | 0 | 0 | 0 | 0 |
| 319189 | 'Hist2h2bb' | 0 | 0.33 | 1.96 | 0 | 3.99 | 0.95 | 5.76 | 1.83 | 1.97 | 0 |
| 319190 | 'Hist2h2be' | 0 | 0 | 0 | 0 | 1.74 | 0 | 1.53 | 0 | 3.67 | 0 |
| 319191 | 'Hist1h2ai' | 1.05 | 0 | 2.4 | 7.96 | 0 | 0 | 0 | 1.12 | 0 | 6 |
| 319192 | 'Hist2h2aa2' | 0 | 0 | 5.83 | 0 | 4.76 | 0 | 0 | 0 | 0 | 6 |
| 319195 | 'Rpl17' | 167.9 | 159.5 | 221 | 237 | 106 | 193 | 147 | 139.7 | 151.2 | 171.58 |
| 319196 | 'Ankef1' | 0.16 | 4.71 | 4.31 | 0 | 2.48 | 0 | 1.35 | 0 | 5.95 | 1.74 |
| 319197 | 'Gpr4' | 0 | 0 | 0.76 | 0 | 0 | 0 | 0 | 0 | 1.24 | 1.56 |
| 319200 | 'Gpr82' | 0 | 0.64 | 0.92 | 0.01 | 0 | 0.02 | 0 | 0 | 0 | 1.12 |

| | | | | | | | | | | | |
|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 319207 | 'Pgbd1' | 1.23 | 5.29 | 0.02 | 0 | 0.59 | 0 | 0 | 2.23 | 0.59 | 1.3 |
| 319211 | 'Nol4' | 23.98 | 20.24 | 25 | 30 | 25.9 | 12.91 | 18.8 | 26.22 | 20.16 | 24 |
| 319229 | 'Sctr' | 0 | 0 | 0 | 0 | 0.29 | 0 | 0 | 0 | 0 | 0 |
| 319236 | 'Trim12c' | 0 | 0 | 1 | 0 | 0.04 | 0.06 | 0 | 0 | 0.01 | 0.02 |
| 319239 | 'Npsr1' | 0.91 | 0 | 0.08 | 0 | 0.03 | 5.54 | 11.1 | 0 | 0 | 0 |
| 319259 | 'Bricd5' | 0 | 0 | 0 | 0 | 0 | 0 | 13.8 | 0 | 0 | 0 |
| 319262 | 'Fchsd1' | 5.3 | 5.8 | 5.39 | 6.93 | 2.06 | 0.03 | 2.89 | 1.37 | 6.78 | 5.77 |
| 319263 | 'Pcmt1' | 7.53 | 14.57 | 19.3 | 11.2 | 19.6 | 4.36 | 11.1 | 12.52 | 16.84 | 10.42 |
| 319266 | 'A130010J15Rik' | 0.11 | 5.78 | 7.68 | 5.42 | 7.58 | 2.44 | 0.92 | 1.44 | 5.64 | 3.32 |
| 319277 | 'Washc4' | 19.66 | 21.7 | 22 | 63.2 | 19.6 | 16.54 | 16.4 | 11.42 | 22.01 | 12.58 |
| 319278 | 'A230050P20Rik' | 100.4 | 118 | 153 | 120 | 105 | 75.96 | 103 | 125.7 | 158.7 | 48.48 |
| 319322 | 'Sf3b2' | 123.7 | 112 | 133 | 119 | 135 | 139.2 | 101 | 121 | 179.9 | 160.74 |
| 319352 | 'Pianp' | 76.65 | 76.01 | 148 | 65.8 | 93.6 | 50.15 | 93.3 | 95.1 | 52.21 | 42.33 |
| 319370 | 'Ubal2' | 4.04 | 1.68 | 4.01 | 1.44 | 2.66 | 0.38 | 1.95 | 2.8 | 6.61 | 2.74 |
| 319387 | 'Adgr13' | 1.06 | 3.11 | 3.56 | 4.48 | 3.25 | 5.09 | 1.42 | 4.38 | 2.29 | 2.37 |
| 319415 | 'Hs3st5' | 22.43 | 10.27 | 0.18 | 19.8 | 1.2 | 0.79 | 7.72 | 4.53 | 0 | 1.07 |
| 319430 | 'C5ar2' | 0.03 | 0.03 | 0 | 0 | 0.03 | 0.03 | 0.01 | 0.03 | 0.03 | 0.12 |
| 319433 | 'Serpine3' | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 3.64 | 0 |
| 319446 | 'Dpep2' | 0.35 | 0 | 0 | 0 | 0.25 | 0 | 0 | 0.27 | 0 | 0.28 |
| 319448 | 'Fndc3a' | 10.17 | 11.34 | 11.6 | 21.3 | 13.8 | 4.98 | 10.7 | 4.52 | 22.61 | 14.71 |
| 319455 | 'Pld5' | 2.8 | 6 | 8.2 | 5.54 | 23.7 | 2.58 | 0.05 | 7.15 | 3.91 | 10.36 |
| 319468 | 'Ppm1h' | 33.39 | 13.59 | 27.6 | 16.4 | 31.8 | 35.9 | 9.23 | 33.68 | 34.45 | 17.82 |
| 319475 | 'Zfp672' | 15.66 | 4.54 | 9.38 | 3.92 | 10.2 | 5.42 | 13.8 | 11.79 | 31.25 | 11.64 |
| 319476 | 'Lrtm1' | 0.01 | 0.01 | 0.01 | 0 | 0.01 | 0.01 | 0.01 | 0 | 0.02 | 0.01 |
| 319477 | 'Insyn1' | 3.62 | 4.04 | 4.11 | 3.03 | 12.7 | 19.06 | 3.32 | 8.76 | 15.84 | 17.4 |
| 319478 | 'Cxxc4' | 4.38 | 5.82 | 4.94 | 8.08 | 3.88 | 1.45 | 5.39 | 4.76 | 4.48 | 5.6 |
| 319480 | 'Itga11' | 0 | 0.12 | 0 | 0.09 | 0.01 | 0 | 0 | 0 | 0 | 1.73 |
| 319481 | 'Wdr59' | 0.31 | 0.7 | 2.61 | 4.05 | 4.4 | 0.02 | 3.75 | 2.27 | 4.71 | 2.72 |
| 319482 | '9530053A07Rik' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 319493 | 'A430078G23Rik' | 0.84 | 0.78 | 0.57 | 1.94 | 1.02 | 0.91 | 1.24 | 0.75 | 0.96 | 1.56 |
| 319504 | 'Nrcam' | 16.22 | 7.24 | 9.73 | 10.8 | 16.4 | 4.28 | 25.2 | 16.52 | 22.23 | 23.4 |
| 319508 | 'Syt15' | 0.07 | 0.04 | 0.24 | 0.25 | 0.08 | 0.07 | 0.04 | 0.03 | 0.04 | 0.04 |
| 319513 | 'Pced1a' | 5.95 | 6.03 | 2.42 | 4.98 | 10 | 5 | 3.1 | 2.44 | 11.66 | 11.63 |
| 319518 | 'Pdpr' | 1.65 | 4.27 | 2.83 | 0.64 | 3.43 | 1.99 | 9.87 | 5.13 | 0.23 | 0.24 |
| 319520 | 'Dusp4' | 0.6 | 2.27 | 1.97 | 0 | 2.12 | 0.49 | 0.02 | 1.05 | 2.5 | 2.01 |
| 319530 | 'Zfp750' | 0 | 0 | 1.61 | 0 | 0 | 0 | 0 | 0.88 | 0.07 | 0 |
| 319535 | 'Zfp182' | 1.13 | 1.39 | 1.64 | 0.91 | 1.9 | 2.62 | 1.71 | 0.83 | 0.93 | 1.11 |
| 319552 | 'Spx' | 0 | 2.11 | 0.04 | 0 | 0.03 | 0 | 0 | 0.02 | 4.49 | 0.08 |
| 319554 | 'Idi1' | 22.88 | 10.88 | 16.9 | 12.8 | 7.98 | 4.99 | 11.2 | 20.59 | 14.35 | 11.51 |
| 319555 | 'Nwd1' | 0.01 | 1.02 | 1.98 | 1.85 | 1.44 | 0.33 | 0.03 | 1.3 | 0.33 | 0.45 |
| 319565 | 'Syne2' | 1.53 | 1.35 | 0.41 | 1.54 | 0.75 | 0.72 | 1.19 | 0.78 | 0.85 | 0.6 |
| 319582 | 'Trmt9b' | 0 | 0 | 2.28 | 13.2 | 2.02 | 2.57 | 6.77 | 3.42 | 2.61 | 3.24 |
| 319583 | 'Lig4' | 3.01 | 1.16 | 3.59 | 0 | 4.4 | 0.3 | 0 | 1.68 | 4.64 | 1.64 |
| 319586 | 'Celf5' | 7.19 | 7.18 | 7.07 | 6.89 | 8.81 | 6.58 | 5.59 | 7.09 | 10.7 | 8.31 |
| 319594 | 'Hif1an' | 0.15 | 2.05 | 1.96 | 3.33 | 2.91 | 3.17 | 1.59 | 3.18 | 7.18 | 0.29 |
| 319601 | 'Zfp653' | 4.84 | 3.77 | 0.98 | 1.95 | 2.57 | 0.03 | 3.79 | 12.65 | 2.28 | 2.72 |
| 319604 | 'Fam168a' | 10.39 | 9.59 | 13.9 | 15.9 | 22.9 | 9.9 | 30.8 | 10.71 | 5.57 | 14 |
| 319613 | 'Sybu' | 69.75 | 78.86 | 48.2 | 43.4 | 42.4 | 56.15 | 57.4 | 53.38 | 53.82 | 30.37 |
| 319615 | 'Zfp944' | 9.36 | 2.11 | 12.9 | 6.34 | 9.95 | 3.37 | 7.65 | 2.88 | 8.14 | 9.56 |
| 319618 | 'Dcp1b' | 7.09 | 5.27 | 2.6 | 14.6 | 5.34 | 0.8 | 6.25 | 8.25 | 3.5 | 6.68 |
| 319622 | 'Itpr12' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.3 | 0 | 0 |
| 319625 | 'Galm' | 0 | 0 | 0.3 | 0.06 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 319634 | 'Efcab5' | 0 | 0.11 | 0 | 1.52 | 0.57 | 0.01 | 0 | 0 | 0.37 | 0.61 |
| 319636 | 'Fsd1l' | 7.31 | 5.14 | 3.44 | 2.26 | 3.74 | 7.83 | 8.58 | 5.24 | 6.83 | 6.99 |
| 319638 | 'Nt5dc1' | 0.82 | 2.05 | 2.67 | 0 | 4.13 | 3.6 | 10.2 | 0.02 | 3.71 | 3.16 |
| 319642 | 'Rab9b' | 35.98 | 52.22 | 32.9 | 31.8 | 30.1 | 11.19 | 62.1 | 33.3 | 31.77 | 56.83 |
| 319651 | 'Usp37' | 11.59 | 7.68 | 6.71 | 17.6 | 11.8 | 5.63 | 3.34 | 8.97 | 8.49 | 5.33 |
| 319653 | 'Slc25a40' | 7.71 | 12.64 | 2.5 | 0 | 6.92 | 0.63 | 9.92 | 1.83 | 6.51 | 8.98 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 319655 | 'Podxl2' | 149.3 | 137.4 | 343 | 96.3 | 90.4 | 69 | 214 | 52.62 | 245.8 | 32.14 |
| 319660 | 'Agmo' | 3.08 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 2.77 |
| 319670 | 'Eml5' | 2.59 | 3.01 | 2.92 | 11.5 | 4.9 | 4.2 | 7.39 | 3.57 | 7.28 | 4.97 |
| 319675 | 'Cep295' | 0.72 | 1.01 | 0.72 | 2.6 | 3.46 | 1.55 | 1.23 | 1.58 | 2.43 | 1.68 |
| 319695 | 'Ankar' | 0 | 0.13 | 0.14 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 319710 | 'Frm6' | 1.76 | 5.82 | 0 | 0 | 0.54 | 0.58 | 0.01 | 0.51 | 1.61 | 5.26 |
| 319713 | 'Ablim3' | 9.25 | 7.63 | 5.19 | 10.6 | 6.12 | 0.5 | 3.72 | 6.55 | 10.7 | 16.05 |
| 319719 | 'Simc1' | 9.74 | 8.79 | 16.2 | 8.78 | 0.96 | 1.46 | 12.1 | 3.09 | 6.32 | 6.36 |
| 319734 | 'Cacna2d4' | 0.01 | 0 | 0 | 1.5 | 0.82 | 1.18 | 1.47 | 0.89 | 0 | 0 |
| 319740 | 'Zfyve27' | 17.85 | 14.4 | 15.3 | 13.8 | 12.4 | 12.09 | 15.2 | 10.35 | 21.22 | 14.71 |
| 319742 | 'Mpzl3' | 0 | 0 | 0 | 0 | 1.67 | 0 | 5.9 | 0 | 0.77 | 2.39 |
| 319748 | 'Zfp865' | 0.07 | 1.45 | 0.49 | 0 | 0.17 | 0 | 0.6 | 0.71 | 0 | 0.46 |
| 319757 | 'Smo' | 1.69 | 3.45 | 0 | 0 | 2.72 | 2.82 | 0.02 | 0 | 8.94 | 0 |
| 319758 | 'Rfx7' | 1.42 | 0.87 | 1.51 | 6.99 | 0.88 | 1.46 | 0.75 | 0.32 | 3.25 | 0.84 |
| 319765 | 'Igf2bp2' | 0.32 | 0 | 0 | 1.25 | 0.01 | 0.18 | 0.66 | 0.55 | 0 | 1.4 |
| 319767 | 'Atp10b' | 0.18 | 0.1 | 0 | 0 | 0.02 | 0.07 | 0 | 0.01 | 0.31 | 0.45 |
| 319772 | 'C130050O18Rik' | 0 | 0 | 0 | 0 | 0 | 8.19 | 0 | 1.43 | 0 | 0.19 |
| 319776 | 'Tmem72' | 0 | 0 | 0 | 0 | 3.09 | 0 | 0 | 0 | 0 | 0 |
| 319801 | 'Tigar' | 1.22 | 1.57 | 2.56 | 5.79 | 2.7 | 2.07 | 0 | 3.33 | 3.19 | 0.44 |
| 319804 | 'Glt1d1' | 3.23 | 2.38 | 1.21 | 7.54 | 1.88 | 0.74 | 8.9 | 1.75 | 6.21 | 0.64 |
| 319807 | 'Nwd2' | 0.42 | 0 | 1.21 | 0 | 1.52 | 0.16 | 2.31 | 0.09 | 0.49 | 4.73 |
| 319817 | 'Rc3h2' | 1.94 | 1.96 | 1.99 | 1.83 | 2.54 | 1.93 | 1.12 | 1.33 | 0.94 | 0.88 |
| 319822 | 'Smyd4' | 17.48 | 5.15 | 6.1 | 0.96 | 16 | 4.61 | 4.75 | 6.56 | 1.85 | 13.29 |
| 319832 | 'Tmem229a' | 1.34 | 2.74 | 0.27 | 3.88 | 0.76 | 0.65 | 0.03 | 0.99 | 0.14 | 0.13 |
| 319845 | 'Bbs9' | 11.32 | 14.36 | 15.8 | 10.9 | 4.67 | 10.36 | 5.17 | 9 | 6.69 | 10.07 |
| 319876 | 'Cobll1' | 0.03 | 0 | 1.45 | 1.66 | 0.23 | 0 | 0.32 | 0 | 0.62 | 0.63 |
| 319880 | 'Tmcc3' | 16.56 | 10.96 | 5.8 | 21.1 | 7.07 | 3.5 | 6.83 | 3.49 | 1.42 | 2.11 |
| 319885 | 'Zcchc7' | 23.47 | 21.45 | 42.6 | 39.5 | 19.1 | 22.01 | 20.1 | 12.11 | 32.62 | 19.05 |
| 319887 | 'E030030I06Rik' | 2.59 | 3.11 | 4.33 | 3.77 | 4.1 | 4.82 | 3.35 | 3.49 | 2.72 | 2.06 |
| 319888 | 'Oacyl' | 0 | 0 | 0 | 0 | 0.9 | 0 | 0 | 0 | 0.05 | 0 |
| 319899 | 'Dock6' | 1.78 | 0.02 | 7.38 | 1.4 | 1.9 | 0.84 | 0 | 2.37 | 3.51 | 2.42 |
| 319901 | 'Dsel' | 4.09 | 0.77 | 6.73 | 2.99 | 1.89 | 1.93 | 9.61 | 1.34 | 4.19 | 1.95 |
| 319909 | 'Ism1' | 0.01 | 0 | 1.03 | 6.53 | 2.99 | 0 | 0 | 0.72 | 0 | 2.08 |
| 319922 | 'Vwc2' | 0.01 | 0.02 | 1.11 | 0 | 1.05 | 5.75 | 5.28 | 4.43 | 3.37 | 0 |
| 319924 | 'Apba1' | 2.55 | 2.09 | 1.47 | 2.43 | 0.65 | 0.42 | 0.57 | 1.59 | 2.93 | 3.8 |
| 319934 | 'Sbf2' | 0.73 | 1.05 | 0.86 | 1.94 | 1.97 | 1.21 | 1.04 | 2.72 | 5.13 | 1.2 |
| 319939 | 'Tns3' | 1.32 | 0.58 | 0.7 | 0 | 0.7 | 0.18 | 0 | 0.19 | 0.62 | 0.21 |
| 319942 | 'A530016L24Rik' | 0 | 0 | 0.9 | 0 | 0.02 | 0 | 0.99 | 0 | 2.25 | 0.02 |
| 319944 | 'Taf2' | 1.26 | 0.63 | 3.15 | 5.31 | 2.35 | 0.02 | 3.05 | 2.75 | 4.51 | 1.89 |
| 319945 | 'Flad1' | 25.61 | 25.66 | 57.5 | 21.1 | 25.7 | 30.81 | 29.7 | 46.46 | 36.92 | 38.77 |
| 319953 | 'Till1' | 81.34 | 85.59 | 67.3 | 113 | 85.4 | 114.5 | 73.3 | 90.69 | 107.2 | 89.62 |
| 319955 | 'Ercc6' | 3.82 | 2.87 | 4.03 | 2.22 | 2.63 | 2.78 | 11.6 | 4.42 | 10.26 | 4.24 |
| 319965 | 'Cc2d1b' | 5.03 | 9.59 | 10.4 | 2.23 | 14.5 | 8 | 5.14 | 13.56 | 19.37 | 18.77 |
| 319974 | 'Auts2' | 4.35 | 2.25 | 2.66 | 0.17 | 2.57 | 5.54 | 1.26 | 2.56 | 6 | 1.99 |
| 319984 | 'Jph4' | 7.95 | 8.45 | 4.86 | 12.8 | 18.2 | 7.08 | 5.69 | 7.62 | 9.87 | 9.23 |
| 319991 | 'Kif6' | 0.2 | 0.92 | 0.2 | 0.99 | 2.99 | 0 | 0 | 1.73 | 0 | 0.21 |
| 319996 | 'Casc4' | 10.51 | 15.93 | 19.6 | 50.3 | 17.1 | 19.06 | 17.1 | 11.51 | 15.71 | 16.78 |
| 319998 | 'Tmem198' | 24.74 | 23.54 | 8.44 | 16.1 | 19.1 | 15.21 | 8.12 | 27.84 | 11.89 | 9.66 |
| 320007 | 'Sidt1' | 14.11 | 4.58 | 4.54 | 8.85 | 15.9 | 4.78 | 10.1 | 6.28 | 16.07 | 17.66 |
| 320011 | 'Uggt1' | 6.38 | 6.94 | 9.4 | 2.84 | 1.6 | 6.51 | 11 | 7.66 | 8.45 | 6.24 |
| 320022 | 'Terb1' | 0 | 1.47 | 0 | 0 | 0 | 0.04 | 0 | 0 | 2.19 | 0 |
| 320024 | 'Nceh1' | 24.76 | 29.83 | 34 | 12 | 28.5 | 31.3 | 40.9 | 27.63 | 40.75 | 19.89 |
| 320027 | 'Fstl4' | 14.19 | 6.66 | 5.31 | 4.35 | 0.03 | 7.26 | 9.65 | 7.08 | 14.44 | 3.09 |
| 320051 | 'Exp5' | 0.21 | 0 | 0.12 | 0 | 0.29 | 0 | 0 | 0 | 0 | 0 |
| 320078 | 'Olfml2b' | 0 | 1.95 | 0.02 | 0 | 0 | 0 | 0.34 | 2.39 | 0 | 0 |
| 320080 | 'Zbtb39' | 0 | 0 | 0.02 | 0.02 | 0 | 0 | 0 | 0 | 0.01 | 0.01 |
| 320082 | 'Fbxw21' | 0 | 0 | 0 | 0 | 0.02 | 0.02 | 0.02 | 0 | 0 | 0 |
| 320091 | 'Ano4' | 1.04 | 1.24 | 5.16 | 0 | 4.94 | 0 | 1.25 | 2.36 | 0.54 | 3.69 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 320095 | '6430550D23Rik' | 0 | 1.43 | 3.76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 320100 | 'Relt' | 35.85 | 39.61 | 19.5 | 61.8 | 23.5 | 26.55 | 11.2 | 11.33 | 48.41 | 19.07 |
| 320106 | 'Slc38a11' | 0 | 0 | 0 | 0 | 0 | 1.24 | 0 | 0 | 0 | 0.08 |
| 320111 | 'Prr18' | 2.88 | 3.48 | 0 | 0 | 8.04 | 1.81 | 2.69 | 0.23 | 0 | 3.33 |
| 320116 | 'Fndc9' | 62.13 | 75.66 | 74.2 | 201 | 37.3 | 23.9 | 22.3 | 72.82 | 48.81 | 52.83 |
| 320118 | 'Fbxl13' | 0 | 0 | 0.09 | 5.79 | 0 | 0 | 0 | 0 | 0 | 0 |
| 320119 | 'Rps6kc1' | 6.69 | 8.04 | 19 | 24.5 | 22 | 3.3 | 6.13 | 12.34 | 15.25 | 5.65 |
| 320127 | 'Dgki' | 1.33 | 1.25 | 1.09 | 0.55 | 1.38 | 0.6 | 0.1 | 0.99 | 0.7 | 0.35 |
| 320129 | 'Grk3' | 3.07 | 4.37 | 6.93 | 0.98 | 5.92 | 0.15 | 1.91 | 2.47 | 4.51 | 4.37 |
| 320135 | 'BC049715' | 0.43 | 3.98 | 3.69 | 0.17 | 0.3 | 0 | 0.97 | 0 | 0.76 | 0.04 |
| 320139 | 'Ptpn7' | 0.15 | 0.09 | 0.05 | 0.17 | 0.09 | 0.26 | 0.17 | 0.02 | 0.2 | 0.13 |
| 320145 | 'Sp8' | 0 | 0.47 | 0 | 0 | 0.87 | 0 | 0 | 0 | 0 | 0 |
| 320148 | 'B430306N03Rik' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 320150 | 'Zdhhc17' | 27.64 | 20.83 | 25 | 10.8 | 15.8 | 5.12 | 13.2 | 20.82 | 27.82 | 16.74 |
| 320158 | 'Zmat4' | 5.83 | 12.49 | 6.1 | 13.4 | 9.2 | 1.8 | 15.6 | 17.33 | 5.49 | 0.62 |
| 320159 | 'Togaram2' | 1.69 | 1.04 | 0.01 | 1.69 | 0.69 | 0 | 0 | 9.6 | 2.25 | 1.57 |
| 320162 | 'Cep95' | 0.89 | 2.22 | 4.07 | 0.91 | 2.56 | 0.18 | 3.12 | 0.15 | 4.58 | 5.48 |
| 320165 | 'Tacc1' | 12.05 | 21.43 | 13.8 | 8.42 | 13.7 | 10.39 | 11 | 19.73 | 19.11 | 18.17 |
| 320183 | 'Msr3' | 0.02 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0.01 | 0.02 | 0 |
| 320184 | 'Lrrc58' | 6.9 | 10.09 | 12.1 | 10.4 | 7.46 | 2.61 | 8.84 | 3.52 | 7.42 | 7.72 |
| 320191 | 'Hook3' | 8.99 | 10.89 | 7.53 | 3.45 | 3.75 | 14.9 | 17.6 | 8.33 | 13.66 | 10.86 |
| 320204 | 'Etfbkmt' | 40.25 | 8.57 | 9.97 | 15.6 | 1.4 | 3.84 | 3.21 | 22.76 | 14.55 | 7.32 |
| 320207 | 'Pik3r5' | 0.43 | 2.95 | 0.04 | 0.01 | 0.02 | 0.04 | 0 | 0.01 | 0.03 | 0 |
| 320208 | 'Tmem91' | 266.1 | 169.1 | 228 | 235 | 261 | 339.4 | 204 | 246.3 | 223.8 | 187.08 |
| 320209 | 'Ddx11' | 1.16 | 1.07 | 0.03 | 6.43 | 2 | 0.01 | 7.44 | 1.9 | 2.58 | 0.08 |
| 320213 | 'Senp5' | 6.75 | 8.59 | 7.57 | 0.95 | 6.7 | 4.28 | 16 | 6.49 | 1.31 | 8.79 |
| 320214 | 'Maats1' | 0.51 | 2.26 | 1.42 | 0.2 | 1.15 | 2.16 | 5.01 | 0.14 | 2.74 | 1.41 |
| 320225 | 'Catsperg1' | 3.95 | 1 | 2.1 | 1.29 | 0.84 | 4.77 | 0.23 | 1 | 0 | 1.62 |
| 320226 | 'Ccdc171' | 1.67 | 0.12 | 0 | 5.83 | 0.01 | 0.01 | 1.25 | 0 | 0.53 | 1.08 |
| 320234 | 'Ccdc66' | 7.26 | 10.3 | 5.11 | 0 | 6.88 | 14.31 | 4.98 | 17.26 | 3.63 | 10.29 |
| 320244 | 'Ttl5' | 5.98 | 5.01 | 11.1 | 9.71 | 4.8 | 7.06 | 10.1 | 9.74 | 0.34 | 7.6 |
| 320253 | 'March3' | 0.43 | 2.56 | 0.94 | 1.84 | 0.92 | 0 | 0.08 | 0.51 | 0.47 | 0.18 |
| 320256 | 'Dlec1' | 1.13 | 3.11 | 1.48 | 0 | 0.38 | 0.35 | 1.05 | 3.66 | 1.13 | 0.57 |
| 320265 | 'Fam19a1' | 5.14 | 7.21 | 8.82 | 16 | 4.93 | 20.88 | 1.19 | 7.33 | 9.68 | 20.96 |
| 320267 | 'Fubp3' | 4.62 | 5.52 | 9.31 | 2.85 | 10.1 | 2.81 | 9 | 3.9 | 3.01 | 5.36 |
| 320271 | 'Scai' | 1.64 | 5.93 | 3.27 | 4.2 | 2.4 | 9.99 | 3.63 | 3.99 | 6.12 | 3.98 |
| 320277 | 'Spef2' | 0 | 0.36 | 0 | 3.13 | 0.15 | 0 | 0 | 0 | 0 | 0.05 |
| 320292 | 'Rasgef1b' | 0.36 | 4.69 | 5.28 | 1.79 | 1.84 | 1.82 | 6.51 | 17.6 | 1.51 | 3.53 |
| 320299 | 'lqcb1' | 37.2 | 41.45 | 55.8 | 51.7 | 50.2 | 44.01 | 55.9 | 49.01 | 43.22 | 42.97 |
| 320302 | 'Glt28d2' | 0 | 2.3 | 0.02 | 3.78 | 0 | 0 | 0 | 0.51 | 0 | 0.02 |
| 320309 | '1520401A03Rik' | 0 | 0 | 0 | 0 | 0 | 2.59 | 0 | 0 | 0 | 0 |
| 320311 | 'Rnf152' | 0.55 | 1.4 | 0.39 | 0.11 | 1.43 | 0.55 | 9.78 | 0.43 | 0.84 | 3.16 |
| 320332 | 'Hist4h4' | 0 | 0 | 0 | 0 | 6.97 | 0.6 | 0 | 3.35 | 3.95 | 7.26 |
| 320333 | 'D830030K20Rik' | 10.75 | 8.21 | 9.72 | 24.9 | 19.8 | 18.38 | 5.52 | 22.67 | 15.7 | 11.7 |
| 320343 | 'Lypd6' | 1.54 | 3.37 | 0.04 | 0 | 5.98 | 5.84 | 0.01 | 9.4 | 6.37 | 6 |
| 320351 | 'Tmem251' | 11.06 | 31.58 | 44.9 | 49 | 27.7 | 25.46 | 60 | 15.17 | 38.39 | 10.31 |
| 320352 | 'Lrrc31' | 0.25 | 0.29 | 0.41 | 1.08 | 0.23 | 0.41 | 0.42 | 0.3 | 0.29 | 0.32 |
| 320354 | 'Grin1os' | 0 | 0 | 1.47 | 0 | 0.28 | 0 | 0 | 0.08 | 0.05 | 0.46 |
| 320360 | 'Ric3' | 22.51 | 20.73 | 31 | 23.5 | 12.6 | 23.05 | 22.1 | 25.6 | 35.45 | 28.86 |
| 320365 | 'Fry' | 3.36 | 2.75 | 5.75 | 6.37 | 2.48 | 5.58 | 3.31 | 2.96 | 7.66 | 5.22 |
| 320376 | 'Bcorl1' | 0 | 0.05 | 2.12 | 0 | 0.01 | 0.71 | 1.09 | 0.05 | 0 | 1.15 |
| 320394 | 'Cenpt' | 10.64 | 7.37 | 16.7 | 14.7 | 10.6 | 21.3 | 4.87 | 11.68 | 0.11 | 20.08 |
| 320398 | 'Lrig3' | 0 | 0 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0 | 0.17 |
| 320404 | 'ltpkb' | 1.31 | 2.15 | 2.76 | 0.74 | 0.52 | 0.46 | 3.11 | 3.3 | 5.51 | 2.02 |
| 320405 | 'Cadps2' | 0.79 | 4.31 | 7.35 | 6.29 | 1.28 | 19.2 | 17.6 | 6.97 | 1.61 | 2.1 |
| 320407 | 'Klri2' | 0.03 | 0 | 0.01 | 0 | 0.04 | 0.01 | 0 | 0 | 0 | 0 |
| 320415 | 'Gchfr' | 6.1 | 12.11 | 0.25 | 16.1 | 45.4 | 38.87 | 0 | 4.08 | 17.56 | 16.37 |
| 320429 | 'Trank1' | 4.59 | 3.91 | 4.95 | 9.06 | 9.98 | 6.01 | 7.51 | 6.09 | 5.13 | 7.45 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 320435 | 'Rinl' | 0 | 0 | 0 | 0.02 | 1.92 | 5.85 | 2.12 | 1.59 | 0 | 3.8 |
| 320438 | 'Alg6' | 9.99 | 6.1 | 5.37 | 2.5 | 5 | 3.97 | 5.54 | 6.93 | 1.77 | 6.5 |
| 320452 | 'P4ha3' | 1.77 | 1.62 | 0 | 7.65 | 0 | 3.23 | 0.27 | 0.04 | 0 | 1.1 |
| 320454 | 'Tmprs11g' | 0 | 0.02 | 0.02 | 0.02 | 0 | 0.02 | 0.05 | 0 | 0.01 | 0.03 |
| 320460 | 'Vwc2l' | 2.07 | 7.98 | 10.2 | 9.67 | 0 | 0.32 | 0.01 | 2.95 | 7.49 | 1.7 |
| 320472 | 'Ppm1e' | 1.87 | 0.23 | 0.01 | 2.05 | 1.51 | 1.57 | 1.84 | 0.25 | 0 | 0.46 |
| 320473 | 'Heatr5b' | 3.14 | 0.2 | 1.76 | 0 | 0.31 | 4.88 | 0.33 | 1.57 | 2.58 | 4.75 |
| 320484 | 'Rasal3' | 0 | 0 | 1.48 | 0 | 0 | 2.82 | 0 | 0.2 | 0 | 0 |
| 320487 | 'Heatr5a' | 0.1 | 0.09 | 0.51 | 0.68 | 0.74 | 0 | 0.03 | 0.56 | 1.22 | 0.04 |
| 320492 | 'A830018L16Rik' | 5.7 | 0.92 | 2.34 | 6.67 | 3.67 | 12.95 | 5.3 | 8.09 | 23.89 | 5.36 |
| 320495 | 'Ipcef1' | 4.4 | 1.58 | 1.09 | 0 | 0.45 | 1.24 | 0.02 | 0.91 | 4.37 | 0 |
| 320500 | 'Tmem215' | 27.27 | 45.16 | 14.5 | 5.92 | 10.2 | 22.71 | 12.2 | 30.21 | 5.45 | 4.67 |
| 320502 | 'Lmod3' | 0.02 | 0 | 0.05 | 0.03 | 0 | 0.02 | 0.02 | 0 | 0.37 | 0.04 |
| 320506 | 'Lmbrd2' | 2.48 | 4.19 | 3.17 | 0.04 | 4.62 | 7.18 | 2.25 | 5.53 | 2.82 | 1.22 |
| 320508 | 'Cachd1' | 0.57 | 2.08 | 5.03 | 0.64 | 0.03 | 1.12 | 6.21 | 2.14 | 0 | 2.84 |
| 320522 | 'Bhlha9' | 0 | 7.46 | 0 | 0 | 0 | 3.23 | 0.13 | 0 | 0 | 13.08 |
| 320528 | 'Vps13c' | 1.54 | 3.1 | 1.78 | 6.2 | 1.57 | 2.63 | 2.61 | 2.29 | 2.65 | 3.07 |
| 320534 | 'Tmem104' | 8.42 | 4.43 | 5.72 | 7.63 | 1.19 | 4.62 | 7.01 | 3.85 | 6.23 | 5.59 |
| 320538 | 'Ubn2' | 2.4 | 1.65 | 2.47 | 8.4 | 3.52 | 2.46 | 2.6 | 2.52 | 2.99 | 3.89 |
| 320541 | 'Slc35e2' | 3.73 | 4.78 | 7.49 | 3.19 | 6.55 | 1.81 | 3.23 | 2.05 | 3.34 | 4.55 |
| 320554 | 'Tcp11l1' | 0.31 | 0.16 | 1.12 | 2.18 | 0.45 | 1.91 | 0 | 0.02 | 3.89 | 0.47 |
| 320557 | 'Fam169a' | 6.03 | 7.93 | 11.8 | 11 | 5.78 | 1.31 | 5.53 | 5.12 | 13.15 | 5.64 |
| 320558 | 'Sycp2' | 0.04 | 0.8 | 0.05 | 2.18 | 0.16 | 0 | 0.01 | 0.02 | 0.24 | 0.03 |
| 320560 | 'Dennd5b' | 5.75 | 4.12 | 4.24 | 4.09 | 2.52 | 2.58 | 1.62 | 1.83 | 4.66 | 3.41 |
| 320563 | 'Islr2' | 2.12 | 0.94 | 2.41 | 0 | 7.48 | 3.1 | 7.29 | 3.26 | 1.83 | 2.27 |
| 320571 | 'Atp8b5' | 0.56 | 0 | 0 | 0 | 2.42 | 0.25 | 0.01 | 0.11 | 0 | 1.33 |
| 320587 | 'Tmem88b' | 1.85 | 4.83 | 1.04 | 2.7 | 10.4 | 3.93 | 1.02 | 3.41 | 0.78 | 0.89 |
| 320590 | 'Svopl' | 0 | 0.33 | 0 | 0 | 0.25 | 0 | 0.02 | 0 | 0 | 0 |
| 320595 | 'Phf8' | 2.82 | 3.13 | 5.88 | 2.07 | 0.65 | 3.1 | 0.21 | 2.5 | 3.27 | 2.18 |
| 320604 | 'Ccdc169' | 0 | 0.04 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 |
| 320609 | 'Strip2' | 6.21 | 6.66 | 2.94 | 5.59 | 0.94 | 0.02 | 0.15 | 17.62 | 0.42 | 0.4 |
| 320615 | 'Dop1a' | 4.34 | 5.09 | 4.4 | 0.01 | 3.02 | 5.22 | 2.42 | 3.79 | 4.67 | 5.22 |
| 320632 | 'Snrrp200' | 8.53 | 3.81 | 7.66 | 3.56 | 3.1 | 0.26 | 1.58 | 8.31 | 9.86 | 10.34 |
| 320633 | 'Zbtb26' | 0.01 | 0.19 | 1.18 | 2.13 | 0.61 | 1.4 | 0.62 | 0.04 | 0.43 | 0.48 |
| 320634 | 'Ocr1' | 15.77 | 6.34 | 21.6 | 6.61 | 4.26 | 0.36 | 20.3 | 13.11 | 15.32 | 10.54 |
| 320635 | 'Cyb5r2' | 0.03 | 2.35 | 0.82 | 0 | 0 | 13.24 | 0 | 0.37 | 3.82 | 1.42 |
| 320640 | 'Skint4' | 0 | 0.06 | 0.03 | 0.12 | 0.06 | 0.03 | 0.07 | 0.02 | 0.09 | 0.01 |
| 320655 | 'Pgap3' | 2.68 | 2.01 | 0.09 | 0 | 0.83 | 0.02 | 0 | 1.2 | 0 | 0 |
| 320661 | 'D5Erttd579e' | 4.54 | 2.28 | 5.71 | 7.09 | 4.31 | 5.11 | 2.21 | 2.15 | 2.01 | 3.99 |
| 320662 | 'Casc1' | 0.02 | 0 | 0 | 0 | 0.79 | 0 | 0.02 | 0.01 | 0 | 0 |
| 320664 | 'Cass4' | 0 | 0.41 | 0 | 0 | 0 | 0 | 0 | 0 | 1.4 | 0 |
| 320678 | 'Iffo1' | 3.48 | 14.59 | 23.4 | 8.74 | 16.8 | 17.66 | 15.1 | 13.34 | 7.08 | 11.62 |
| 320679 | 'Samd12' | 14.82 | 9.66 | 8.51 | 1.18 | 21.5 | 4.83 | 21.8 | 12.98 | 10 | 24.47 |
| 320683 | 'Zfp629' | 1.28 | 0.22 | 2.24 | 0 | 2.06 | 0.02 | 7.05 | 0.15 | 5.04 | 0.69 |
| 320685 | 'Dctd' | 0.62 | 3.12 | 8.09 | 0 | 3.64 | 0 | 2.83 | 1.69 | 2.06 | 0 |
| 320696 | 'Ccdc158' | 0 | 0.07 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 |
| 320701 | 'Fam19a4' | 0 | 12.71 | 10.8 | 0 | 0 | 0 | 0.02 | 0 | 0.02 | 0 |
| 320705 | 'Bend6' | 12.1 | 19.79 | 25.6 | 15.5 | 16.6 | 25.85 | 21.4 | 25.64 | 53.25 | 9.42 |
| 320706 | 'Soga1' | 1.77 | 2.05 | 1.9 | 2.88 | 0.56 | 0.8 | 0.76 | 1.36 | 0.06 | 0.62 |
| 320707 | 'Atp2b3' | 6.2 | 3.68 | 13.5 | 2.92 | 7.66 | 9.48 | 6.23 | 6.6 | 11.49 | 11.28 |
| 320709 | 'Tmem117' | 1.02 | 1.66 | 4.26 | 0 | 3.18 | 1.38 | 2.5 | 0.47 | 2.7 | 1.38 |
| 320712 | 'Abi3bp' | 0.26 | 0.02 | 0.06 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 |
| 320713 | 'Mysm1' | 4.44 | 2.61 | 5.21 | 7.35 | 15.7 | 13.64 | 1.54 | 10.96 | 7.23 | 24.12 |
| 320714 | 'Trappc11' | 13.04 | 10.82 | 12.6 | 3.32 | 9.1 | 4.59 | 14.2 | 13.13 | 26.27 | 22.43 |
| 320717 | 'Pptc7' | 8.28 | 3.23 | 4.37 | 13.5 | 11 | 5.16 | 7.95 | 6.83 | 6.47 | 5.08 |
| 320720 | 'Fastkd1' | 1.65 | 3.7 | 4.24 | 0.04 | 4 | 4.79 | 3.35 | 5.53 | 0 | 4 |
| 320722 | 'Akain1' | 1.87 | 0 | 14.2 | 0 | 1.09 | 0 | 5.03 | 1.81 | 1.47 | 4.24 |
| 320727 | 'lpo8' | 10.09 | 8.84 | 4.74 | 7.5 | 5.65 | 1.88 | 7.65 | 1.64 | 18.71 | 6.17 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 320736 | 'Vstm4' | 2.53 | 0 | 0 | 1.15 | 0 | 0 | 0 | 0 | 2.51 | 0 |
| 320747 | 'Lingo4' | 0 | 1.46 | 1.26 | 0 | 2.45 | 0 | 0.02 | 0 | 0 | 0 |
| 320752 | 'Dpy19l2' | 0.89 | 0 | 0 | 0 | 0 | 0.67 | 0 | 0.35 | 0 | 0 |
| 320772 | 'Mdga2' | 7.41 | 3.57 | 6.34 | 3.92 | 8.28 | 2.09 | 20.4 | 6.34 | 9.85 | 8.32 |
| 320782 | 'Tmem154' | 1.31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.8 | 0 |
| 320790 | 'Chd7' | 0.47 | 0.62 | 1.07 | 0.48 | 0.98 | 0.8 | 2.63 | 0.67 | 0.8 | 0.84 |
| 320795 | 'Pkn1' | 5.02 | 2.12 | 1.72 | 1.28 | 5.16 | 0.33 | 1.37 | 0 | 1.43 | 4.58 |
| 320799 | 'Zhx3' | 1.32 | 2.06 | 1.83 | 4.12 | 0.02 | 0 | 0.08 | 0.98 | 1.49 | 0 |
| 320802 | 'Ifitm10' | 29.57 | 14.67 | 47.1 | 12.5 | 26 | 23.78 | 21.9 | 30.57 | 32.23 | 11.83 |
| 320806 | 'Gfm2' | 3.71 | 12.19 | 10.3 | 9.12 | 11.3 | 7.4 | 3.14 | 7.9 | 17.27 | 6.53 |
| 320808 | 'Dcaf5' | 6.32 | 1.91 | 4.44 | 0.87 | 3.17 | 0.45 | 5.52 | 3.33 | 2.41 | 3.85 |
| 320816 | 'Ankrd16' | 24.67 | 8.34 | 17.2 | 26.6 | 13.4 | 5.7 | 12 | 17.94 | 9.82 | 8.24 |
| 320817 | 'Atad2b' | 0.75 | 0.93 | 0.3 | 1.36 | 0.27 | 0.73 | 1.84 | 0.57 | 1.06 | 0.59 |
| 320825 | 'Samd5' | 3.45 | 0.3 | 6.67 | 4.37 | 2.07 | 5.1 | 0 | 0.64 | 3.25 | 2.52 |
| 320827 | 'C530008M17Rik' | 4.42 | 4.55 | 6.38 | 0.91 | 3.95 | 2.25 | 3.64 | 2.01 | 3.68 | 6.18 |
| 320840 | 'Negr1' | 22.38 | 44.44 | 41.8 | 53 | 10.8 | 20.61 | 24.6 | 11.88 | 22.2 | 11.69 |
| 320844 | 'Amigo3' | 0 | 0.49 | 0 | 0 | 0.48 | 0.02 | 0 | 0 | 4.05 | 1.37 |
| 320858 | 'L3mbtl4' | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 320865 | 'Cdh18' | 8.01 | 6.15 | 10.5 | 2.26 | 10.1 | 3.66 | 24.5 | 7.35 | 31 | 10.67 |
| 320869 | 'Spata33' | 11.14 | 9.79 | 4.93 | 0.02 | 2.59 | 7.01 | 2.52 | 3.04 | 0 | 9.64 |
| 320873 | 'Cdh10' | 10.76 | 5.31 | 7.21 | 0.14 | 22 | 9.81 | 17.6 | 4.03 | 12.16 | 22.96 |
| 320878 | 'Mical2' | 7.75 | 7.51 | 9.34 | 11.2 | 7.27 | 5.13 | 3.86 | 6.11 | 9.65 | 12.3 |
| 320910 | 'Itgb8' | 1.29 | 0.45 | 1.51 | 0 | 2.33 | 0.12 | 1.66 | 2.1 | 0 | 2.33 |
| 320916 | 'Wscd2' | 6.07 | 7.19 | 3.56 | 3.01 | 7.71 | 5.48 | 7.72 | 12.36 | 0.59 | 2.95 |
| 320923 | 'Map7d3' | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 320924 | 'Ccbe1' | 0.01 | 0 | 0.77 | 0 | 0.74 | 0 | 0 | 0.03 | 0 | 0 |
| 320938 | 'Tnpo3' | 14.2 | 26.48 | 14.3 | 30.5 | 8.07 | 8.63 | 12.5 | 17.88 | 24.52 | 29.07 |
| 320940 | 'Atp11c' | 1.7 | 0.19 | 0.68 | 0 | 1.47 | 0 | 0.63 | 0.22 | 1.54 | 2.01 |
| 320951 | 'Pisd' | 66.16 | 83.9 | 73.9 | 79 | 97.8 | 195.6 | 127 | 92.21 | 91.16 | 90.52 |
| 320974 | 'Lrrn4' | 0 | 0.07 | 4.24 | 0 | 0 | 3.04 | 1.45 | 3.2 | 1.67 | 0.01 |
| 320981 | 'Enpp6' | 0 | 0 | 0 | 0 | 5.12 | 0 | 0 | 0 | 0 | 0 |
| 320982 | 'Arl4c' | 12.66 | 10.96 | 12.2 | 7.84 | 9.96 | 7.75 | 2.46 | 10.02 | 7.19 | 8.46 |
| 321000 | 'Lrif1' | 18.74 | 12.46 | 10 | 7.38 | 8.97 | 6.38 | 16.6 | 9.74 | 17.39 | 16.24 |
| 321003 | 'Xpnpep3' | 2.02 | 0.02 | 2.03 | 0.17 | 2.23 | 5.06 | 1.04 | 1.38 | 3.76 | 2.04 |
| 321006 | 'Dcaf1' | 2.22 | 5.03 | 6.96 | 0.58 | 3.21 | 4.58 | 6.99 | 3.18 | 4.48 | 3.03 |
| 321007 | 'Serac1' | 4.04 | 9.63 | 5.41 | 0 | 3.09 | 9.24 | 0.42 | 3.4 | 3.04 | 5.7 |
| 321008 | 'Zswim9' | 3.69 | 4.26 | 1.65 | 0.03 | 3.23 | 0 | 0 | 6.44 | 0.01 | 1.78 |
| 321019 | 'Gpr183' | 0.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 321022 | 'Cdv3' | 124.7 | 135.8 | 73.3 | 44.4 | 105 | 135.5 | 95.1 | 113 | 86.38 | 107.62 |
| 326618 | 'Tpm4' | 8.02 | 6.86 | 21.5 | 7.23 | 6.46 | 6.75 | 24.1 | 7.24 | 5.62 | 5.51 |
| 326622 | 'Upf2' | 4.77 | 2.76 | 4.01 | 7.9 | 1.65 | 3.11 | 4.89 | 3.82 | 10.56 | 7.6 |
| 327655 | 'Ppip5k1' | 11.06 | 11.17 | 14.8 | 19.7 | 9.96 | 4.82 | 11.8 | 5.5 | 15.98 | 13.31 |
| 327743 | 'Wisp3' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 |
| 327747 | 'Mettl24' | 2.66 | 1.83 | 3.51 | 0 | 7.7 | 0.9 | 0 | 0.81 | 4.08 | 1.86 |
| 327762 | 'Dna2' | 0.01 | 0 | 0.63 | 0 | 0 | 0 | 1.03 | 0.54 | 0.59 | 0.54 |
| 327766 | 'Tmem26' | 1.85 | 0.06 | 0.6 | 0 | 4.18 | 6.64 | 0.01 | 3.59 | 0.12 | 1.52 |
| 327799 | 'Usp44' | 0.28 | 0 | 0 | 0.02 | 0 | 0 | 0.43 | 0 | 0 | 0 |
| 327814 | 'Ppfia2' | 9.24 | 10.9 | 8.07 | 13.1 | 15.9 | 25.21 | 18.6 | 11.42 | 12.48 | 22.56 |
| 327826 | 'Frs2' | 2.65 | 0.65 | 6.68 | 6.58 | 0.08 | 1.22 | 0.25 | 1.17 | 6.09 | 4.96 |
| 327900 | 'Ubt2' | 0.17 | 0.78 | 5.76 | 4.03 | 2.25 | 0 | 0 | 1.62 | 0 | 2.63 |
| 327942 | 'Pigl' | 1.69 | 9.08 | 9.63 | 5.07 | 1.68 | 0 | 3.22 | 0.85 | 0.13 | 8.71 |
| 327951 | 'Cyb5d1' | 12.51 | 12.61 | 17.5 | 1.49 | 10.1 | 7.77 | 17.9 | 15.88 | 14.75 | 15.91 |
| 327954 | 'Dnah2' | 0.09 | 0 | 0.31 | 0 | 0 | 0.81 | 0 | 0.07 | 0.39 | 1.35 |
| 327956 | 'Vmo1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.96 |
| 327958 | 'Pitpnm3' | 3.33 | 1.57 | 3.38 | 0.88 | 2.21 | 2.03 | 0.15 | 0.42 | 1.28 | 2.47 |
| 327959 | 'Xaf1' | 4.88 | 2.24 | 2.29 | 9.22 | 3.82 | 3.26 | 0.54 | 0.66 | 5.82 | 4.52 |
| 327978 | 'Slfn5' | 0.97 | 2.03 | 1.52 | 3.32 | 1.56 | 1.72 | 1.02 | 0.72 | 5.75 | 1.25 |
| 327987 | 'Med13' | 1.04 | 0.68 | 1.25 | 3.25 | 1.1 | 1.7 | 0.95 | 0.23 | 0.05 | 0.55 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 327992 | 'Hsf5' | 2.17 | 0.75 | 2.13 | 1.39 | 0.77 | 0 | 3.05 | 2.6 | 2.4 | 0.99 |
| 328019 | 'Spata32' | 0 | 1.47 | 0 | 0 | 0.36 | 0 | 0.88 | 0 | 0 | 0 |
| 328035 | 'Fads6' | 0.63 | 0.35 | 2.04 | 0 | 5.68 | 2.04 | 2.44 | 4.48 | 0 | 4.02 |
| 328092 | 'Dtd2' | 33.7 | 31.85 | 33.3 | 33.7 | 41.3 | 26.83 | 31.5 | 49.53 | 37.19 | 31.85 |
| 328099 | 'Prps1l3' | 15.01 | 7.41 | 5.71 | 3.88 | 4.88 | 2.41 | 2.43 | 9.47 | 12.69 | 12.31 |
| 328108 | 'Togaram1' | 6.11 | 6.15 | 6.67 | 10.2 | 4.24 | 1.52 | 4.83 | 5.08 | 5.92 | 1.31 |
| 328110 | 'Prpf39' | 16.68 | 21.93 | 18.7 | 10.3 | 19 | 20.85 | 34.9 | 22.89 | 18.23 | 52.6 |
| 328133 | 'Slc39a9' | 9.51 | 10.67 | 17 | 5.75 | 12.4 | 8.45 | 7.14 | 8.83 | 15.52 | 18.12 |
| 328162 | 'Trmt61a' | 6.27 | 6.47 | 7.46 | 0.03 | 8.97 | 9.39 | 6.7 | 8.14 | 16.43 | 3.92 |
| 328232 | 'Gfod1' | 1.6 | 0 | 0.01 | 0.03 | 0.12 | 0 | 1.65 | 0.21 | 2.06 | 0.27 |
| 328234 | 'Rnf182' | 1.82 | 5.11 | 3.39 | 0 | 1.56 | 5.55 | 6.77 | 4.02 | 2.91 | 2.3 |
| 328258 | 'Slc25a48' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.23 |
| 328274 | 'Zfp459' | 0.09 | 0.17 | 0.91 | 0.31 | 0.37 | 0.21 | 0.29 | 0.17 | 0.12 | 1.01 |
| 328329 | 'Mast4' | 5.65 | 3.03 | 3.39 | 11.7 | 2.76 | 4.28 | 2.4 | 1.92 | 2.19 | 4.18 |
| 328330 | 'D130037M23Rik' | 0 | 0 | 0 | 0 | 0.75 | 0 | 0 | 0 | 0 | 0 |
| 328365 | 'Zmiz1' | 1.37 | 5.25 | 3.85 | 15.7 | 2.6 | 3.84 | 5.94 | 4.21 | 2.36 | 3.05 |
| 328370 | 'Rft1' | 8.11 | 2.77 | 6.15 | 6.27 | 9.33 | 0.43 | 13.7 | 7.59 | 9.59 | 4.13 |
| 328381 | 'Sh2d4b' | 0 | 0.36 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 328417 | 'Parp4' | 0.2 | 0 | 0 | 4.06 | 0.04 | 0.84 | 0.35 | 0 | 0.18 | 1.47 |
| 328424 | 'Kcnrg' | 0.87 | 2.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 328440 | 'Npm2' | 0.44 | 3.53 | 0 | 0.75 | 2.21 | 0 | 4.69 | 0.47 | 0.82 | 1.56 |
| 328561 | 'Apol10b' | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2.42 | 0 |
| 328572 | 'Ep300' | 3.11 | 2.46 | 2.79 | 0.01 | 1.84 | 2.1 | 3.05 | 1.34 | 0.91 | 1.9 |
| 328580 | 'Tubgcp6' | 1.61 | 1.42 | 3.31 | 2.17 | 2.69 | 2.49 | 1 | 2.06 | 2.65 | 1.75 |
| 328643 | 'Vwa5b2' | 6.9 | 7.38 | 15.6 | 0.97 | 13.1 | 2.22 | 3.66 | 5.78 | 4.61 | 2 |
| 328778 | 'Rab26' | 105.7 | 61.56 | 47.8 | 143 | 114 | 125.2 | 28.9 | 120 | 102 | 113.05 |
| 328779 | 'Hs3st6' | 3.53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 328783 | 'Mslnl' | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 328789 | 'Lhfp15' | 87.27 | 49.43 | 84.1 | 73.5 | 72.1 | 191.1 | 103 | 87.64 | 86.8 | 63.41 |
| 328801 | 'Zfp414' | 36.47 | 48.97 | 37.2 | 67.4 | 56.2 | 92.15 | 77.3 | 66.64 | 51.58 | 47.34 |
| 328829 | '9830107B12Rik' | 0.02 | 0.02 | 0 | 0.04 | 0.02 | 0 | 0 | 0.01 | 0 | 0 |
| 328830 | 'A530064D06Rik' | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0.08 | 0 |
| 328845 | 'Acsbg2' | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 |
| 328918 | 'Zscan30' | 2.05 | 0.23 | 1.98 | 0 | 0 | 0.96 | 0 | 2.11 | 0.41 | 0.45 |
| 328949 | 'Mcc' | 0.8 | 0.38 | 1.22 | 3.85 | 0.52 | 0.21 | 0.07 | 0.19 | 0.43 | 0.13 |
| 328967 | 'Arhgef37' | 2.13 | 1.74 | 2.86 | 3.3 | 2.11 | 1.26 | 0.92 | 0.94 | 1.36 | 1.16 |
| 328971 | 'Spink10' | 1.28 | 9.22 | 0 | 0.12 | 5.22 | 0.04 | 2.76 | 0.07 | 0 | 0.38 |
| 328977 | 'Zfp532' | 6.57 | 4.37 | 6.82 | 7.95 | 7.69 | 3.94 | 5.67 | 4.39 | 8.14 | 7.68 |
| 329002 | 'Zfp236' | 1.27 | 1.66 | 2.4 | 2.44 | 2.03 | 2.63 | 4.45 | 2.89 | 3.43 | 0.37 |
| 329003 | 'Zfp516' | 0.8 | 0.72 | 0.33 | 0 | 0.82 | 0.99 | 0.32 | 1.59 | 0.39 | 0.4 |
| 329015 | 'Atg2a' | 4.4 | 4.86 | 5.16 | 10.3 | 5.71 | 10.04 | 6.26 | 2.06 | 7.31 | 4.91 |
| 329064 | 'Pkd2l1' | 1.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 329065 | 'Scd4' | 0.16 | 0.1 | 0.11 | 0.03 | 0.22 | 0.1 | 0.05 | 0.05 | 0.08 | 0.08 |
| 329152 | 'Hecw2' | 0.16 | 0.83 | 3.41 | 0.8 | 2.24 | 0.35 | 0.33 | 0.02 | 2.19 | 1.58 |
| 329154 | 'Ankrd44' | 0.97 | 0.9 | 2.59 | 3.17 | 0.08 | 0.01 | 4.6 | 0.04 | 0.03 | 0.78 |
| 329165 | 'Abi2' | 14.31 | 13.63 | 18.1 | 10.2 | 15.2 | 9.46 | 23.7 | 9.21 | 9.34 | 15.32 |
| 329178 | 'Unc80' | 3.45 | 3.79 | 2.96 | 2.86 | 4.54 | 3.72 | 6.69 | 3.3 | 3.99 | 3.59 |
| 329251 | 'Ppp1r12b' | 5.82 | 2.29 | 4.72 | 9.7 | 2.35 | 3.17 | 1.26 | 2.68 | 1.2 | 4.54 |
| 329252 | 'Lgr6' | 0 | 3.19 | 0.49 | 0.02 | 1.91 | 5 | 0 | 0.01 | 0.01 | 0.76 |
| 329260 | 'Dennd1b' | 0.06 | 0.98 | 0.75 | 0 | 1.46 | 0.01 | 0 | 0.63 | 3.61 | 2.02 |
| 329274 | 'Fam163a' | 0 | 0 | 0 | 0 | 6.5 | 0 | 0.01 | 0 | 0 | 0.17 |
| 329324 | 'Syt14' | 1.07 | 3.29 | 2.76 | 0.69 | 2.48 | 3.86 | 0.7 | 0.88 | 1.94 | 0.83 |
| 329366 | 'Ccdc187' | 3.43 | 0.08 | 1.31 | 0 | 3.08 | 0 | 0 | 0.83 | 0 | 0.75 |
| 329375 | 'Cfap77' | 0.08 | 0.38 | 0.62 | 0 | 0 | 0 | 0 | 0 | 0 | 1.22 |
| 329384 | 'Ptrh1' | 17.97 | 1.96 | 1.23 | 13.5 | 4.2 | 10.27 | 22.3 | 12.04 | 0 | 12.17 |
| 329416 | 'Nostrin' | 0.15 | 0.05 | 0 | 0 | 0 | 6.15 | 0 | 3.63 | 1.03 | 0 |
| 329421 | 'Myo3b' | 0 | 0.01 | 0 | 0 | 0.41 | 0 | 0 | 0 | 0 | 0 |
| 329470 | 'Accs' | 3.66 | 1.52 | 4.7 | 10.7 | 1.24 | 0 | 5.51 | 2.4 | 0.89 | 0.91 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 329482 | 'Dcdc5' | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 329502 | 'Pla2g4e' | 3.01 | 1.2 | 5.12 | 1.86 | 0.14 | 4.98 | 2.88 | 6.16 | 2.35 | 6.24 |
| 329504 | 'Lcmt2' | 7.05 | 21.06 | 7.05 | 26.4 | 4.39 | 7.83 | 19 | 6 | 6.9 | 14.02 |
| 329506 | 'Ctdspl2' | 3.3 | 5.83 | 8.96 | 23.2 | 12.2 | 5.99 | 7.87 | 5.13 | 0.86 | 5.25 |
| 329509 | '1810024B03Rik' | 3.88 | 0 | 0 | 0 | 3.06 | 0 | 0.04 | 0 | 0 | 0 |
| 329540 | 'Nol4l' | 1.94 | 2.45 | 2.72 | 0.2 | 0.57 | 4.62 | 2.07 | 0.27 | 1.93 | 0.09 |
| 329554 | 'Gm826' | 0.04 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 329559 | 'Zfp335' | 3.76 | 3.02 | 3.9 | 7.55 | 5.22 | 2.2 | 7.8 | 1.33 | 4.37 | 2.24 |
| 329575 | 'Gm14325' | 2.55 | 1.81 | 3.37 | 1.18 | 2.52 | 2.05 | 0.89 | 2.69 | 1.75 | 3.5 |
| 329628 | 'Fat4' | 0.54 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 |
| 329641 | 'Sertm1' | 0.95 | 0 | 1.67 | 10.1 | 6.4 | 0 | 0 | 3.31 | 0.01 | 0 |
| 329650 | 'Med12l' | 2.25 | 3.13 | 0.98 | 1.51 | 3.18 | 2.04 | 2.74 | 1.8 | 0.45 | 0.63 |
| 329659 | 'E130311K13Rik' | 4.93 | 8.17 | 6.79 | 10.3 | 9.93 | 9.76 | 5.19 | 6.24 | 7.95 | 7.81 |
| 329679 | 'Fnip2' | 0.49 | 0.29 | 0.39 | 1.79 | 0.31 | 0.04 | 2.22 | 0.38 | 1.34 | 0.08 |
| 329693 | 'Fcr15' | 0 | 0 | 0 | 0 | 0 | 0 | 0.12 | 0.02 | 0.05 | 0 |
| 329702 | 'Dcst2' | 0 | 0 | 0 | 0 | 0.29 | 0 | 0 | 0.06 | 0 | 0 |
| 329731 | 'Fam19a3' | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 329738 | 'Aknad1' | 0 | 2.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 329739 | 'Fam102b' | 1 | 1.55 | 1.11 | 0.24 | 0.52 | 2.15 | 0.49 | 1.64 | 0.01 | 0.89 |
| 329777 | 'Pigk' | 33.71 | 31.51 | 44.1 | 29.4 | 23.1 | 32.67 | 33.6 | 40.01 | 35.81 | 58.84 |
| 329795 | 'Tmem67' | 3.71 | 13.11 | 7.5 | 13 | 15.9 | 3.26 | 9.77 | 7.95 | 1.81 | 11.52 |
| 329828 | 'Al464131' | 7.07 | 4.71 | 5.41 | 0.5 | 0.02 | 4.33 | 0 | 0.99 | 2.36 | 0.69 |
| 329831 | 'Fam166b' | 0 | 0 | 0 | 7.25 | 0 | 0 | 0 | 4.22 | 0 | 0.09 |
| 329872 | 'Frem1' | 0 | 0 | 0.75 | 0 | 1.8 | 0 | 0 | 0 | 0 | 0.05 |
| 329877 | 'Dennd4c' | 0.25 | 0.94 | 1.19 | 2.04 | 0.2 | 0 | 0 | 0.23 | 1.48 | 0.58 |
| 329908 | 'Usp24' | 1.47 | 1.04 | 2.88 | 0.57 | 2.34 | 0.75 | 2.67 | 2.95 | 0.46 | 1.94 |
| 329910 | 'Acot11' | 4.06 | 1.82 | 2.62 | 1.23 | 3.06 | 0.02 | 0.17 | 3.67 | 3.73 | 8.58 |
| 329934 | 'Foxo6' | 0 | 1.82 | 0 | 1.12 | 2.92 | 0 | 0 | 1.16 | 0 | 0 |
| 329942 | 'Csmid2' | 1.6 | 1.18 | 2.64 | 1.17 | 1.04 | 0.16 | 2.03 | 1.79 | 1.68 | 2.42 |
| 329954 | 'Catsper4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 1.06 |
| 329972 | 'Spata21' | 0.03 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 |
| 329977 | 'Fhad1' | 10.98 | 11.45 | 8.79 | 15.7 | 5.41 | 11.82 | 5.75 | 8.08 | 2.38 | 7.87 |
| 330010 | 'Till10' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.98 |
| 330050 | 'Fam185a' | 20.46 | 15.79 | 15 | 15.2 | 9.61 | 5.7 | 8.69 | 5.32 | 6.8 | 7.33 |
| 330064 | 'Slc5a6' | 18.49 | 6.18 | 29.1 | 7.62 | 8.57 | 34.73 | 3.36 | 11.02 | 27.33 | 18.79 |
| 330097 | 'Gm5108' | 0.18 | 0.19 | 0.29 | 0 | 0.6 | 0 | 0 | 0 | 0.35 | 0 |
| 330119 | 'Adamts3' | 1.71 | 1.6 | 0.85 | 1.74 | 2.01 | 1.24 | 0.01 | 0.02 | 0 | 0 |
| 330149 | 'Hfm1' | 0 | 3.1 | 0.02 | 0 | 3.06 | 0.17 | 0.7 | 2.46 | 3.52 | 0.56 |
| 330171 | 'Kctd10' | 46.24 | 71.91 | 25.6 | 40.8 | 37.3 | 50.48 | 82.8 | 42.99 | 63.44 | 41.44 |
| 330173 | '2610524H06Rik' | 48.94 | 32.58 | 39 | 71.8 | 59.3 | 147.2 | 68.1 | 54.2 | 97.92 | 76.77 |
| 330177 | 'Taok3' | 16.39 | 35.35 | 22.9 | 37.4 | 21.4 | 15.69 | 17.9 | 19.8 | 23.23 | 29.18 |
| 330188 | 'Ccadc63' | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 |
| 330189 | 'Tmem120b' | 0.66 | 5.55 | 8.47 | 0.07 | 10.6 | 4.2 | 5.78 | 10.48 | 8.34 | 2.42 |
| 330192 | 'Vps37b' | 4.1 | 15.85 | 8.51 | 16 | 5.38 | 9.63 | 2.87 | 1.43 | 6.84 | 3.93 |
| 330216 | 'Mblac1' | 15.76 | 8.8 | 2.74 | 0.93 | 4.37 | 0 | 2.46 | 4.54 | 1.98 | 4.63 |
| 330217 | 'Gal3st4' | 2.8 | 4 | 0.95 | 7.65 | 8.18 | 18.34 | 0 | 4.86 | 0.57 | 3.82 |
| 330222 | 'Sdk1' | 0.57 | 0.89 | 0.51 | 1.73 | 0.9 | 0.01 | 0 | 0.33 | 1.36 | 0.02 |
| 330228 | 'Spdye4b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.69 | 0 |
| 330230 | 'Zfp853' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.11 |
| 330260 | 'Pon2' | 10.96 | 13.74 | 3.08 | 9.84 | 7.3 | 6.12 | 24.5 | 9.38 | 6.68 | 13.26 |
| 330267 | 'Thsd7a' | 3.37 | 1.97 | 1.99 | 1.51 | 3.91 | 4.41 | 1.1 | 1.85 | 2.76 | 0.01 |
| 330286 | 'D630045J12Rik' | 1.11 | 2.16 | 2.04 | 2.07 | 2.32 | 1.25 | 3.19 | 1.26 | 1.19 | 0.53 |
| 330301 | 'Zfp786' | 2.5 | 3.74 | 0 | 0.02 | 2 | 0 | 0 | 2.54 | 0 | 0 |
| 330305 | 'Gm5111' | 0 | 0 | 0.62 | 0 | 3.97 | 4.75 | 0 | 0 | 0 | 0 |
| 330319 | 'Wipf3' | 2.88 | 1.01 | 0.05 | 0.52 | 0.44 | 1.4 | 0.01 | 0.14 | 1.5 | 0.01 |
| 330323 | 'Mindy4' | 0.02 | 7.38 | 1.37 | 0.01 | 7.82 | 5.37 | 0.06 | 4.95 | 2.16 | 3.86 |
| 330355 | 'Dnah6' | 0 | 0 | 0.03 | 0 | 0.22 | 2.02 | 0 | 0 | 0 | 0 |
| 330361 | 'Gcfc2' | 0.84 | 0 | 0.02 | 0 | 1.56 | 0 | 1.02 | 0 | 3.64 | 1.51 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 330369 | 'Fbxo41' | 1.34 | 3.63 | 1.89 | 4.46 | 3.94 | 3.91 | 0.67 | 4.22 | 2.23 | 2.68 |
| 330401 | 'Tmcc1' | 3.67 | 4.87 | 2.66 | 9.72 | 4.24 | 3.44 | 1.87 | 2.87 | 1.41 | 5.83 |
| 330406 | 'B4galnt3' | 0 | 0 | 0 | 0 | 0.49 | 0 | 0.02 | 0 | 0 | 0 |
| 330409 | 'Cecr2' | 0 | 0.52 | 0.04 | 0 | 0.29 | 0 | 0 | 0 | 0 | 0 |
| 330440 | 'Sult6b2' | 0 | 0 | 0 | 1.88 | 0 | 0 | 0 | 0 | 0 | 0 |
| 330450 | 'Far2' | 19.03 | 9.12 | 17.2 | 14 | 6.35 | 6.45 | 11 | 11.92 | 16.95 | 8.18 |
| 330460 | 'Tmem150b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.12 |
| 330463 | 'Zfp78' | 4.44 | 0.28 | 0.41 | 0.03 | 1.86 | 0.47 | 0.9 | 7.68 | 9.05 | 3.01 |
| 330474 | 'Zc3h4' | 0.71 | 0.7 | 0.42 | 0.71 | 1.37 | 0.02 | 0.74 | 0.26 | 1.36 | 0.74 |
| 330483 | 'Ceacam16' | 0.52 | 0 | 0 | 0 | 0 | 0 | 0 | 0.32 | 0 | 0 |
| 330485 | 'Tmem145' | 17.08 | 17.61 | 32.2 | 14 | 23 | 8.18 | 29.9 | 18.37 | 51.53 | 4.57 |
| 330502 | 'Zfp82' | 11.75 | 0.8 | 0.81 | 3.05 | 7.78 | 3.81 | 0 | 5.34 | 0 | 7.67 |
| 330554 | 'Fan1' | 0 | 5.94 | 1.98 | 2.38 | 1.75 | 8.78 | 2.1 | 2.08 | 0.13 | 4.75 |
| 330577 | 'Saxo2' | 5.9 | 7.49 | 0.91 | 5.46 | 3.07 | 3.72 | 0 | 2.89 | 4.93 | 3.49 |
| 330627 | 'Trim66' | 2.64 | 1.42 | 0.58 | 0 | 4.26 | 1.65 | 1.42 | 1.06 | 1.9 | 0.72 |
| 330657 | 'Prss53' | 1.19 | 0.8 | 0.36 | 0 | 0.26 | 0 | 1.48 | 0.02 | 0 | 3.67 |
| 330660 | 'Btbd16' | 1.95 | 0.33 | 0.18 | 0.39 | 0.33 | 0.11 | 0.2 | 0.13 | 0.26 | 0.1 |
| 330662 | 'Dock1' | 0.68 | 0.63 | 0.77 | 1.59 | 2 | 0.6 | 0.93 | 0.17 | 1.42 | 0.17 |
| 330671 | 'B4galnt4' | 7.36 | 4.33 | 9.01 | 10.6 | 4.79 | 9.3 | 4.42 | 7.29 | 13.01 | 4.82 |
| 330695 | 'Ctxn1' | 431.3 | 345.7 | 293 | 265 | 327 | 445.4 | 280 | 453.4 | 312.7 | 397.03 |
| 330721 | 'Nek5' | 1.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 |
| 330723 | 'Htra4' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 330788 | 'Zfp866' | 2.39 | 0.48 | 1.08 | 1.98 | 9.8 | 3.38 | 3.64 | 5.08 | 3.11 | 8.69 |
| 330790 | 'Hapln4' | 35.27 | 46.47 | 66.5 | 25.4 | 19.2 | 22.28 | 66.2 | 35.21 | 48.9 | 21.77 |
| 330812 | 'Rnf150' | 1.06 | 1.39 | 1.25 | 0.47 | 0.89 | 0.23 | 0.21 | 0.81 | 1.52 | 0.25 |
| 330814 | 'Adgrl1' | 9.81 | 10.95 | 13.5 | 18 | 17.3 | 8.98 | 13.1 | 10.98 | 17.32 | 5.01 |
| 330817 | 'Dhps' | 78.96 | 38.2 | 94.8 | 30.1 | 80.1 | 103.8 | 26.7 | 63.31 | 60.25 | 71.29 |
| 330820 | '4933402J07Rik' | 0 | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 330830 | 'Drc7' | 0.95 | 4.36 | 1.31 | 3.84 | 2.54 | 1.87 | 0 | 1.65 | 0 | 0 |
| 330836 | 'Slc7a6' | 6.96 | 10.19 | 17.5 | 8.64 | 7.95 | 2.73 | 8.25 | 15.87 | 10.76 | 15.12 |
| 330863 | 'Trim67' | 0 | 0.36 | 0.69 | 0 | 0 | 0 | 0 | 0 | 0 | 0.98 |
| 330908 | 'Opcml' | 13.42 | 20.2 | 38.6 | 21.6 | 30 | 19.67 | 22.6 | 11.7 | 13.38 | 8.34 |
| 330914 | 'Arhgap32' | 1.83 | 4.49 | 0.53 | 1.25 | 1.18 | 2.87 | 2.01 | 1.9 | 1.15 | 1.09 |
| 330921 | 'Pate2' | 0 | 0 | 0 | 0 | 2.4 | 0 | 0 | 0 | 0 | 0.98 |
| 330938 | 'Dixdc1' | 10.92 | 8.68 | 6.96 | 9.26 | 6.16 | 5.72 | 13.5 | 6.36 | 3.79 | 4.3 |
| 330941 | 'Al593442' | 36.99 | 11.81 | 11.5 | 25.1 | 30.9 | 13.51 | 14 | 21.26 | 45.52 | 29.29 |
| 330953 | 'Hcn4' | 0.22 | 1.26 | 1.25 | 0 | 1.18 | 2.12 | 0 | 0 | 0 | 0 |
| 330959 | 'Snapc5' | 35.47 | 25.85 | 24.8 | 37.7 | 29.2 | 55.31 | 42.3 | 38.24 | 61.4 | 48.15 |
| 330963 | 'Ankdd1a' | 1.88 | 2.3 | 3.81 | 4.49 | 4.69 | 5.09 | 3.84 | 2.6 | 1.03 | 2.19 |
| 330998 | 'Ankrd34c' | 3.03 | 0.9 | 4.01 | 0 | 4.48 | 1.22 | 0 | 4.74 | 0.48 | 2.24 |
| 331004 | 'Slc9a9' | 1.65 | 0 | 2.72 | 0.29 | 7.59 | 1.22 | 0 | 2.62 | 2.18 | 1.43 |
| 331026 | 'Gmppb' | 18.93 | 17.43 | 3.08 | 15.6 | 23.6 | 4.58 | 13.1 | 7.22 | 6.15 | 11.37 |
| 331046 | 'Tgm4' | 0 | 0.04 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 331063 | 'Gsdmc2' | 0 | 0 | 0.23 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 |
| 331188 | 'Zfp781' | 8.82 | 5.54 | 6.59 | 5.35 | 2.53 | 6.57 | 6.01 | 4.83 | 1.34 | 5.6 |
| 331374 | 'Dgkk' | 4.22 | 1.27 | 1.62 | 1.22 | 0.63 | 0.42 | 1.03 | 1.58 | 1.91 | 0.7 |
| 331401 | 'Thoc2' | 11.17 | 6.65 | 8.95 | 10.2 | 7.78 | 4.33 | 14.6 | 7.47 | 8.38 | 9.77 |
| 331461 | 'Il1rapl1' | 0.22 | 0.73 | 2.27 | 2.56 | 0.29 | 1.11 | 1.18 | 2.34 | 1.75 | 1.71 |
| 331474 | 'Rtl5' | 5.75 | 4.07 | 3.75 | 1.07 | 6.25 | 8.52 | 1.75 | 1.52 | 8.1 | 7.75 |
| 331487 | 'Uprt' | 0 | 0.58 | 3.61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 331524 | 'Xkrx' | 0.49 | 0.25 | 0.81 | 0.31 | 1.68 | 1.15 | 0.46 | 0.09 | 1.51 | 1.03 |
| 331532 | 'Tceal5' | 57.91 | 58.48 | 71.3 | 34.8 | 42.4 | 30.39 | 42.4 | 46.67 | 55.36 | 32.5 |
| 331623 | 'Bend3' | 0.39 | 0.02 | 0.02 | 0.17 | 0.03 | 0.03 | 0 | 0.02 | 0.73 | 1.48 |
| 332110 | 'Mapk15' | 3.18 | 0.86 | 4.95 | 5.84 | 0 | 1.52 | 0 | 3.57 | 0 | 1.72 |
| 332131 | 'Krt78' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 332175 | 'Zdhhc23' | 0.67 | 0.49 | 0.56 | 2.14 | 0.1 | 0.13 | 2.26 | 0.92 | 0 | 0.24 |
| 332221 | 'Zscan10' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 332359 | 'Tigd3' | 0.01 | 0 | 2.23 | 0.19 | 3.06 | 2.76 | 0.17 | 1.95 | 5.11 | 0 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 332396 | 'Kcnk18' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.35 |
| 332397 | 'Nanos1' | 1.06 | 1.33 | 0.68 | 1.06 | 4.18 | 3.68 | 3.64 | 1.57 | 2.42 | 3.22 |
| 332579 | 'Card9' | 0.05 | 0 | 4.14 | 0 | 1.44 | 3.75 | 0 | 3.1 | 0 | 0.28 |
| 332713 | 'Fndc11' | 4.21 | 6.05 | 4.62 | 0 | 0 | 0 | 0 | 0 | 4.84 | 3.91 |
| 332934 | 'Zmynd12' | 0.59 | 0 | 0 | 0 | 0.37 | 0.13 | 0 | 0 | 0 | 0.28 |
| 332937 | 'Tfap2e' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 333048 | 'Tmem211' | 0.01 | 0 | 0.01 | 0 | 3.14 | 0 | 0 | 0 | 0 | 0 |
| 333050 | 'Ksr2' | 1.69 | 1.47 | 3.07 | 2.1 | 0.79 | 2.1 | 1.75 | 0.85 | 2.63 | 1.23 |
| 333088 | 'Kcp' | 0 | 0 | 0.46 | 0 | 0.26 | 0.08 | 1.49 | 0.32 | 0.85 | 0.71 |
| 333182 | 'Cox6b2' | 2.93 | 0 | 3.24 | 0 | 3.58 | 18.97 | 6.15 | 0 | 3.63 | 4.7 |
| 333193 | 'Proser3' | 2.73 | 2.97 | 0.73 | 1.18 | 0.02 | 2.26 | 3.94 | 0 | 4.05 | 0.56 |
| 333315 | 'Frem3' | 0 | 1.08 | 0 | 1.87 | 0 | 0 | 0 | 1.75 | 0 | 0 |
| 333329 | 'Cngb1' | 3.91 | 2.91 | 0.97 | 0 | 3.74 | 1.35 | 0.03 | 4.05 | 3.25 | 9.04 |
| 333433 | 'Gpd1l' | 10.96 | 17.55 | 20.7 | 8.88 | 11.4 | 4.98 | 26.5 | 16.06 | 12.13 | 6.88 |
| 333605 | 'Frmprd4' | 0.51 | 0.64 | 3.32 | 1.82 | 0.51 | 2.26 | 0.31 | 1.42 | 2.85 | 0.65 |
| 333639 | 'Mamld1' | 10.36 | 9.34 | 10.6 | 10.4 | 1.75 | 0.99 | 5.89 | 1.88 | 5.09 | 6.12 |
| 333654 | 'Ppp1r13l' | 0.38 | 0.02 | 0.07 | 3.56 | 0.02 | 0 | 0.24 | 0.29 | 0 | 0.4 |
| 333669 | 'Gm5134' | 0 | 0 | 0 | 0 | 2.29 | 0 | 0 | 0 | 0 | 0 |
| 333670 | 'Gm867' | 0.32 | 0 | 0 | 0.67 | 0.36 | 0.46 | 0 | 2.92 | 0.12 | 0 |
| 333715 | 'H2-M10.2' | 0.83 | 0.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 333789 | 'N4bp2' | 5.8 | 2.79 | 2.36 | 5.31 | 0.5 | 0.01 | 1.54 | 0.97 | 1.98 | 4.71 |
| 333883 | 'Cd59b' | 2.51 | 0.44 | 1.42 | 2.56 | 0.77 | 3.4 | 0.04 | 3.29 | 0.56 | 0.94 |
| 338337 | 'Cog3' | 6.1 | 5.2 | 1.4 | 2.34 | 3.6 | 0 | 17.6 | 3.02 | 6 | 6.27 |
| 338346 | 'Gpr21' | 0 | 0.81 | 0 | 0 | 0.02 | 0 | 5.22 | 0 | 2.05 | 1.07 |
| 338348 | 'Ttc16' | 0.59 | 1.41 | 0.38 | 0 | 0 | 0 | 1.08 | 1.15 | 0 | 0 |
| 338349 | 'Cntln' | 0.43 | 1.01 | 0.12 | 5.65 | 1.47 | 0.09 | 2.96 | 0.36 | 1.57 | 1.15 |
| 338350 | 'Acad12' | 0 | 0 | 0 | 0 | 0.5 | 0 | 0 | 0 | 0.02 | 0 |
| 338351 | 'Akap17b' | 8.22 | 6.08 | 6.13 | 11.9 | 7.8 | 3.46 | 6.24 | 9.62 | 2.08 | 10.38 |
| 338352 | 'Nell1' | 76.4 | 10.24 | 40.1 | 41.6 | 16.4 | 13.38 | 10.8 | 93.88 | 101.4 | 79.97 |
| 338354 | 'Zfp780b' | 4.4 | 5.56 | 4.35 | 1.19 | 6.71 | 2.59 | 5.55 | 5.5 | 4.24 | 10.03 |
| 338355 | 'Fkbp15' | 5.24 | 2.95 | 17.9 | 2.74 | 6.46 | 0.38 | 2.14 | 2.9 | 7.19 | 4.52 |
| 338359 | 'Supv3l1' | 5.85 | 7.4 | 6.89 | 2.48 | 5.03 | 4.4 | 6.1 | 7.88 | 3.95 | 12.48 |
| 338362 | 'Ust' | 0 | 0.99 | 0.08 | 0 | 0.01 | 0 | 8.73 | 1.65 | 0.09 | 0 |
| 338363 | 'Tmem241' | 6.36 | 14.5 | 13.8 | 8.33 | 3.83 | 14.73 | 11.7 | 8.71 | 16.33 | 18.84 |
| 338364 | 'Trim65' | 0.67 | 1.15 | 3.4 | 0.18 | 0 | 4.37 | 5.92 | 0 | 0 | 0.58 |
| 338365 | 'Slc41a2' | 11.53 | 2.86 | 2.76 | 2.28 | 2.67 | 2.34 | 0.04 | 5.44 | 6.85 | 1.47 |
| 338366 | 'Mia3' | 8.53 | 11.56 | 16 | 14.5 | 13.4 | 9.21 | 8.74 | 9.06 | 11.05 | 16.57 |
| 338367 | 'Myo1d' | 0.03 | 0.03 | 0.06 | 0 | 2.68 | 1.98 | 5.4 | 1.62 | 0 | 1.28 |
| 338368 | 'Pheta2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 338369 | 'Tmem220' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.27 |
| 338370 | 'Nalcn' | 4.42 | 8.64 | 12.7 | 2.98 | 7.64 | 0.47 | 5.35 | 6.96 | 10.44 | 9.06 |
| 338371 | 'Endov' | 6.12 | 2.08 | 2.97 | 20.3 | 10.3 | 10.47 | 0.13 | 10.57 | 9.93 | 7.91 |
| 338372 | 'Map3k9' | 0.11 | 0.23 | 0.9 | 0 | 1.03 | 0.25 | 0.64 | 0.59 | 0.64 | 2.04 |
| 338403 | 'Cndp1' | 0 | 0 | 1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 338417 | 'Scgb1c1' | 0.12 | 0 | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.11 | 0 |
| 338467 | 'Morc3' | 12.35 | 11.64 | 6.24 | 2.09 | 9.31 | 1.96 | 5.83 | 7.53 | 3.04 | 9.92 |
| 338521 | 'Fa2h' | 3.08 | 7.79 | 3.9 | 0 | 4.09 | 16.83 | 7.92 | 2.85 | 2.48 | 0 |
| 338523 | 'Kdm7a' | 0.17 | 0.86 | 1 | 2.92 | 0.65 | 0.32 | 1.2 | 0.88 | 0.41 | 0.4 |
| 347710 | 'Pramel4' | 0.03 | 0 | 0.06 | 0 | 0.06 | 0 | 0 | 0.02 | 0.03 | 0 |
| 347722 | 'Agap1' | 2.11 | 5.27 | 3.26 | 5.81 | 4.23 | 4.98 | 2.55 | 2.38 | 3.26 | 4.55 |
| 353047 | 'Plekhh1' | 2.19 | 0 | 0.5 | 0 | 3.64 | 0.08 | 3.71 | 3.04 | 1.62 | 1.59 |
| 353155 | 'Gjd3' | 0 | 0.24 | 1.81 | 0 | 1.3 | 1.39 | 0 | 0.5 | 1.14 | 0 |
| 353156 | 'Egfl7' | 35.5 | 47.17 | 31.7 | 82.9 | 39.6 | 38.15 | 2.41 | 66.35 | 54.93 | 39.2 |
| 353169 | 'Slc2a12' | 0 | 1.06 | 2.78 | 0 | 0 | 0.12 | 0.07 | 1.62 | 0.01 | 0.02 |
| 353170 | 'Txlng' | 9.18 | 10.47 | 6.7 | 9.37 | 5.83 | 4.24 | 5.12 | 6.12 | 4.71 | 14.57 |
| 353172 | 'Gars' | 68.82 | 53.31 | 94.2 | 39.8 | 42.4 | 57.66 | 111 | 83.85 | 69.69 | 72.42 |
| 353187 | 'Nr1d2' | 19.07 | 8.5 | 21.6 | 14.8 | 11.2 | 2.41 | 25.5 | 5.7 | 17.06 | 12.72 |
| 353190 | 'Edc3' | 17.95 | 3.73 | 16.6 | 1.88 | 16.8 | 5.66 | 6.44 | 6.51 | 10.58 | 15.14 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 353208 | 'Zfp931' | 1.55 | 3.51 | 0.82 | 1.14 | 3.36 | 2.1 | 0.69 | 3.15 | 0.54 | 1.94 |
| 353211 | 'Prune2' | 35.18 | 21.7 | 22.4 | 48.8 | 52.7 | 37.86 | 16.4 | 37.74 | 29.97 | 50.88 |
| 353234 | 'Pcdha2' | 1.98 | 4.93 | 6.68 | 0.13 | 0.08 | 0.01 | 0 | 3.42 | 0 | 0.03 |
| 353235 | 'Pcdha8' | 0 | 0 | 2.34 | 8 | 0 | 0 | 0 | 0.31 | 0 | 0 |
| 353236 | 'Pcdhac1' | 0.6 | 2.19 | 0.02 | 0.13 | 0.51 | 0 | 0 | 0 | 0 | 0.27 |
| 353237 | 'Pcdhac2' | 1.67 | 4.95 | 2.24 | 11 | 3.76 | 5.26 | 6.53 | 2.85 | 1.71 | 0 |
| 353242 | 'Mrpl21' | 62.04 | 59.96 | 58.3 | 51.6 | 74.3 | 78.09 | 88.5 | 74.48 | 84.06 | 68.92 |
| 353258 | 'Ltv1' | 24.56 | 11.42 | 7.55 | 19.2 | 9.2 | 19.76 | 11.1 | 17.75 | 14.02 | 23.2 |
| 353282 | 'Sfmbt2' | 0.27 | 1.95 | 1.28 | 0 | 1.92 | 5.3 | 0.04 | 0.19 | 0.04 | 0.01 |
| 353287 | 'Clec18a' | 0.02 | 0 | 0.48 | 0 | 0 | 0 | 32.6 | 0 | 0 | 4.76 |
| 353310 | 'Zfp703' | 1.47 | 1.69 | 0.57 | 1.63 | 0 | 0 | 0 | 0.17 | 0 | 0 |
| 353326 | 'Rtl1' | 3.92 | 1.15 | 1.6 | 2.28 | 4.38 | 1.48 | 2.24 | 1.72 | 5.95 | 3.25 |
| 353328 | 'Muc6' | 0 | 0.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.81 |
| 353344 | 'Opn5' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0.02 | 24.95 | 22.81 |
| 353371 | 'Oxct2b' | 0.96 | 1.64 | 0 | 0 | 0.39 | 0.5 | 1.19 | 0.88 | 1.84 | 2.18 |
| 353499 | 'Tmc4' | 6.53 | 3 | 6.87 | 5.42 | 0.36 | 1.09 | 0.68 | 4.31 | 2 | 3.53 |
| 353502 | 'Hcfc1r1' | 136.5 | 125.6 | 153 | 125 | 154 | 145.2 | 92 | 83.37 | 94.6 | 119.6 |
| 360013 | 'Myo18a' | 5.15 | 5.63 | 5.35 | 6.69 | 2.51 | 3.83 | 7.6 | 1.87 | 2.37 | 4.2 |
| 360198 | 'Hist1h3a' | 0.1 | 1.93 | 0.12 | 0 | 0 | 6.14 | 0 | 0 | 0 | 0 |
| 360213 | 'Trim46' | 24.84 | 31.33 | 33.7 | 15.7 | 23.5 | 28.2 | 35.9 | 17.19 | 10.34 | 15.23 |
| 360216 | 'Zranb1' | 8.58 | 12.41 | 7.13 | 22.2 | 6.36 | 8.43 | 3.05 | 8.19 | 3.33 | 6.69 |
| 360220 | 'Speer4d' | 0 | 0 | 0 | 0 | 0 | 0.17 | 0 | 0 | 3.69 | 0 |
| 368203 | 'Gm5136' | 0 | 0 | 0 | 0 | 11.9 | 0 | 6.18 | 3.25 | 0 | 0 |
| 373864 | 'Col27a1' | 0 | 0 | 0.02 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 |
| 378430 | 'Nanos2' | 0 | 0 | 1.56 | 0 | 0 | 0 | 0 | 6.25 | 0 | 0 |
| 378431 | 'Txlnb' | 0.02 | 0 | 0.02 | 0 | 0.01 | 0.01 | 0 | 0.02 | 0.02 | 0.02 |
| 378460 | 'Pram1' | 0 | 0.04 | 0 | 0 | 0.09 | 0.02 | 0 | 0 | 0 | 0 |
| 378462 | 'Morn2' | 80.09 | 133.9 | 55.9 | 75.1 | 126 | 94.86 | 40.4 | 79.54 | 86.55 | 84.18 |
| 378700 | 'Bpifb3' | 0 | 0 | 0.03 | 0 | 0.03 | 0 | 0 | 1.54 | 0 | 0.57 |
| 378702 | 'Serf2' | 41.41 | 43.82 | 46 | 44.4 | 62.5 | 72.96 | 56.3 | 38.32 | 33.54 | 56.05 |
| 378937 | 'Lrrc24' | 45.55 | 30.2 | 47.5 | 18.7 | 44 | 27 | 58.7 | 63.24 | 28.05 | 29.08 |
| 380601 | 'Fastkd5' | 7.17 | 4.36 | 0 | 0.11 | 3.45 | 0 | 4.06 | 2.4 | 2.32 | 2.54 |
| 380608 | 'Tagap1' | 38 | 47.44 | 32 | 46.9 | 36.2 | 18.08 | 27 | 22.56 | 22.44 | 36.91 |
| 380614 | 'Intu' | 2 | 2.87 | 2.11 | 5.08 | 5.12 | 2.1 | 3.55 | 2.54 | 3.5 | 3.09 |
| 380629 | 'Heca' | 0.25 | 1.36 | 0.62 | 0 | 0 | 0.22 | 3.58 | 0.03 | 0.04 | 2.81 |
| 380654 | 'Cfap54' | 0.87 | 0.39 | 1.83 | 0.08 | 1.29 | 1.13 | 0.34 | 0.47 | 0.63 | 0.6 |
| 380660 | 'Acss3' | 3.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.24 |
| 380664 | 'Lemd3' | 0.58 | 0.61 | 2.42 | 1.96 | 0.22 | 0.83 | 0 | 0.34 | 1.45 | 1.72 |
| 380669 | 'Lin28b' | 1.21 | 0 | 0.07 | 0.04 | 0.84 | 1.96 | 2.01 | 0.72 | 3.12 | 0.74 |
| 380683 | 'Sec14l3' | 3.36 | 5.83 | 4.26 | 15.2 | 3.6 | 2.18 | 0.6 | 0.24 | 0.01 | 3.22 |
| 380684 | 'Nefh' | 1.77 | 0 | 5.62 | 13.9 | 11.8 | 1.29 | 5.14 | 1.85 | 4.04 | 3.24 |
| 380686 | 'Cnrip1' | 147.6 | 113.1 | 95.5 | 182 | 90.6 | 125.6 | 87.7 | 119.7 | 117.3 | 128.32 |
| 380694 | 'Ccnjl' | 0 | 3.47 | 1.87 | 0 | 0 | 0.02 | 0.2 | 0 | 0 | 0 |
| 380698 | 'Obscn' | 0.01 | 0 | 0.02 | 0 | 0.01 | 0.01 | 0.01 | 0 | 0.01 | 0.01 |
| 380702 | 'Shisa6' | 1.22 | 0 | 0.62 | 0 | 0.01 | 0 | 0 | 0.11 | 1.05 | 0.23 |
| 380705 | 'Tmem102' | 0 | 0 | 0 | 0 | 1.02 | 0 | 0 | 0 | 0 | 0 |
| 380711 | 'Rap1gap2' | 5.08 | 7.85 | 19.1 | 2.5 | 1.6 | 6.07 | 8.53 | 3.88 | 10.08 | 2.2 |
| 380712 | 'Tlcd2' | 0 | 1.89 | 0 | 4.45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 380713 | 'Scarf1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.18 | 0 |
| 380714 | 'Rph3al' | 2.9 | 9.21 | 1.78 | 6.89 | 7.64 | 4.39 | 5.11 | 5.09 | 0.02 | 1.1 |
| 380718 | 'Mks1' | 5.18 | 8.11 | 14.2 | 2.64 | 7.8 | 3.82 | 0.23 | 10.74 | 3.86 | 11.96 |
| 380728 | 'Kcnh4' | 1.63 | 0.46 | 0.13 | 0.18 | 0.08 | 0.02 | 0.14 | 0 | 2.1 | 0.01 |
| 380732 | 'Milr1' | 0 | 0 | 0.6 | 0 | 0.07 | 0.03 | 1.96 | 0.38 | 0.55 | 0 |
| 380752 | 'Eipr1' | 78.44 | 63.47 | 58.3 | 62.3 | 57.3 | 64.71 | 27.6 | 74.37 | 85.17 | 38.48 |
| 380753 | 'Atxn7l1' | 43.28 | 38.38 | 28.8 | 18.4 | 9.71 | 54.25 | 19 | 46.29 | 24.61 | 28.8 |
| 380755 | 'Lsmem1' | 0 | 0 | 0.93 | 8.63 | 0.04 | 6.34 | 0 | 0 | 0 | 0.07 |
| 380768 | 'Ccadc177' | 0.43 | 1.7 | 0 | 0 | 0.55 | 0.01 | 0 | 0.69 | 0 | 1.17 |
| 380773 | 'Slirp' | 209.2 | 277.5 | 271 | 295 | 231 | 351.9 | 237 | 180 | 403.8 | 201.06 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 380785 | 'Begain' | 7.81 | 12.13 | 21.2 | 30.2 | 12.3 | 18.62 | 18.8 | 11.71 | 24.92 | 9.81 |
| 380787 | 'Lbhd2' | 91.32 | 93.31 | 138 | 155 | 79.6 | 142.4 | 21.5 | 160.7 | 128.4 | 222.05 |
| 380836 | 'Mrs2' | 3.48 | 5.1 | 16 | 5.28 | 3.98 | 5.19 | 4.17 | 1.42 | 8.26 | 2.29 |
| 380840 | 'Lyrn4' | 99.42 | 109.9 | 119 | 221 | 139 | 128.8 | 149 | 90.35 | 125.5 | 127.58 |
| 380850 | 'Gm5141' | 1.82 | 1.04 | 4.64 | 0.1 | 0.05 | 0.01 | 0 | 1.89 | 4.51 | 1.64 |
| 380855 | 'Rsl1' | 0.95 | 0 | 2.64 | 0 | 0 | 7.44 | 0 | 0 | 7.8 | 0.25 |
| 380882 | 'Gm906' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 380912 | 'Zfp395' | 1.89 | 0.78 | 2.17 | 4.29 | 2.91 | 3.72 | 4.01 | 1.09 | 1.16 | 1.1 |
| 380916 | 'Lrch1' | 9.64 | 9.31 | 13 | 16.2 | 6.84 | 1.47 | 6.15 | 4.47 | 10.85 | 2.32 |
| 380918 | 'Siah3' | 0.61 | 0.78 | 5.55 | 13 | 0.17 | 0 | 0 | 0.37 | 0 | 0 |
| 380921 | 'Dgkh' | 3.56 | 3.72 | 2.34 | 5.04 | 1.28 | 1.49 | 8.2 | 2.8 | 0.61 | 1.78 |
| 380924 | 'Olfm4' | 0 | 0 | 4.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 380928 | 'Lmo7' | 0.62 | 0.65 | 0.21 | 0.01 | 0.09 | 0.02 | 0.01 | 0.07 | 0.74 | 0.01 |
| 380959 | 'Alg10b' | 5.83 | 5.74 | 1.93 | 7.08 | 3.68 | 0.46 | 6.05 | 3.62 | 11.19 | 0.35 |
| 380967 | 'Tmem106c' | 88.81 | 92.32 | 98.8 | 91.2 | 73.2 | 83.89 | 76 | 81.42 | 102.5 | 110.54 |
| 380969 | 'Nckap5l' | 1.78 | 1.67 | 2.88 | 0 | 0.03 | 1.4 | 1.96 | 0.34 | 0.8 | 2.23 |
| 380993 | 'Zfat' | 0 | 1.4 | 0.41 | 1.62 | 0 | 0.03 | 0.29 | 0.41 | 0.06 | 0.08 |
| 380997 | 'Cyp2d12' | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381022 | 'Kmt2d' | 5.12 | 4.16 | 3.55 | 2.65 | 7.55 | 1.94 | 3.93 | 4.45 | 7.27 | 6.64 |
| 381038 | 'Parl' | 31.88 | 56.65 | 44.4 | 104 | 53 | 43.86 | 18.1 | 45.88 | 56.07 | 46.55 |
| 381045 | 'Ccdc58' | 6.64 | 8.44 | 14.3 | 1.84 | 7.95 | 8.04 | 6.23 | 7.13 | 1.94 | 8.75 |
| 381058 | 'Unc93a' | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381059 | 'Gm1604b' | 10.31 | 11.36 | 13.1 | 8.06 | 22.7 | 10.34 | 11.6 | 14.8 | 3.92 | 16.64 |
| 381062 | 'Ermard' | 14.28 | 11.18 | 13.3 | 3.07 | 8.2 | 9.25 | 13.4 | 13.91 | 3.94 | 18.23 |
| 381066 | 'Zfp948' | 28.26 | 18.2 | 7.42 | 6.02 | 24.5 | 24.12 | 16.7 | 13.73 | 21.96 | 4.64 |
| 381067 | 'Zfp229' | 2.61 | 0.21 | 0.03 | 2.61 | 0.31 | 1.14 | 0 | 0.5 | 2.98 | 0.18 |
| 381072 | 'Abca17' | 0.54 | 0.15 | 0 | 0 | 0 | 0 | 0 | 0.22 | 1.58 | 0 |
| 381077 | 'Ccdc78' | 0.6 | 0.32 | 1.7 | 0.38 | 0.12 | 0.16 | 0.89 | 0.08 | 0.11 | 0.16 |
| 381085 | 'Tbc1d22b' | 1.06 | 2.6 | 3.65 | 8.56 | 2.88 | 3.86 | 2.32 | 5.8 | 5.25 | 3.54 |
| 381101 | 'Dnph1' | 4.52 | 14.26 | 8.82 | 17 | 5.36 | 0 | 12.9 | 8.26 | 5.41 | 2.59 |
| 381104 | 'Prickle4' | 5.03 | 5.54 | 5.14 | 5.57 | 5.22 | 2.65 | 1.21 | 4.81 | 1.34 | 3.69 |
| 381107 | 'Tmem232' | 0.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381110 | 'Rmdn2' | 8.73 | 4.5 | 0.74 | 14.1 | 6.98 | 2.22 | 4.48 | 2.75 | 0.01 | 2.67 |
| 381112 | 'Arhgef33' | 0.11 | 0.16 | 0.47 | 0 | 0.45 | 1.01 | 0 | 0.92 | 0.3 | 0 |
| 381113 | 'Cdkl4' | 16.2 | 19.28 | 2.25 | 40.7 | 9.77 | 10.94 | 8.55 | 5.33 | 0.03 | 8.05 |
| 381122 | 'Capn13' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.29 | 0 | 0 |
| 381126 | 'Garem1' | 2.36 | 1.09 | 0.42 | 0.86 | 1.61 | 0.66 | 0 | 0.03 | 2.75 | 1.9 |
| 381142 | 'Arl14ep1' | 0 | 0 | 0.15 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381148 | 'Prob1' | 0 | 0 | 0.75 | 0 | 0.2 | 1.72 | 0 | 0.01 | 0 | 0 |
| 381157 | 'Greb1l' | 4.69 | 1.88 | 2.55 | 0.14 | 0.62 | 0.04 | 0.21 | 1.23 | 0.04 | 0.15 |
| 381196 | 'Gm960' | 5.39 | 0.56 | 0.2 | 0 | 1.95 | 0 | 1.9 | 2.14 | 0 | 0.16 |
| 381199 | 'Tmem151a' | 36.32 | 32.69 | 33.9 | 22.7 | 21.3 | 16.29 | 19.9 | 23.78 | 22.95 | 11.6 |
| 381201 | 'Ap5b1' | 0.02 | 0 | 0 | 0 | 3.48 | 0 | 0 | 0 | 0 | 0 |
| 381204 | 'Naaladl1' | 0 | 0 | 0.19 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 |
| 381217 | 'Fam189a2' | 4.66 | 4.8 | 0 | 2.49 | 6.7 | 0.34 | 0 | 3.18 | 0.03 | 0 |
| 381218 | '4430402l18Rik' | 2.28 | 0.04 | 4.12 | 0 | 3.56 | 0 | 0.51 | 0 | 0.02 | 2.14 |
| 381229 | 'Cfap58' | 0 | 0 | 0.03 | 0 | 2.45 | 0 | 0 | 0 | 0 | 0.33 |
| 381236 | 'Lipo3' | 6.85 | 4.35 | 1.16 | 2.73 | 6.77 | 7.27 | 10.2 | 7.37 | 6.33 | 9.38 |
| 381259 | 'Tmem237' | 44.68 | 57.68 | 26.5 | 46.4 | 30.5 | 36.78 | 19.3 | 42.68 | 51.7 | 40.32 |
| 381260 | 'Gm973' | 5.94 | 1.9 | 1.3 | 17.8 | 1.47 | 3.88 | 0.14 | 4.54 | 0.28 | 0.83 |
| 381269 | 'Mreg' | 3.48 | 1.11 | 1.34 | 0 | 2.67 | 0.24 | 0.72 | 3.36 | 0.84 | 1.27 |
| 381270 | 'March4' | 0.02 | 0.86 | 1.42 | 8.14 | 1.18 | 2.14 | 4.72 | 0 | 1.87 | 6.25 |
| 381272 | 'A630095N17Rik' | 0 | 0 | 0 | 0 | 0 | 1.02 | 1.74 | 0 | 1.26 | 0 |
| 381280 | 'Hjurp' | 14.25 | 12.57 | 6.77 | 9.96 | 3.8 | 10.16 | 25.9 | 17.13 | 19.48 | 18.04 |
| 381284 | 'Crocc2' | 0 | 0.26 | 0.04 | 0 | 1.08 | 0.29 | 0 | 0 | 0 | 0.75 |
| 381290 | 'Atp2b4' | 1.98 | 3.41 | 4 | 4.16 | 3.39 | 2.3 | 2.74 | 1.83 | 0.68 | 1.26 |
| 381293 | 'Kif14' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.53 | 0 |
| 381305 | 'Rc3h1' | 3.19 | 1.34 | 1.69 | 1.38 | 1.52 | 2.04 | 0.46 | 1.1 | 1.76 | 0.29 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 381306 | 'BC055324' | 2.1 | 0.07 | 0.02 | 0 | 0.05 | 0 | 0 | 0 | 2.67 | 0 |
| 381308 | 'lfi211' | 0.06 | 0.07 | 0.18 | 0.08 | 0.12 | 0.08 | 0.1 | 0.03 | 0.09 | 0.09 |
| 381310 | 'Stum' | 0.18 | 2.04 | 3.55 | 4.09 | 0.63 | 2.67 | 1.86 | 1.68 | 0 | 0 |
| 381314 | 'lars2' | 6.76 | 5.09 | 9.32 | 2.7 | 9.73 | 0.18 | 13.2 | 5.47 | 0.02 | 3.67 |
| 381318 | 'Nsl1' | 0.42 | 0.58 | 0.71 | 0.83 | 0.51 | 0.66 | 0.39 | 0.38 | 0.54 | 0.49 |
| 381319 | 'Batf3' | 0 | 0 | 0 | 0 | 0 | 6.21 | 0 | 0 | 0 | 0 |
| 381334 | 'Gal3st2' | 0 | 1 | 0 | 8.97 | 0 | 0 | 0 | 0 | 0 | 0.18 |
| 381338 | 'Lonrf2' | 18.34 | 15.78 | 20 | 30.7 | 8.43 | 6.47 | 14.6 | 13.5 | 16.97 | 17.78 |
| 381339 | 'Tmem182' | 0.02 | 0 | 0.08 | 0.05 | 0 | 0.02 | 0 | 0 | 0.04 | 0.03 |
| 381350 | 'Spag6' | 2.93 | 0 | 0 | 0 | 0.52 | 0 | 0 | 0.03 | 0 | 0 |
| 381352 | 'Mamdc4' | 0.18 | 0 | 0 | 0 | 0 | 2.29 | 0 | 0 | 0 | 0 |
| 381353 | 'Ajm1' | 7.43 | 8.37 | 8.56 | 2.89 | 6.71 | 4.09 | 10.8 | 6.55 | 0.45 | 13.82 |
| 381356 | 'Cacfd1' | 57.87 | 71.35 | 82.3 | 46.1 | 82.3 | 73.17 | 71.9 | 59.65 | 95.47 | 74.19 |
| 381359 | 'Prdm12' | 0.46 | 0 | 0.6 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381373 | 'Sp9' | 0 | 0.07 | 0 | 0 | 0.92 | 0.16 | 0 | 0 | 0 | 0 |
| 381375 | 'Pjvk' | 0 | 3.11 | 0 | 16.4 | 0 | 0 | 0 | 1.65 | 0 | 0 |
| 381379 | 'Med19' | 13.91 | 17.28 | 17 | 11 | 29.8 | 18.7 | 29.5 | 22.29 | 19.41 | 16.33 |
| 381399 | 'Bpifb4' | 0 | 0 | 0 | 0 | 0.63 | 0 | 0 | 0 | 0 | 0 |
| 381404 | 'Pabpc11' | 0 | 0.67 | 0.45 | 0.57 | 0 | 0 | 0 | 0.16 | 0.02 | 0 |
| 381406 | 'Trp53rka' | 6.35 | 2.85 | 19 | 9.71 | 5.13 | 0 | 3.27 | 2.96 | 17.68 | 4.97 |
| 381410 | 'Zfp408' | 9.3 | 3.05 | 6.36 | 0.55 | 3.06 | 6.28 | 3.18 | 2.19 | 2.6 | 0.1 |
| 381411 | 'Accsl' | 0 | 0 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381413 | 'Gpr176' | 4.21 | 3.29 | 12.6 | 7.7 | 5.1 | 9.13 | 4.54 | 7.71 | 5.64 | 13.42 |
| 381418 | 'Ctxn2' | 128.9 | 107.7 | 151 | 71.7 | 193 | 264.9 | 246 | 157.5 | 188.8 | 145.07 |
| 381438 | 'Gm5148' | 17.95 | 21.73 | 7.35 | 9.71 | 20.9 | 0.86 | 12.4 | 19.42 | 7.76 | 11.18 |
| 381463 | 'Nr1h5' | 0 | 0.05 | 0.02 | 0.04 | 0.06 | 0.03 | 0 | 0.03 | 0 | 0 |
| 381489 | 'Rxfp1' | 2.56 | 0 | 0 | 0.25 | 0 | 0 | 0 | 0.98 | 0 | 12.73 |
| 381510 | 'Dpy19I4' | 3.04 | 3.02 | 2.76 | 7.3 | 0.53 | 2.02 | 3.94 | 1.36 | 0.16 | 1.66 |
| 381511 | 'Pdp1' | 11.63 | 11.31 | 7.93 | 8.81 | 13.2 | 7.79 | 8.65 | 18.24 | 18.33 | 5.57 |
| 381522 | 'Ccdc180' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 381534 | 'Ube2u' | 0 | 0.42 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381538 | 'Mroh7' | 1.4 | 1.17 | 0.47 | 3.35 | 0.01 | 0 | 1.71 | 0.82 | 0.87 | 0.29 |
| 381544 | 'Armh1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.48 | 0 | 0 |
| 381546 | 'Ccdc24' | 0 | 0 | 0 | 7.87 | 0 | 0 | 0 | 0 | 0 | 3.5 |
| 381549 | 'Zfp69' | 0.6 | 0 | 0 | 0 | 0.48 | 0 | 0 | 0 | 0 | 0.97 |
| 381560 | 'Xkr8' | 1.08 | 2.56 | 2.25 | 0 | 5.37 | 3.85 | 8.05 | 4.28 | 0.02 | 6.03 |
| 381582 | 'Tmem240' | 7.16 | 2.1 | 14.6 | 0.16 | 20.9 | 7.83 | 9.53 | 6.4 | 14.1 | 5.26 |
| 381591 | 'L1td1' | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381605 | 'Tbc1d2' | 1.72 | 0 | 0 | 0 | 0.34 | 0 | 0 | 0 | 5.56 | 1.28 |
| 381622 | '5031410I06Rik' | 0 | 0 | 0.13 | 0 | 0.02 | 0 | 0.02 | 0.13 | 0.17 | 0.02 |
| 381626 | 'Rbm33' | 0.17 | 1.01 | 0.05 | 4.84 | 1.12 | 3 | 1.97 | 0.52 | 4.19 | 0.75 |
| 381628 | 'Adgrf3' | 0.34 | 0 | 0 | 1.57 | 0 | 0 | 2.46 | 0 | 0.41 | 0 |
| 381629 | 'Atraid' | 192.6 | 286.9 | 245 | 375 | 245 | 298.5 | 220 | 282 | 317.3 | 321.62 |
| 381633 | 'Gm1673' | 253.4 | 276.3 | 214 | 328 | 181 | 309 | 303 | 171.3 | 434.4 | 290.65 |
| 381634 | 'Gm1043' | 1.47 | 0.8 | 0.63 | 3.09 | 3.04 | 1.44 | 1.75 | 0.63 | 0.35 | 1.59 |
| 381644 | 'Cep135' | 1.38 | 0.85 | 1.11 | 2.16 | 2.07 | 0.76 | 1.8 | 0.6 | 0.45 | 2.01 |
| 381651 | 'Odaph' | 0 | 1.94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381668 | 'Fbrsl1' | 3.5 | 0.67 | 1.33 | 11.8 | 1.38 | 3.7 | 4.7 | 0.56 | 6.81 | 0.41 |
| 381673 | 'A330070K13Rik' | 0.98 | 0 | 0 | 0 | 0 | 0.55 | 0 | 0 | 0 | 0 |
| 381677 | 'Vgf' | 33.16 | 69.68 | 36.6 | 9.94 | 13.3 | 41.99 | 10.7 | 38.11 | 83.11 | 34.85 |
| 381678 | 'Zcwpw1' | 0 | 4.44 | 0.98 | 0.04 | 1.29 | 9.15 | 0 | 2.33 | 3.64 | 5.59 |
| 381693 | 'Wdr95' | 3.61 | 0.31 | 0.31 | 0.05 | 0 | 0.18 | 0.68 | 0.82 | 0 | 0.93 |
| 381694 | 'B3glct' | 1.42 | 0.66 | 2.46 | 0.01 | 1.65 | 0.18 | 2.07 | 1.57 | 0.99 | 1.52 |
| 381695 | 'N4bp2l2' | 7.26 | 8.53 | 9.22 | 12.7 | 8.79 | 10.39 | 9.68 | 6.4 | 6.07 | 14.64 |
| 381714 | 'Gm9758' | 0.22 | 0.27 | 0 | 0 | 0 | 0.54 | 0.17 | 0.09 | 0.14 | 0 |
| 381716 | '1700015F17Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.39 | 0 | 0 |
| 381738 | 'Drc1' | 21.4 | 14.58 | 20.6 | 25 | 11.9 | 19.95 | 22.4 | 12.99 | 9.34 | 13.51 |
| 381741 | 'Lrrc43' | 0 | 4.51 | 0 | 0 | 2.84 | 1.53 | 0 | 5.4 | 2.07 | 4.78 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 381759 | 'Wee2' | 0.13 | 0 | 0 | 0 | 0.24 | 0 | 0 | 0 | 0.02 | 0.79 |
| 381760 | 'Ssbp1' | 38.75 | 28.72 | 36 | 40.6 | 52.8 | 47.35 | 16.8 | 55.02 | 80.57 | 51.81 |
| 381798 | '4930590J08Rik' | 0 | 0.61 | 0.02 | 0.27 | 0 | 0 | 0 | 0 | 0.09 | 0 |
| 381801 | 'Tatdn2' | 0 | 0.99 | 0 | 0.17 | 0.02 | 0.87 | 0 | 0 | 0 | 0 |
| 381802 | 'Tsen2' | 8.72 | 5.18 | 13.6 | 9.02 | 10.1 | 0 | 33.7 | 19.24 | 9.71 | 31.12 |
| 381810 | 'Lpar5' | 0 | 0 | 0 | 0 | 0 | 0 | 2.05 | 0 | 0 | 0 |
| 381812 | 'Cracr2a' | 0.34 | 2.24 | 0.85 | 0.66 | 0.22 | 0.12 | 0.09 | 3.08 | 0.6 | 0.13 |
| 381813 | 'Prmt8' | 3.92 | 0 | 4.2 | 2.7 | 15 | 10.88 | 3.53 | 12.84 | 10.63 | 1.42 |
| 381820 | 'Smim10l1' | 61.95 | 101.7 | 58.2 | 61.5 | 117 | 43.1 | 61.8 | 62.82 | 57.75 | 61.65 |
| 381823 | 'Apold1' | 2.41 | 0.98 | 0 | 0 | 1.5 | 9.64 | 2.29 | 1.8 | 6.51 | 7.84 |
| 381835 | 'Sbk3' | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381838 | 'Vmn2r43' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 381845 | 'Rnf225' | 0.01 | 0.01 | 0 | 0.03 | 0.03 | 0.03 | 0 | 0.01 | 0.46 | 0 |
| 381853 | 'Gipr' | 0.95 | 0.28 | 0.87 | 0.3 | 0.12 | 0.08 | 0.12 | 0.03 | 1.03 | 0.11 |
| 381884 | 'Slc6a16' | 6.72 | 3.24 | 2.9 | 1.8 | 4.9 | 6.87 | 2.05 | 5.36 | 3.78 | 10.46 |
| 381903 | 'Alg8' | 18.62 | 1.8 | 19.1 | 16.2 | 18.1 | 6.7 | 0.06 | 6.57 | 8.27 | 12.07 |
| 381914 | 'B230311B06Rik' | 3.18 | 0 | 5.93 | 0 | 0 | 3.62 | 0.5 | 0 | 0 | 0 |
| 381917 | 'Dnah3' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 381921 | 'Taok2' | 7.54 | 6.06 | 9.79 | 4.45 | 5.78 | 5.13 | 1.27 | 8.95 | 1.75 | 11.23 |
| 381925 | 'Plpp4' | 5.49 | 0 | 9.44 | 0 | 20.5 | 46.69 | 22.2 | 1.95 | 7.7 | 9.85 |
| 381933 | '6430531B16Rik' | 0.15 | 0 | 2.34 | 0 | 0 | 0 | 0 | 0.09 | 0.39 | 0.1 |
| 381979 | 'Brsk1' | 1.33 | 0.04 | 0.02 | 0.06 | 0 | 0.03 | 4.12 | 0.12 | 0.37 | 0.27 |
| 381983 | 'Lmtk3' | 0.27 | 0.06 | 0.34 | 0.6 | 0.49 | 0.07 | 0.05 | 0.16 | 0.1 | 0.14 |
| 381990 | 'Zbtb2' | 3.2 | 0.03 | 7.18 | 7.36 | 0.9 | 3.32 | 0.02 | 7.2 | 0.27 | 0.31 |
| 381994 | 'E030018B13Rik' | 0 | 0.2 | 0 | 0 | 0.55 | 0 | 0 | 0 | 0 | 0 |
| 382010 | 'Cep44' | 4.78 | 3.2 | 2.38 | 0.82 | 4.66 | 6.09 | 14.3 | 3.42 | 1.5 | 10 |
| 382014 | 'Ano8' | 0 | 0 | 0 | 0 | 0.2 | 0 | 0.11 | 0.05 | 0.02 | 0.01 |
| 382018 | 'Unc13a' | 1.54 | 4.5 | 4.71 | 1.63 | 5.1 | 1.79 | 6.89 | 4.06 | 9.53 | 11.28 |
| 382019 | 'Zfp882' | 2.71 | 0.78 | 0.04 | 0.1 | 4.38 | 0.07 | 0.67 | 1.22 | 0.04 | 3.73 |
| 382030 | 'Cnep1r1' | 17.56 | 33.82 | 18.1 | 16.2 | 55.5 | 8.97 | 39.8 | 22.26 | 12 | 19.38 |
| 382034 | 'Gse1' | 7.71 | 2.18 | 5.59 | 7.66 | 6.43 | 5.09 | 4.15 | 1.36 | 0.39 | 1.28 |
| 382038 | 'Urb2' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 |
| 382051 | 'Pdp2' | 8.37 | 6.14 | 6.64 | 22.8 | 13.5 | 5.55 | 6.13 | 10.17 | 8.48 | 7.3 |
| 382056 | 'Crtc1' | 11.21 | 26.54 | 25.1 | 13.3 | 20.4 | 16.62 | 38.9 | 27.2 | 32.1 | 37.21 |
| 382066 | 'Prdm10' | 0.57 | 1.69 | 1.33 | 0.01 | 0.98 | 1.25 | 0.55 | 0.65 | 1.87 | 1.37 |
| 382073 | 'Ccdc84' | 18.4 | 14.26 | 40.3 | 19.6 | 13 | 9.14 | 11.4 | 29.52 | 13.32 | 10.42 |
| 382074 | 'Foxr1' | 0.13 | 0.25 | 0.09 | 0.07 | 0.15 | 0.03 | 0.09 | 0.03 | 0.08 | 0.05 |
| 382075 | 'Odf3l1' | 0 | 0 | 0.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 382077 | 'Ccdc33' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 382083 | 'Snx22' | 0.53 | 0.06 | 6 | 9.08 | 13.1 | 4.56 | 12.4 | 7.72 | 0.96 | 1.58 |
| 382089 | 'Ripply2' | 5.57 | 9.99 | 2.04 | 4.51 | 12.3 | 10.13 | 10.3 | 16.99 | 8.69 | 10.87 |
| 382090 | 'Cep162' | 8.45 | 4.8 | 4.69 | 1.25 | 11.9 | 3.3 | 5.08 | 3.79 | 4.16 | 9.66 |
| 382097 | 'Gm1123' | 0.03 | 19.61 | 0 | 0 | 0.04 | 0.17 | 0 | 0 | 0 | 0 |
| 382111 | 'Susd5' | 1.89 | 0 | 11.4 | 0 | 0.05 | 0 | 26.5 | 0 | 0 | 0.01 |
| 382113 | 'Slc22a14' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 382117 | 'Tcaim' | 3.55 | 4.92 | 8.66 | 1.35 | 1.69 | 5.16 | 9.91 | 9.58 | 6.67 | 8.43 |
| 382118 | 'Zkscan7' | 0.97 | 0.23 | 3.28 | 0.06 | 0.33 | 0.01 | 0.25 | 0.56 | 0.17 | 0.16 |
| 382137 | 'Fdxacb1' | 2.21 | 4.6 | 1.29 | 4.04 | 10.4 | 3.56 | 5.32 | 3.07 | 9.34 | 8.09 |
| 382206 | 'Ssx9' | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 1.29 | 0 |
| 382207 | 'Jade3' | 2.66 | 0.34 | 0.1 | 0.02 | 0 | 0 | 0 | 1.59 | 1.47 | 0.35 |
| 382236 | 'Brwd3' | 0.09 | 0 | 0.75 | 0 | 0.4 | 0.01 | 0.01 | 0 | 1.03 | 0.85 |
| 382244 | 'Gm15091' | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 382245 | 'Tmem29' | 39.96 | 54.15 | 34.4 | 66.6 | 39.3 | 41.77 | 59.8 | 65.21 | 32.68 | 80.44 |
| 382252 | 'Bclaf3' | 5.03 | 8.92 | 0.86 | 6.61 | 8.07 | 6.82 | 4.43 | 3.26 | 9.77 | 8.19 |
| 382253 | 'Cdkl5' | 4.29 | 0.2 | 2.62 | 6.85 | 0.11 | 0 | 0.17 | 3.09 | 0 | 4.34 |
| 382265 | 'Cldn34c3' | 0.4 | 0.09 | 0 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0.52 |
| 382384 | 'Odf3l2' | 0 | 0 | 0 | 0 | 2.74 | 5.25 | 0 | 6.67 | 4.97 | 2.8 |
| 382395 | 'Gm5174' | 3.17 | 3.22 | 3.24 | 0.95 | 0.24 | 0 | 2.41 | 3.89 | 0.04 | 3.25 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 382406 | 'Poc1b' | 1.47 | 0.26 | 0 | 9.37 | 1.07 | 1.71 | 0.21 | 0 | 0 | 1.63 |
| 382423 | 'Atxn7l3b' | 48.82 | 73.82 | 62.2 | 52 | 70.2 | 74.58 | 66.8 | 76.73 | 77.19 | 58.79 |
| 382427 | 'Best3' | 0 | 0.02 | 0 | 0 | 1.19 | 0 | 0 | 0 | 0 | 1.35 |
| 382523 | 'Gm12260' | 0 | 0 | 2.43 | 0 | 0 | 0 | 0 | 0 | 0 | 2.26 |
| 382543 | 'Ankfn1' | 0.04 | 1.19 | 4.28 | 0.99 | 0.48 | 0 | 3.56 | 0.52 | 0 | 0.05 |
| 382562 | 'Pfn4' | 10.53 | 7.25 | 8.02 | 40.3 | 2.22 | 3.38 | 5.2 | 11.19 | 0.92 | 5.1 |
| 382571 | 'Kcnf1' | 9.33 | 14.04 | 3.86 | 9.23 | 7.71 | 1.75 | 2.23 | 7.23 | 9.51 | 6.67 |
| 382620 | 'Tmed8' | 0.36 | 0.81 | 0.25 | 0.75 | 0.45 | 0.28 | 2.51 | 0.45 | 0.18 | 2.98 |
| 382639 | 'Zbtb42' | 0 | 0 | 0.01 | 0.93 | 0 | 0 | 0 | 0 | 0 | 0 |
| 382793 | 'Mtx3' | 3.12 | 2.67 | 0.91 | 0 | 5.62 | 0.1 | 5.86 | 0.31 | 2.39 | 1.05 |
| 382864 | 'Colq' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0.02 |
| 382867 | 'Zfp488' | 47.09 | 52.61 | 77.2 | 80.1 | 83.4 | 62.88 | 65.5 | 44.01 | 88.32 | 61.34 |
| 382913 | 'Neil2' | 0.52 | 0.06 | 0.41 | 0 | 2.85 | 0.05 | 0.01 | 1.55 | 2.58 | 0.55 |
| 382985 | 'Rrm2b' | 3.58 | 8.48 | 14 | 6.25 | 9.26 | 5.94 | 8.21 | 5.12 | 5.32 | 10.41 |
| 383103 | 'Typ23a' | 20.08 | 12.51 | 21.1 | 4.95 | 12.3 | 16.18 | 25.8 | 18.03 | 9.05 | 8.16 |
| 383295 | 'Ypel5' | 97.3 | 113.1 | 101 | 109 | 93.4 | 109.5 | 88.7 | 121.7 | 97.63 | 125.9 |
| 383348 | 'Kctd16' | 9.76 | 8.66 | 2.53 | 0 | 20.6 | 15.39 | 13.1 | 22.13 | 4.13 | 0 |
| 383563 | 'Gpr25' | 0.11 | 0.1 | 0.17 | 0 | 0.3 | 1.94 | 0.18 | 0.1 | 0.42 | 0.17 |
| 383592 | 'Kif28' | 0 | 0 | 0 | 1.18 | 0 | 0 | 0 | 0 | 0 | 0 |
| 383619 | 'Aim2' | 0.3 | 0.28 | 0.79 | 0.37 | 0.78 | 2.33 | 4.82 | 0.41 | 0.34 | 1.46 |
| 383678 | 'Obp2b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.62 |
| 383766 | 'Tlhc2' | 0.03 | 1.82 | 0.04 | 0.09 | 0.1 | 0.08 | 0.55 | 0.04 | 0.07 | 0.02 |
| 383787 | 'Ankrd63' | 0 | 0 | 0 | 0 | 0.24 | 0 | 0 | 0.01 | 0 | 0 |
| 384009 | 'Glipr2' | 3.23 | 2.19 | 0 | 0 | 2.86 | 0.02 | 5.11 | 0 | 0 | 0 |
| 384061 | 'Fndc5' | 2.86 | 4.86 | 5.09 | 0 | 6.01 | 5.97 | 4.89 | 3.87 | 7.36 | 6.09 |
| 384071 | 'Slc25a34' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.31 |
| 384185 | 'Arl9' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.43 |
| 384198 | 'Fam47e' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.76 | 0 |
| 384214 | 'Ephx4' | 8.74 | 6.09 | 8.21 | 10.6 | 1.23 | 4.97 | 0 | 0.11 | 0.72 | 4.74 |
| 384281 | 'Gatc' | 32.98 | 34.45 | 26.4 | 21.8 | 43.5 | 36.79 | 53.9 | 33.15 | 26.33 | 27.97 |
| 384309 | 'Trim56' | 3.23 | 0.38 | 0.57 | 0.65 | 0.54 | 0.36 | 0.49 | 0.05 | 0.16 | 0.65 |
| 384534 | 'Vmn2r52' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 384569 | 'Nova2' | 2.09 | 1.41 | 2.41 | 1.47 | 1.02 | 2.54 | 0.7 | 1.17 | 0.16 | 1.85 |
| 384605 | 'Wdr88' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0.14 | 0 | 0 |
| 384619 | 'Ccdc155' | 0 | 0.37 | 0 | 0 | 5.95 | 0.23 | 0 | 0.17 | 0 | 0 |
| 384701 | 'Usp17ld' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 384724 | 'Cyp2t4' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 384763 | 'Zfp667' | 6.6 | 7.57 | 4.56 | 19.9 | 6.93 | 6.41 | 4.02 | 15.82 | 11.12 | 7.03 |
| 384783 | 'Irs2' | 5.73 | 13.25 | 9.83 | 12.1 | 1.95 | 7.48 | 3.3 | 5.65 | 0.81 | 7.5 |
| 384806 | 'Adam20' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 385024 | 'Gm5373' | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 385312 | 'Ssxb10' | 0 | 0 | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0.07 |
| 385354 | 'Frmf7' | 0 | 0 | 0 | 0 | 0 | 0 | 1.67 | 0 | 0 | 0 |
| 385377 | 'Pnma5' | 0.06 | 0.02 | 0 | 0.02 | 0.02 | 0.31 | 0 | 0.09 | 0.32 | 0.13 |
| 385658 | 'Nxpe3' | 5 | 4.75 | 2.11 | 0.6 | 0.33 | 6.23 | 2.82 | 4.55 | 5.37 | 2.41 |
| 385668 | 'Lca5l' | 1.02 | 0.05 | 2.42 | 0.6 | 1.08 | 2.09 | 0 | 0.25 | 0.98 | 0.32 |
| 385674 | 'Zfp174' | 3.84 | 0.22 | 0.16 | 0 | 1.3 | 0.01 | 0 | 0.41 | 0.01 | 0 |
| 386454 | 'Rnf39' | 0 | 0.03 | 0.44 | 0 | 1.28 | 0 | 0.04 | 0.79 | 1.99 | 0 |
| 386612 | 'Thoc6' | 3.38 | 13.17 | 3.45 | 15.9 | 26.2 | 21.85 | 9.83 | 17.46 | 17.32 | 15.66 |
| 386649 | 'Nsfl1c' | 176.5 | 163.6 | 184 | 259 | 150 | 196.3 | 169 | 155.8 | 181 | 185.48 |
| 386655 | 'Eid2' | 6.05 | 2.85 | 6.44 | 7.51 | 3.59 | 1.85 | 1.07 | 10.3 | 7.6 | 4.84 |
| 386750 | 'Slitrk3' | 13.57 | 6.11 | 11.3 | 6.75 | 5.98 | 2.56 | 6.59 | 1.98 | 8.55 | 0.89 |
| 386753 | 'Dbpht2' | 41.21 | 72.72 | 34.4 | 107 | 67.7 | 14.74 | 29.3 | 23.38 | 15.07 | 27.99 |
| 387285 | 'Hctr2' | 2.34 | 7.42 | 3.64 | 4.32 | 2.67 | 2.27 | 4.34 | 4.12 | 14.95 | 2.14 |
| 387314 | 'Tmtc1' | 3.58 | 3 | 1.49 | 1.21 | 3.43 | 0.19 | 1.85 | 3.39 | 0.64 | 2.61 |
| 387510 | 'Ifnk' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 |
| 387524 | 'Znrf2' | 0.02 | 2.1 | 2.01 | 0.09 | 0.02 | 0.71 | 1.35 | 1.05 | 0 | 0.36 |
| 387586 | 'Ssxb5' | 0.08 | 0 | 0 | 0 | 0.43 | 0 | 0 | 0 | 0 | 0.13 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 432486 | 'Gnptab' | 7.25 | 1.89 | 2.54 | 2.89 | 2.65 | 0.17 | 0.02 | 1.91 | 8.35 | 3.64 |
| 432508 | 'Cpsf6' | 5.42 | 13.58 | 8.48 | 11.1 | 11.4 | 4.66 | 9.75 | 5.44 | 7.46 | 9.83 |
| 432516 | 'Myo1a' | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 432530 | 'Adcy1' | 0.58 | 1.89 | 1.72 | 0.39 | 0.5 | 0.26 | 1.21 | 0.67 | 0 | 0.03 |
| 432552 | 'Fam71b' | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 432555 | 'Gm5431' | 0.23 | 0.13 | 0.08 | 0.28 | 0.13 | 0.31 | 0.02 | 0.01 | 0.59 | 0.06 |
| 432572 | 'Specc1' | 12.63 | 6.22 | 2.63 | 3.41 | 7.78 | 3.41 | 6.52 | 5.97 | 4.03 | 5.33 |
| 432582 | 'Ccdc92b' | 0 | 1.24 | 0.79 | 0 | 4.1 | 0 | 0 | 3.1 | 2.66 | 0 |
| 432611 | 'Dnaic2' | 2.94 | 2.47 | 2.91 | 4.9 | 1.19 | 8.15 | 0 | 0.71 | 0.93 | 0.35 |
| 432628 | 'Mfsd2b' | 0 | 0 | 0.44 | 0 | 0 | 0.01 | 0 | 0.71 | 1.94 | 1 |
| 432677 | 'Vrtn' | 0 | 0 | 0 | 0 | 2.79 | 0 | 0 | 0 | 0 | 0 |
| 432731 | 'Zscan26' | 79.86 | 56.61 | 47.1 | 79.3 | 84.6 | 58.36 | 48.6 | 70.32 | 93.19 | 66.16 |
| 432763 | 'Prr7' | 4.46 | 5.8 | 4.18 | 11.6 | 0.33 | 3.18 | 1.61 | 3.03 | 3.38 | 2.78 |
| 432769 | 'Zfp708' | 0.07 | 2.99 | 1.27 | 6.13 | 1.85 | 0 | 0 | 0.35 | 7.94 | 0.11 |
| 432770 | 'Rscan18' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 432779 | 'Lrrc14b' | 0.63 | 0.26 | 2.92 | 0.21 | 0.16 | 0.02 | 0.04 | 1.01 | 0.55 | 0.08 |
| 432825 | 'Gm5458' | 0.21 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0.06 | 0.07 | 0 |
| 432839 | 'Gprin2' | 0.14 | 0.34 | 1.85 | 0 | 0 | 1.27 | 0.46 | 0.21 | 1.47 | 2.41 |
| 432860 | 'B020004C17Rik' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 432940 | 'Otuln' | 0 | 1.02 | 2.76 | 5.54 | 0.07 | 5.38 | 0 | 0 | 3.79 | 1.49 |
| 432964 | 'K230010J24Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.23 | 0 | 0 |
| 432995 | 'Smim22' | 0.14 | 0.58 | 1.94 | 0 | 17.4 | 36.62 | 0 | 1.19 | 24.66 | 28.63 |
| 433022 | 'Plcxd2' | 2.12 | 1.94 | 5.27 | 0.03 | 1.25 | 1.61 | 5.37 | 2.25 | 1.33 | 4.6 |
| 433091 | 'Pnpla1' | 0.6 | 0.04 | 0.29 | 0.45 | 0.09 | 0.1 | 0.06 | 0.05 | 0.08 | 0.12 |
| 433099 | 'Ly6g6f' | 0 | 0 | 0 | 2.37 | 0 | 0 | 0 | 0 | 0 | 0 |
| 433182 | 'Eno1b' | 0.06 | 0.16 | 0.06 | 0 | 0 | 0.13 | 0 | 0.05 | 0.24 | 0.15 |
| 433215 | 'Tmem262' | 0 | 0 | 0.38 | 0.36 | 0 | 0 | 0 | 0.08 | 0 | 0 |
| 433256 | 'Acsl5' | 15.45 | 18.93 | 22.2 | 11.9 | 8.57 | 28.4 | 7.35 | 21.73 | 32.63 | 31.25 |
| 433287 | 'Gm15455' | 0 | 0.32 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.61 | 0 |
| 433292 | 'Nms' | 87.63 | 0 | 0 | 0 | 0 | 0 | 6.27 | 0 | 0 | 6.53 |
| 433294 | 'Mettl21c' | 0.04 | 0 | 0 | 0.05 | 0.33 | 0 | 0 | 0 | 0.34 | 0 |
| 433323 | 'Sgpp2' | 5.34 | 3.74 | 6.24 | 2.4 | 16 | 2.18 | 8.92 | 3.54 | 11.33 | 1.68 |
| 433365 | 'Teddm1b' | 0.58 | 2.1 | 0.75 | 1.6 | 0.42 | 0.68 | 0.48 | 0.41 | 0.87 | 0.45 |
| 433375 | 'Creg1' | 48.55 | 60.2 | 41.9 | 20.5 | 60 | 111.6 | 56.1 | 58.25 | 68.89 | 74.44 |
| 433415 | 'Gm13420' | 0 | 0.77 | 2.25 | 0.84 | 0 | 0 | 2.69 | 0.06 | 3.34 | 0 |
| 433416 | 'Gm13547' | 0 | 0 | 0.46 | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 |
| 433466 | 'Jmjd7' | 7.17 | 12.92 | 7.92 | 8.1 | 3.87 | 12.11 | 29.5 | 7.7 | 4.01 | 16.6 |
| 433470 | 'AA467197' | 0 | 0 | 2.83 | 0 | 0 | 0 | 0 | 0 | 3.65 | 0 |
| 433485 | 'Syndig1' | 33.64 | 53.34 | 24.7 | 18.2 | 18 | 16.6 | 13.3 | 71.07 | 22.53 | 14.25 |
| 433586 | 'Maml3' | 5.44 | 1.69 | 0.44 | 7.13 | 6.48 | 0.01 | 4.18 | 0.83 | 3.14 | 0.33 |
| 433638 | 'I830077J02Rik' | 0 | 0.04 | 0 | 0 | 0 | 3.51 | 0 | 0 | 0 | 0 |
| 433653 | 'Gimd1' | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 433667 | 'Ankrd13c' | 3.47 | 1.64 | 6.09 | 0.77 | 2.03 | 0.31 | 7.11 | 3.04 | 4.21 | 1.63 |
| 433693 | 'Akirin2' | 13.02 | 6.45 | 3.33 | 4.8 | 8.43 | 1.98 | 4.91 | 2.56 | 6.97 | 2.77 |
| 433698 | 'Fam205a1' | 1.21 | 0.13 | 0.42 | 0.25 | 0.78 | 0.09 | 0.83 | 0.17 | 0.07 | 1.39 |
| 433700 | 'Spag8' | 0 | 3.93 | 0.83 | 0 | 0 | 5.34 | 0 | 0 | 0 | 0 |
| 433702 | 'Ncbp1' | 29.81 | 19.43 | 19.4 | 27.7 | 20.7 | 3.44 | 9.07 | 11.25 | 13.68 | 21.45 |
| 433752 | 'Frg2f1' | 7.69 | 2.25 | 3.66 | 0 | 2.61 | 1.66 | 5.37 | 5.1 | 7.87 | 6.27 |
| 433759 | 'Hdac1' | 19.8 | 32.73 | 30.6 | 29 | 12.7 | 25.32 | 23.5 | 22.56 | 17.27 | 28.82 |
| 433766 | 'Trim63' | 0.02 | 0 | 0.1 | 0 | 0.03 | 0 | 0 | 0 | 0.02 | 0 |
| 433771 | 'Minos1' | 107.9 | 95.88 | 85 | 170 | 81.9 | 96.35 | 77.1 | 88.13 | 57.28 | 78.74 |
| 433791 | 'Zfp992' | 0.03 | 0 | 0.03 | 0 | 0.4 | 0 | 0.01 | 0 | 1.15 | 0.43 |
| 433801 | 'Gm13212' | 0.2 | 0 | 0.08 | 0.37 | 0.02 | 0.01 | 0 | 0 | 0 | 0.03 |
| 433804 | 'Zfp985' | 0.01 | 0.02 | 0 | 0 | 0 | 0.12 | 0 | 0 | 0.01 | 0 |
| 433809 | 'Rnf207' | 1.62 | 2.59 | 1.7 | 2.09 | 3.92 | 3.66 | 7.88 | 7.9 | 0.72 | 2.11 |
| 433813 | 'Pusl1' | 20.15 | 30.29 | 25.7 | 29.9 | 33.3 | 28.09 | 25.7 | 37.33 | 13.33 | 24.6 |
| 433864 | 'Nom1' | 14.36 | 10.14 | 13.7 | 11.9 | 14.8 | 9.59 | 15.9 | 7.8 | 18.42 | 18.68 |
| 433868 | '3110082J24Rik' | 0 | 0 | 0 | 0 | 0 | 2.48 | 0 | 0.89 | 0 | 1.12 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 433904 | 'Ociad2' | 23.01 | 31.82 | 21.4 | 26.8 | 31.5 | 30.44 | 40.2 | 34.99 | 32.74 | 43.09 |
| 433926 | 'Lrrc8b' | 0.47 | 0.95 | 0.23 | 0.01 | 0.6 | 0.03 | 0.09 | 0 | 0 | 0.05 |
| 433931 | 'Pigg' | 6.07 | 4.04 | 1.66 | 0 | 4.41 | 1.36 | 8.08 | 4.29 | 6.01 | 5.48 |
| 433938 | 'Mn1' | 5.25 | 3.62 | 1.4 | 15.8 | 8.75 | 0.01 | 1.93 | 6.52 | 5.51 | 1.88 |
| 433940 | 'Fam222a' | 1.4 | 1.72 | 0 | 0.06 | 2.63 | 0 | 0.39 | 0 | 0 | 0.14 |
| 433956 | 'Dnaaf5' | 2.1 | 1.99 | 0.04 | 3.49 | 2.3 | 0 | 0.48 | 0 | 0.06 | 0 |
| 434008 | 'Tmem178b' | 2.76 | 5.44 | 3.66 | 0.64 | 2.92 | 1.55 | 2.74 | 2.25 | 0.25 | 0.95 |
| 434113 | 'Vmn2r44' | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 |
| 434117 | 'Vmn2r50' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 434128 | 'Pnmal2' | 155.8 | 156.3 | 171 | 146 | 185 | 127.8 | 130 | 141.4 | 153.8 | 162.1 |
| 434130 | 'Ccadc8' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.42 | 2.15 | 0.02 |
| 434156 | 'Eid2b' | 13.55 | 21.43 | 15.3 | 13.5 | 13.1 | 9.12 | 14.9 | 3.95 | 19.87 | 4.58 |
| 434178 | 'Zfp141' | 3.49 | 5.22 | 5.74 | 7.69 | 2.33 | 1.52 | 1.94 | 3.65 | 8.67 | 4.21 |
| 434179 | 'Zfp975' | 4.4 | 1.45 | 3.62 | 0 | 3.05 | 0.02 | 0 | 3.87 | 0.02 | 8.43 |
| 434197 | 'Fam169b' | 0.17 | 0.4 | 0.27 | 0.41 | 0.36 | 0.18 | 0.39 | 0.12 | 0.16 | 0.26 |
| 434204 | 'Whamm' | 2.98 | 1.36 | 4.21 | 13.4 | 0.72 | 6.21 | 0.92 | 0.94 | 4.8 | 3.1 |
| 434215 | 'Lrrc32' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.77 | 0 |
| 434218 | 'Trim34b' | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 |
| 434223 | 'Gm1966' | 0 | 0 | 0 | 0 | 0.03 | 0.18 | 0 | 0 | 0.1 | 0 |
| 434232 | 'lqck' | 4.09 | 1.93 | 8.36 | 0.52 | 2.66 | 0 | 1.22 | 5.67 | 5.05 | 5.15 |
| 434233 | 'Ppp1ccb' | 0 | 0 | 0 | 0.09 | 0.8 | 4.58 | 1.45 | 0.07 | 0.15 | 0 |
| 434234 | 'Rexo5' | 1.9 | 3.97 | 0.05 | 0 | 2.7 | 1.35 | 0.15 | 1.04 | 1.59 | 0.05 |
| 434246 | 'Trim72' | 0 | 0.1 | 0.14 | 0.07 | 0 | 0.31 | 1.61 | 0.02 | 0.17 | 0.57 |
| 434341 | 'Nlrc5' | 0 | 0 | 0 | 3.4 | 0.1 | 0 | 0 | 0 | 0 | 0 |
| 434377 | 'Zfp560' | 3.28 | 2.55 | 3.66 | 2.81 | 4.2 | 2.72 | 3.15 | 2.05 | 3.71 | 3.13 |
| 434402 | 'Gm5617' | 11.13 | 14.56 | 11.2 | 21.6 | 16.6 | 35.99 | 17.7 | 11.81 | 15.22 | 22.85 |
| 434423 | 'Dppa5a' | 2.84 | 4.76 | 6.39 | 0 | 2.31 | 0.08 | 0 | 2.37 | 11.07 | 11.63 |
| 434436 | 'Lsmem2' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 434437 | 'Amt' | 48.73 | 61.47 | 23.2 | 35 | 58.6 | 40.52 | 33.6 | 24.88 | 26.83 | 39.37 |
| 434438 | 'Ccadc36' | 1.76 | 7.18 | 1.87 | 12.9 | 0.02 | 0.38 | 0.33 | 0.17 | 0.03 | 0.95 |
| 434484 | 'Sp140' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.07 |
| 434689 | 'Gm10220' | 0.6 | 1.26 | 1.28 | 0.02 | 3.34 | 0 | 0 | 0 | 0.97 | 0.1 |
| 434756 | 'Akap14' | 0.07 | 0.54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 434768 | 'Rhox8' | 0.3 | 0.42 | 1.22 | 1.03 | 0.06 | 0.55 | 0.72 | 0.14 | 1.46 | 0.07 |
| 434778 | 'Ccadc160' | 11.03 | 10.41 | 5.92 | 17.9 | 8.56 | 4.78 | 4.02 | 11.77 | 9.42 | 24.69 |
| 434784 | 'Ldoc1' | 0 | 3.08 | 6.83 | 0 | 3 | 0 | 10.9 | 0 | 0 | 0 |
| 434794 | 'Xlr4a' | 0.04 | 0.05 | 1.56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 434797 | 'Gm5640' | 0 | 0.05 | 0 | 0 | 0 | 0 | 7.73 | 0 | 0 | 2.81 |
| 434800 | 'Smim9' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.37 | 0 | 0 |
| 435145 | 'Shisa8' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 435337 | 'Gm5662' | 0 | 0 | 0 | 0 | 0.95 | 0 | 0 | 0 | 0 | 0 |
| 435376 | 'Atp6ap1' | 0 | 6.51 | 10.6 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 |
| 435391 | 'Dupd1' | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 |
| 435529 | 'Adgrf2' | 0 | 0 | 0 | 0 | 0 | 0 | 2.05 | 0 | 1.19 | 0 |
| 435653 | 'Fcrib' | 3.64 | 2.5 | 3.18 | 0 | 0.2 | 7.37 | 6.17 | 0 | 0.19 | 3.66 |
| 435684 | 'Shf' | 0.34 | 0.49 | 0 | 0 | 0.1 | 0 | 1.57 | 0 | 0 | 1.83 |
| 435766 | 'Tnni3k' | 0 | 0 | 0.04 | 0 | 0 | 0.01 | 4.07 | 0.02 | 0 | 0.04 |
| 435811 | 'Ldlrad2' | 0.65 | 2.8 | 0.29 | 7.17 | 0.33 | 0.04 | 0.08 | 2.3 | 0.15 | 3.17 |
| 435965 | 'Lrp3' | 1.76 | 3.71 | 1.96 | 0 | 14.5 | 6.8 | 4.18 | 2.42 | 2.83 | 7.63 |
| 436008 | 'Gm5737' | 0.49 | 0.34 | 0.38 | 0.02 | 0 | 0 | 0 | 0 | 0 | 1.41 |
| 436022 | 'Dnaaf3' | 0 | 0 | 2.58 | 0 | 0.52 | 3.19 | 0 | 0 | 0 | 0 |
| 436062 | 'Fam92b' | 16.14 | 6.89 | 4.55 | 25.1 | 18.7 | 0 | 0.06 | 5.39 | 3.11 | 6.54 |
| 436090 | 'Gpr62' | 13.38 | 7.16 | 16.5 | 11.7 | 0.15 | 10.03 | 8.08 | 9.24 | 7.29 | 7.15 |
| 436240 | 'Foxr2' | 1.47 | 2.55 | 6.64 | 0.02 | 0.87 | 1.51 | 5.09 | 1.74 | 12.82 | 2.51 |
| 436336 | 'Gm5767' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 | 0 | 0 |
| 436440 | 'Gpr31b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 442801 | 'Arhgef15' | 7.7 | 8.53 | 14.9 | 9.39 | 5.2 | 15.42 | 7.62 | 14.23 | 12.53 | 13.09 |
| 442829 | 'Ccin' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 442834 | 'D830031N03Rik' | 0.18 | 0.16 | 0.11 | 0 | 0.59 | 0 | 1.78 | 0 | 0.28 | 0 |
| 445007 | 'Nup85' | 31.27 | 33.48 | 39 | 44.5 | 36.5 | 43.93 | 41.1 | 27.29 | 34.75 | 44.95 |
| 446099 | 'Nlrp4e' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.58 | 0 |
| 446101 | 'Xrra1' | 2.91 | 0.03 | 0.81 | 0.12 | 0 | 0.09 | 7.95 | 0 | 1.55 | 1.33 |
| 448850 | 'Znhit3' | 70.24 | 77.38 | 93.7 | 95.6 | 79.5 | 111.8 | 65 | 53.71 | 86.02 | 87.34 |
| 448987 | 'Fbxl7' | 0 | 2.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 |
| 449000 | 'Zfp960' | 8.24 | 4.28 | 1.55 | 0 | 1.13 | 0.34 | 0.96 | 3.9 | 2.74 | 2.93 |
| 449521 | 'Zfp213' | 7.14 | 8.67 | 6.97 | 0 | 2.93 | 3.13 | 14.8 | 7.45 | 4.66 | 8.87 |
| 450219 | 'Gsdma3' | 0 | 0 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 474156 | 'Zbtb9' | 0 | 1.28 | 5.02 | 0 | 2.49 | 11.39 | 0 | 0 | 3.83 | 1.88 |
| 494448 | 'Cbx6' | 10.51 | 15.3 | 8.96 | 6.68 | 12.7 | 10.08 | 22.1 | 10.57 | 14.09 | 18.14 |
| 494468 | 'Armcx5' | 11.18 | 32.11 | 23.4 | 56.4 | 26.1 | 9.85 | 26.3 | 15.97 | 12.22 | 11.54 |
| 497097 | 'Xkr4' | 1.82 | 2.45 | 1.79 | 4.4 | 1.56 | 1.66 | 3.11 | 1.73 | 0.02 | 1.93 |
| 497114 | 'Defa23' | 0 | 0 | 0 | 0 | 0 | 0 | 0.55 | 0 | 0 | 0 |
| 497652 | 'Acd' | 68.95 | 62.63 | 59.5 | 65.3 | 48.2 | 130.7 | 31.3 | 53.17 | 40.37 | 50.3 |
| 503491 | 'Defa24' | 0 | 0 | 0 | 0 | 0 | 0 | 43.5 | 0 | 0 | 0 |
| 503610 | 'Zdhhc18' | 1.03 | 1.49 | 3.7 | 8.71 | 5.28 | 2.71 | 0.2 | 3.86 | 4.35 | 0.04 |
| 503692 | 'Aym1' | 0 | 0 | 0 | 0 | 0.82 | 0 | 0 | 0 | 0.82 | 0 |
| 504186 | 'Chrna10' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 504193 | 'Npcd' | 13.63 | 17.05 | 8.95 | 27.6 | 7.07 | 6.74 | 17.8 | 12.22 | 4.81 | 8.86 |
| 50490 | 'Nox4' | 2.63 | 0 | 0.73 | 0 | 0.18 | 0.49 | 0 | 0 | 0 | 0 |
| 50492 | 'Thop1' | 29.99 | 35.53 | 39 | 0.02 | 15.9 | 21.53 | 24.8 | 22.09 | 20.97 | 32.42 |
| 50493 | 'Txnrd1' | 11.14 | 8.36 | 19 | 18.7 | 8.11 | 5.36 | 16.7 | 10.62 | 22.83 | 7.61 |
| 50496 | 'E2f6' | 12.97 | 4.23 | 0.04 | 3.85 | 19.1 | 9.14 | 4.89 | 9.42 | 29.98 | 9.63 |
| 50497 | 'Hspa14' | 20.09 | 14.99 | 31.9 | 26.3 | 37.4 | 51.48 | 25.6 | 43.03 | 43.85 | 34.5 |
| 50498 | 'Ebi3' | 1.53 | 1.04 | 0.29 | 7.1 | 2.07 | 3.17 | 0 | 0 | 0 | 0 |
| 50500 | 'Ttpa' | 0.59 | 2.14 | 0.52 | 0 | 0.02 | 0 | 2.76 | 1.26 | 2.03 | 0 |
| 50501 | 'Prok2' | 10.15 | 17.27 | 5.35 | 15.9 | 0 | 0 | 1.19 | 11.25 | 1.89 | 0 |
| 50505 | 'Ercc4' | 5.22 | 8.53 | 4.84 | 2.64 | 3.42 | 4.93 | 5.64 | 8.77 | 11.18 | 10.71 |
| 50518 | 'a' | 0.11 | 0.07 | 0.03 | 0.02 | 0.02 | 0.01 | 0.11 | 0.68 | 0.96 | 0.07 |
| 50523 | 'Lats2' | 0.38 | 0 | 0.59 | 0 | 0 | 0 | 0 | 0.2 | 0 | 0 |
| 50524 | 'Sall2' | 8.08 | 8.78 | 13.8 | 2.74 | 6.6 | 5.36 | 3.86 | 4.98 | 5.13 | 3.09 |
| 50525 | 'Spag6l' | 6.31 | 4.29 | 4.62 | 14.7 | 3.14 | 0.04 | 0.04 | 4.66 | 6.8 | 7.1 |
| 50527 | 'Ero1l' | 16.53 | 8.48 | 14 | 8.83 | 7.75 | 8.47 | 8.47 | 7.9 | 10.91 | 6.19 |
| 50529 | 'Mrps7' | 51.39 | 41.91 | 45.4 | 58.9 | 73.1 | 52.21 | 58.4 | 72.26 | 48.2 | 67.19 |
| 50530 | 'Mfap5' | 0 | 0 | 0 | 0 | 1.99 | 0 | 0 | 0 | 0 | 0 |
| 50540 | 'Igbp1b' | 2.68 | 4.94 | 0 | 6.73 | 0 | 0 | 0 | 3.16 | 0 | 0 |
| 50702 | 'Cfhr1' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50706 | 'Postn' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.12 | 0 |
| 50708 | 'Hist1h1c' | 0.96 | 3.03 | 6.76 | 0 | 9.43 | 3.88 | 3.38 | 2.48 | 2.34 | 5.54 |
| 50709 | 'Hist1h1e' | 8.93 | 8.16 | 11 | 0 | 4.33 | 19.6 | 0 | 7.88 | 11.8 | 15.06 |
| 50720 | 'Sacs' | 2.25 | 2.34 | 1.2 | 2.81 | 4.5 | 1.46 | 0.81 | 1.65 | 1.65 | 1.82 |
| 50721 | 'Sirt6' | 14.25 | 15.69 | 28.2 | 35.2 | 22.7 | 19.77 | 28 | 17.79 | 24.92 | 20.98 |
| 50722 | 'Dkk1l' | 3.38 | 7.53 | 1.89 | 0 | 0 | 0 | 0 | 5.16 | 21.63 | 3.07 |
| 50723 | 'Icosl' | 0 | 1.04 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0.38 |
| 50724 | 'Sap30l' | 1.04 | 1.66 | 7.47 | 3.72 | 4.6 | 0.06 | 0 | 0.65 | 10.12 | 2.12 |
| 50753 | 'Fbxo8' | 16.98 | 6.19 | 7.43 | 13.6 | 8.84 | 18.61 | 17.8 | 8.22 | 11.62 | 14.62 |
| 50754 | 'Fbxw7' | 13.6 | 24.41 | 16.1 | 11.6 | 20.9 | 19.13 | 14.7 | 16.04 | 12.69 | 9.63 |
| 50755 | 'Fbh1' | 32.05 | 22.06 | 32.8 | 39.4 | 26.9 | 6.54 | 31.2 | 30.41 | 15.39 | 28.77 |
| 50758 | 'Fbxl17' | 1.6 | 2.7 | 2.27 | 3.49 | 2.32 | 0.57 | 1.36 | 1.78 | 1.34 | 1.89 |
| 50759 | 'Fbxo16' | 2.34 | 9.14 | 15.6 | 14.4 | 23 | 33.04 | 10.4 | 13.63 | 6.44 | 12.02 |
| 50760 | 'Fbxo17' | 6.11 | 0.18 | 6.71 | 9.54 | 1.88 | 7.11 | 4.16 | 0 | 5.88 | 12.92 |
| 50762 | 'Fbxo6' | 13.55 | 48.04 | 17.9 | 6.12 | 49.5 | 35.58 | 65.1 | 33.48 | 27.82 | 32.59 |
| 50764 | 'Fbxo15' | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50765 | 'Tfr2' | 5.63 | 7.16 | 5.88 | 6.15 | 4.11 | 14.56 | 11.1 | 9.43 | 8.52 | 4.11 |
| 50766 | 'Crim1' | 8.11 | 19.48 | 3.21 | 36.1 | 6.74 | 4.08 | 14.8 | 16.7 | 5.94 | 5.38 |
| 50767 | 'Pnpla6' | 13.82 | 21.63 | 13.1 | 8.66 | 12 | 5.42 | 21.6 | 16.06 | 37.44 | 23.35 |
| 50768 | 'Dlc1' | 2.33 | 0.35 | 3.23 | 2.47 | 1.28 | 0.87 | 2.36 | 2.28 | 2.62 | 1.03 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 50769 | 'Atp8a2' | 15.24 | 21.31 | 12.5 | 3.02 | 15.3 | 10.21 | 26.6 | 13.66 | 17.28 | 18.91 |
| 50770 | 'Atp11a' | 2.22 | 3.07 | 1.17 | 4.9 | 5.45 | 3.38 | 3.61 | 1.25 | 6.12 | 2.55 |
| 50771 | 'Atp9b' | 5.48 | 3.49 | 19.7 | 0.11 | 14 | 3.98 | 15.3 | 8.38 | 14.86 | 11.55 |
| 50772 | 'Mapk6' | 6.3 | 11.72 | 12.3 | 15.3 | 5.27 | 6.27 | 27.2 | 10.1 | 14.4 | 16.94 |
| 50773 | 'Nt5c' | 103.5 | 99.81 | 79.6 | 53.2 | 175 | 171.5 | 92.5 | 102.7 | 73.15 | 122.19 |
| 50776 | 'Polg2' | 2.88 | 4.4 | 0.74 | 1.24 | 1.36 | 10.67 | 5.49 | 1.49 | 0.61 | 4.89 |
| 50778 | 'Rgs1' | 0 | 1.77 | 0 | 1.22 | 0 | 25.49 | 0 | 0 | 0 | 0 |
| 50779 | 'Rgs6' | 0.57 | 0 | 0.13 | 1.26 | 2.29 | 3.6 | 0 | 0 | 3.25 | 0 |
| 50780 | 'Rgs3' | 12.04 | 20.89 | 21.1 | 12.3 | 8.67 | 18.14 | 7.11 | 9.4 | 16.11 | 18.71 |
| 50781 | 'Dkk3' | 5.06 | 13.73 | 13 | 2.99 | 6.62 | 1.73 | 5.43 | 17.81 | 26.06 | 26.58 |
| 50782 | 'Rgs11' | 31.86 | 24.28 | 21.1 | 7.41 | 42 | 26.47 | 9.84 | 41.78 | 11.7 | 17.71 |
| 50783 | 'Lsm4' | 98.77 | 55.26 | 93.3 | 266 | 78.9 | 24.11 | 52.9 | 50.01 | 84.76 | 26.9 |
| 50784 | 'Plpp2' | 17.29 | 13.51 | 21.8 | 30.1 | 26.3 | 8.16 | 15 | 20.3 | 3.69 | 20.23 |
| 50785 | 'Hs6st1' | 1.6 | 0.6 | 2.81 | 0.23 | 2.25 | 0 | 1.9 | 1.33 | 0.18 | 1.82 |
| 50786 | 'Hs6st2' | 9.22 | 18.44 | 30.6 | 18.7 | 19.8 | 3.27 | 25.9 | 18.8 | 25.39 | 19.46 |
| 50787 | 'Hs6st3' | 0 | 1.27 | 0.37 | 0 | 0.33 | 0 | 4.54 | 1.04 | 0 | 0 |
| 50788 | 'Fbxl8' | 1.01 | 0 | 3.23 | 0 | 2.57 | 6.67 | 0 | 0.71 | 0 | 0 |
| 50789 | 'Fbxl3' | 5.5 | 4.59 | 1.77 | 0.21 | 4.71 | 2.81 | 3.47 | 0.94 | 3.06 | 2.08 |
| 50790 | 'Acsl4' | 9.56 | 7.96 | 8.74 | 5.86 | 7.29 | 4.95 | 3.22 | 10.55 | 14.43 | 7.98 |
| 50791 | 'Magi2' | 2.56 | 3.98 | 4.01 | 9.12 | 8.77 | 5.54 | 8.18 | 4.85 | 4.2 | 5.23 |
| 50793 | 'Orc3' | 34.92 | 33.58 | 23.2 | 3.21 | 11.5 | 26.67 | 25.6 | 24.96 | 18.25 | 17.41 |
| 50794 | 'Klf13' | 19.24 | 23.85 | 12.8 | 37.8 | 31.3 | 21.07 | 20.4 | 29.3 | 14.82 | 19.07 |
| 50795 | 'Sh3bgr' | 0.65 | 1.81 | 0.31 | 0 | 0 | 0.1 | 5.93 | 1.17 | 0.04 | 0.09 |
| 50797 | 'Copb2' | 27.18 | 24.52 | 49.4 | 26.9 | 40.6 | 19.8 | 44.3 | 30.99 | 46.52 | 45.77 |
| 50798 | 'Gne' | 14.49 | 12.25 | 13.3 | 10.9 | 16.3 | 12.05 | 13.3 | 26.05 | 28.87 | 13.51 |
| 50799 | 'Slc25a13' | 2.5 | 0.17 | 1.95 | 0.76 | 5.63 | 0 | 0.08 | 0.04 | 0.03 | 2.74 |
| 50817 | 'Capn15' | 4.01 | 4.52 | 8.26 | 5.28 | 0.84 | 5.02 | 8.18 | 0.65 | 6.96 | 5.93 |
| 50849 | 'Rnf10' | 11.2 | 19.94 | 21.8 | 16.2 | 12 | 17.39 | 13.3 | 10.97 | 7.9 | 2.95 |
| 50850 | 'Spast' | 0.89 | 0.54 | 2.24 | 5.57 | 3.3 | 2.23 | 1.83 | 3.08 | 1.3 | 4.27 |
| 50868 | 'Keap1' | 29.47 | 30.99 | 33.8 | 22.5 | 42.4 | 7.24 | 16.4 | 36 | 27.04 | 39.43 |
| 50873 | 'Prkn' | 23.32 | 28.31 | 33.8 | 48.3 | 41.9 | 17.95 | 17.3 | 14.99 | 31.23 | 20.12 |
| 50874 | 'Tmod4' | 0.13 | 0.27 | 0.16 | 0.12 | 0.1 | 0.09 | 0.07 | 1.19 | 0.05 | 0.07 |
| 50875 | 'Tmod3' | 13.06 | 9.67 | 7.73 | 7.61 | 7.62 | 8.14 | 6.83 | 9.76 | 16.98 | 3.05 |
| 50876 | 'Tmod2' | 22.08 | 22.09 | 17.7 | 17.4 | 19.4 | 10.7 | 21 | 18.97 | 17.29 | 13.58 |
| 50877 | 'Neu3' | 2.45 | 2.29 | 4.52 | 4.4 | 5.44 | 2.31 | 4.21 | 3.41 | 2.56 | 2.1 |
| 50878 | 'Stag3' | 0 | 0 | 1.46 | 0.92 | 0 | 0 | 0 | 1.17 | 0 | 0 |
| 50880 | 'Scly' | 5.18 | 6.76 | 5.91 | 2.99 | 0.83 | 6.93 | 1.43 | 2.7 | 4.33 | 3.7 |
| 50883 | 'Chek2' | 2 | 2.95 | 0.21 | 3.79 | 0.09 | 0.25 | 0.21 | 0.05 | 0.07 | 0.13 |
| 50884 | 'Nckap1' | 9.94 | 20.26 | 12.8 | 25.3 | 17.2 | 11.9 | 15.6 | 11.62 | 11.27 | 14.12 |
| 50887 | 'Hmgn5' | 3.31 | 3.34 | 4.68 | 6.54 | 1.17 | 3.22 | 4.35 | 1.43 | 4.26 | 4.55 |
| 50905 | 'Il17rb' | 0 | 2.12 | 2.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 50907 | 'Preb' | 30.45 | 31.65 | 29.2 | 29.6 | 25.5 | 38.19 | 41.3 | 25 | 30.86 | 24.52 |
| 50908 | 'C1s1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.63 |
| 50909 | 'C1ra' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 50911 | 'Exosc9' | 41.74 | 31.29 | 40.5 | 44.3 | 41 | 55.36 | 34.4 | 39.71 | 68.11 | 37.48 |
| 50912 | 'Exosc10' | 33.27 | 26.09 | 31.9 | 38.8 | 42.4 | 20.92 | 22.2 | 24.5 | 19.37 | 12.52 |
| 50913 | 'Olig2' | 0.52 | 0 | 8.06 | 4.84 | 0 | 0 | 1.98 | 0.18 | 0 | 0 |
| 50914 | 'Olig1' | 34.59 | 28.07 | 163 | 29.7 | 16.2 | 48.15 | 256 | 52.04 | 7.26 | 2.37 |
| 50915 | 'Grb14' | 13.66 | 13.89 | 4.26 | 0.03 | 31 | 27.13 | 32.1 | 14.86 | 37.02 | 10.57 |
| 50916 | 'Irx4' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 50917 | 'Galns' | 12.5 | 10.78 | 21 | 0 | 10.9 | 30.57 | 6.54 | 11.27 | 19.02 | 10.06 |
| 50918 | 'Myadm' | 29.95 | 19.76 | 20.9 | 15.9 | 32.4 | 31.69 | 13.3 | 21.34 | 26.61 | 26.3 |
| 50926 | 'Hnrrpd1' | 42.22 | 41.96 | 50.4 | 45.6 | 49.9 | 35.67 | 54.7 | 38.33 | 40.19 | 22.81 |
| 50927 | 'Nasp' | 8.06 | 6.31 | 8.08 | 1.09 | 3.14 | 8.06 | 4.23 | 1.53 | 4.22 | 0.3 |
| 50928 | 'Klrg1' | 0 | 0 | 0 | 0 | 3.48 | 0 | 0 | 0 | 7.14 | 0 |
| 50932 | 'Mink1' | 1.65 | 2.87 | 0.81 | 1.02 | 2.84 | 1.7 | 2.74 | 3.13 | 1.94 | 1.52 |
| 50933 | 'Uchl3' | 106.1 | 129.2 | 70.1 | 89.2 | 87.1 | 108.7 | 74.5 | 123 | 107.5 | 94.15 |
| 50934 | 'Slc7a8' | 8.96 | 5.64 | 7.71 | 1.49 | 1.51 | 3.66 | 3.91 | 3.36 | 17.53 | 11.68 |

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|-------|--------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 50935 | 'St6galnac6' | 8.75 | 16.19 | 2.91 | 5.62 | 19.5 | 7.8 | 10.2 | 20.87 | 17.31 | 2.32 |
| 50995 | 'Uba2' | 73.92 | 95.91 | 48.2 | 85 | 54.7 | 52.92 | 107 | 53.12 | 64.28 | 94.82 |
| 50996 | 'Pdcd7' | 11.66 | 1.13 | 0.68 | 3.46 | 4.79 | 4.83 | 3.02 | 5.2 | 3.08 | 4.47 |
| 50997 | 'Mpp2' | 9.54 | 11.54 | 7.7 | 9.81 | 12.4 | 8.86 | 5.73 | 6.85 | 24.1 | 10.46 |
| 51786 | 'Cpsf2' | 4.45 | 6.35 | 12.4 | 12.6 | 9.2 | 2.51 | 1.74 | 5.84 | 6.79 | 12.48 |
| 51788 | 'H2afz' | 394.7 | 358.2 | 318 | 437 | 479 | 551.1 | 495 | 458.3 | 300.4 | 372.5 |
| 51789 | 'Tnk2' | 5.38 | 5.98 | 12.1 | 2.55 | 9.26 | 7.53 | 17.4 | 5.3 | 8.66 | 11.81 |
| 51791 | 'Rgs14' | 9.61 | 8.76 | 7.2 | 9.25 | 9.32 | 10.68 | 11.9 | 21.09 | 9.67 | 8.52 |
| 51792 | 'Ppp2r1a' | 500.9 | 460.7 | 555 | 350 | 404 | 505.2 | 552 | 567.7 | 471.1 | 565.93 |
| 51793 | 'Ddah2' | 6.39 | 9.13 | 20.7 | 0.04 | 5.23 | 17.19 | 23.2 | 5.06 | 0 | 8.47 |
| 51795 | 'SrpX' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 51796 | 'Srrm1' | 24.68 | 28.38 | 32 | 54.8 | 32.3 | 31.58 | 28.9 | 27.37 | 34 | 32.52 |
| 51797 | 'Ctps' | 32.47 | 21.37 | 28.9 | 36.7 | 14.5 | 23.24 | 18 | 40.3 | 24.19 | 17.66 |
| 51798 | 'Ech1' | 93.42 | 70.07 | 80.6 | 184 | 124 | 95.23 | 54.5 | 50.36 | 60.81 | 55.44 |
| 51799 | 'Rundc3a' | 17.14 | 16.57 | 9.86 | 36.3 | 37.7 | 12.17 | 21.8 | 30.72 | 26.05 | 19.98 |
| 51800 | 'Bok' | 20.25 | 31.93 | 18.1 | 1.7 | 24.6 | 43.47 | 46.5 | 13.92 | 12.37 | 15.96 |
| 51801 | 'Ramp1' | 47.67 | 18.69 | 29.2 | 22.1 | 14.7 | 37.44 | 30.3 | 41.15 | 16.77 | 14.84 |
| 51810 | 'Hnrnpu' | 29.23 | 26.38 | 17.6 | 88.7 | 40.1 | 21.14 | 17 | 14.66 | 29.52 | 22.29 |
| 51812 | 'Mcrcs1' | 36.1 | 41.19 | 41.6 | 49.4 | 31.9 | 31.87 | 40.6 | 49.4 | 22.9 | 16.66 |
| 51813 | 'CcnC' | 38.09 | 42.81 | 49.3 | 33 | 18 | 61.07 | 29.3 | 32.5 | 20.59 | 27.4 |
| 51869 | 'Rif1' | 1.47 | 0.76 | 0.19 | 4.87 | 1.83 | 1.19 | 1.58 | 1.63 | 0.5 | 2.07 |
| 51875 | 'Tmem141' | 42.83 | 48.14 | 39.2 | 24.3 | 31.3 | 40.8 | 49.8 | 50.82 | 33.39 | 32.93 |
| 51885 | 'Tubgcp4' | 9.42 | 13.04 | 6.29 | 0.94 | 3.65 | 7.02 | 7.75 | 6.42 | 15.98 | 9.94 |
| 51886 | 'Fubp1' | 25.37 | 40.28 | 19.2 | 24.2 | 54.2 | 27.73 | 53.2 | 44.41 | 28.45 | 35.36 |
| 51897 | 'Atg13' | 41.82 | 49.83 | 34.5 | 18.2 | 22.1 | 44.52 | 16.8 | 34.49 | 51.99 | 40.04 |
| 51902 | 'Rnf24' | 5.13 | 0.37 | 3.02 | 4 | 0.72 | 4.66 | 4.72 | 4.09 | 5.93 | 2.54 |
| 51938 | 'CcDC39' | 10.88 | 12.31 | 6.74 | 11.1 | 16.9 | 6.4 | 9.17 | 8.58 | 5.53 | 8.96 |
| 51944 | 'Knstrn' | 0 | 0 | 0.45 | 0 | 0.34 | 0 | 0 | 0 | 0 | 0 |
| 51960 | 'Kctd18' | 3.26 | 2.98 | 0.37 | 0.75 | 1.01 | 2.07 | 5.39 | 6.71 | 10.26 | 3.75 |
| 52004 | 'Cdk2ap2' | 73.02 | 121.8 | 52 | 141 | 93.3 | 116.1 | 48.4 | 77.86 | 52.68 | 127.75 |
| 52009 | 'Jpt2' | 43.83 | 47.09 | 12.5 | 39.4 | 26.7 | 16.19 | 6.97 | 9.75 | 43.36 | 34.55 |
| 52013 | 'R3hcc1l' | 4.14 | 2.44 | 5.45 | 5.16 | 1.07 | 5.62 | 3.83 | 8.43 | 8.4 | 6.42 |
| 52014 | 'Nus1' | 5.41 | 6.97 | 5.75 | 12.4 | 0.71 | 6.49 | 1.62 | 4.31 | 5.2 | 4.58 |
| 52020 | 'Umodl1' | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52023 | 'Pibf1' | 4.53 | 6.53 | 5.54 | 4.07 | 4.59 | 7.72 | 7.79 | 5.67 | 6.22 | 8.18 |
| 52028 | 'Bbs1' | 4.59 | 2.79 | 0.99 | 2.91 | 2.03 | 0.57 | 5.28 | 3.82 | 5.06 | 1.92 |
| 52036 | 'Ppp6r3' | 8.35 | 4.88 | 7.28 | 9.67 | 8.07 | 3.19 | 12.5 | 3.09 | 8.92 | 6 |
| 52040 | 'Ppp1r10' | 10.88 | 14.31 | 17.1 | 15.5 | 26.5 | 17.44 | 22.5 | 9.96 | 14.08 | 37.12 |
| 52055 | 'Rab11fip5' | 3.1 | 10.57 | 11 | 10.8 | 6.25 | 8.74 | 5.17 | 14.47 | 12.25 | 4.23 |
| 52064 | 'Coq5' | 45.7 | 17.76 | 27.8 | 42 | 82.7 | 21.41 | 56.3 | 39.38 | 42.59 | 26.4 |
| 52065 | 'Mfhas1' | 2.11 | 0.54 | 2.53 | 3.06 | 4.78 | 5.56 | 4.17 | 1.94 | 0.65 | 0.1 |
| 52076 | 'Tmem38b' | 1.72 | 2.12 | 0.48 | 0 | 1.22 | 1.69 | 0 | 1.3 | 1.25 | 0.99 |
| 52118 | 'Pvr' | 1.9 | 0.91 | 6.54 | 3.77 | 0 | 0 | 0 | 2.35 | 0 | 0.18 |
| 52120 | 'Hgsnat' | 15.4 | 9.1 | 21.9 | 22.1 | 16.1 | 8.01 | 32.1 | 10.97 | 19.99 | 5.4 |
| 52123 | 'Agpat5' | 6.45 | 13.29 | 9.03 | 12.7 | 7.34 | 16.93 | 21.7 | 4.8 | 9.29 | 7.73 |
| 52132 | 'CcDC97' | 12.91 | 16.53 | 12.4 | 5.91 | 24.1 | 9.2 | 17.3 | 19.44 | 23.73 | 35.37 |
| 52150 | 'Kcnk6' | 0.22 | 0.47 | 0.05 | 0.05 | 0.95 | 0.62 | 0.25 | 0 | 1.16 | 1.66 |
| 52163 | 'Camk1' | 101 | 75.64 | 108 | 130 | 114 | 90.92 | 65.5 | 86.46 | 135 | 32.38 |
| 52174 | 'Tmem222' | 195.5 | 183.4 | 151 | 129 | 152 | 212.4 | 187 | 162.2 | 159 | 218.7 |
| 52184 | 'Odf2l' | 2.28 | 3.4 | 4.66 | 12.3 | 0.23 | 9.38 | 6.38 | 5.1 | 4.52 | 8.23 |
| 52187 | 'Rragd' | 2.21 | 5.43 | 5.37 | 7.17 | 4.9 | 1.97 | 3.78 | 3.04 | 1.01 | 2.05 |
| 52202 | 'Rbm34' | 18.02 | 9.75 | 10.6 | 26 | 22.8 | 18.88 | 37.9 | 14.76 | 7.58 | 20.97 |
| 52206 | 'Anapc4' | 56.78 | 41.57 | 57.1 | 52.5 | 32.7 | 46.03 | 36.5 | 45.49 | 72.27 | 55.36 |
| 52231 | 'Ankzf1' | 16.47 | 14.03 | 12.6 | 0 | 9.47 | 37.32 | 13.3 | 9.61 | 9.99 | 7.93 |
| 52245 | 'Commd2' | 12.22 | 10.64 | 6.5 | 13.2 | 13 | 4.62 | 5.73 | 15.43 | 9.33 | 9.13 |
| 52250 | 'Reep1' | 35.59 | 44.81 | 63.5 | 29.5 | 56.7 | 20.28 | 48.8 | 44.23 | 64.38 | 22.9 |
| 52276 | 'Cdca8' | 1.23 | 0 | 2.57 | 0 | 1.1 | 0 | 0 | 0 | 0 | 0 |
| 52323 | 'Klhl7' | 58.9 | 75.19 | 59.7 | 53.2 | 45.5 | 38.39 | 74 | 66.69 | 53.53 | 76.77 |

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|-------|--------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 52331 | 'Stbd1' | 5.4 | 1.12 | 0 | 0 | 0 | 0 | 0 | 5.1 | 4.76 | 2.52 |
| 52335 | 'Atxn1' | 0.01 | 1.14 | 0.28 | 0.04 | 1.01 | 0.94 | 0.01 | 0.1 | 0.63 | 0.01 |
| 52348 | 'Vps37a' | 3.46 | 4.47 | 2.94 | 8.79 | 2.23 | 0.79 | 2.81 | 2.06 | 9.14 | 3.79 |
| 52357 | 'Wwc2' | 0 | 2.58 | 0.66 | 0 | 3.6 | 1.56 | 2.81 | 1.14 | 4.79 | 2.43 |
| 52372 | 'D6ErtD527e' | 0.49 | 1.42 | 0 | 3.02 | 0.11 | 4.51 | 0 | 0.14 | 0 | 0 |
| 52377 | 'Rcn3' | 3.22 | 2.93 | 9.88 | 2.02 | 0 | 0 | 11.5 | 0.08 | 3.69 | 6.68 |
| 52389 | 'Adgra1' | 15.23 | 23.11 | 30 | 24.8 | 23.6 | 20.94 | 25.6 | 22.4 | 13.35 | 10 |
| 52392 | 'D1ErtD622e' | 17.12 | 11.07 | 4.17 | 5.05 | 9.75 | 4.79 | 5.04 | 7.32 | 9.26 | 10.63 |
| 52397 | 'Zfp644' | 6.08 | 3.02 | 5.91 | 1.99 | 3.93 | 2.39 | 9.12 | 2.05 | 1.43 | 7.2 |
| 52398 | 'Sept11' | 28.99 | 18.58 | 23.5 | 49.3 | 20.5 | 19.43 | 17.5 | 14.1 | 21.05 | 9.67 |
| 52428 | 'Rhpn2' | 0.56 | 2.21 | 0 | 0 | 0.06 | 2.64 | 0.28 | 0.03 | 0 | 0 |
| 52430 | 'Echdc2' | 4.16 | 9.48 | 1.77 | 0 | 1.28 | 13.1 | 10.5 | 6.28 | 25.87 | 13.38 |
| 52432 | 'Ppp2r2d' | 5.44 | 11.74 | 8.85 | 35.9 | 19.9 | 2.83 | 2.34 | 18.29 | 5.37 | 18.62 |
| 52440 | 'Tax1bp1' | 59.02 | 62.72 | 42.6 | 81.4 | 61.9 | 53.22 | 85.1 | 63.5 | 56.49 | 64.01 |
| 52443 | 'Mrpl48' | 114.4 | 100.2 | 89.5 | 107 | 83.2 | 126.4 | 91.1 | 120.1 | 66.67 | 131.17 |
| 52463 | 'Tet1' | 2.22 | 4.02 | 5.75 | 5.36 | 2.31 | 0.97 | 2.31 | 1.26 | 3.07 | 0.57 |
| 52466 | 'Slc46a1' | 13.69 | 4.1 | 12.2 | 15.6 | 9.07 | 24.22 | 8.66 | 12.66 | 15 | 13.63 |
| 52468 | 'Ctdsp2' | 0.01 | 0.71 | 4.45 | 1.91 | 0.21 | 0 | 1.51 | 0.7 | 0.49 | 0.23 |
| 52469 | 'Coa3' | 262 | 406.2 | 277 | 463 | 337 | 368.9 | 399 | 447.4 | 416.2 | 415.14 |
| 52477 | 'Angel2' | 14.97 | 18.52 | 14.5 | 24.8 | 12.9 | 21.38 | 14.7 | 15.04 | 22.86 | 9.38 |
| 52502 | 'Carhsp1' | 18.78 | 12.88 | 7.12 | 3.21 | 31.4 | 6.95 | 8.03 | 18.57 | 9.42 | 9.83 |
| 52504 | 'Cenpo' | 2.68 | 1.67 | 2.62 | 6.76 | 1.63 | 2.31 | 4.14 | 2.97 | 4.28 | 7.43 |
| 52513 | 'Ddx56' | 45.76 | 40.82 | 35.8 | 64 | 31.8 | 48.74 | 53.1 | 75.74 | 55.27 | 49.81 |
| 52521 | 'Zfp622' | 5.89 | 1.63 | 3 | 13.8 | 2.16 | 2.81 | 9.75 | 3.4 | 7.02 | 1.85 |
| 52530 | 'Nhp2' | 34.35 | 16.5 | 41.5 | 15.2 | 56.7 | 58.15 | 36.5 | 51.64 | 59.65 | 53.88 |
| 52535 | 'Mettl17' | 16.48 | 25.93 | 18.4 | 8.34 | 14.8 | 43.12 | 15.3 | 13.32 | 14.39 | 18.43 |
| 52538 | 'Acaa2' | 20.73 | 22.28 | 3.12 | 18 | 5.65 | 12.82 | 13.9 | 5.36 | 4.21 | 7.46 |
| 52551 | 'Sgta' | 137.3 | 156.9 | 153 | 201 | 137 | 184.1 | 248 | 229.6 | 163.2 | 234.13 |
| 52552 | 'Parp8' | 6.13 | 17.31 | 3.37 | 11.9 | 1.32 | 3.05 | 8.87 | 7.76 | 13.05 | 9.36 |
| 52563 | 'Cdc23' | 20.76 | 21.41 | 19 | 16.3 | 22.4 | 12.62 | 11.5 | 22.65 | 31.68 | 22.14 |
| 52570 | 'Ccadc69' | 0 | 0 | 3.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52575 | 'Trmt10c' | 14.31 | 12.75 | 10.2 | 25.2 | 2.84 | 6.54 | 0.08 | 10.27 | 19.14 | 13.27 |
| 52585 | 'Dhrs1' | 52.32 | 62.69 | 63.5 | 52.9 | 31.5 | 66.63 | 78.9 | 48.54 | 51.21 | 47.64 |
| 52588 | 'Tspan14' | 2.48 | 4.03 | 0 | 6.09 | 0 | 10.47 | 5.95 | 17.56 | 6.66 | 8.54 |
| 52589 | 'Ncald' | 104.3 | 210.7 | 129 | 113 | 124 | 88.64 | 179 | 116.2 | 70.57 | 59.83 |
| 52592 | 'Brms1l' | 17.46 | 18.26 | 20.5 | 30.6 | 33.2 | 27.91 | 32.5 | 33.09 | 40.15 | 34.05 |
| 52609 | 'Cbx7' | 11.73 | 2.52 | 10.1 | 10.4 | 18 | 20.15 | 22.7 | 7.69 | 9.28 | 1.99 |
| 52615 | 'Suz12' | 4.66 | 0 | 1.91 | 5.91 | 2.5 | 1.93 | 0 | 1.03 | 0.21 | 2.66 |
| 52626 | 'Cdkn2aipnl' | 46.47 | 43.83 | 45.6 | 19.8 | 67.1 | 121.6 | 68.7 | 53.94 | 117.7 | 55.19 |
| 52633 | 'Nit2' | 25.92 | 26.41 | 19.3 | 0.14 | 13.3 | 36.33 | 6.95 | 34.46 | 34.63 | 16.2 |
| 52635 | 'Esyt2' | 1.83 | 1.98 | 1.01 | 2.47 | 2.21 | 1.95 | 3.77 | 1 | 3.78 | 3.06 |
| 52637 | 'Cisd1' | 331.3 | 355.1 | 303 | 229 | 303 | 539.6 | 269 | 316.4 | 321.4 | 361.07 |
| 52639 | 'Wipi1' | 6.12 | 8.45 | 1.81 | 0.57 | 3.19 | 2.22 | 12.9 | 3.3 | 8.78 | 20.44 |
| 52653 | 'Nudcd2' | 21.65 | 18.83 | 14.9 | 0 | 15 | 10.94 | 19.9 | 18.48 | 18.21 | 16.76 |
| 52662 | 'Ldlrad4' | 3.02 | 1.96 | 2.13 | 0.02 | 0.69 | 3.15 | 3 | 0.35 | 18.85 | 7.63 |
| 52665 | 'Echdc1' | 7.43 | 11.18 | 7.55 | 24.2 | 5.19 | 8.92 | 13.2 | 8.73 | 6.85 | 4.12 |
| 52666 | 'Arhgef25' | 7.4 | 3.07 | 6.09 | 10.6 | 8.04 | 23.97 | 8.17 | 8.19 | 14.3 | 11.42 |
| 52668 | 'Ifi27' | 54.21 | 89.8 | 76.8 | 90 | 40.2 | 56.23 | 89.5 | 23.67 | 32.04 | 83.7 |
| 52670 | 'Cpsf4l' | 0.1 | 0.11 | 0.07 | 0 | 0.22 | 0 | 0.08 | 0 | 0.09 | 0.01 |
| 52679 | 'E2f7' | 0 | 0 | 0.07 | 3.03 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 52683 | 'Ncaph2' | 36.32 | 46.44 | 66.1 | 57.9 | 77 | 71.35 | 103 | 87.08 | 40.56 | 71.77 |
| 52685 | 'Cd300lg' | 0.65 | 2.83 | 0.92 | 0.24 | 0.36 | 0.39 | 0 | 0.29 | 0.49 | 0.92 |
| 52686 | 'Mettl2' | 9.81 | 16.15 | 22.8 | 15 | 11.4 | 14.3 | 21.2 | 17.54 | 17.7 | 12.45 |
| 52690 | 'Setd3' | 45.07 | 32.62 | 44.9 | 42.8 | 28.3 | 32.31 | 51.8 | 32.63 | 19.38 | 39.73 |
| 52696 | 'Zwint' | 2240 | 2084 | 1980 | 2406 | 1999 | 3004 | 2491 | 2838 | 2435 | 2082.48 |
| 52700 | 'Txndc17' | 89.55 | 89.1 | 76.5 | 78.3 | 83 | 80.11 | 63.9 | 69.66 | 88.83 | 89.97 |
| 52705 | 'Krr1' | 8.52 | 10.72 | 5.34 | 12.1 | 8.1 | 10.57 | 7.65 | 6.61 | 4.32 | 6.18 |
| 52708 | 'Zfp410' | 38.2 | 23.13 | 30.3 | 2.12 | 11.3 | 6.52 | 15.3 | 20.72 | 25.35 | 7.89 |

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|-------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 52710 | 'Slc52a2' | 8.38 | 4.8 | 6.95 | 4.65 | 8.2 | 6.82 | 3.77 | 2.98 | 7.38 | 9.81 |
| 52712 | 'Zkscan6' | 14.34 | 5.03 | 13.1 | 6.63 | 3.68 | 13.23 | 6.73 | 7.75 | 18.25 | 12.83 |
| 52713 | 'Ccadc59' | 31.83 | 24.16 | 22.4 | 61.3 | 28.4 | 36.93 | 31.4 | 39.52 | 39.9 | 38.02 |
| 52715 | 'Ccadc43' | 4.49 | 10.73 | 5.07 | 22.2 | 17.2 | 9.58 | 6.07 | 11.62 | 27 | 11.96 |
| 52717 | 'Anapc16' | 44.42 | 78.84 | 31.9 | 27.8 | 63.7 | 90.53 | 69.6 | 57.3 | 48.83 | 88.47 |
| 52808 | 'Tspyl2' | 97.12 | 104 | 99.8 | 97.6 | 89.5 | 98.78 | 116 | 99.55 | 145.5 | 93.14 |
| 52815 | 'Ldhd' | 11.3 | 8.79 | 16.5 | 0 | 9.3 | 0 | 3.35 | 15.29 | 7.46 | 10.28 |
| 52822 | 'Rufy3' | 89.08 | 96.44 | 62 | 94.6 | 45.4 | 84.92 | 86.2 | 91.32 | 71.86 | 73.92 |
| 52829 | 'Lurap11' | 13.99 | 10.2 | 0.97 | 0 | 21.6 | 20.95 | 12 | 9.63 | 10.56 | 6.98 |
| 52830 | 'Pnrc2' | 38.19 | 6.27 | 15.1 | 64 | 45.4 | 38.89 | 18.2 | 29.63 | 37.09 | 46.12 |
| 52837 | 'Tmx4' | 99.88 | 72.23 | 162 | 103 | 64.8 | 55.96 | 100 | 84.78 | 101.7 | 119.65 |
| 52838 | 'Dnlz' | 8.75 | 8.3 | 12 | 6.14 | 10.3 | 14.17 | 10.6 | 10.1 | 11.57 | 6.66 |
| 52840 | 'Dbnnd2' | 22.63 | 24.38 | 6.16 | 6.83 | 117 | 29.2 | 19.7 | 9.07 | 10.08 | 9.09 |
| 52846 | 'Cnot11' | 2.62 | 0.42 | 0.08 | 2.9 | 4.29 | 0 | 0.27 | 4.52 | 2.55 | 0.01 |
| 52850 | 'Sgsm1' | 47.8 | 57.99 | 50.3 | 41 | 39.1 | 18.78 | 28.7 | 46.67 | 31.7 | 80.19 |
| 52855 | 'Lair1' | 3.65 | 0.75 | 0 | 0.28 | 3.61 | 6.28 | 1.98 | 0 | 0 | 0 |
| 52856 | 'Mtg2' | 27.81 | 14.13 | 8.05 | 34.9 | 10.5 | 17.57 | 7.48 | 22.21 | 33.51 | 8.16 |
| 52857 | 'Gramd1a' | 22.8 | 24.22 | 25.6 | 17.9 | 29.7 | 28.33 | 12.2 | 19.15 | 25.83 | 11.32 |
| 52858 | 'Cdip1' | 125.5 | 90.29 | 81.6 | 78.9 | 117 | 124.8 | 147 | 104.8 | 82.08 | 139.76 |
| 52864 | 'Slx4' | 2.5 | 0.54 | 2.2 | 0.01 | 0.19 | 0.61 | 4.85 | 2.12 | 4.72 | 4.68 |
| 52874 | 'Pum3' | 18.54 | 15.33 | 16.2 | 15.7 | 7.63 | 17.6 | 10.9 | 10.55 | 8.34 | 20.93 |
| 52882 | 'Rgs7bp' | 8.26 | 4.51 | 9.51 | 5.07 | 9.13 | 7.48 | 6.64 | 10.88 | 6.93 | 4.67 |
| 52892 | 'Sco1' | 1.61 | 3.77 | 4.27 | 0.73 | 4.02 | 9.06 | 5.54 | 3.55 | 7.94 | 0.39 |
| 52897 | 'Rbfox3' | 37.37 | 15.47 | 18.6 | 23.4 | 23.1 | 26.51 | 22.7 | 18.46 | 22.78 | 15.5 |
| 52898 | 'Rnasek' | 879.1 | 1226 | 784 | 714 | 760 | 903.3 | 768 | 754.6 | 745.6 | 954.55 |
| 52906 | 'Ahi1' | 290.3 | 261.6 | 275 | 228 | 202 | 226.4 | 343 | 241 | 328 | 321.75 |
| 52915 | 'Zmiz2' | 7.8 | 2.81 | 7.02 | 2.45 | 16.3 | 1.34 | 4.03 | 7.23 | 14.17 | 1.58 |
| 53310 | 'Dlg3' | 0.37 | 1.5 | 2.38 | 2.3 | 4.09 | 0 | 0.27 | 0.91 | 1.31 | 2.84 |
| 53312 | 'Nub1' | 27.59 | 25.63 | 41.6 | 43.8 | 25.6 | 16.81 | 30 | 31.81 | 43.39 | 41.15 |
| 53313 | 'Atp2a3' | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 |
| 53317 | 'Plrg1' | 43.13 | 27.89 | 52.2 | 41.8 | 34.2 | 43.72 | 37.8 | 72.99 | 67.49 | 80.73 |
| 53318 | 'Pdim3' | 0 | 0.03 | 1.74 | 0 | 0 | 0 | 0 | 0.72 | 0 | 0 |
| 53319 | 'Nxf1' | 71.61 | 86.08 | 69.4 | 103 | 54.3 | 53.02 | 53 | 70.54 | 89.61 | 87.23 |
| 53320 | 'Folh1' | 4.22 | 2.52 | 0 | 2.5 | 0.4 | 2.45 | 4.84 | 1.16 | 0 | 0 |
| 53321 | 'Cntnap1' | 5.27 | 3.49 | 5.5 | 1.83 | 10.1 | 2.67 | 15.8 | 7.94 | 11.53 | 8.36 |
| 53322 | 'Nucb2' | 34.2 | 36.94 | 10.7 | 73.7 | 20.6 | 15.42 | 37.2 | 17.66 | 40.4 | 48.18 |
| 53323 | 'Ube2k' | 20.14 | 21.1 | 23.2 | 32.8 | 25.8 | 29.4 | 22.8 | 30.07 | 30.55 | 27.06 |
| 53324 | 'Nptx2' | 0 | 0.81 | 2.27 | 4.06 | 0 | 0 | 0 | 1.56 | 3.16 | 0.53 |
| 53325 | 'Banp' | 24.97 | 29.07 | 20 | 6.65 | 14.5 | 27.91 | 4.08 | 26.52 | 13.9 | 13.52 |
| 53328 | 'Pgrmc1' | 810.5 | 1100 | 679 | 595 | 735 | 753 | 997 | 845.9 | 617.9 | 812.9 |
| 53330 | 'Vamp4' | 36.46 | 35.17 | 33.2 | 54.1 | 39.3 | 34.68 | 24.7 | 39.67 | 60.54 | 53.11 |
| 53331 | 'Stx7' | 134 | 117.7 | 95.7 | 117 | 112 | 124.7 | 134 | 101.7 | 101.2 | 88.39 |
| 53332 | 'Mtmr1' | 0.02 | 2.41 | 0.23 | 1.92 | 0.06 | 1.19 | 0 | 1.86 | 2.03 | 1.33 |
| 53333 | 'Tom40' | 107.5 | 84.03 | 154 | 104 | 115 | 177.7 | 109 | 100.1 | 157.4 | 56.76 |
| 53334 | 'Gosr1' | 24.03 | 14.43 | 21.3 | 15.2 | 13.7 | 13.83 | 22.6 | 19.59 | 14.9 | 32.25 |
| 53356 | 'Eif3g' | 188 | 118.6 | 152 | 144 | 152 | 169 | 133 | 161.8 | 139.9 | 144.94 |
| 53357 | 'Pla2g6' | 17.04 | 13.48 | 5.78 | 0.96 | 20.2 | 10.69 | 17.1 | 10.14 | 29.12 | 9.94 |
| 53374 | 'Chst3' | 0 | 0.01 | 1.43 | 1.15 | 0.27 | 0.02 | 0.01 | 0 | 0.01 | 0.01 |
| 53375 | 'Mtx2' | 67.41 | 73.44 | 60.4 | 99.3 | 54.4 | 65.9 | 70.4 | 47.92 | 100.3 | 40.89 |
| 53376 | 'Usp2' | 7.21 | 10.5 | 22.9 | 20.1 | 5.84 | 17.02 | 8.13 | 4.27 | 6.84 | 9.27 |
| 53378 | 'Sdcbp' | 272.2 | 424.5 | 150 | 341 | 284 | 269.5 | 141 | 235.5 | 271.3 | 293.09 |
| 53379 | 'Hnrnpa2b1' | 205.7 | 253.9 | 142 | 133 | 233 | 196.6 | 168 | 192.2 | 185.5 | 210.13 |
| 53380 | 'Psm10' | 53.38 | 39.98 | 43.4 | 35.4 | 41.7 | 67.56 | 35.8 | 42.11 | 48.53 | 56.11 |
| 53381 | 'Prdx4' | 30.38 | 53.86 | 46.5 | 46 | 21.3 | 59.59 | 63.7 | 43.2 | 55.84 | 64.33 |
| 53382 | 'Txnl1' | 65.16 | 84.96 | 92.3 | 56.9 | 64.7 | 68.51 | 79.3 | 79 | 69.88 | 74.68 |
| 53404 | 'Atoh7' | 0 | 0 | 3.74 | 0.77 | 2.62 | 4.79 | 5.47 | 3.69 | 1.77 | 0 |
| 53412 | 'Ppp1r3c' | 7.11 | 2.67 | 0.11 | 13.8 | 0.04 | 2.59 | 6.17 | 4.49 | 4.28 | 0 |
| 53413 | 'Exoc7' | 42.35 | 41.24 | 34.1 | 49.6 | 49.3 | 30.77 | 72.4 | 44.91 | 61.01 | 61.63 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 53414 | 'Bysl' | 7.27 | 7.51 | 9.84 | 24.2 | 7.11 | 9.53 | 15.4 | 14.99 | 4.98 | 11.64 |
| 53415 | 'Htati2' | 25.2 | 20.58 | 16.1 | 42.8 | 1.31 | 24.09 | 3.75 | 25.15 | 25.01 | 35.87 |
| 53416 | 'Stk39' | 4.98 | 3.42 | 5.28 | 6.35 | 9.77 | 3.23 | 4.06 | 4.21 | 2.17 | 2.16 |
| 53417 | 'Hif3a' | 1.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 53418 | 'B4galt2' | 2.71 | 0.06 | 0 | 3.54 | 2.38 | 0.02 | 3.56 | 2.26 | 2.79 | 1.76 |
| 53419 | 'Corin' | 0.03 | 3.01 | 0.02 | 0 | 0.01 | 0.01 | 0 | 0 | 0.01 | 0 |
| 53420 | 'Syt5' | 312.4 | 424.7 | 334 | 274 | 355 | 283 | 177 | 373 | 399.6 | 562.34 |
| 53421 | 'Sec61a1' | 13.35 | 13.07 | 21.7 | 14.7 | 7.64 | 18.52 | 11.8 | 6.69 | 33.86 | 17.24 |
| 53422 | 'Ybx2' | 0 | 0 | 0 | 0 | 0 | 4.11 | 0 | 0.56 | 0 | 0 |
| 53424 | 'Tsnax' | 146.6 | 137.4 | 149 | 150 | 138 | 115.6 | 141 | 182.2 | 125.5 | 188.18 |
| 53598 | 'Dctn3' | 376.4 | 356.4 | 301 | 306 | 280 | 429.3 | 317 | 399.9 | 364.8 | 403.53 |
| 53599 | 'Cd164' | 28.58 | 50.25 | 28.9 | 14.5 | 20.5 | 20.1 | 17.4 | 34.55 | 61.84 | 61.62 |
| 53600 | 'Timm23' | 138.8 | 202.2 | 183 | 204 | 156 | 285 | 206 | 249.3 | 182.1 | 161.16 |
| 53602 | 'Hpcal1' | 258.9 | 309.8 | 344 | 816 | 147 | 329 | 164 | 300.7 | 326 | 391.85 |
| 53603 | 'Tslp' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53604 | 'Zbp1' | 0 | 0 | 0.99 | 0 | 0 | 1.7 | 0 | 0.05 | 0 | 0 |
| 53605 | 'Nap111' | 83.94 | 119.6 | 61.1 | 104 | 68.9 | 84.49 | 116 | 81.34 | 93.12 | 70.24 |
| 53607 | 'Snrpa' | 135.1 | 79.64 | 77.9 | 76.4 | 119 | 133.3 | 103 | 105.3 | 134.3 | 110.72 |
| 53608 | 'Map3k6' | 1.11 | 0 | 0.73 | 3.09 | 0 | 0 | 1.65 | 0 | 0 | 1.04 |
| 53609 | 'Clasrp' | 25.93 | 24.16 | 47.4 | 30 | 24.3 | 28.29 | 26.5 | 18.95 | 27.48 | 11.39 |
| 53610 | 'Nono' | 58.54 | 82.7 | 71.4 | 52.2 | 50 | 60.33 | 92.1 | 58 | 50.32 | 60.6 |
| 53611 | 'Vti1a' | 6.2 | 8.78 | 7.49 | 9.29 | 12.1 | 5.21 | 13.4 | 11.22 | 15.65 | 10.96 |
| 53612 | 'Vti1b' | 238.4 | 272.6 | 175 | 275 | 267 | 318 | 248 | 244.2 | 287 | 376.48 |
| 53614 | 'Reck' | 0.02 | 0.53 | 0.01 | 3.78 | 3.06 | 0 | 0 | 0 | 0.95 | 0 |
| 53618 | 'Fut8' | 64.04 | 36.67 | 41.2 | 47.6 | 31.8 | 40.24 | 47.5 | 40.8 | 47.81 | 17.91 |
| 53619 | 'Blcap' | 312.6 | 295 | 270 | 206 | 282 | 283.1 | 318 | 309.7 | 270.4 | 393.66 |
| 53620 | 'Vamp5' | 0 | 1.56 | 0.09 | 0 | 3.62 | 0.06 | 2.57 | 0 | 0.03 | 0 |
| 53621 | 'Cnot4' | 23.43 | 20.13 | 16.1 | 11.7 | 8.21 | 8.18 | 10.1 | 13.94 | 5.82 | 17.85 |
| 53623 | 'Gria3' | 10.68 | 30.5 | 18.9 | 12.8 | 16.7 | 12.88 | 17.1 | 17.7 | 6.6 | 26.6 |
| 53624 | 'Cldn7' | 0 | 0 | 0 | 0.06 | 12.4 | 5.34 | 0.84 | 0 | 0.59 | 2.06 |
| 53625 | 'B3gnt2' | 21.52 | 18.6 | 7.69 | 27.9 | 31.1 | 4.01 | 0.06 | 8.27 | 1.27 | 2.94 |
| 53626 | 'Insm1' | 0.4 | 0 | 0.05 | 0 | 0 | 0.57 | 0.07 | 0.05 | 0 | 0.15 |
| 53627 | 'Porcn' | 31.51 | 34.41 | 47.8 | 7.33 | 30 | 18.18 | 52.6 | 45.63 | 1.69 | 14.05 |
| 53761 | 'Prcc2a' | 6.74 | 7.77 | 4.76 | 8.34 | 8.77 | 2.3 | 9.46 | 4.8 | 10.9 | 6.47 |
| 53814 | 'Oaz3' | 0.15 | 0.11 | 0 | 0 | 0 | 0.6 | 0.55 | 0.23 | 0 | 0 |
| 53817 | 'Ddx39b' | 116.5 | 110 | 126 | 110 | 96.7 | 183.7 | 103 | 155.6 | 129.5 | 116.83 |
| 53857 | 'Tuba8' | 10.93 | 15.12 | 2.95 | 44.6 | 3.09 | 0 | 0.1 | 16.91 | 5.78 | 9.78 |
| 53858 | 'Rwdd2b' | 4.48 | 13.93 | 2.83 | 0 | 7.72 | 5.08 | 16.1 | 2.9 | 0 | 6.22 |
| 53859 | 'Map3k14' | 0.01 | 3.42 | 0 | 0 | 0.37 | 0 | 3.35 | 0.44 | 1.02 | 0.26 |
| 53860 | 'Sept9' | 7.34 | 10.5 | 10.8 | 7.7 | 12.3 | 14.5 | 24 | 15.59 | 18.03 | 12.69 |
| 53861 | 'Zranb2' | 50.54 | 39.93 | 34 | 47.9 | 52.6 | 56.54 | 51.1 | 49.62 | 49.8 | 45.11 |
| 53867 | 'Col5a3' | 0 | 0 | 1.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53868 | 'Rab25' | 0 | 0 | 0 | 0 | 16.8 | 0 | 0 | 0 | 0 | 0 |
| 53869 | 'Rab11a' | 161.6 | 166.8 | 164 | 96 | 126 | 196.4 | 153 | 182.1 | 191.2 | 185.16 |
| 53870 | 'Cntn6' | 21.93 | 3.01 | 4.87 | 9.07 | 11.4 | 15.9 | 21.4 | 8.81 | 19.73 | 22.38 |
| 53871 | 'Pkd2l2' | 0 | 0.22 | 0.02 | 3.06 | 0.09 | 0.02 | 0 | 0 | 0 | 2.39 |
| 53872 | 'Caprin1' | 30.05 | 44.65 | 48.4 | 28.6 | 15.1 | 11.78 | 34.7 | 33.52 | 38.74 | 36.41 |
| 53881 | 'Slc5a3' | 3.09 | 2.22 | 1.95 | 5.28 | 3.87 | 1.67 | 5.82 | 4.82 | 5.46 | 4.81 |
| 53883 | 'Celsr2' | 6.69 | 5.8 | 12.8 | 12.9 | 10.9 | 10.54 | 9.96 | 7.89 | 4.04 | 6.27 |
| 53885 | 'Nphp1' | 10.62 | 17.39 | 15.8 | 34 | 9.32 | 8.16 | 19.9 | 16.01 | 9.12 | 7.92 |
| 53886 | 'Cdkl2' | 27.41 | 26.63 | 4.73 | 19.7 | 32.2 | 8.41 | 4.33 | 20.15 | 23.28 | 14.06 |
| 53890 | 'Sart3' | 3.32 | 0.62 | 4.2 | 14.6 | 12 | 9.49 | 2.55 | 0.36 | 11.97 | 4.7 |
| 53892 | 'Ppm1d' | 0.87 | 0.54 | 0.99 | 1.66 | 4.25 | 0 | 0 | 0.08 | 3.32 | 0 |
| 53893 | 'Nudt5' | 6.83 | 11.21 | 4.12 | 4.64 | 3.06 | 8.61 | 0.22 | 8.58 | 10.28 | 7.64 |
| 53895 | 'Clpp' | 161.6 | 164.9 | 150 | 192 | 179 | 223.7 | 168 | 213.4 | 223.4 | 136.19 |
| 53896 | 'Slc7a10' | 24.56 | 16.77 | 10.5 | 21.7 | 6.03 | 8.39 | 5.98 | 5.25 | 15.89 | 0.02 |
| 53897 | 'Gal3st1' | 1.37 | 0.11 | 6.53 | 0 | 3.24 | 7.62 | 1.1 | 5.11 | 3.94 | 0.94 |
| 53901 | 'Rcan2' | 89.71 | 58.15 | 86.5 | 28.7 | 44.6 | 25.91 | 125 | 84.09 | 60.24 | 32.92 |

| | | | | | | | | | | | |
|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 53902 | 'Rcan3' | 5.75 | 4.02 | 14.7 | 2.76 | 7.13 | 6.51 | 11 | 4.07 | 9.85 | 3.99 |
| 53945 | 'Slc40a1' | 0 | 0 | 0.01 | 0 | 0.03 | 0.12 | 3.31 | 0 | 1.83 | 1.94 |
| 53951 | 'Gpatch11' | 13.61 | 8.98 | 7.54 | 9.04 | 3.76 | 6.54 | 2.67 | 6.05 | 12.9 | 5.51 |
| 53970 | 'Rfx5' | 0.75 | 0.18 | 0.18 | 3.19 | 1.74 | 2.63 | 2.5 | 2.53 | 2.45 | 2.51 |
| 53972 | 'Ngef' | 42.73 | 44.05 | 44.7 | 35.9 | 22.4 | 52.94 | 31.4 | 43.46 | 25.37 | 35.42 |
| 53975 | 'Ddx20' | 4.02 | 5.79 | 7.39 | 0.05 | 3.29 | 11.56 | 4.13 | 11.17 | 11.49 | 14.96 |
| 53978 | 'Lpar2' | 0 | 0.02 | 0.01 | 0 | 0 | 0 | 2.12 | 0 | 1.15 | 0 |
| 54003 | 'Nell2' | 64.82 | 44.64 | 40.1 | 141 | 22 | 25.9 | 87 | 63.91 | 48.42 | 21.69 |
| 54004 | 'Diaph2' | 0.12 | 0.38 | 0.1 | 0.03 | 0 | 0.32 | 0.07 | 0.05 | 0 | 0.38 |
| 54006 | 'Deaf1' | 32.11 | 22.84 | 64.9 | 27.6 | 34.6 | 28.95 | 26.8 | 23.68 | 33.5 | 6.95 |
| 54120 | 'Gipc2' | 4.68 | 3.38 | 9.76 | 5.31 | 2.86 | 11.8 | 10.2 | 5.73 | 2.58 | 5.2 |
| 54122 | 'Uevld' | 3.35 | 6.39 | 4.72 | 4.14 | 0.04 | 4.92 | 3.17 | 2.35 | 11.4 | 6.13 |
| 54123 | 'Irf7' | 0 | 1.91 | 5.94 | 16.3 | 7.87 | 2.31 | 0 | 0.3 | 6.05 | 1.62 |
| 54124 | 'Cks1b' | 3.23 | 12.96 | 0.27 | 14.1 | 6.19 | 6.7 | 0.07 | 0.06 | 0 | 9.3 |
| 54125 | 'Polm' | 2.72 | 5.74 | 2.25 | 0 | 0 | 0 | 2.29 | 5.12 | 4.61 | 1.57 |
| 54126 | 'Arhgef7' | 8.38 | 15.32 | 13.7 | 9.53 | 6.9 | 9.94 | 6.27 | 10.72 | 16.38 | 24.29 |
| 54127 | 'Rps28' | 103.4 | 186.1 | 240 | 279 | 83.7 | 329.4 | 171 | 67.33 | 166.1 | 77.63 |
| 54128 | 'Pmm2' | 5 | 20.52 | 12.8 | 12.3 | 10.7 | 19.62 | 19.5 | 10.05 | 0.13 | 5.6 |
| 54130 | 'Actr1a' | 126.5 | 101.1 | 131 | 97.6 | 77.6 | 89.68 | 149 | 125.8 | 114.2 | 183.2 |
| 54131 | 'Irf3' | 16.55 | 12.74 | 14.7 | 10.6 | 31.8 | 2.1 | 0.07 | 9.16 | 8.88 | 23.09 |
| 54132 | 'Pdlim1' | 0 | 0.03 | 0.03 | 0 | 4.01 | 0 | 0 | 0 | 0 | 0 |
| 54135 | 'Lsr' | 0 | 0.05 | 0 | 0 | 5.7 | 4.43 | 0.03 | 0 | 0.02 | 0 |
| 54137 | 'Acrbp' | 2.83 | 4.74 | 5.7 | 0 | 11.8 | 3.53 | 13.2 | 0 | 8.58 | 16.06 |
| 54138 | 'Atxn10' | 218 | 243.5 | 301 | 297 | 231 | 222.2 | 321 | 259 | 251.3 | 274.5 |
| 54139 | 'Irf6' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54140 | 'Avpr1a' | 0.88 | 0 | 0 | 0 | 0.02 | 1.25 | 19.7 | 0 | 3.63 | 2.14 |
| 54141 | 'Spag5' | 2.2 | 0.08 | 0 | 2.34 | 1.56 | 0 | 0 | 0 | 0 | 0 |
| 54151 | 'Cyhr1' | 49.76 | 66.82 | 56.3 | 6.62 | 64.6 | 54.4 | 59.4 | 36.29 | 50.85 | 50.78 |
| 54152 | 'Dnal4' | 37.03 | 39.27 | 64.6 | 18.4 | 75.6 | 33.86 | 39.9 | 60.79 | 101.3 | 57.9 |
| 54153 | 'Rasa4' | 7.64 | 11.79 | 8.25 | 7.54 | 9.97 | 10.48 | 1.87 | 6.42 | 14.5 | 7.36 |
| 54156 | 'Egfl6' | 4.52 | 1.86 | 8.03 | 0 | 0.16 | 1.34 | 0 | 1.21 | 0 | 0 |
| 54160 | 'Copg2' | 29.21 | 13.97 | 28.6 | 5.62 | 18.2 | 22.77 | 43.5 | 34.6 | 58.5 | 37.32 |
| 54161 | 'Copg1' | 188.2 | 228.3 | 249 | 128 | 178 | 143.1 | 238 | 208.6 | 202.9 | 230.63 |
| 541610 | 'Trcg1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 |
| 54169 | 'Kat6b' | 4.14 | 7.69 | 3.16 | 4.69 | 3.37 | 1.32 | 5.38 | 1.21 | 1.78 | 2.49 |
| 54170 | 'Rragc' | 13.98 | 4.18 | 17.7 | 21.4 | 3.25 | 8.89 | 15.1 | 11.15 | 19.26 | 6.25 |
| 54188 | 'Cpsf4' | 16.01 | 8.37 | 8.39 | 5.09 | 8.79 | 3.4 | 9.61 | 9.72 | 10.34 | 3.4 |
| 54189 | 'Rabep1' | 13.98 | 11.87 | 15.7 | 18.4 | 9.08 | 5.97 | 19.8 | 15.66 | 13.58 | 9.47 |
| 54194 | 'Akap8l' | 110 | 147.6 | 106 | 150 | 127 | 141.6 | 134 | 128.2 | 137.1 | 158.65 |
| 54195 | 'Gucy1b1' | 62.91 | 61.75 | 35.4 | 30.9 | 69.1 | 40.4 | 83.7 | 75.32 | 78.33 | 76.17 |
| 54196 | 'Pabpn1' | 27.05 | 18.24 | 18.5 | 22.7 | 31.3 | 51.69 | 28.1 | 40.35 | 21.71 | 22.91 |
| 54197 | 'Rnf5' | 113.4 | 128 | 122 | 128 | 161 | 94.37 | 173 | 177.7 | 93.11 | 130.3 |
| 54198 | 'Snx3' | 332 | 236.9 | 216 | 214 | 179 | 342.7 | 385 | 240.3 | 245.6 | 207.32 |
| 54199 | 'Ccr12' | 0.03 | 0 | 0 | 0 | 0 | 18.05 | 0 | 0.02 | 0 | 0 |
| 54200 | 'Sult2b1' | 4.25 | 2.01 | 10.1 | 9.01 | 10.3 | 14.56 | 9.12 | 12.06 | 0 | 17.02 |
| 54201 | 'Zfp316' | 1.56 | 2.2 | 3.73 | 3.11 | 2.91 | 2.42 | 1.29 | 2.2 | 1.37 | 0.97 |
| 54204 | 'Sept1' | 2.32 | 0.66 | 1.01 | 0 | 0.41 | 1.84 | 0.11 | 0 | 0.84 | 0.45 |
| 54208 | 'Arl6ip1' | 362.6 | 353.9 | 347 | 339 | 314 | 358.6 | 439 | 328.1 | 298.4 | 329.91 |
| 54214 | 'Golga4' | 8.02 | 8.52 | 5.05 | 9.47 | 7.98 | 7.35 | 4.24 | 2.38 | 2.68 | 5.36 |
| 54215 | 'Cd160' | 0 | 0.37 | 0 | 3.04 | 0 | 0 | 0.2 | 0 | 0.36 | 0 |
| 54216 | 'Pcdh7' | 10.16 | 10.08 | 6.68 | 7.08 | 7.77 | 11.29 | 15.9 | 11.18 | 5.83 | 5.66 |
| 54217 | 'Rpl36' | 262 | 294.9 | 447 | 437 | 270 | 396.8 | 282 | 131.8 | 291.4 | 228.98 |
| 54218 | 'B3galt4' | 0 | 5.69 | 1.91 | 0 | 3.34 | 2.2 | 0 | 4.11 | 6.52 | 0 |
| 54219 | 'Cd320' | 27.39 | 26.45 | 6.91 | 52.7 | 13.3 | 35.44 | 22.7 | 25.41 | 31.17 | 37.34 |
| 54324 | 'Arhgef5' | 0 | 0 | 0 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 |
| 54325 | 'Elovl1' | 12.25 | 6.19 | 4.06 | 13.7 | 6.42 | 17.74 | 9.72 | 5.5 | 9.31 | 6.79 |
| 54326 | 'Elovl2' | 0.61 | 1.46 | 0 | 2.59 | 0.01 | 0.64 | 0 | 0 | 3.03 | 0 |
| 54338 | 'Slc23a2' | 39.99 | 26.04 | 42.5 | 8.05 | 33.5 | 14.02 | 31.3 | 15.66 | 30.49 | 15.23 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 54342 | 'Gnpnat1' | 13.67 | 4.85 | 11.7 | 10 | 19 | 15.66 | 3.54 | 12.85 | 10.54 | 15.45 |
| 54343 | 'Atf7ip' | 2.5 | 2.1 | 2.4 | 1.79 | 3.45 | 4.91 | 2.16 | 2.61 | 7.94 | 5.08 |
| 54351 | 'Elp5' | 109.9 | 75.47 | 113 | 86.5 | 69.6 | 120.8 | 86.8 | 60.64 | 101.6 | 67.58 |
| 54352 | 'Irx5' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 1.13 | 0 | 0 |
| 54353 | 'Skap2' | 2.96 | 4.14 | 1.75 | 6.25 | 2.12 | 5.49 | 16.2 | 0.79 | 6 | 7.35 |
| 54354 | 'Rassf5' | 2.6 | 3.43 | 12 | 0 | 4.16 | 6.55 | 11.2 | 5.6 | 1.19 | 1.99 |
| 54357 | 'Epb4114b' | 1.06 | 4.45 | 5.31 | 4.57 | 4.35 | 5.9 | 4.22 | 2.5 | 1.77 | 7.13 |
| 54364 | 'Rpp30' | 26.74 | 32.47 | 16.6 | 22.8 | 31.8 | 58.64 | 47.5 | 40.65 | 34.83 | 29.19 |
| 54366 | 'Ctnnal1' | 3.57 | 3.2 | 1.72 | 2.8 | 3.9 | 0.41 | 9.02 | 2.79 | 4.37 | 0.61 |
| 54367 | 'Zfp326' | 17.93 | 10.49 | 15.5 | 28 | 11.4 | 12.04 | 13.5 | 7.49 | 12.54 | 14.28 |
| 54368 | 'Gp9' | 0 | 1.12 | 0.52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54369 | 'Nme6' | 29.99 | 19.63 | 12.9 | 11.2 | 7.29 | 26.33 | 9.92 | 6.16 | 32 | 31.72 |
| 54371 | 'Chst2' | 3.55 | 7.06 | 8.84 | 5.09 | 6.07 | 4.18 | 6.03 | 8.16 | 6.08 | 4.2 |
| 54375 | 'Azin1' | 17.73 | 19.94 | 25.6 | 25.1 | 17.4 | 12.26 | 8.63 | 10.5 | 14.05 | 16.22 |
| 54376 | 'Cacng3' | 19.06 | 26.94 | 45.7 | 17.8 | 7.74 | 44.06 | 15.2 | 45.2 | 18.73 | 0 |
| 54377 | 'Cacng4' | 0.7 | 10.73 | 10.8 | 7.54 | 4.2 | 0.34 | 9.49 | 9.53 | 5.54 | 4.24 |
| 54378 | 'Cacng6' | 0.04 | 0 | 0 | 3.87 | 1.16 | 0 | 0 | 0 | 0 | 0 |
| 54380 | 'Smarcal1' | 7.63 | 9.89 | 20.8 | 6.07 | 7.58 | 5.5 | 11.3 | 6.9 | 9.15 | 9.83 |
| 54381 | 'Cpq' | 16.87 | 21.35 | 14.1 | 29.1 | 15.2 | 7.38 | 37.8 | 12.67 | 0.06 | 25.17 |
| 54383 | 'Phc2' | 8.33 | 6.89 | 4.6 | 8.58 | 2.39 | 3.36 | 17.4 | 10.87 | 18.1 | 8.7 |
| 54384 | 'Mtmr7' | 43.27 | 25.13 | 33.6 | 8.66 | 22 | 28.73 | 35.2 | 39.39 | 29.09 | 31.59 |
| 54387 | 'Mcm3ap' | 7.93 | 3.23 | 3.99 | 4.61 | 3.91 | 4.79 | 2.35 | 2.21 | 5.51 | 5.7 |
| 54390 | 'Sit1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.19 |
| 54391 | 'Rfk' | 69.17 | 67.65 | 61.6 | 74.7 | 52.6 | 54.91 | 71.6 | 34.63 | 59.82 | 16.82 |
| 54392 | 'Ncapg' | 0 | 0 | 0 | 0.75 | 0 | 0 | 0.05 | 0 | 0 | 0 |
| 54393 | 'Gabbr1' | 44.32 | 45.4 | 49.9 | 42 | 38.9 | 26.06 | 46.6 | 40.73 | 54.12 | 57.77 |
| 54394 | 'Crlf3' | 23.05 | 6.96 | 11 | 0.09 | 5.4 | 0.34 | 6.9 | 1.22 | 7.29 | 8.13 |
| 54396 | 'Irgm2' | 0 | 0 | 0.04 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0.01 |
| 54397 | 'Ppt2' | 4.05 | 6.61 | 0.96 | 2.72 | 12.1 | 1.76 | 7.58 | 9.7 | 10.14 | 11.47 |
| 54399 | 'Bet1l' | 19.34 | 24.85 | 14.6 | 13.4 | 49.8 | 64.14 | 42.3 | 35.67 | 39.17 | 32.55 |
| 54401 | 'Ywhab' | 411 | 355.7 | 369 | 284 | 273 | 314.9 | 387 | 405 | 371.8 | 281 |
| 54402 | 'Stk19' | 81.62 | 67.55 | 63.2 | 78.9 | 56 | 46.23 | 36.7 | 70.79 | 49.87 | 58.67 |
| 54403 | 'Slc4a4' | 1.65 | 1.86 | 1.35 | 4.76 | 2.29 | 3.13 | 1.43 | 0 | 1.44 | 0.42 |
| 54405 | 'Ndufa1' | 348.6 | 380.5 | 329 | 529 | 332 | 604.4 | 399 | 249.4 | 505.2 | 382.21 |
| 54409 | 'Ramp2' | 3.93 | 3.11 | 14.4 | 25.1 | 4.96 | 0 | 9.97 | 13.27 | 6.63 | 3.29 |
| 54411 | 'Atp6ap1' | 323.6 | 370.6 | 333 | 374 | 297 | 317.8 | 368 | 368.9 | 340.3 | 313.24 |
| 54418 | 'Fmn2' | 2.78 | 1.1 | 2.54 | 3.03 | 0.27 | 1.59 | 1.58 | 0.46 | 0.91 | 1.54 |
| 54422 | 'Barhl1' | 0 | 0 | 0 | 0 | 0 | 0.89 | 0 | 0 | 0 | 0 |
| 54445 | 'Unc93b1' | 3.18 | 0 | 0 | 0.03 | 0.05 | 10.75 | 0 | 0 | 3.23 | 3.66 |
| 54446 | 'Nfat5' | 0.92 | 1.03 | 0.89 | 0.78 | 0.71 | 2.97 | 0.01 | 0.55 | 0.27 | 1.63 |
| 54447 | 'Asah2' | 0.01 | 0 | 3.86 | 0 | 1.55 | 0 | 0 | 0.97 | 1.59 | 0.1 |
| 54451 | 'Cpsf3' | 42.17 | 69.16 | 57.6 | 45.2 | 61.5 | 26.96 | 77.9 | 55.39 | 49.71 | 31.74 |
| 544678 | 'Cfap74' | 9.29 | 6.37 | 6.31 | 17.2 | 10.7 | 16.36 | 9.82 | 10.58 | 6.23 | 20.66 |
| 544696 | 'Tbc1d32' | 1.38 | 1.64 | 0.54 | 1.47 | 0.39 | 1.76 | 2.95 | 0.85 | 3.07 | 1.1 |
| 544717 | '1190007I07Rik' | 19.8 | 20.25 | 18 | 13.8 | 17.7 | 23.57 | 20.7 | 8.54 | 13.95 | 19.3 |
| 54473 | 'Tollip' | 50.22 | 77.14 | 71.5 | 35.4 | 79.8 | 26.12 | 50.3 | 81.68 | 86.42 | 73.03 |
| 544736 | 'Glipr1l3' | 0 | 0 | 0 | 0 | 0 | 0 | 4.43 | 0 | 0 | 0 |
| 544763 | 'Hbq1b' | 0 | 0 | 0 | 0 | 0.03 | 0.03 | 0 | 0 | 0 | 0 |
| 544791 | 'Myh13' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 544817 | 'Arhgap27' | 5.92 | 2.41 | 13.7 | 15.5 | 3.17 | 3.02 | 6.46 | 5.47 | 4.38 | 7.94 |
| 54484 | 'Mkrn1' | 35.62 | 28.21 | 30.2 | 39.1 | 21.8 | 37.01 | 68.7 | 37.91 | 40.6 | 32.68 |
| 54485 | 'Dil4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.23 | 0 |
| 54486 | 'Hpgds' | 4.52 | 16.73 | 0.18 | 13.6 | 2.32 | 0.63 | 0.41 | 2.93 | 1.63 | 2.32 |
| 544864 | 'Gm5785' | 0.07 | 0.12 | 0.13 | 1.5 | 0.13 | 0.61 | 0.1 | 0.05 | 0.18 | 0.11 |
| 544922 | 'Zkscan4' | 2.71 | 0.8 | 4.25 | 7.98 | 4.59 | 0.02 | 6.87 | 0.73 | 3.77 | 2.93 |
| 544963 | 'Iqgap2' | 0.79 | 0.52 | 0 | 0 | 0.91 | 0 | 0.02 | 0.23 | 0.15 | 0.5 |
| 544971 | 'Bdp1' | 2.02 | 0.86 | 1.83 | 7.64 | 2.42 | 1.51 | 3.73 | 1.47 | 4.33 | 1.33 |
| 544990 | 'Gm5795' | 0.28 | 0 | 1.85 | 0 | 0 | 0 | 2.84 | 1.67 | 0.75 | 0 |

| | | | | | | | | | | | |
|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 545007 | 'Gm5796' | 1.7 | 2.7 | 2.63 | 1.52 | 4.06 | 0.19 | 1.61 | 3.09 | 2.06 | 1.45 |
| 545055 | 'Cma2' | 4.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 545085 | 'Wdr70' | 7.02 | 9.34 | 6.68 | 0.74 | 7.53 | 5.55 | 6.77 | 6.83 | 14.5 | 11.42 |
| 545124 | 'Tdg-ps' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 545136 | 'Fam186b' | 0.87 | 1.87 | 0 | 0.4 | 0 | 0 | 2.03 | 0.3 | 0.17 | 0 |
| 545140 | 'Olfr288' | 0.13 | 0 | 0.1 | 0 | 0 | 0.04 | 0 | 2.36 | 0 | 0 |
| 545156 | 'Kalrn' | 3.7 | 2.89 | 5.37 | 3.51 | 6.58 | 2.87 | 3.98 | 5.29 | 4.22 | 1.53 |
| 54519 | 'Apbb1ip' | 2.34 | 1.3 | 0.02 | 0 | 1.41 | 11.48 | 3.74 | 0 | 0 | 3.25 |
| 545192 | 'Baip3' | 172 | 148.5 | 163 | 98 | 107 | 86.53 | 116 | 99.49 | 123.6 | 142.95 |
| 54524 | 'Syf6' | 36.05 | 3.89 | 0.24 | 29 | 0.54 | 0 | 0.09 | 4.57 | 0 | 0.03 |
| 54525 | 'Syf7' | 2.55 | 1.1 | 3.56 | 3.12 | 1.92 | 0.83 | 0.59 | 1.46 | 2.59 | 1.48 |
| 545253 | 'Gm5820' | 0.76 | 1.14 | 2.96 | 2.24 | 4.23 | 1.29 | 0 | 1.61 | 6.23 | 6.19 |
| 54526 | 'Syf10' | 13.85 | 8.47 | 12 | 29.2 | 10.9 | 2.28 | 1.2 | 7.83 | 14.64 | 27.65 |
| 545276 | 'Gal3st3' | 17.54 | 13.1 | 15 | 10 | 12.1 | 17.95 | 29.7 | 13.36 | 18.56 | 5.05 |
| 545291 | 'Hpse2' | 0.07 | 0 | 0 | 0 | 0 | 0 | 0.02 | 3.24 | 0 | 0 |
| 545370 | 'Hmcn1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.19 | 0 | 0 | 0 |
| 545389 | 'Cep170' | 8.21 | 10.26 | 7.92 | 13.5 | 6.27 | 4.06 | 5.48 | 6.02 | 13.69 | 11.09 |
| 545391 | 'Catspere2' | 1.37 | 0.47 | 2.21 | 1.13 | 0.72 | 1.86 | 1.24 | 1.09 | 3.04 | 0.13 |
| 545428 | 'Ccdc141' | 1.64 | 4.04 | 0.03 | 0 | 0.3 | 0.02 | 2.8 | 0 | 0 | 0.02 |
| 545471 | 'Zfp345' | 0 | 0 | 0 | 0.02 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 545474 | 'Scrt2' | 0 | 0 | 0 | 0.02 | 1.03 | 0 | 0 | 0 | 0 | 0.15 |
| 545481 | 'Arhgap40' | 0 | 1.19 | 0.12 | 0 | 0 | 0 | 0 | 0.1 | 0 | 1.09 |
| 545490 | 'Zfp973' | 1 | 1.68 | 2.94 | 0.98 | 2.89 | 0.71 | 3.1 | 2.24 | 1.31 | 0.68 |
| 545527 | 'Erich6' | 0.33 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 545554 | 'Ankrd34a' | 19.56 | 32.07 | 12.3 | 3.44 | 25.9 | 10.23 | 17.2 | 9.55 | 41.85 | 7.23 |
| 545562 | 'Amy2b' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54561 | 'Nap1l3' | 55.02 | 68.27 | 60.9 | 37.4 | 51.4 | 58.72 | 72.2 | 48.23 | 40.87 | 41.52 |
| 545611 | 'Fam205a2' | 2.06 | 1.76 | 1.28 | 0.89 | 2.74 | 1.13 | 0.24 | 1.03 | 1.86 | 0.03 |
| 54562 | 'Lrrc6' | 12.05 | 4.29 | 3.05 | 15.6 | 1.73 | 0.02 | 1.47 | 7.62 | 6.91 | 3.54 |
| 545622 | 'Ptpn3' | 0 | 0.25 | 0.24 | 0 | 0 | 0 | 0.12 | 0.42 | 0.38 | 0 |
| 54563 | 'Nup210' | 1.16 | 0.59 | 1.11 | 1.6 | 5.63 | 0.62 | 2.17 | 1.77 | 1.24 | 1.45 |
| 545645 | 'Gm13283' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.62 | 0 |
| 545649 | 'Gm13276' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.51 | 0 |
| 545651 | 'Gm13278' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.21 | 0 |
| 545652 | 'Gm13275' | 0 | 0 | 0.19 | 0.07 | 0 | 0 | 0 | 0 | 0.17 | 0 |
| 545662 | 'B020004J07Rik' | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 545667 | 'Shisal2a' | 5.44 | 7.19 | 13.4 | 0 | 0 | 23.07 | 0 | 5.37 | 3.01 | 6.61 |
| 545725 | 'Mterf1a' | 5.5 | 1.53 | 0.04 | 0 | 3.84 | 0.09 | 0 | 2.83 | 1.81 | 4.26 |
| 545814 | 'Smok3a' | 0 | 0 | 0.04 | 0.87 | 0.18 | 0 | 0 | 0 | 0 | 0 |
| 545817 | 'Cyp2w1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 545824 | 'Zar1l' | 0 | 0 | 0 | 1.92 | 0 | 0 | 0 | 0.14 | 0 | 0 |
| 545893 | 'Mansc4' | 0 | 3.69 | 0 | 0 | 0 | 7.01 | 0 | 0 | 0 | 0 |
| 545902 | 'Ptprh' | 0 | 0.07 | 1.01 | 0.39 | 0 | 0 | 0 | 0 | 0 | 0 |
| 545929 | 'Gm5891' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 545938 | 'Zfp607a' | 0.1 | 0.03 | 0.02 | 0.02 | 0 | 0 | 0.03 | 0.02 | 0 | 0 |
| 545975 | 'Cers3' | 0 | 0 | 0 | 0 | 0 | 0.35 | 0 | 0.01 | 0.08 | 0 |
| 54598 | 'Calcr1' | 0 | 0.18 | 1.08 | 0 | 0 | 0 | 1.48 | 0.16 | 0 | 0 |
| 54601 | 'Foxo4' | 0 | 0.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.43 |
| 546024 | 'Crxos' | 2.33 | 0 | 0.02 | 0 | 0 | 0 | 0.06 | 0.04 | 0.05 | 0.08 |
| 54604 | 'Pcnx' | 0.51 | 3.41 | 1.94 | 7.22 | 1.52 | 0.03 | 6.49 | 0.93 | 2.07 | 1.84 |
| 546049 | 'C330021F23Rik' | 0.14 | 0.04 | 0 | 0.09 | 0.02 | 0 | 0.04 | 0.03 | 0.12 | 0 |
| 546061 | 'LOC546061' | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.02 | 0 |
| 54607 | 'Socs6' | 2.33 | 1.19 | 3.25 | 1.6 | 2.92 | 0.02 | 0.02 | 2.73 | 2.19 | 3.96 |
| 546071 | 'Mast3' | 12.59 | 7.33 | 19.7 | 17 | 10.9 | 17.72 | 8.68 | 9.83 | 11.35 | 7.85 |
| 54608 | 'Abhd2' | 1.61 | 0.02 | 11 | 0 | 0 | 1.65 | 4.21 | 0 | 0 | 5.39 |
| 54609 | 'Ubqln2' | 4.49 | 5.77 | 8.46 | 13.8 | 5.93 | 9.11 | 11.4 | 4.48 | 15.72 | 4.42 |
| 54610 | 'Tbc1d8' | 8.06 | 4.95 | 5.07 | 3.66 | 6.53 | 2.45 | 12.7 | 4.53 | 13.03 | 8.76 |
| 54611 | 'Pde3a' | 0.01 | 0.24 | 0.23 | 0.02 | 0.35 | 0 | 0 | 0 | 0 | 0.3 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 546118 | 'Ubtfl1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 54612 | 'Sfrp5' | 6.82 | 0 | 7.92 | 2.56 | 0 | 0 | 8.72 | 2.1 | 3.42 | 0.02 |
| 54613 | 'St3gal6' | 3.26 | 0 | 0 | 0.38 | 6.12 | 0.37 | 0.77 | 3.05 | 3.07 | 0.51 |
| 546134 | 'Gramd2' | 2.69 | 1.94 | 0.95 | 1.26 | 5.94 | 0 | 0 | 3.83 | 3.34 | 0.05 |
| 54614 | 'Prpf40b' | 20.76 | 17.85 | 25.1 | 38.7 | 30.8 | 21.84 | 21.5 | 19.49 | 22.09 | 24.61 |
| 546143 | 'Ccp1os' | 13.88 | 16.96 | 9.73 | 0 | 5.32 | 15.95 | 36.3 | 30.33 | 42.19 | 22.45 |
| 54615 | 'Npff' | 0 | 0 | 0 | 0 | 3.23 | 0 | 3.04 | 0 | 0.11 | 1.64 |
| 54616 | 'Extl3' | 3.27 | 6.21 | 10.9 | 4.49 | 5.83 | 7.48 | 6.89 | 1.1 | 7.35 | 6.57 |
| 54624 | 'Paf1' | 51.99 | 64.97 | 44.9 | 32.4 | 57 | 104.6 | 132 | 69.39 | 97.58 | 77.19 |
| 54630 | 'Prickle3' | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0.09 | 0 |
| 54631 | 'Npfs1' | 0.2 | 0.18 | 0.22 | 0.36 | 0.32 | 0.13 | 0.25 | 0.16 | 0.2 | 0.15 |
| 54632 | 'Ftsj1' | 9.29 | 11.24 | 11 | 4.93 | 9.34 | 16.66 | 14.9 | 6.16 | 12.67 | 18.82 |
| 546325 | 'Gm5936' | 0 | 3.33 | 0 | 0.13 | 4.32 | 0 | 0.05 | 0 | 0.03 | 3.31 |
| 54633 | 'Pqbp1' | 144.9 | 167.9 | 152 | 247 | 132 | 212.1 | 152 | 166.4 | 155.7 | 171.1 |
| 546336 | 'Prrg1' | 0 | 0.45 | 0.45 | 0 | 0.46 | 0.01 | 0.43 | 0.01 | 1.08 | 0 |
| 54635 | 'Pdgc' | 0.49 | 0.18 | 1.82 | 0.03 | 0.35 | 0 | 0 | 1.24 | 0 | 0 |
| 54636 | 'Wdr45' | 44.49 | 51.58 | 31.3 | 31 | 51.3 | 66.13 | 65.4 | 52.33 | 61.38 | 38.86 |
| 54637 | 'Prpf2' | 118.6 | 132.3 | 152 | 135 | 146 | 162.3 | 224 | 207.2 | 93.65 | 118.43 |
| 54638 | 'Ccdc22' | 23.2 | 20.23 | 14.6 | 2.27 | 26.2 | 10.13 | 18.1 | 20.81 | 16.61 | 48.04 |
| 54644 | 'Otud5' | 4.79 | 3.1 | 6.4 | 17.6 | 5.33 | 5.66 | 1.62 | 3.8 | 4.88 | 0.13 |
| 54645 | 'Gripap1' | 46.55 | 45.47 | 50.6 | 22.7 | 57.3 | 38.41 | 29.8 | 37.81 | 27.29 | 41.11 |
| 54646 | 'Ppp1r3f' | 3.51 | 1.43 | 5.66 | 2.83 | 3.69 | 0.12 | 0 | 3.98 | 3.26 | 1.08 |
| 54648 | 'Ccdc120' | 0.66 | 1.89 | 3.06 | 2.53 | 0 | 1.43 | 0 | 1.68 | 2.6 | 1.99 |
| 54650 | 'Sfmbt1' | 2.44 | 4.61 | 0.48 | 5.61 | 4.17 | 2.46 | 4.95 | 1.45 | 3.62 | 3.23 |
| 54651 | 'Usp27x' | 3.63 | 3.93 | 1.7 | 5.46 | 3.64 | 0.46 | 0 | 0 | 0.47 | 4.6 |
| 546519 | 'Tmem235' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.9 | 2.49 |
| 54652 | 'Cacna1f' | 0 | 0 | 0.01 | 0 | 0 | 0 | 1.35 | 0 | 0 | 0 |
| 546611 | 'Klhl33' | 0.53 | 0.71 | 3.52 | 0.14 | 0.44 | 0.64 | 5.31 | 0.07 | 5.48 | 3.54 |
| 546648 | 'Klhd7b' | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54667 | 'Atp8b2' | 4.15 | 5.38 | 9.57 | 13.7 | 6.83 | 2.35 | 7.39 | 6.95 | 4.2 | 6.45 |
| 54670 | 'Atp8b1' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54672 | 'Adgrg3' | 0 | 0.75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54673 | 'Sh3glb1' | 4.39 | 5.45 | 4.74 | 39.8 | 6.2 | 6.2 | 7.51 | 12.19 | 4.72 | 4.2 |
| 54678 | 'Zfp108' | 3.47 | 2.31 | 8.14 | 0 | 5.25 | 9.88 | 19.6 | 2.32 | 0.35 | 3.06 |
| 54683 | 'Prdx5' | 514.2 | 273.1 | 499 | 470 | 501 | 546.4 | 615 | 486.8 | 424.3 | 377.8 |
| 546840 | 'Ldlrad1' | 0 | 0.4 | 1.15 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.51 |
| 546886 | 'Cfap73' | 0 | 0.92 | 0 | 0 | 0.67 | 2.13 | 0 | 0 | 0 | 8.52 |
| 546983 | 'Vmn2r77' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 |
| 54709 | 'Eif3i' | 146.5 | 87.79 | 156 | 101 | 138 | 244.1 | 175 | 167.5 | 138.7 | 155.87 |
| 547109 | 'Trim43a' | 1.16 | 0 | 0 | 0 | 1.03 | 0 | 0.03 | 2.65 | 0 | 0 |
| 54711 | 'Plagl2' | 0.46 | 0.65 | 0 | 0 | 0.98 | 0.01 | 0 | 0 | 0.66 | 0.8 |
| 54712 | 'Plxnc1' | 6.48 | 7.44 | 3.87 | 5.67 | 4.86 | 2.88 | 3.31 | 2.99 | 3.01 | 4.02 |
| 54713 | 'Fezf2' | 1.3 | 0 | 0 | 0 | 2.07 | 0 | 0 | 0 | 0 | 0 |
| 547176 | 'Zc3h12b' | 1.15 | 3.25 | 2.65 | 1.16 | 4.95 | 1.5 | 0.41 | 2.15 | 1.03 | 1.88 |
| 54720 | 'Rcan1' | 7.94 | 4.42 | 12.8 | 16.7 | 3.47 | 12.37 | 10.2 | 16.23 | 4.39 | 13.1 |
| 54721 | 'Tyk2' | 0 | 4.6 | 4.1 | 3.64 | 0.8 | 1.7 | 0 | 1.42 | 1.76 | 3.25 |
| 54722 | 'Gsdme' | 14.1 | 19.38 | 12 | 0.03 | 14.3 | 24.47 | 19 | 33.91 | 22.37 | 24.13 |
| 54723 | 'Tfip11' | 9.4 | 11.54 | 14.8 | 12.5 | 11.7 | 5.79 | 16.3 | 6.29 | 16.5 | 8.33 |
| 54725 | 'Cadm1' | 169.6 | 213.5 | 114 | 213 | 150 | 113.2 | 229 | 193 | 123.8 | 122.49 |
| 547253 | 'Parp14' | 0 | 0 | 0.03 | 1.12 | 0.01 | 0 | 0 | 0.03 | 0 | 0 |
| 550619 | 'Arid3c' | 0 | 0 | 0 | 0 | 0.14 | 6.77 | 0 | 0 | 0 | 0 |
| 553127 | 'Rtl8b' | 124.8 | 103.9 | 121 | 115 | 110 | 93.02 | 111 | 123.5 | 184.9 | 143.17 |
| 554327 | '2610042L04Rik' | 14.52 | 9.52 | 10.6 | 3.2 | 12.1 | 3.36 | 7.34 | 20.63 | 19.7 | 4.03 |
| 55927 | 'Hes6' | 39.1 | 62.29 | 58.8 | 88.1 | 19.4 | 71.52 | 30.8 | 28.89 | 102.4 | 87.3 |
| 55932 | 'Gbp3' | 10.37 | 0 | 2.96 | 16.5 | 0 | 3.48 | 0 | 0.54 | 0 | 4.36 |
| 55934 | 'Rp9' | 16.77 | 31.53 | 61.4 | 45.4 | 23.9 | 39.21 | 21.7 | 17.16 | 60.9 | 15.22 |
| 55935 | 'Fnbp4' | 11.12 | 12.16 | 13.9 | 17.1 | 9.31 | 10.85 | 19.8 | 13.07 | 19.81 | 14.69 |
| 55936 | 'Ctps2' | 17.64 | 23.99 | 22.2 | 13.2 | 27.2 | 27.39 | 10.7 | 20.82 | 22.42 | 35.37 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 55942 | 'Sertad1' | 4.04 | 6.88 | 4.11 | 10.8 | 5.22 | 25.03 | 0 | 0 | 0 | 5.76 |
| 55943 | 'Stx8' | 5.64 | 9.63 | 8.93 | 21.5 | 16.5 | 9.84 | 10.7 | 7.98 | 9.51 | 7.95 |
| 55944 | 'Eif3d' | 65.92 | 70.13 | 75.4 | 53.4 | 35 | 62.73 | 51.3 | 56.56 | 60.31 | 30.41 |
| 55946 | 'Ap3m1' | 17.74 | 7.65 | 17.3 | 8.22 | 11.4 | 11.22 | 12 | 7.6 | 24.7 | 23.17 |
| 55947 | 'Dclre1a' | 1.55 | 1.07 | 0.9 | 1.21 | 0.81 | 0.22 | 0 | 0 | 0.81 | 2.66 |
| 55948 | 'Sfn' | 0 | 2.47 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0.85 |
| 55949 | 'Eef1b2' | 90.14 | 107.1 | 92.1 | 110 | 130 | 125.1 | 111 | 95.68 | 96.56 | 105.5 |
| 55950 | 'Bri3' | 8.73 | 9.06 | 4.1 | 26.2 | 8.58 | 0.06 | 0.05 | 6.12 | 10.65 | 0.69 |
| 55951 | 'Mpc1' | 225.5 | 135.3 | 251 | 292 | 304 | 321.4 | 250 | 233.3 | 223.1 | 181.08 |
| 55960 | 'Ebag9' | 18.91 | 10.44 | 5.19 | 14.1 | 27.2 | 3.43 | 3.95 | 15.42 | 9.78 | 13.76 |
| 55961 | 'Slc13a1' | 0 | 0.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55963 | 'Slc1a4' | 29.14 | 27.98 | 32.6 | 11.4 | 6.26 | 8.13 | 25.8 | 31.83 | 28.13 | 19.46 |
| 55978 | 'Ift20' | 59.04 | 39.42 | 60.1 | 90.1 | 93.6 | 80.26 | 97.2 | 63.96 | 52.39 | 36.72 |
| 55979 | 'Agpat1' | 61.41 | 86.3 | 77.5 | 8.82 | 63.5 | 80.32 | 65.3 | 82.47 | 116.4 | 79.58 |
| 55980 | 'Impa1' | 38.24 | 38.1 | 54.7 | 44.5 | 44.4 | 80.3 | 43.9 | 47.54 | 27.87 | 49.27 |
| 55981 | 'Pigb' | 2.13 | 3.88 | 8.4 | 0.43 | 3.85 | 6.97 | 2.48 | 3.9 | 7.93 | 6.84 |
| 55982 | 'Paxip1' | 10.05 | 7.88 | 5.52 | 3.46 | 1.78 | 5.56 | 5.46 | 9.17 | 4.5 | 6.46 |
| 55983 | 'Pdzn3' | 2.96 | 0 | 0 | 0 | 0 | 0 | 0.76 | 0 | 3 | 0 |
| 55984 | 'Camkk1' | 24.03 | 37.5 | 57.3 | 22.9 | 23.5 | 18.26 | 41.1 | 48.11 | 50.7 | 17.49 |
| 55987 | 'Cpxm2' | 0 | 0 | 0.02 | 0 | 0.85 | 0.02 | 0.02 | 1.35 | 0 | 3.3 |
| 55988 | 'Snx12' | 24.43 | 15.69 | 21 | 31.1 | 17.3 | 25.15 | 19.9 | 15.6 | 34.54 | 29.01 |
| 55989 | 'Nop58' | 28.33 | 33.03 | 31.3 | 25.1 | 38.2 | 37.02 | 34.8 | 42.53 | 44.34 | 38.05 |
| 55991 | 'Panx1' | 6.16 | 8.31 | 5.01 | 7.8 | 12.8 | 9 | 5.96 | 16.95 | 11.2 | 2.01 |
| 55992 | 'Trim3' | 15.11 | 29.16 | 30.4 | 18.5 | 25.8 | 50.21 | 39.1 | 19.8 | 47.49 | 19.69 |
| 55993 | 'Msh4' | 0 | 0 | 0 | 0 | 0.06 | 0.03 | 0 | 0 | 0 | 0 |
| 55994 | 'Smad9' | 0.2 | 0.3 | 0.66 | 0.01 | 0.12 | 0.06 | 2.1 | 0.83 | 2.83 | 1.59 |
| 56009 | 'Alyref2' | 4.36 | 14.91 | 7.79 | 0.18 | 3.67 | 8.52 | 9.35 | 8.66 | 17 | 9.86 |
| 56012 | 'Pgam2' | 0.61 | 0.33 | 5.76 | 0.4 | 0.51 | 14.24 | 19.8 | 4.77 | 0.5 | 4.44 |
| 56013 | 'Srcin1' | 1.89 | 1.39 | 1.02 | 1.32 | 4.36 | 2.05 | 2.44 | 1.49 | 2.02 | 2.03 |
| 56015 | 'Olf1r71' | 0 | 1.81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56016 | 'Hebp2' | 18.07 | 15.54 | 6.01 | 52.1 | 14 | 13.45 | 5.36 | 14.13 | 16.38 | 11.62 |
| 56017 | 'Slc2a8' | 16.27 | 23.61 | 18.1 | 0 | 12.2 | 17.24 | 15.8 | 16.39 | 11.88 | 22.81 |
| 56018 | 'Stard10' | 7.63 | 14.87 | 5.76 | 15.2 | 18 | 11.09 | 2.95 | 8.44 | 33.77 | 20.57 |
| 56030 | 'Tmem131' | 1.53 | 1.49 | 1.81 | 6.44 | 2.41 | 0.26 | 1 | 2.35 | 1.46 | 1.65 |
| 56031 | 'Ppie' | 16.4 | 38.11 | 39.3 | 115 | 43.3 | 44.68 | 34.8 | 42.36 | 21.62 | 23.19 |
| 56032 | 'Nprl2' | 82.31 | 67.73 | 70.3 | 57.3 | 99.2 | 119.3 | 61.9 | 95.66 | 41.93 | 109.65 |
| 56036 | 'Ccnl2' | 21.98 | 34.48 | 30.8 | 61.8 | 27.1 | 18.17 | 15 | 31.2 | 40.37 | 22.88 |
| 56040 | 'Rplp1' | 556.9 | 491.6 | 704 | 595 | 459 | 802.5 | 618 | 354.3 | 565.2 | 545.17 |
| 56041 | 'Uso1' | 0.63 | 2.19 | 3.83 | 5.83 | 4.27 | 4.58 | 5.06 | 5.56 | 9.93 | 0.57 |
| 56043 | 'Akr1e1' | 24.86 | 28.33 | 31.6 | 36.5 | 15.8 | 56.23 | 13.3 | 24.96 | 12.57 | 34.2 |
| 56044 | 'Rala' | 34.34 | 27.4 | 36.7 | 46.4 | 23.7 | 18.19 | 15.2 | 25.46 | 42.42 | 5.77 |
| 56045 | 'Samhd1' | 2.65 | 5.18 | 5.78 | 2.8 | 3.4 | 2.65 | 4.38 | 1.09 | 0 | 2.4 |
| 56046 | 'Uqcc1' | 78.61 | 71.04 | 73.1 | 51.1 | 66.2 | 88.4 | 70.2 | 75.42 | 78.4 | 77.88 |
| 56047 | 'Msln' | 2.4 | 6.82 | 0 | 9.62 | 4.24 | 0 | 0 | 0.42 | 0 | 0 |
| 56048 | 'Lgals8' | 25.95 | 31.07 | 53.5 | 32 | 38.2 | 34.94 | 36.8 | 30.89 | 28.13 | 59.57 |
| 56050 | 'Cyp39a1' | 0 | 0 | 0 | 0.64 | 0 | 0 | 0 | 1.03 | 0 | 0 |
| 56055 | 'Gtpbp2' | 9.66 | 2.36 | 2.59 | 16.5 | 5.16 | 1.25 | 4.07 | 1.1 | 7.51 | 2.03 |
| 56057 | 'Btg4' | 0 | 0 | 0 | 0 | 0 | 1.83 | 0 | 0 | 0 | 0 |
| 56068 | 'Ammechr1' | 0.06 | 0.55 | 1.7 | 0.4 | 0 | 0.03 | 0.59 | 0 | 0 | 0 |
| 56069 | 'Ii17b' | 0.21 | 0 | 0 | 0 | 0.68 | 0.07 | 0.08 | 0.37 | 0.8 | 0.2 |
| 56070 | 'Tcerg1' | 27.9 | 16.52 | 31.8 | 38.2 | 19.1 | 15.98 | 27.4 | 18.2 | 24.5 | 16.55 |
| 56072 | 'Lgals12' | 0 | 0 | 0 | 0 | 0 | 0 | 1.69 | 0 | 0 | 0 |
| 56075 | 'Pdss1' | 5.45 | 6.96 | 9.77 | 8.08 | 6.38 | 13.53 | 9.04 | 6.9 | 11.59 | 8.15 |
| 56077 | 'Dgke' | 4.57 | 6.45 | 17.5 | 21.8 | 14 | 1.67 | 8.25 | 8.11 | 6.69 | 6.23 |
| 56078 | 'Car5b' | 0.13 | 1.75 | 0.2 | 0.5 | 0.38 | 0.84 | 0.31 | 0.15 | 0.22 | 0.09 |
| 56079 | 'Asth2' | 0.01 | 0.66 | 0.01 | 0.2 | 1.48 | 0 | 0.44 | 1.51 | 0.52 | 0.02 |
| 56085 | 'Ubqln1' | 21.16 | 15.23 | 15.5 | 37.2 | 30.1 | 13.91 | 14.2 | 6.05 | 33.2 | 10.07 |
| 56086 | 'Set' | 92.31 | 107.9 | 111 | 201 | 121 | 52.87 | 108 | 86 | 108.3 | 98.24 |

| | | | | | | | | | | | |
|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 56087 | 'Dnah10' | 0.5 | 0 | 0.03 | 0.26 | 0.02 | 0.12 | 0.12 | 0.02 | 0.42 | 0.33 |
| 56088 | 'Psmg1' | 69.9 | 62.18 | 55.2 | 61.7 | 61.8 | 84.93 | 63.1 | 73.1 | 57.49 | 79.09 |
| 56089 | 'Ramp3' | 6.92 | 82.08 | 0.12 | 4.5 | 4.62 | 0.08 | 0.04 | 6.66 | 0 | 1.75 |
| 56094 | 'Cts8' | 0 | 0 | 0 | 0.06 | 0 | 0.02 | 0 | 0 | 0.02 | 0.04 |
| 56095 | 'Ftsj3' | 10.07 | 7.78 | 15.4 | 33.7 | 12.7 | 14.89 | 5.56 | 13.61 | 15.36 | 12.1 |
| 56149 | 'Grasp' | 0 | 0.24 | 1.03 | 0 | 0 | 0 | 2.51 | 0.02 | 3.22 | 0.59 |
| 56150 | 'Mad2l1' | 15.02 | 6.66 | 5.01 | 15.8 | 1.13 | 4.16 | 0 | 7.05 | 0.43 | 0 |
| 56173 | 'Cldn14' | 0 | 4.19 | 0 | 0 | 0 | 0 | 0 | 2.73 | 0 | 0 |
| 56174 | 'Nagk' | 134.2 | 116.1 | 110 | 131 | 144 | 104 | 83.6 | 126.1 | 133.2 | 97.24 |
| 56175 | 'Bace2' | 1.37 | 0 | 0 | 0 | 0 | 0 | 0 | 0.92 | 0 | 0 |
| 56176 | 'Pigp' | 81.81 | 136.6 | 46 | 87.6 | 99.8 | 112 | 70.2 | 109.6 | 80.46 | 126.6 |
| 56177 | 'Olfm1' | 94.47 | 104.6 | 95.5 | 213 | 116 | 83 | 113 | 48.64 | 82.55 | 70.92 |
| 56183 | 'Nmu' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17.87 | 0 | 0 |
| 56187 | 'Rabggta' | 37.2 | 14.31 | 44.7 | 13.3 | 25.2 | 41.05 | 56.3 | 35.77 | 53.54 | 37.26 |
| 56188 | 'Fxyd1' | 40.54 | 15.59 | 21.6 | 8.13 | 64 | 38.13 | 15 | 10.26 | 22.5 | 22.88 |
| 56189 | 'Prodh2' | 0.61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56190 | 'Rbm38' | 3.54 | 6.61 | 2.41 | 5.68 | 0.03 | 9.7 | 2.36 | 5.63 | 0.44 | 0 |
| 56191 | 'Tro' | 50.73 | 31.36 | 50.8 | 65.1 | 36.9 | 44.36 | 60 | 47.58 | 64.03 | 59.25 |
| 56193 | 'Plek' | 0 | 2.8 | 3.92 | 0.57 | 0.18 | 6.98 | 1.46 | 0.91 | 1.47 | 1.25 |
| 56194 | 'Prpf40a' | 13.42 | 19.91 | 16.8 | 15.1 | 25.3 | 32.12 | 11.7 | 26.62 | 23.29 | 22.54 |
| 56195 | 'Ptbp2' | 41.07 | 38.4 | 37.7 | 23.1 | 21.7 | 16.07 | 36 | 24.61 | 27.19 | 46.78 |
| 56196 | 'Tdp2' | 5.85 | 7.5 | 7.29 | 3.99 | 12.8 | 0 | 8.19 | 12.47 | 12.22 | 8.62 |
| 56198 | 'Heyl' | 0.84 | 1.16 | 2.67 | 0.73 | 0 | 0.14 | 1.88 | 0 | 1.33 | 0 |
| 56199 | 'Abcb10' | 1.54 | 7.13 | 11.3 | 16.4 | 7.35 | 4.17 | 4.05 | 4.78 | 1.91 | 1.08 |
| 56200 | 'Ddx21' | 2.39 | 2.48 | 2.25 | 3.64 | 0.32 | 1.46 | 6.45 | 2.19 | 0.05 | 0.86 |
| 56205 | 'Ensa' | 193.6 | 282.6 | 231 | 259 | 316 | 176.7 | 237 | 226.6 | 138.2 | 229.59 |
| 56207 | 'Uchl5' | 59.58 | 41.28 | 54 | 25.6 | 78.7 | 24.59 | 59.7 | 60.84 | 86.89 | 76.29 |
| 56208 | 'Becn1' | 114.2 | 91.93 | 70.6 | 126 | 72 | 121.1 | 129 | 156.4 | 96.45 | 118.45 |
| 56209 | 'Gde1' | 222.1 | 229.3 | 226 | 166 | 225 | 271.6 | 247 | 251.7 | 180.6 | 242.79 |
| 56210 | 'Rev1' | 3.38 | 4.73 | 5.16 | 15.5 | 2.45 | 0.07 | 1.4 | 4.57 | 5.08 | 1.5 |
| 56212 | 'Rhog' | 3.14 | 19.37 | 26.9 | 0 | 17.9 | 1.22 | 0.04 | 1.36 | 3.61 | 3.42 |
| 56213 | 'Htra1' | 34.9 | 30.66 | 28.3 | 9.62 | 8.75 | 24.02 | 19.5 | 9.56 | 24.14 | 2.36 |
| 56214 | 'Scamp4' | 110.5 | 107.7 | 72 | 120 | 95.8 | 81.54 | 86.9 | 90.33 | 89.02 | 84.47 |
| 56215 | 'Acin1' | 17.58 | 16.14 | 8.25 | 10.5 | 16.3 | 15.48 | 12.9 | 13.96 | 18.39 | 13.07 |
| 56216 | 'Stx1b' | 28.58 | 21.41 | 52.4 | 9.12 | 36.6 | 22.3 | 44.8 | 37.18 | 29.13 | 23.73 |
| 56217 | 'Mpp5' | 14.78 | 14.47 | 11.4 | 16.8 | 10.5 | 14.17 | 12.7 | 7.21 | 12.26 | 15.62 |
| 56218 | 'Patz1' | 4.39 | 8.72 | 8.01 | 15.3 | 3.96 | 3.41 | 12.1 | 5.27 | 7.81 | 1.31 |
| 56219 | 'Extl1' | 9.64 | 2.7 | 10.9 | 3.08 | 7.03 | 0.02 | 8.05 | 6.69 | 5.96 | 2.2 |
| 56220 | 'Zfp386' | 7.13 | 10.3 | 5.91 | 6.41 | 2.92 | 10.14 | 7.53 | 5.91 | 18 | 10.33 |
| 56222 | 'Cited4' | 3.26 | 0.7 | 1.48 | 7.23 | 1 | 6.1 | 0 | 0.85 | 8.38 | 0 |
| 56223 | 'Fscn3' | 0 | 0 | 1.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0.29 |
| 56224 | 'Tspan5' | 3.18 | 1.64 | 2.8 | 7.97 | 3.61 | 2.67 | 7.85 | 2.62 | 5.67 | 2.97 |
| 56226 | 'Espn' | 0 | 0 | 1.76 | 0 | 0.09 | 0 | 1.56 | 0.96 | 0.43 | 0 |
| 56228 | 'Ube2j1' | 25.52 | 19.44 | 21.2 | 48.4 | 19.8 | 10.24 | 26.9 | 24.62 | 21.19 | 18.24 |
| 56229 | 'Thsd1' | 0 | 0 | 0.01 | 4.61 | 0 | 0 | 0.01 | 0 | 0 | 0 |
| 56233 | 'Hdac7' | 27.05 | 42.91 | 16.5 | 13.2 | 16.1 | 13.25 | 27.1 | 14.33 | 2.94 | 35.98 |
| 56248 | 'Ak3' | 11.97 | 17.84 | 18.6 | 16.2 | 16.1 | 6.18 | 6.19 | 8.61 | 8.52 | 1.69 |
| 56249 | 'Actr8' | 58.3 | 71.64 | 69 | 8.73 | 72.6 | 102.1 | 42.1 | 62.89 | 77.64 | 77.93 |
| 56258 | 'Hnrrnh2' | 86.2 | 117.7 | 122 | 118 | 96.5 | 64.86 | 129 | 90.3 | 71.05 | 105.63 |
| 56264 | 'Cpxm1' | 5.81 | 4.51 | 11.2 | 8.13 | 0 | 4.41 | 7.52 | 0.02 | 2.2 | 0.96 |
| 56273 | 'Pex14' | 21.95 | 52.23 | 55.6 | 27 | 33.4 | 23.29 | 48.6 | 44.86 | 35.54 | 36.3 |
| 56274 | 'Stk3' | 12.33 | 10.98 | 2.85 | 0.22 | 6.75 | 2.96 | 7.72 | 8.91 | 4.5 | 6.25 |
| 56275 | 'Rbm14' | 17.9 | 23.9 | 10.1 | 0 | 7.75 | 16.37 | 16.7 | 7.94 | 18.29 | 14.09 |
| 56278 | 'Gkap1' | 13.67 | 7.85 | 4.19 | 17.3 | 3.73 | 7.5 | 5.44 | 6.32 | 7.85 | 9.39 |
| 56279 | 'Fam69b' | 16.08 | 15.25 | 15.2 | 29.2 | 23 | 29.9 | 20.5 | 19.34 | 57.28 | 12.87 |
| 56280 | 'Mrpl37' | 32.29 | 44.95 | 54.8 | 45.7 | 65.5 | 48.83 | 65.8 | 67.79 | 23.82 | 41.11 |
| 56282 | 'Mrpl12' | 116.8 | 88.86 | 118 | 131 | 135 | 203 | 134 | 131.4 | 204.6 | 114.03 |
| 56284 | 'Mrpl19' | 13.96 | 7.49 | 6.87 | 7.78 | 12.9 | 9.79 | 4.79 | 8.84 | 9.71 | 10.15 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 56289 | 'Rassf1' | 30.77 | 43.06 | 36.6 | 44.7 | 39.3 | 27.09 | 35.3 | 32.78 | 23.8 | 39.35 |
| 56291 | 'Styx' | 4.21 | 2.3 | 1.47 | 7.23 | 1.56 | 2.19 | 3.66 | 3.09 | 1.72 | 1.51 |
| 56292 | 'Naa10' | 89.48 | 90.74 | 81.2 | 83 | 103 | 46.06 | 95.8 | 88.28 | 98.18 | 69.72 |
| 56293 | 'Slc35g3' | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 |
| 56294 | 'Ptpn9' | 11.59 | 4.76 | 9.41 | 17.6 | 5.35 | 3.37 | 1.52 | 6.65 | 4.78 | 1.9 |
| 56295 | 'Higd1a' | 130.9 | 112.6 | 150 | 106 | 185 | 218.9 | 112 | 105.2 | 121.2 | 91.05 |
| 56296 | 'Dmrtb1' | 4.58 | 1.61 | 2.32 | 0 | 10.1 | 8.57 | 4.04 | 0 | 11.87 | 2.36 |
| 56297 | 'Arl6' | 48.77 | 79.26 | 64.2 | 67.3 | 53.8 | 86.89 | 65 | 52.55 | 70.47 | 98.4 |
| 56298 | 'Atl2' | 17.91 | 7.53 | 4.1 | 12.3 | 7.17 | 5.28 | 6.73 | 6.89 | 7.08 | 8.11 |
| 56299 | 'Fkbp1' | 4.03 | 8.35 | 4.39 | 4.32 | 14.1 | 0.04 | 8.82 | 20.69 | 12.16 | 12.92 |
| 56305 | 'Pitpnb' | 72.45 | 64.09 | 34.8 | 31.4 | 27.8 | 46.16 | 30.8 | 56.71 | 34.53 | 65.38 |
| 56306 | 'Sinhcaf' | 0 | 2.66 | 0.52 | 3.6 | 5.47 | 0 | 9.52 | 0.52 | 0 | 0.03 |
| 56307 | 'Metap2' | 49.64 | 68.06 | 51.1 | 71.9 | 52 | 64.18 | 58.3 | 68 | 46.66 | 54.27 |
| 56309 | 'Mycbp' | 8.79 | 2.79 | 9.32 | 23.8 | 8.06 | 17.51 | 5.19 | 4.98 | 5.86 | 11.03 |
| 56310 | 'Gps2' | 12.61 | 17.02 | 11.8 | 29.2 | 26.5 | 30.15 | 17.1 | 23.99 | 24.66 | 28.14 |
| 56312 | 'Nupr1' | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 2.36 | 0 | 0 |
| 56314 | 'Zfp113' | 1.01 | 1.37 | 0.9 | 3 | 2.18 | 3.75 | 2.03 | 0.89 | 6.08 | 0.7 |
| 56315 | 'Rhcg' | 3.13 | 3.85 | 0.59 | 0 | 2.08 | 0 | 0.7 | 0 | 0 | 0 |
| 56316 | 'Ggcx' | 11.44 | 15.24 | 8.29 | 18.8 | 10.1 | 12.32 | 0.61 | 1.33 | 4.63 | 21.07 |
| 56317 | 'Anapc7' | 34.23 | 15.5 | 26.3 | 30.7 | 8.25 | 15.39 | 7.08 | 24.8 | 10.94 | 23.62 |
| 56318 | 'Acpp' | 0 | 0 | 0 | 0 | 2.03 | 0 | 0 | 0 | 0 | 0 |
| 56320 | 'Dbn1' | 65.5 | 77.94 | 46.9 | 61.9 | 75.3 | 51.88 | 21.6 | 49.27 | 43.98 | 70.78 |
| 56321 | 'Aatf' | 14.94 | 17.08 | 17.2 | 28 | 12.5 | 9.78 | 16.3 | 21.36 | 15.56 | 21.78 |
| 56322 | 'Timm22' | 29.53 | 61.15 | 31.3 | 60.6 | 53.1 | 48.88 | 24.8 | 38.27 | 54.48 | 55.21 |
| 56323 | 'Dnajb5' | 19.66 | 12.32 | 5.3 | 9.13 | 16.4 | 5.58 | 8.31 | 19.57 | 35.15 | 9.11 |
| 56324 | 'Stam2' | 14.58 | 9.28 | 1.58 | 3.83 | 2.53 | 0.23 | 9.69 | 7.3 | 9.88 | 11.19 |
| 56325 | 'Abcb9' | 8.19 | 19.09 | 16.9 | 0.88 | 2.1 | 8.78 | 16.7 | 8.71 | 6.02 | 2.36 |
| 56327 | 'Arl2' | 339.4 | 262.8 | 326 | 282 | 323 | 399.9 | 320 | 391.9 | 375.7 | 324.96 |
| 56330 | 'Pdcd5' | 164.8 | 197.4 | 235 | 206 | 192 | 258.4 | 187 | 178.8 | 227.2 | 147.75 |
| 56332 | 'Amotl2' | 1.27 | 6.24 | 0.71 | 9.57 | 0.06 | 0.82 | 14.9 | 3.2 | 2.36 | 0.01 |
| 56334 | 'Tmed2' | 96.48 | 101 | 112 | 184 | 61.9 | 67.57 | 73 | 69.27 | 159.3 | 48.23 |
| 56335 | 'Mettl3' | 8.85 | 12.25 | 6.52 | 2.68 | 25.4 | 9.46 | 9.88 | 15.18 | 18.86 | 7.65 |
| 56336 | 'B4galt5' | 2.68 | 3.13 | 6.03 | 0.83 | 7.76 | 7.06 | 1.71 | 5.32 | 6.43 | 2.8 |
| 56338 | 'Txnip' | 2.28 | 3.85 | 0.1 | 5.79 | 0.02 | 3.94 | 0.05 | 1.65 | 0.03 | 0.05 |
| 56347 | 'Eif3c' | 61.69 | 90.65 | 84.3 | 77.5 | 54.8 | 42.07 | 70.3 | 61.37 | 72.23 | 68.25 |
| 56348 | 'Hsd17b12' | 99.37 | 102.5 | 92 | 27.2 | 57.6 | 103.6 | 66.9 | 68.82 | 116.8 | 126.94 |
| 56349 | 'Net1' | 0.35 | 0.58 | 0.77 | 9.5 | 0.09 | 3.19 | 0.01 | 1.33 | 2.38 | 0 |
| 56350 | 'Arl3' | 221.6 | 280.8 | 211 | 313 | 295 | 275.1 | 254 | 215.3 | 234.4 | 240.48 |
| 56351 | 'Ptges3' | 147.9 | 162.4 | 130 | 87.2 | 135 | 135.3 | 105 | 118.2 | 156.3 | 119.34 |
| 56353 | 'Rybp' | 5.16 | 2.94 | 2.24 | 10.1 | 2.38 | 3.09 | 1.53 | 2.34 | 0.87 | 5.67 |
| 56354 | 'Dnajc7' | 113.3 | 143.3 | 177 | 78.4 | 141 | 144.1 | 155 | 199.3 | 125.2 | 179.39 |
| 56356 | 'Gltp' | 11.01 | 6.1 | 17 | 17.1 | 44.7 | 24.99 | 11.8 | 4.64 | 9.2 | 12.06 |
| 56357 | 'Ivd' | 46.39 | 55.58 | 44.7 | 47.8 | 46.5 | 80.11 | 61.7 | 62.9 | 50.01 | 57.98 |
| 56358 | 'Copz2' | 3.47 | 0 | 0 | 0 | 3.14 | 0 | 0 | 2.43 | 0 | 0 |
| 56360 | 'Acot9' | 22.36 | 17.93 | 32.8 | 31.1 | 28.6 | 25.17 | 12 | 16.03 | 22.45 | 24.07 |
| 56361 | 'Pus1' | 12.78 | 15.56 | 13.4 | 15.3 | 4.04 | 12.35 | 9.32 | 13.12 | 10.22 | 3.91 |
| 56363 | 'Tmeff2' | 92.76 | 88.61 | 33.5 | 31.4 | 21 | 24.8 | 54.5 | 59.77 | 4.32 | 18.88 |
| 56364 | 'Zmym3' | 22.84 | 22.4 | 21.7 | 29.2 | 43.5 | 28.42 | 39.5 | 23.31 | 37.91 | 26.96 |
| 56367 | 'Scoc' | 266.5 | 240.6 | 180 | 168 | 169 | 233.3 | 215 | 218.5 | 182.2 | 180.54 |
| 56368 | 'Cyb561d2' | 39.73 | 39.95 | 44.1 | 30.7 | 27 | 9.18 | 68.4 | 39.05 | 55.76 | 49.82 |
| 56369 | 'Apip' | 47.1 | 30.81 | 13.2 | 12.4 | 16.7 | 46.09 | 23.1 | 26.51 | 19.43 | 20.78 |
| 56370 | 'Tagln3' | 587.3 | 531.4 | 447 | 800 | 618 | 598 | 574 | 650.9 | 445.4 | 481.28 |
| 56371 | 'Fzr1' | 35.05 | 13.29 | 17.7 | 47.9 | 47.2 | 30.14 | 25.3 | 32.12 | 30.53 | 21.85 |
| 56372 | '1110004F10Rik' | 255.6 | 212.5 | 201 | 266 | 234 | 173.2 | 208 | 238.6 | 256.3 | 233.16 |
| 56373 | 'Cpb2' | 0 | 0 | 0 | 0 | 0 | 0.16 | 0 | 0.14 | 0 | 0 |
| 56374 | 'Tmem59' | 479.6 | 431.9 | 336 | 406 | 368 | 582.5 | 434 | 477.4 | 523.8 | 598.52 |
| 56375 | 'B4galt4' | 13.14 | 16.09 | 13.1 | 0.03 | 9.51 | 12.38 | 11.5 | 17.85 | 16.1 | 7.32 |
| 56376 | 'Pdim5' | 0.11 | 0.16 | 5.06 | 0.13 | 7.92 | 4.5 | 3.44 | 1.88 | 18.5 | 5.23 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 56378 | 'Arpc3' | 165.5 | 174.2 | 96.1 | 82.1 | 167 | 148.1 | 129 | 186 | 205.3 | 148.06 |
| 56379 | 'Kcnj1' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56380 | 'Arid3b' | 0.93 | 0 | 0.39 | 0.18 | 1.55 | 0 | 0 | 1.25 | 0 | 1.62 |
| 56381 | 'Spen' | 1.55 | 0.38 | 0.61 | 1.78 | 0.97 | 1.38 | 2.27 | 1.45 | 1.9 | 1.32 |
| 56382 | 'Rab9' | 25.41 | 32.66 | 37.9 | 28.9 | 49.3 | 19.95 | 14.9 | 32.94 | 16.45 | 25.57 |
| 56384 | 'Letm1' | 28.97 | 36.12 | 35.8 | 58.7 | 20.3 | 15.68 | 27.6 | 16.42 | 56.28 | 15.62 |
| 56386 | 'B4galt6' | 9.29 | 3.43 | 6.23 | 8.27 | 9.64 | 4.42 | 5.89 | 3.81 | 9.27 | 4.34 |
| 56389 | 'Stx5a' | 61.24 | 44.58 | 29.8 | 34.6 | 29.8 | 38.59 | 38 | 33.57 | 47.23 | 38.09 |
| 56390 | 'Sssca1' | 125.5 | 105.9 | 129 | 152 | 96.1 | 129.4 | 103 | 117.2 | 103 | 104.48 |
| 56392 | 'Shoc2' | 9.65 | 8.45 | 8.99 | 15.3 | 9.88 | 5.85 | 7.69 | 9.79 | 18.04 | 11.05 |
| 56395 | 'Tmem115' | 27.32 | 28.59 | 25.9 | 20.1 | 34.7 | 29.86 | 21.1 | 22.34 | 16.15 | 20.78 |
| 56397 | 'Morf4l2' | 316.5 | 388.4 | 313 | 388 | 230 | 310.1 | 228 | 275.6 | 322.6 | 252.61 |
| 56398 | 'Chp1' | 63.92 | 58.79 | 74.9 | 36.4 | 63.9 | 72.5 | 79.6 | 66.37 | 69.53 | 64.82 |
| 56399 | 'Akap8' | 22.93 | 23.78 | 21.2 | 22.8 | 15.3 | 20.74 | 41.7 | 14.68 | 34.96 | 32.52 |
| 56401 | 'P3h1' | 3.71 | 2.21 | 5.71 | 4.19 | 0.64 | 0.11 | 2.82 | 1.76 | 1.08 | 0.07 |
| 56403 | 'Syncrip' | 7.75 | 15.74 | 4.7 | 17 | 13 | 12.35 | 28.3 | 11.49 | 15.71 | 15.81 |
| 56404 | 'Trip4' | 3.73 | 4.75 | 13.3 | 7.38 | 3.25 | 5.26 | 1.89 | 2.04 | 8.19 | 5.11 |
| 56405 | 'Dusp14' | 22.05 | 26.17 | 9.33 | 70.6 | 23.4 | 7.78 | 26.7 | 21.23 | 15.88 | 22.85 |
| 56406 | 'Ncoa6' | 1.28 | 1.33 | 1.31 | 0.26 | 3.7 | 0.71 | 0 | 2.73 | 1.03 | 2.64 |
| 56407 | 'Trpc4ap' | 21.45 | 14.19 | 15 | 6.8 | 19.7 | 14.49 | 6.3 | 14.53 | 35 | 14.51 |
| 56409 | 'Nudt3' | 60.17 | 39.06 | 29.9 | 64.3 | 61.3 | 39.35 | 49.1 | 42.09 | 61.81 | 32.36 |
| 56410 | 'Cbln3' | 0.02 | 0.12 | 0.2 | 0.11 | 0.11 | 0.23 | 0.08 | 0.06 | 0.12 | 0.12 |
| 56412 | 'Noa1' | 10.39 | 13.16 | 7.39 | 9.6 | 2.95 | 4.26 | 8.43 | 3.94 | 9.99 | 10.8 |
| 56417 | 'Adar' | 16.6 | 16.75 | 37.5 | 14.4 | 13.5 | 7.14 | 30.8 | 17.4 | 15.81 | 18.09 |
| 56418 | 'Ykt6' | 21.07 | 24 | 24.6 | 15.8 | 24.4 | 32.68 | 33.1 | 23.62 | 26.35 | 25.16 |
| 56419 | 'Diaph3' | 1.52 | 2.34 | 0.36 | 3.2 | 1.74 | 0.01 | 0 | 2.44 | 1.64 | 0.73 |
| 56420 | 'Ppp4c' | 33.25 | 18.99 | 26.3 | 31.3 | 43.9 | 16.93 | 19.9 | 31.61 | 12.71 | 26.61 |
| 56421 | 'Pfkp' | 114.3 | 72.5 | 81.9 | 49.8 | 68.2 | 46.39 | 124 | 129 | 98.01 | 95.52 |
| 56422 | 'Hbs1l' | 23.97 | 31.8 | 25.4 | 29.8 | 37.4 | 16.1 | 44.4 | 22.75 | 18.51 | 37.73 |
| 56424 | 'Stub1' | 338.6 | 293.5 | 320 | 367 | 308 | 411.1 | 339 | 320.4 | 353.1 | 157.32 |
| 56426 | 'Pdcd10' | 47.96 | 45.15 | 45.4 | 25.5 | 52.6 | 66.18 | 58.8 | 54.19 | 55.32 | 72.71 |
| 56427 | 'Tubd1' | 11.49 | 0 | 13.5 | 8.5 | 6.81 | 7 | 18.8 | 2.88 | 9.31 | 4.41 |
| 56428 | 'Mtch2' | 129.4 | 73.85 | 117 | 53.1 | 111 | 134.7 | 119 | 124.8 | 106.9 | 111.11 |
| 56429 | 'Dpt' | 0.98 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0.37 | 0 | 0 |
| 56430 | 'Clip1' | 14.12 | 29.44 | 16.6 | 26.3 | 18.8 | 29.95 | 19.7 | 17.01 | 18.97 | 25.18 |
| 56431 | 'Dstn' | 147.2 | 150.3 | 104 | 152 | 128 | 114.3 | 140 | 88.58 | 92.94 | 147.67 |
| 56433 | 'Vps29' | 246.9 | 234.8 | 221 | 309 | 284 | 270.4 | 215 | 322.9 | 246.8 | 218.3 |
| 56434 | 'Tspan3' | 561.7 | 609.5 | 628 | 567 | 394 | 618.7 | 473 | 595.6 | 529.2 | 524.7 |
| 56436 | 'Adrm1' | 119.5 | 120.7 | 181 | 212 | 141 | 159.5 | 188 | 161.4 | 166.3 | 121.08 |
| 56437 | 'Rrad' | 10.9 | 28.82 | 27.1 | 93.6 | 17.2 | 1.18 | 6.55 | 1.47 | 13.91 | 7.88 |
| 56438 | 'Rbx1' | 211.3 | 202.9 | 216 | 288 | 206 | 295.3 | 191 | 196.9 | 268.2 | 219.48 |
| 56440 | 'Snx1' | 38.98 | 36.31 | 65.4 | 49.6 | 52.2 | 54.46 | 79.8 | 47.38 | 62.7 | 54.63 |
| 56441 | 'Naa80' | 19.99 | 16.16 | 12.9 | 33.6 | 15.1 | 22.98 | 22.3 | 14.75 | 33.6 | 18.65 |
| 56442 | 'Serinc1' | 324.8 | 399.1 | 355 | 289 | 273 | 207.7 | 344 | 358.1 | 373.1 | 260.62 |
| 56443 | 'Arpc1a' | 129.4 | 171.6 | 165 | 70.1 | 183 | 205.9 | 205 | 175.3 | 241.4 | 260.38 |
| 56444 | 'Actr10' | 52.4 | 57.41 | 57.3 | 71.7 | 50.4 | 67.9 | 54.6 | 32.86 | 59.08 | 36.38 |
| 56445 | 'Dnaja2' | 89.49 | 69.52 | 82.5 | 94.4 | 63.1 | 77.6 | 71.7 | 86.5 | 65.46 | 88.81 |
| 56447 | 'Copz1' | 138.4 | 130 | 136 | 147 | 151 | 207.9 | 199 | 180.7 | 163.9 | 160.99 |
| 56448 | 'Cyp2d22' | 0.76 | 3.62 | 0 | 0 | 0.12 | 11.04 | 0 | 4.84 | 3.07 | 3.45 |
| 56449 | 'Ybx3' | 2.76 | 1.93 | 1.11 | 0 | 0.78 | 3.28 | 0 | 0.24 | 0 | 0.26 |
| 56451 | 'Suclg1' | 159.6 | 186.6 | 186 | 207 | 193 | 358.2 | 287 | 220 | 206.4 | 212.13 |
| 56452 | 'Orc6' | 16.94 | 27.14 | 23.8 | 12.1 | 20.8 | 33.6 | 11.2 | 26.89 | 14.59 | 17.14 |
| 56453 | 'Mbtps1' | 18.81 | 17.78 | 18.4 | 17.1 | 36.3 | 4.3 | 34.3 | 25.94 | 24.23 | 36.06 |
| 56454 | 'Aldh18a1' | 11.86 | 11.86 | 4.29 | 11.7 | 12.4 | 8.76 | 8.49 | 9.19 | 10.15 | 6.63 |
| 56455 | 'Dynll1' | 251.4 | 242.2 | 229 | 188 | 255 | 271.7 | 189 | 215.8 | 174.7 | 234.11 |
| 56456 | 'Actl6a' | 5.63 | 4.55 | 8.96 | 1.65 | 11 | 8.96 | 5.69 | 10.39 | 6.85 | 14.16 |
| 56457 | 'Clptm1' | 47.8 | 34.52 | 84.5 | 103 | 41.7 | 19 | 59.6 | 47.93 | 61.91 | 10.76 |
| 56458 | 'Foxo1' | 0.3 | 2.76 | 0 | 1.64 | 4.07 | 5.14 | 0 | 1.72 | 0.39 | 3.07 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 56459 | 'Sae1' | 119.1 | 145.7 | 94.5 | 73.6 | 117 | 127.2 | 132 | 130.6 | 117.5 | 132.35 |
| 56460 | 'Pkp3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.51 | 5.03 |
| 56461 | 'Kcnip3' | 19.3 | 13.63 | 59.1 | 10.3 | 0.32 | 29.23 | 57.4 | 17.14 | 11.9 | 31.4 |
| 56462 | 'Mtc1' | 132.6 | 101.4 | 130 | 126 | 164 | 164.6 | 176 | 102.7 | 92.62 | 96.52 |
| 56463 | 'Snd1' | 42.2 | 40.64 | 36.6 | 60.5 | 20.4 | 30.29 | 20.2 | 30.19 | 27.68 | 55.5 |
| 56464 | 'Ctsf' | 46.49 | 78.02 | 78.4 | 35.4 | 64.9 | 78.87 | 48.2 | 58.2 | 86.1 | 71.8 |
| 56468 | 'Socs5' | 10.45 | 13.59 | 6.46 | 8.04 | 6.87 | 4.02 | 1.9 | 4.43 | 10.5 | 5.8 |
| 56469 | 'Pias1' | 14.39 | 32.85 | 16.4 | 9.65 | 25.9 | 14.7 | 28.7 | 23.1 | 33.87 | 27.08 |
| 56470 | 'Rgs19' | 49.19 | 41.09 | 40.9 | 37 | 23.1 | 45.3 | 52.5 | 64.54 | 57.59 | 79.29 |
| 56471 | 'Stmn4' | 166.2 | 125.7 | 77.6 | 155 | 185 | 128.5 | 91.3 | 122.3 | 82.36 | 110.6 |
| 56473 | 'Fads2' | 33.05 | 40.45 | 24.3 | 14.4 | 11.3 | 34.7 | 31.1 | 17.45 | 47.24 | 4.04 |
| 56480 | 'Tbk1' | 34.1 | 12.64 | 22.6 | 35.9 | 20.2 | 18.86 | 27.6 | 24.99 | 22.92 | 40.56 |
| 56484 | 'Foxo3' | 0.4 | 1.34 | 1.98 | 1.14 | 0.99 | 0.48 | 2.84 | 1.4 | 2.87 | 1.96 |
| 56485 | 'Slc2a5' | 0 | 0 | 0 | 0 | 0 | 6.24 | 0 | 0 | 2.72 | 1.71 |
| 56486 | 'Gabarap' | 287.9 | 251.1 | 249 | 243 | 253 | 270.8 | 187 | 254.2 | 265.9 | 277.6 |
| 56488 | 'Nxt1' | 17.26 | 9.86 | 8.49 | 33.9 | 20.9 | 4.25 | 10.8 | 17.11 | 20.58 | 10.53 |
| 56489 | 'Ikbke' | 0 | 2.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0.74 | 0.49 |
| 56490 | 'Zbtb20' | 69.24 | 48.78 | 38.2 | 52 | 14.9 | 13.41 | 13.8 | 23.41 | 18.07 | 25.46 |
| 56491 | 'Vapb' | 6.12 | 14.92 | 6.91 | 10.2 | 6.63 | 6.56 | 9.13 | 5.2 | 6.14 | 5.27 |
| 56494 | 'Gosr2' | 52.7 | 67.81 | 57 | 54.5 | 62.7 | 31.56 | 61.7 | 52.02 | 35.47 | 84.34 |
| 56495 | 'Asna1' | 70.36 | 69.11 | 88.7 | 58.8 | 114 | 56.06 | 52.3 | 88.76 | 95.98 | 65.9 |
| 56496 | 'Tspan6' | 68.23 | 67.97 | 64.5 | 62.6 | 27.8 | 70.11 | 45.3 | 60.04 | 38.92 | 81.08 |
| 56501 | 'Elf4' | 0 | 0.63 | 0 | 0.01 | 0 | 0 | 0 | 0 | 1.44 | 0.48 |
| 56503 | 'Ankrd49' | 6.21 | 0.63 | 4.39 | 0.62 | 5.31 | 7.53 | 9.68 | 5.18 | 6.87 | 3.19 |
| 56504 | 'Srpk3' | 3.28 | 2.31 | 3.11 | 0.09 | 4.46 | 3.35 | 0 | 0 | 13.29 | 0.02 |
| 56505 | 'Ruvbl1' | 72.54 | 88.99 | 62 | 68.1 | 63.3 | 79.74 | 66.9 | 53.69 | 84.89 | 79.99 |
| 56506 | 'Cib2' | 81.28 | 128 | 79.4 | 83.7 | 42.1 | 89.13 | 134 | 43.74 | 61.22 | 34.79 |
| 56508 | 'Rapgef4' | 26.32 | 17.49 | 13.8 | 29.3 | 20 | 16.64 | 7.71 | 22.43 | 10.4 | 29.27 |
| 56513 | 'Pard6a' | 20.46 | 25.58 | 46.5 | 21.3 | 9.93 | 17.57 | 40.5 | 27.59 | 47.55 | 48.06 |
| 56515 | 'Rnf138' | 11.29 | 8.54 | 6.35 | 18.6 | 3.18 | 1.55 | 9.44 | 4.42 | 15.34 | 9.42 |
| 56516 | 'Rbms2' | 0.3 | 0 | 1.15 | 0 | 0.52 | 0 | 0.03 | 0 | 0 | 0.25 |
| 56517 | 'Slc22a21' | 1.51 | 3.81 | 3.15 | 7.52 | 6.32 | 2.71 | 4.9 | 3.7 | 11.73 | 3.24 |
| 56520 | 'Nme4' | 0.11 | 11.28 | 3.79 | 10.8 | 3.22 | 14.27 | 0 | 4.1 | 13.62 | 27.72 |
| 56523 | 'Pmfbp1' | 0.01 | 0.28 | 0.03 | 0.03 | 0.04 | 0.32 | 0.29 | 0.01 | 1.28 | 0.04 |
| 56524 | 'Mpp6' | 2.1 | 5.01 | 2.2 | 3.96 | 1.78 | 2 | 1.17 | 2.49 | 0.63 | 1.79 |
| 56525 | 'Zfp235' | 6.61 | 0.91 | 3.82 | 5.85 | 5.98 | 2.84 | 8.45 | 6.67 | 5.81 | 3.3 |
| 56526 | 'Sept6' | 12.8 | 12.84 | 30.8 | 25.1 | 23.5 | 5.15 | 9.27 | 11.25 | 10.76 | 14.55 |
| 56527 | 'Mast1' | 13.24 | 18.1 | 31.1 | 9.85 | 14 | 6.22 | 14.7 | 15.34 | 26.2 | 11.67 |
| 56529 | 'Sec11a' | 114.3 | 91.22 | 52.3 | 156 | 83.2 | 110.4 | 53.6 | 73.54 | 104.5 | 73.33 |
| 56530 | 'Cnpy2' | 181.1 | 285.6 | 169 | 141 | 152 | 241.3 | 161 | 194.3 | 265.1 | 214.4 |
| 56531 | 'Ylpm1' | 6.88 | 9.15 | 8 | 13.4 | 17 | 9.27 | 16.8 | 6.06 | 12.97 | 7.35 |
| 56533 | 'Rgs17' | 17.63 | 15.56 | 14 | 11.6 | 14.3 | 14.65 | 10.1 | 15.05 | 12.26 | 9.08 |
| 56534 | 'Hspb3' | 0 | 20 | 0.13 | 0 | 1.66 | 0 | 0 | 0.05 | 0 | 3.88 |
| 56535 | 'Pex3' | 20.19 | 15.77 | 20 | 3.01 | 9.9 | 27.07 | 14.2 | 13.87 | 17.54 | 28.07 |
| 56541 | 'Habp4' | 35.45 | 21.08 | 9.13 | 104 | 20.6 | 23.91 | 45.4 | 19.97 | 44.97 | 18.65 |
| 56542 | 'Ick' | 0.23 | 1.15 | 1.54 | 0 | 0.77 | 0.17 | 0.27 | 0.27 | 4.21 | 0 |
| 56543 | 'Kcnd3' | 1.66 | 2.8 | 5.93 | 10.4 | 2.31 | 2.23 | 8.78 | 3.12 | 2.34 | 1.54 |
| 56544 | 'Vmn2r1' | 0.01 | 0.15 | 0.19 | 0 | 0 | 0.19 | 0 | 0 | 1.25 | 0 |
| 56550 | 'Ube2d2a' | 63.69 | 67.76 | 58.1 | 81.8 | 64.6 | 40.65 | 43.9 | 70.32 | 74.66 | 50.28 |
| 56551 | 'Txn2' | 210.4 | 231.3 | 184 | 339 | 245 | 301 | 197 | 177.1 | 269.6 | 312.18 |
| 56612 | 'Pfdn5' | 277.9 | 201.2 | 292 | 312 | 205 | 290.6 | 212 | 212.4 | 169.8 | 219.82 |
| 56613 | 'Rps6ka4' | 6.27 | 16.26 | 10.5 | 0.02 | 5.62 | 11.79 | 4.05 | 6.82 | 10.77 | 20.03 |
| 56615 | 'Mgst1' | 14.2 | 12.45 | 0.32 | 9.85 | 8.14 | 18.09 | 21.8 | 10.6 | 13.7 | 3.54 |
| 56620 | 'Clec4n' | 0.04 | 0 | 0 | 0 | 0 | 6.47 | 0 | 0 | 0 | 0 |
| 56622 | 'Adam21' | 0 | 0 | 0 | 0 | 1.71 | 0.25 | 0 | 0 | 1.42 | 0 |
| 56626 | 'Poll' | 14.96 | 15.33 | 1.72 | 0 | 13.2 | 9.4 | 8.18 | 3.3 | 15.78 | 8.81 |
| 56631 | 'Trim17' | 6.65 | 10.51 | 11.9 | 11.2 | 14.8 | 8.41 | 7.11 | 8.59 | 11.64 | 10.78 |
| 56632 | 'Sphk2' | 6.02 | 8.83 | 11.7 | 0.68 | 6.49 | 4.61 | 6.86 | 3.45 | 7.18 | 6.43 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 56636 | 'Fgf21' | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0.05 |
| 56637 | 'Gsk3b' | 75.32 | 87.73 | 45.3 | 96.2 | 90.3 | 68.64 | 56.8 | 93.97 | 69.21 | 77.49 |
| 56642 | 'Ankrd2' | 1.65 | 6.52 | 21 | 0 | 22.2 | 16.09 | 0 | 1.84 | 25.46 | 6.48 |
| 56643 | 'Slc15a1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.07 | 0 | 0 |
| 56690 | 'Mlycd' | 1.93 | 1.96 | 8.82 | 4.73 | 5.46 | 5.14 | 3.5 | 8.84 | 11.34 | 2.09 |
| 56692 | 'Lamtor3' | 100.8 | 44.28 | 70.6 | 67 | 53 | 81.11 | 75.7 | 68.07 | 93.72 | 79.85 |
| 56693 | 'Crtap' | 4.74 | 10.02 | 1.89 | 7.47 | 7.93 | 4.62 | 0.03 | 7.42 | 15.91 | 0 |
| 56695 | 'Pnkd' | 82.52 | 93.7 | 128 | 122 | 105 | 71.58 | 100 | 98.94 | 123.2 | 83.66 |
| 56697 | 'Akap10' | 2.03 | 5.28 | 3.43 | 6.26 | 1.77 | 0.5 | 2.86 | 3.49 | 7.45 | 0.59 |
| 56698 | 'Phax' | 46.93 | 33.44 | 51.5 | 22.6 | 54.4 | 51.56 | 34.7 | 50.12 | 48.91 | 34.56 |
| 56699 | 'Cdc42ep4' | 5.96 | 14.39 | 7.76 | 16.4 | 8.63 | 13.72 | 9.95 | 16.87 | 3.32 | 6.64 |
| 56700 | 'Glimp' | 34.2 | 24.54 | 29.3 | 10.9 | 23.4 | 42.26 | 12.8 | 42.08 | 56.28 | 33.58 |
| 56702 | 'Hist1h1b' | 0 | 0 | 0.13 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0 |
| 56703 | 'Pigo' | 12.21 | 11.86 | 7.98 | 2.1 | 12.9 | 4.45 | 5.99 | 6.27 | 6.24 | 5.7 |
| 56705 | 'Ranbp9' | 0.27 | 4.07 | 3.3 | 3.94 | 4.48 | 0.47 | 2.94 | 0.01 | 8.6 | 5.45 |
| 56706 | 'Ccn11' | 23.99 | 37.9 | 40.8 | 63 | 14.8 | 39.28 | 23.1 | 22.73 | 14.63 | 22.69 |
| 56707 | 'Zfp111' | 0.14 | 1.97 | 0.23 | 2.06 | 0.39 | 0.35 | 1.89 | 0.39 | 3.29 | 2.97 |
| 56709 | 'Dnajb12' | 7.12 | 16.15 | 14.4 | 0.06 | 9.69 | 17.2 | 14.7 | 13.25 | 11.07 | 10.15 |
| 56710 | 'Brinp1' | 22.25 | 17.75 | 56.5 | 25.4 | 48.4 | 55.67 | 73 | 40.08 | 103.4 | 64.21 |
| 56711 | 'Plag1' | 0 | 0 | 0.02 | 0 | 0.03 | 0 | 0.07 | 0.15 | 0.3 | 0.12 |
| 56715 | 'Rabgef1' | 17.4 | 19.44 | 16.1 | 14.7 | 17.8 | 9.02 | 7.24 | 19.7 | 16.92 | 28.17 |
| 56716 | 'Mlst8' | 9.16 | 15.15 | 6.8 | 2.98 | 10.8 | 2.88 | 13.1 | 11.14 | 12.43 | 12.79 |
| 56717 | 'Mtor' | 2.44 | 3.09 | 10.8 | 4.21 | 2.53 | 2.14 | 4.93 | 2.82 | 2.45 | 2.4 |
| 56720 | 'Tdo2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.23 | 0 |
| 56722 | 'Litaf' | 8.49 | 10.16 | 5.33 | 0 | 4.75 | 33.71 | 0.02 | 1.38 | 0.02 | 0.82 |
| 56724 | 'Cript' | 107.2 | 95.2 | 60 | 100 | 59.3 | 101.9 | 47.2 | 86.94 | 59.36 | 100.94 |
| 56726 | 'Sh3bgrl' | 21.05 | 22.11 | 35.6 | 8.22 | 30.7 | 14.97 | 18.2 | 27.34 | 43.5 | 29.8 |
| 56734 | 'Tulp2' | 0 | 0.34 | 0 | 0 | 0.77 | 0.19 | 1.56 | 0 | 0.08 | 0.17 |
| 56735 | 'Krt71' | 0 | 0 | 0 | 0 | 0 | 0 | 9.5 | 0 | 0 | 0 |
| 56736 | 'Rnf14' | 175 | 187.5 | 227 | 104 | 149 | 145.7 | 185 | 218.9 | 212.5 | 210.71 |
| 56737 | 'Alg2' | 164.6 | 227.8 | 230 | 185 | 178 | 148.8 | 199 | 250.2 | 186.2 | 282.06 |
| 56738 | 'Mocs1' | 1.36 | 7.6 | 3.17 | 0 | 6.52 | 3.49 | 0 | 4.78 | 8.69 | 3.23 |
| 56739 | 'Rec8' | 16.31 | 12.86 | 14.9 | 11.5 | 13 | 3.58 | 9.7 | 2.31 | 3.5 | 13.01 |
| 56741 | 'Igdcc4' | 6.15 | 2.43 | 4.45 | 4.01 | 4.07 | 1.94 | 3.06 | 1.94 | 4.32 | 4.53 |
| 56742 | 'Psrc1' | 0 | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 |
| 56743 | 'Lat2' | 0.15 | 3.15 | 1.54 | 0 | 2.4 | 33.59 | 13.3 | 7.65 | 5.19 | 0 |
| 56744 | 'Pf4' | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 56745 | 'C1qtnf1' | 0 | 1.05 | 0.07 | 0 | 0 | 0 | 0 | 1.14 | 0.01 | 0 |
| 56746 | 'Tex101' | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 |
| 56747 | 'Sez6l' | 15.44 | 28.37 | 39 | 43.2 | 6.81 | 6.44 | 17.7 | 28.97 | 2.92 | 5.22 |
| 56748 | 'Nfu1' | 217.5 | 201.9 | 158 | 248 | 171 | 169.8 | 199 | 236.7 | 161.8 | 192.24 |
| 56749 | 'Dhodh' | 29.25 | 25.01 | 16.2 | 7.6 | 27.3 | 24.83 | 30.5 | 18.93 | 24.91 | 17.39 |
| 56752 | 'Aldh9a1' | 52.34 | 21.74 | 37.5 | 30 | 24.7 | 21.11 | 17.9 | 23.21 | 27.95 | 21.33 |
| 56753 | 'Tacstd2' | 0 | 5.21 | 0 | 0 | 0 | 0 | 0 | 0 | 13.46 | 1.97 |
| 56758 | 'Mbnl1' | 16.22 | 17.57 | 12.8 | 21.9 | 21.2 | 12.1 | 27.3 | 15.38 | 13.97 | 18.36 |
| 56771 | 'Med20' | 41.39 | 22.42 | 27.9 | 41.9 | 20.1 | 54.16 | 43.6 | 29.48 | 47.7 | 46.79 |
| 56772 | 'Mllt11' | 243.3 | 212.8 | 173 | 264 | 196 | 316.1 | 192 | 348.7 | 227.3 | 235.81 |
| 56773 | 'Chst5' | 2.03 | 0 | 1.4 | 10.1 | 0.64 | 4.52 | 0 | 6.98 | 8.07 | 2.32 |
| 56784 | 'Ralgapa1' | 2.75 | 3.7 | 5.23 | 8.71 | 5.28 | 3.02 | 1.48 | 2.01 | 3.11 | 4.75 |
| 56786 | 'Tmem9b' | 109.6 | 141.8 | 139 | 90.1 | 109 | 173.9 | 178 | 166.8 | 149.8 | 94.52 |
| 56788 | 'Scube2' | 0 | 2.14 | 0.03 | 7.43 | 0.4 | 0 | 6.52 | 0.98 | 0.01 | 0.97 |
| 56790 | 'Supt20' | 24.35 | 17.36 | 8.17 | 24.6 | 9.81 | 4.32 | 9.09 | 10.07 | 14.74 | 18.38 |
| 56791 | 'Ube2l6' | 3.28 | 3.13 | 8.53 | 45.7 | 7.65 | 4.13 | 0.07 | 4.09 | 4.69 | 4.73 |
| 56792 | 'Stap1' | 0.1 | 0 | 0 | 0 | 0.81 | 0.31 | 1.36 | 0 | 0.01 | 0 |
| 56794 | 'Hacl1' | 4.41 | 1.97 | 0.02 | 15.9 | 7.35 | 3.96 | 7.39 | 0 | 5.07 | 1.63 |
| 56795 | 'Arl10' | 70.79 | 56.27 | 110 | 41.8 | 20.2 | 41.1 | 89.9 | 29.44 | 46 | 13 |
| 56805 | 'Zbtb33' | 0.75 | 0.05 | 0.88 | 0 | 0.47 | 0 | 0 | 0.47 | 0 | 2.11 |
| 56807 | 'Scamp5' | 124.5 | 104.9 | 176 | 39.4 | 82.6 | 85.78 | 150 | 97.78 | 91.42 | 130.79 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 56808 | 'Cacna2d2' | 2.06 | 0.9 | 1.89 | 1.58 | 5.89 | 3.41 | 2.73 | 1.46 | 6.06 | 2.79 |
| 56809 | 'Gmeb1' | 5.81 | 3.25 | 5.14 | 3.22 | 6.69 | 4.06 | 8.81 | 1.85 | 6.5 | 6.37 |
| 56811 | 'Dkk2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.61 | 1.77 |
| 56812 | 'Dnajb2' | 45.41 | 54.2 | 45.5 | 36.3 | 37.3 | 38.61 | 25.6 | 27.04 | 32.1 | 32.8 |
| 56838 | 'Ccl28' | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0.3 | 0 |
| 56839 | 'Lgi1' | 13.98 | 22.45 | 9.9 | 0 | 11.2 | 22.97 | 31.1 | 21.33 | 9.67 | 11.82 |
| 56844 | 'Tssc4' | 90.51 | 55.4 | 81.6 | 105 | 71 | 105.6 | 54 | 82.73 | 95.1 | 90.91 |
| 56846 | 'Necab3' | 14.07 | 20.6 | 52.7 | 8.76 | 26.1 | 27.54 | 19 | 38.63 | 14.65 | 13.03 |
| 56856 | 'Insm2' | 1.36 | 2.12 | 0.17 | 4.01 | 0 | 2.3 | 0 | 0 | 2.21 | 11.04 |
| 56857 | 'Slc37a2' | 0 | 0 | 0 | 0 | 0.63 | 0 | 0 | 0 | 0.01 | 3.18 |
| 56863 | 'Cldn9' | 0 | 0 | 0.03 | 0 | 34.1 | 0 | 0 | 3.5 | 0 | 0 |
| 56868 | 'Psg23' | 0.16 | 0.35 | 0.49 | 0.94 | 0.23 | 0.15 | 0.28 | 0.14 | 0.14 | 0.37 |
| 56869 | 'Zfp109' | 0.51 | 7.76 | 0 | 4.79 | 0 | 0.49 | 0 | 0 | 0 | 0.02 |
| 56872 | 'Pate4' | 0.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.13 |
| 56873 | 'Lmbr1' | 10.3 | 13.7 | 29.5 | 4.67 | 18.2 | 18.26 | 22 | 19.37 | 17.5 | 15.86 |
| 56874 | 'Rnf32' | 10.45 | 6 | 6.07 | 22.1 | 9.37 | 13.68 | 23.8 | 10.44 | 6.39 | 7.52 |
| 56876 | 'Nsmf' | 12.85 | 8.57 | 18.8 | 5.33 | 11.1 | 5.27 | 17.8 | 12.11 | 12.47 | 9.13 |
| 56878 | 'Rbms1' | 0 | 3.28 | 0.74 | 10.3 | 15.7 | 6.73 | 13.6 | 0.41 | 10.03 | 7.18 |
| 57014 | 'Htr3b' | 0 | 1.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57028 | 'Pdxp' | 88.33 | 77.93 | 47.5 | 172 | 96.4 | 154.4 | 94.2 | 51.94 | 57.7 | 65.31 |
| 57080 | 'Gtf2ird1' | 8.18 | 3.89 | 6.56 | 6.98 | 7.87 | 7.55 | 1.43 | 6.4 | 13.94 | 12.75 |
| 57138 | 'Slc12a5' | 34.94 | 14.21 | 38.7 | 11 | 24.4 | 17.18 | 36.9 | 22.38 | 22.89 | 8.77 |
| 57170 | 'Dolpp1' | 22.67 | 21.47 | 13 | 29.6 | 10.7 | 20.87 | 11.9 | 26.1 | 24.51 | 15.8 |
| 57230 | 'Sap30bp' | 27.66 | 43.6 | 25.6 | 17.9 | 23.6 | 35.14 | 33.3 | 26.45 | 33.02 | 31.77 |
| 57246 | 'Tbx20' | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57247 | 'Zfp276' | 5.6 | 5.64 | 2.04 | 0 | 9.3 | 6.51 | 0 | 1.97 | 0 | 2.86 |
| 57249 | 'Gabrq' | 31.64 | 16.21 | 20.8 | 15 | 9.21 | 8.01 | 2.41 | 19.73 | 18.78 | 25.64 |
| 57253 | 'Tas2r108' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.28 | 0 |
| 57257 | 'Vav3' | 0 | 0.2 | 0 | 0.03 | 0.76 | 1.43 | 0.04 | 0 | 3.28 | 0.01 |
| 57258 | 'Xpo4' | 2.04 | 1.05 | 0.66 | 0.78 | 2.56 | 3.24 | 3.87 | 0.43 | 0.52 | 1.29 |
| 57259 | 'Tob2' | 1.62 | 3.28 | 2.22 | 8.07 | 4.23 | 1.68 | 2.85 | 4.38 | 1.86 | 6.9 |
| 57260 | 'Ltb4r2' | 0.01 | 0.01 | 0.03 | 0.03 | 0.1 | 1.39 | 0.2 | 1.24 | 0.18 | 0.15 |
| 57261 | 'Brd4' | 12.74 | 11.02 | 12.5 | 26.9 | 22.1 | 21.24 | 11.6 | 14.1 | 16.45 | 18.02 |
| 57264 | 'Retn' | 0 | 0 | 0 | 0 | 0 | 0.09 | 0 | 1.89 | 1.3 | 1.45 |
| 57265 | 'Fzd2' | 0 | 1.87 | 0.31 | 0 | 0 | 0.9 | 0 | 0.8 | 0.36 | 0 |
| 57266 | 'Cxcl14' | 15.85 | 7.6 | 6.93 | 23.4 | 87 | 11.26 | 18.5 | 5.97 | 0.67 | 12.47 |
| 57267 | 'Apba3' | 16.65 | 23.45 | 25.6 | 7.06 | 13 | 15.96 | 28.2 | 5.46 | 0.16 | 11.1 |
| 57274 | 'Slc16a8' | 0 | 0 | 1.08 | 0 | 0 | 1.94 | 0.41 | 0 | 0 | 0 |
| 57275 | 'Lenep' | 2.92 | 6.39 | 12.8 | 0 | 12.6 | 5.41 | 2.49 | 10.02 | 7.72 | 10.62 |
| 57276 | 'Vsig2' | 0 | 0 | 0 | 0 | 0.22 | 0 | 0 | 0 | 0 | 0.04 |
| 57278 | 'Bcam' | 19.42 | 1.79 | 16.5 | 14.9 | 2.32 | 0.32 | 2.67 | 16.31 | 31.28 | 7.52 |
| 57279 | 'Slc25a20' | 22.12 | 22.76 | 4.18 | 6.98 | 20.7 | 39.37 | 4.88 | 14.38 | 1.26 | 5.77 |
| 57294 | 'Rps27' | 466.7 | 536.2 | 631 | 1059 | 272 | 507.8 | 374 | 143.8 | 388.3 | 295.52 |
| 57295 | 'Icmt' | 7.16 | 4.99 | 10.6 | 1.93 | 5.72 | 0.1 | 1.54 | 4.5 | 14.68 | 8.37 |
| 57296 | 'Psmc8' | 158.3 | 138.9 | 120 | 186 | 131 | 154.4 | 123 | 167.9 | 116.3 | 139.8 |
| 57312 | 'Mrps31' | 32.48 | 25.7 | 24.4 | 20 | 18.3 | 23.33 | 21.5 | 43.22 | 25.47 | 31.11 |
| 57314 | 'Nelfcd' | 58.67 | 39.64 | 42.3 | 45 | 54.1 | 25.78 | 29.8 | 78.36 | 69.22 | 40.32 |
| 57315 | 'Wdr46' | 16.1 | 6.12 | 6.26 | 8.76 | 10.6 | 27.12 | 14.4 | 11.36 | 10.34 | 14.05 |
| 57316 | 'C1d' | 140.7 | 102.6 | 108 | 191 | 111 | 157.7 | 129 | 113.8 | 110.5 | 158.42 |
| 57317 | 'Srsf4' | 30.33 | 22.2 | 33.1 | 22.2 | 21.8 | 29.36 | 31.5 | 12.79 | 16.26 | 12.65 |
| 57319 | 'Smpdl3a' | 14.2 | 4.83 | 7.7 | 26.3 | 0.14 | 24.77 | 0 | 7.11 | 9.2 | 10.34 |
| 57320 | 'Park7' | 403.4 | 319 | 331 | 414 | 417 | 582.4 | 432 | 482.2 | 302.6 | 424.59 |
| 57321 | 'Terf2ip' | 41 | 52.95 | 46 | 46.3 | 39.3 | 70.05 | 70.9 | 45.97 | 45.96 | 52.31 |
| 57329 | 'Otor' | 0 | 0 | 0.77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57330 | 'Gigyf1' | 1.77 | 3.28 | 5.02 | 2.65 | 6.98 | 5.96 | 2.2 | 1.1 | 7.79 | 3.5 |
| 57339 | 'Jph1' | 0.13 | 0.64 | 0.25 | 0.09 | 0.22 | 0.23 | 0.05 | 0.2 | 0.05 | 0.2 |
| 57340 | 'Jph3' | 79.56 | 76.15 | 90.4 | 12.8 | 67.7 | 79.07 | 60.2 | 97.22 | 64.76 | 75.59 |
| 57342 | 'Parva' | 4.45 | 12.26 | 17.3 | 1.84 | 7.93 | 0.33 | 0.02 | 2.99 | 3 | 9.89 |

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|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 57344 | 'As3mt' | 85.54 | 55.1 | 31.7 | 59.2 | 45.9 | 56.91 | 6.62 | 39.8 | 80.1 | 55.76 |
| 57354 | 'Cramp1l' | 0.7 | 0.26 | 0.37 | 5.53 | 1.4 | 0.21 | 1.97 | 1.42 | 0.98 | 0.2 |
| 57355 | 'BC051019' | 3.01 | 0.06 | 0 | 0.2 | 0.12 | 0 | 0.12 | 0.05 | 0 | 0.13 |
| 57357 | 'Srd5a3' | 5.8 | 15.57 | 23.6 | 14.3 | 8.82 | 27.15 | 24.2 | 16.51 | 5.34 | 24.44 |
| 57370 | 'B4galt3' | 40.46 | 53.03 | 39.7 | 24.1 | 43.7 | 30.39 | 25 | 32.51 | 56 | 53.98 |
| 57373 | 'Akip1' | 0 | 0 | 0.08 | 44.8 | 5.19 | 33.75 | 0 | 9.57 | 13.84 | 7.53 |
| 57376 | 'Smarce1' | 19.97 | 14.26 | 15.7 | 24.1 | 13.5 | 19.94 | 12.2 | 16.29 | 13.8 | 18.73 |
| 57377 | 'Mogs' | 0.32 | 4.6 | 4.94 | 0.05 | 1.61 | 0.02 | 0.77 | 1.18 | 3.58 | 3.35 |
| 57385 | 'P2ry4' | 0.01 | 0.03 | 0.02 | 0.04 | 0.04 | 0 | 0.03 | 0 | 0 | 0.01 |
| 57423 | 'Atp5j2' | 642.2 | 480.8 | 553 | 508 | 507 | 812.5 | 603 | 430.4 | 643.2 | 466.86 |
| 57431 | 'Dnajc4' | 9.39 | 18.62 | 35.2 | 9.82 | 19.1 | 24.46 | 32.5 | 26.74 | 33.85 | 28.21 |
| 57432 | 'Zc3h8' | 9.1 | 6.29 | 6.97 | 2.3 | 12.1 | 4.42 | 3.55 | 3.27 | 3.48 | 8.39 |
| 57434 | 'Xrcc2' | 2.19 | 2.45 | 6.44 | 0.04 | 4.39 | 7.47 | 5.36 | 1.02 | 0.09 | 3.84 |
| 57435 | 'Plin4' | 0.01 | 1.4 | 0.02 | 0.01 | 0 | 0.01 | 0.01 | 0 | 0.01 | 0.29 |
| 57436 | 'Gabarapl1' | 519.8 | 471.2 | 671 | 471 | 567 | 629.6 | 571 | 623.3 | 473.2 | 436.71 |
| 57437 | 'Golga7' | 59.33 | 43.21 | 45.9 | 68.4 | 94.1 | 96.8 | 60.5 | 58.09 | 50.85 | 48.25 |
| 57438 | 'March7' | 15.94 | 17.82 | 15.5 | 33.6 | 6.58 | 2.48 | 10.6 | 10.72 | 9.84 | 21.34 |
| 57439 | 'Tmem183a' | 27.46 | 23 | 24.8 | 15.9 | 16.4 | 19.24 | 25.8 | 24.94 | 32.95 | 12.94 |
| 57440 | 'Ehd3' | 23.06 | 15.95 | 45.6 | 4.11 | 25.4 | 24.45 | 48 | 36.89 | 19.15 | 25.47 |
| 574402 | 'Gpr17' | 0 | 0 | 21.5 | 4.44 | 0 | 0.01 | 24 | 0.54 | 0 | 0 |
| 574403 | 'Fam196b' | 0.57 | 0.14 | 2.27 | 0 | 0 | 3.05 | 0.01 | 2.27 | 0 | 2.57 |
| 574404 | 'Gm14685' | 0 | 14.71 | 0 | 9.54 | 3.78 | 0 | 0 | 2.8 | 4.33 | 5.27 |
| 574405 | 'DXBay18' | 0 | 4.46 | 2.94 | 0 | 0 | 11.82 | 0.13 | 7.1 | 0.32 | 8.98 |
| 57441 | 'Gmnn' | 0.72 | 3.77 | 14.3 | 8.34 | 8.15 | 0 | 0.05 | 7.08 | 0.14 | 2.73 |
| 574417 | 'Tas2r137' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 574418 | 'Serinc4' | 0.03 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0.17 | 0 | 0 |
| 574428 | 'Zmynd15' | 0 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0.02 | 0 |
| 57443 | 'Fbxo3' | 83.78 | 72.36 | 58.2 | 55.9 | 53.4 | 70.22 | 62.7 | 69.08 | 75.41 | 90.96 |
| 574437 | 'Xlr3b' | 16.43 | 36.34 | 18.6 | 0.04 | 0.09 | 22.12 | 36 | 14.11 | 30.5 | 16.35 |
| 57444 | 'lsg20' | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 5.38 | 0 | 0 |
| 57738 | 'Slc15a2' | 2.85 | 0.54 | 5.62 | 0.98 | 3.78 | 0 | 16.2 | 0 | 0 | 0 |
| 57740 | 'Stk32c' | 3.59 | 13.22 | 0.15 | 0.03 | 2.55 | 0.15 | 1.68 | 2.22 | 4.07 | 0 |
| 57741 | 'Noc2l' | 3.88 | 3.18 | 4.61 | 0 | 2.05 | 4.56 | 5.42 | 7.21 | 8.66 | 5.08 |
| 57743 | 'Sec61a2' | 73.68 | 66.26 | 73.5 | 71.9 | 55 | 71.76 | 53.4 | 71.38 | 95.41 | 86.83 |
| 57745 | 'Zfp112' | 0 | 6.35 | 6.9 | 0 | 2.33 | 0 | 3.46 | 5.64 | 0.26 | 5.71 |
| 57746 | 'Piiw12' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 57748 | 'Jmy' | 1.65 | 0.55 | 0.37 | 0.52 | 1.9 | 0.01 | 0.31 | 0.29 | 1.25 | 0.76 |
| 57750 | 'Wdr12' | 41.21 | 37.43 | 52.6 | 55 | 35.1 | 36.64 | 65.4 | 47.79 | 54.66 | 34.34 |
| 57751 | 'Rnf25' | 82.83 | 44.76 | 32.6 | 53.1 | 85.4 | 74.85 | 54.4 | 66.67 | 52.67 | 55.06 |
| 57752 | 'Tacc2' | 15.62 | 13.47 | 13.4 | 8.63 | 11.5 | 11.07 | 23.8 | 15.89 | 12.09 | 6.33 |
| 57753 | 'Noc3l' | 1.66 | 0.06 | 2.13 | 0.03 | 1.51 | 1.19 | 0.28 | 0.45 | 0.16 | 1.1 |
| 57754 | 'Cend1' | 275.7 | 190 | 402 | 218 | 301 | 281.2 | 378 | 399.8 | 302.8 | 206.38 |
| 57755 | 'Dnajb7' | 0 | 0 | 0 | 0 | 2.89 | 0 | 1.86 | 0 | 2.86 | 0 |
| 57756 | 'Fhl5' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57757 | 'Pglyrp2' | 0 | 0 | 0 | 0 | 1.63 | 0 | 0 | 0.15 | 0 | 0 |
| 57773 | 'Wdr4' | 4.51 | 5.8 | 7.68 | 9.47 | 8.56 | 12.33 | 2.55 | 3.82 | 7.06 | 18.29 |
| 57775 | 'Usp29' | 12.78 | 11.83 | 14.7 | 9.84 | 4.96 | 11.73 | 10.4 | 12.86 | 8.18 | 11.28 |
| 57776 | 'Ttyh1' | 20.95 | 12.67 | 14 | 3.18 | 22.9 | 13.82 | 32.9 | 13.13 | 10.39 | 3.39 |
| 57778 | 'Fmnl1' | 1.39 | 3.23 | 0.99 | 0 | 3.19 | 0.06 | 1.72 | 2.4 | 1.97 | 0.48 |
| 57780 | 'Fxyd7' | 340.1 | 175.1 | 194 | 205 | 192 | 321.5 | 165 | 307.3 | 106.1 | 103.01 |
| 57782 | 'Rbak' | 1.98 | 2.14 | 5.24 | 13.1 | 6.54 | 0.5 | 0.13 | 1.92 | 1.45 | 1.75 |
| 57783 | 'Tnip1' | 8.6 | 7.81 | 10.7 | 0.02 | 13.1 | 8.44 | 3.64 | 12.45 | 4.22 | 7.07 |
| 57784 | 'Bin3' | 0 | 6.52 | 6.07 | 10.8 | 5.52 | 18.81 | 9.51 | 7.96 | 6.67 | 13.76 |
| 57785 | 'Rangrf' | 22.39 | 5.7 | 21.5 | 13.8 | 21.4 | 18.18 | 20.8 | 10.67 | 18.43 | 6.87 |
| 57808 | 'Rpl35a' | 252.6 | 286.3 | 239 | 357 | 199 | 270.9 | 286 | 144.7 | 168.3 | 169.41 |
| 57810 | 'Cdon' | 0.13 | 0 | 0.61 | 0 | 0.02 | 1.03 | 0.1 | 0.11 | 0 | 2.13 |
| 57813 | 'Tk2' | 48.14 | 20.31 | 43.5 | 63.5 | 50.1 | 33.04 | 51.8 | 47.89 | 69.07 | 20.41 |
| 57815 | 'Spata5' | 5.77 | 4.85 | 8.25 | 0.02 | 2.56 | 4.66 | 0.6 | 5.9 | 15.19 | 12.57 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 57816 | 'Tesc' | 6.22 | 13.87 | 8.74 | 12.3 | 3.31 | 0.05 | 6.95 | 7.15 | 17.71 | 3.17 |
| 57837 | 'Eral1' | 11.67 | 9.24 | 21.6 | 5.81 | 24.3 | 4.4 | 6.07 | 12.24 | 5.1 | 16.29 |
| 57869 | 'Adck2' | 7.8 | 13.79 | 18.3 | 15.9 | 0.34 | 10.58 | 6.38 | 26.1 | 19.57 | 15.44 |
| 57874 | 'Hacd3' | 149.2 | 120.1 | 139 | 62.1 | 109 | 166.2 | 137 | 145.7 | 207.4 | 184.8 |
| 57875 | 'Angptl4' | 0.02 | 10.84 | 0.03 | 0 | 0 | 6.04 | 0.03 | 0 | 3.75 | 2.2 |
| 57890 | 'Il17re' | 0.51 | 0.73 | 0.43 | 0 | 1.13 | 0 | 2.3 | 0.58 | 0 | 0 |
| 57895 | 'Ccdc126' | 8.61 | 10.56 | 17.6 | 5.47 | 9.53 | 9.07 | 13.2 | 6.51 | 20.71 | 7.93 |
| 57896 | 'Krccl1' | 1.58 | 2.53 | 0.97 | 5.96 | 5.12 | 0 | 4.9 | 2.71 | 2.93 | 5.34 |
| 57905 | 'Isy1' | 12.47 | 15.98 | 26.2 | 10.7 | 7.45 | 31.47 | 32.2 | 22.52 | 30.31 | 23.79 |
| 57908 | 'Zfp318' | 2.71 | 1.23 | 3.5 | 4 | 5.19 | 1.5 | 1.09 | 2.21 | 2.46 | 1.86 |
| 57911 | 'Gsdma' | 0 | 0 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0 | 0 |
| 57912 | 'Cdc42se1' | 17.74 | 6.71 | 18.3 | 19.8 | 19.1 | 9.48 | 11.1 | 6.08 | 14.26 | 15.55 |
| 57913 | 'Pidd1' | 0.04 | 1.43 | 3.85 | 0 | 0.02 | 0 | 0.07 | 2.92 | 0.03 | 0.01 |
| 57914 | 'Crlf2' | 5.48 | 8.98 | 6.59 | 6.49 | 6.22 | 21.41 | 0.61 | 4.32 | 5.48 | 13.86 |
| 57915 | 'Tbc1d1' | 4.43 | 3.39 | 5.34 | 10.8 | 2.43 | 7.75 | 4.67 | 1.64 | 1.32 | 8.15 |
| 57916 | 'Tnfrsf13b' | 2.74 | 1.36 | 0.26 | 4.7 | 0.14 | 0 | 0 | 0 | 0 | 0.42 |
| 58172 | 'Sertad2' | 3.41 | 1.95 | 4.89 | 2.99 | 1.02 | 3.57 | 3.83 | 2.23 | 4.03 | 0.94 |
| 58175 | 'Rgs20' | 23.32 | 11.66 | 12.1 | 24.8 | 27.4 | 21.17 | 15 | 26.67 | 7.31 | 13.46 |
| 58178 | 'Sorcs1' | 6.98 | 4.5 | 3.61 | 0.11 | 8 | 1.51 | 5.11 | 5 | 7.8 | 12.11 |
| 58180 | 'Hic2' | 0.01 | 0.85 | 2.33 | 2.56 | 1.45 | 0 | 1.6 | 1.65 | 0.51 | 1.24 |
| 58182 | 'Prokr1' | 0 | 0.18 | 0.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58184 | 'Cnot9' | 18.41 | 17.55 | 22 | 16.6 | 18.9 | 8.35 | 15.6 | 19.3 | 9.98 | 14.37 |
| 58185 | 'Rsad2' | 0 | 1.88 | 1.97 | 0.62 | 3.44 | 0 | 0 | 0 | 0 | 0.01 |
| 58186 | 'Rad18' | 6.11 | 5.24 | 6.17 | 6.04 | 9.72 | 8.08 | 6.99 | 11.2 | 1.8 | 0.02 |
| 58187 | 'Cldn10' | 36.73 | 46.51 | 22.9 | 68.8 | 10.2 | 49.79 | 12.3 | 24.21 | 24.89 | 4.75 |
| 58188 | 'Vstm2b' | 15.47 | 7.3 | 21.2 | 29.7 | 13.1 | 22.96 | 14.9 | 14.85 | 13.84 | 10.42 |
| 58193 | 'Extl2' | 39.64 | 39.75 | 67.6 | 64.6 | 49.4 | 37.46 | 31.1 | 60.74 | 65.26 | 56.02 |
| 58194 | 'Sh3kbp1' | 9.69 | 16.12 | 12.7 | 11.4 | 6.56 | 8.19 | 15 | 11.21 | 12.54 | 10.43 |
| 58198 | 'Sall1' | 0.92 | 0 | 1.53 | 1.43 | 0 | 0.27 | 0 | 0 | 0 | 0.3 |
| 58200 | 'Ppp1r1a' | 21.86 | 23.01 | 22.4 | 24.9 | 30.2 | 32.46 | 35.3 | 24.75 | 20.98 | 11.34 |
| 58202 | 'Nelfb' | 31.59 | 46.79 | 67 | 17.5 | 50.4 | 46.16 | 58.4 | 69.31 | 42.17 | 32.16 |
| 58203 | 'Zbp1' | 0 | 0 | 0 | 0 | 0 | 14.57 | 0 | 0 | 0 | 0 |
| 58206 | 'Zbtb32' | 0 | 2.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.63 |
| 58207 | 'Slc43a3' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 58208 | 'Bcl11b' | 0 | 0 | 0 | 0 | 1.67 | 0.12 | 1.01 | 0.28 | 0 | 0 |
| 58212 | 'Srrm3' | 10.98 | 25.93 | 24 | 25.6 | 39.8 | 41.9 | 31.4 | 10.41 | 22.23 | 16.48 |
| 58218 | 'Trem3' | 0 | 0 | 1.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58220 | 'Pard6b' | 0 | 0 | 1.92 | 0 | 0 | 0.01 | 0 | 0 | 1.64 | 0 |
| 58222 | 'Rab37' | 0 | 2.62 | 1.45 | 0 | 0.35 | 0 | 0 | 0 | 0 | 0.41 |
| 58223 | 'Mmp19' | 0 | 0 | 0.84 | 0 | 0.02 | 0 | 0.09 | 0.64 | 0 | 0 |
| 58226 | 'Cacna1h' | 0.96 | 1.96 | 1.65 | 5.63 | 2.29 | 0.65 | 1.01 | 2.17 | 0.03 | 0.23 |
| 58227 | 'Fam184b' | 4.14 | 3.04 | 3.5 | 1.59 | 1.78 | 2.24 | 0 | 0.55 | 1.26 | 3.91 |
| 58229 | 'Efcc1' | 5.44 | 13.43 | 12.3 | 9.45 | 21.7 | 10.94 | 21.1 | 15.99 | 7.38 | 7.17 |
| 58230 | 'Rnf8' | 42.18 | 37.67 | 45.1 | 51.4 | 40.8 | 33.35 | 38.3 | 37.16 | 43.55 | 20.24 |
| 58231 | 'Stk4' | 5.68 | 3.17 | 5.38 | 2.09 | 4.97 | 12.84 | 8.69 | 7.65 | 1.53 | 20.05 |
| 58233 | 'Dnaja4' | 4.79 | 5.94 | 0.94 | 9.44 | 6.83 | 5.08 | 5.91 | 3.51 | 16.65 | 6.85 |
| 58234 | 'Shank3' | 0.71 | 1.38 | 0.84 | 1.36 | 0.1 | 0.62 | 0.04 | 1.21 | 1.01 | 0.25 |
| 58235 | 'Nectin1' | 1.44 | 1.84 | 3.31 | 0.95 | 0.52 | 2.15 | 4.59 | 0.65 | 0.73 | 1.15 |
| 58237 | 'Nkain4' | 62.4 | 32 | 44.4 | 76.8 | 24.6 | 101.4 | 28.9 | 19.05 | 48.48 | 9.92 |
| 58238 | 'Fam181b' | 5.62 | 1.54 | 7.5 | 2.17 | 0 | 0 | 0 | 1.55 | 0 | 0 |
| 58239 | 'Dexi' | 5.92 | 6.5 | 5.03 | 10.1 | 9.2 | 0.33 | 14 | 8.23 | 8.76 | 2.53 |
| 58240 | 'Hs1bp3' | 4.47 | 6.21 | 10.7 | 8.2 | 6.27 | 4.49 | 6.38 | 3.33 | 0.11 | 5.7 |
| 58242 | 'Nudt11' | 35.04 | 24.88 | 29.5 | 27.1 | 7.8 | 9.89 | 20.8 | 8.8 | 20.15 | 3.43 |
| 58243 | 'Nap1l5' | 1998 | 2303 | 1677 | 1968 | 1445 | 2103 | 2067 | 2485 | 2008 | 1841.75 |
| 58244 | 'Stx6' | 13.66 | 24.74 | 22.2 | 10.8 | 23.4 | 13.66 | 20.7 | 13.31 | 15.92 | 0.09 |
| 58245 | 'Gpr180' | 21.79 | 16.55 | 26.3 | 22.5 | 7.59 | 7.15 | 21.9 | 14.05 | 34.94 | 9.48 |
| 58246 | 'Slc35b4' | 33.13 | 23.25 | 26.1 | 19.1 | 18.5 | 19.63 | 13.2 | 34.17 | 17.44 | 33.92 |
| 58248 | '1700123O20Rik' | 30.19 | 24.8 | 16.6 | 6.38 | 20.7 | 21.93 | 35 | 12.3 | 15.1 | 15.22 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 58249 | 'Fibp' | 78.88 | 83.73 | 58.5 | 75.9 | 94.6 | 118 | 77.9 | 78.8 | 50.93 | 108.55 |
| 58250 | 'Chst11' | 0.67 | 2.38 | 1.64 | 2.37 | 1.36 | 0 | 1.12 | 2.91 | 0.21 | 0 |
| 58251 | 'Cep295n1' | 0.09 | 0.98 | 0.22 | 1.29 | 0 | 0.32 | 0 | 0.09 | 0.17 | 0.35 |
| 58520 | 'Erg28' | 44.03 | 46.52 | 51.8 | 14.9 | 53.8 | 47.62 | 53.9 | 56.34 | 34.66 | 26.79 |
| 58521 | 'Eid1' | 17.76 | 17 | 8.25 | 14.3 | 10.8 | 26.54 | 16.8 | 19.09 | 20.32 | 17.93 |
| 58522 | 'Trim54' | 0.03 | 0.03 | 0.1 | 0.04 | 0.1 | 0.09 | 0.07 | 0 | 0 | 0.08 |
| 58523 | 'Elp2' | 70.92 | 56.7 | 82.7 | 65.6 | 47.3 | 70.15 | 79.9 | 65.27 | 98.5 | 102.91 |
| 58799 | 'Crbn' | 48.04 | 29.68 | 11.5 | 31.6 | 50.9 | 20.32 | 22.2 | 33.84 | 37.72 | 30.16 |
| 58800 | 'Trpm7' | 6.62 | 3.84 | 6.03 | 4.78 | 3.67 | 0.41 | 5.69 | 5.45 | 3.73 | 7.09 |
| 58801 | 'Pmaip1' | 11.09 | 0 | 29.1 | 0 | 0 | 23.69 | 0 | 0 | 12.68 | 0 |
| 58802 | 'Kcnmb4' | 0 | 7.62 | 1.17 | 17.3 | 0.17 | 0 | 0 | 0.19 | 0.04 | 4.42 |
| 58804 | 'Cdc42ep5' | 0 | 0 | 3.14 | 0 | 0 | 0 | 7.5 | 0 | 0 | 0 |
| 58805 | 'Mlxip1' | 0.42 | 0.02 | 0.1 | 0 | 0 | 2.02 | 0 | 0 | 0 | 0.02 |
| 58807 | 'Slco1c1' | 1.31 | 0.2 | 0 | 0 | 0 | 0.05 | 0 | 3 | 1.68 | 0.05 |
| 58809 | 'Rnase4' | 3.67 | 3.45 | 2.65 | 0 | 0 | 14.32 | 0.07 | 0 | 0.6 | 9.97 |
| 58810 | 'Akr1a1' | 519.6 | 554.6 | 537 | 414 | 522 | 678.4 | 579 | 556.5 | 444.7 | 519.45 |
| 58859 | 'Efemp2' | 12.74 | 2.73 | 5.35 | 3.3 | 5.45 | 6.47 | 6.59 | 8.23 | 7.75 | 3.62 |
| 58861 | 'Cysltr1' | 1.92 | 0 | 0 | 0 | 0 | 2.12 | 0 | 0 | 0 | 0 |
| 58864 | 'Tssk3' | 0 | 0 | 0 | 0 | 0.44 | 0 | 0.75 | 0 | 0 | 0 |
| 58865 | 'Tdh' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.68 |
| 58866 | 'Treh' | 0.49 | 0 | 0 | 0 | 0 | 0 | 1.11 | 0 | 0 | 0 |
| 58867 | 'Syngr4' | 0 | 0.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 58869 | 'Pex5l' | 10.08 | 7.07 | 0.62 | 3 | 11.2 | 10.26 | 9.02 | 2.42 | 0.88 | 2.45 |
| 58875 | 'Hibadh' | 61.88 | 68.97 | 55.3 | 99 | 34.6 | 42.92 | 38.1 | 42.88 | 59.55 | 51.76 |
| 58887 | 'Repin1' | 16.11 | 24.27 | 23.8 | 6.03 | 20.6 | 13.52 | 26.4 | 13.73 | 20 | 13.66 |
| 58909 | 'Fam13a' | 6.37 | 4.65 | 4.07 | 13.4 | 7.05 | 3.47 | 8.12 | 6.27 | 8.82 | 2.84 |
| 58911 | 'Sumf1' | 9.17 | 8.15 | 4.96 | 16.1 | 9.04 | 3.99 | 11.1 | 6.6 | 13.73 | 12.84 |
| 58916 | 'Myot' | 0.02 | 2.17 | 0 | 0 | 0 | 0.04 | 0.02 | 0 | 0 | 0.02 |
| 58988 | 'Rps6kb2' | 12.49 | 13.58 | 13.3 | 9.97 | 37.6 | 24.47 | 22.9 | 9.15 | 10.93 | 26.07 |
| 58991 | 'Ghrl' | 0 | 0 | 0 | 0.84 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58992 | 'F12' | 0 | 0 | 0 | 4.17 | 1.15 | 1.76 | 0 | 2.55 | 3.79 | 0.06 |
| 58994 | 'Smpd3' | 8.32 | 4.83 | 8.88 | 1.7 | 7.02 | 1.07 | 0.04 | 3.73 | 3.15 | 4.89 |
| 58996 | 'Arhgap23' | 4.06 | 2.95 | 2.41 | 2.67 | 4.01 | 3.25 | 4.77 | 2.91 | 6.79 | 1.37 |
| 58998 | 'Nectin3' | 2.91 | 0.76 | 0.17 | 2.26 | 2.23 | 0.02 | 5.54 | 0.89 | 0.03 | 1.45 |
| 59001 | 'Pole3' | 7.13 | 14.1 | 15.1 | 26.2 | 17.9 | 12.26 | 15.6 | 9.74 | 11.81 | 11.47 |
| 59002 | 'Wrap73' | 5.46 | 15.16 | 29.7 | 11.5 | 13.6 | 26.58 | 12.8 | 25.01 | 29.49 | 17.29 |
| 59003 | 'Maea' | 86.17 | 59.31 | 109 | 71.5 | 85.6 | 38.74 | 74.6 | 92.46 | 79.38 | 81.83 |
| 59004 | 'Pias4' | 23.17 | 10.94 | 11.9 | 0 | 32.1 | 6.61 | 16.6 | 14.72 | 3.47 | 8.56 |
| 59005 | 'Trappc2l' | 352.1 | 306.6 | 325 | 248 | 291 | 536.5 | 289 | 312.2 | 356.7 | 300.62 |
| 59006 | 'Myoz2' | 0.2 | 0 | 0.83 | 0.25 | 0.22 | 0.28 | 0.1 | 0.04 | 0.31 | 0.27 |
| 59007 | 'Ngly1' | 12.95 | 15.17 | 19.2 | 15.1 | 14.6 | 13.22 | 10.1 | 10.21 | 21.07 | 19.45 |
| 59008 | 'Anapc5' | 122 | 175.8 | 119 | 140 | 124 | 116 | 112 | 145.5 | 103.2 | 137.2 |
| 59009 | 'Sh3rf1' | 3.61 | 3.47 | 3.16 | 0.42 | 0.26 | 0.08 | 1.74 | 4.27 | 6.59 | 0.29 |
| 59010 | 'Sqor' | 8.97 | 0 | 5.15 | 0 | 0 | 9.96 | 6.79 | 0 | 13.09 | 0.03 |
| 59012 | 'Moxd1' | 0.17 | 10.15 | 0.09 | 2.67 | 0.03 | 0 | 0 | 1.12 | 0.01 | 0 |
| 59013 | 'Hnrnph1' | 117.8 | 129.8 | 166 | 129 | 115 | 97.58 | 160 | 111.1 | 82.02 | 85.83 |
| 59014 | 'Rrs1' | 10.42 | 11.74 | 15.4 | 17.9 | 14.2 | 11.62 | 10.7 | 9.79 | 6.87 | 1.89 |
| 59015 | 'Nup160' | 0.48 | 2.28 | 3.3 | 5.32 | 2.57 | 0.02 | 2.63 | 2.13 | 4.43 | 0.3 |
| 59016 | 'Thap11' | 10.39 | 17.1 | 11.1 | 55 | 11.5 | 4.17 | 8.16 | 8.37 | 21.75 | 7.02 |
| 59020 | 'Pdzk1' | 0 | 0 | 0 | 0 | 0 | 0 | 1.95 | 0 | 0 | 0.18 |
| 59021 | 'Rab2a' | 64.09 | 96.95 | 61.6 | 70.5 | 73.1 | 63.09 | 99.1 | 129.3 | 104.7 | 64.06 |
| 59022 | 'Edf1' | 422 | 300.9 | 343 | 408 | 350 | 462.5 | 447 | 383.8 | 397.1 | 410.54 |
| 59024 | 'Med12' | 0.38 | 0.99 | 3.49 | 1.56 | 1.66 | 0.35 | 0.32 | 0.09 | 0.31 | 1.07 |
| 59025 | 'Usp14' | 168.5 | 164.1 | 159 | 104 | 80.1 | 130.2 | 163 | 158.5 | 140.1 | 175.8 |
| 59026 | 'Huwe1' | 5.91 | 6 | 7.83 | 8.43 | 3.61 | 8.24 | 8.33 | 4.26 | 6.42 | 3.84 |
| 59027 | 'Nampt' | 12.84 | 10.06 | 10.4 | 7.84 | 14.6 | 2.38 | 8.58 | 5.48 | 14.48 | 12.4 |
| 59028 | 'Rcl1' | 28.65 | 45.89 | 12.5 | 5.06 | 19.8 | 27.33 | 56.7 | 32.65 | 18.04 | 25.37 |
| 59029 | 'Psmc14' | 181.7 | 211.1 | 191 | 198 | 177 | 274 | 160 | 181.5 | 215.7 | 282.9 |

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|--------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 59030 | 'Mkks' | 19.24 | 4.63 | 18.9 | 5.58 | 6.38 | 21.35 | 25.2 | 15.67 | 15.15 | 9.08 |
| 59031 | 'Chst12' | 34.38 | 45.7 | 42.3 | 11.6 | 18.5 | 36.12 | 44.3 | 62.79 | 81.19 | 30.49 |
| 59032 | 'Ppp2r3c' | 21.8 | 26.52 | 4.79 | 26.5 | 11.6 | 27.81 | 14 | 23.62 | 19.64 | 18.27 |
| 59033 | 'Slc4a8' | 6.21 | 3.91 | 7.26 | 4.47 | 4.26 | 3.79 | 3.5 | 6.4 | 7.42 | 13.23 |
| 59035 | 'Carm1' | 0.5 | 0 | 0 | 0 | 1.19 | 0.02 | 1.45 | 2.02 | 5.45 | 1.11 |
| 59036 | 'Dact1' | 0.02 | 1.08 | 1.27 | 6.68 | 0.59 | 0 | 0 | 0 | 3.54 | 0 |
| 59038 | 'Pxmp4' | 1.98 | 7.37 | 0.54 | 9.7 | 16.2 | 2.67 | 5.17 | 14.54 | 1.04 | 4.7 |
| 59040 | 'Rhot1' | 25.99 | 17.24 | 16.2 | 5.02 | 12.5 | 12.84 | 24.4 | 13.51 | 16.07 | 6.68 |
| 59041 | 'Stk25' | 181.7 | 218.5 | 238 | 171 | 230 | 331.4 | 275 | 285.1 | 255.9 | 242.44 |
| 59042 | 'Cope' | 268.3 | 254.1 | 325 | 446 | 345 | 415.1 | 309 | 395.1 | 347.4 | 396.83 |
| 59043 | 'Wsb2' | 22.29 | 18.86 | 5.61 | 33.5 | 33.6 | 21.98 | 10.9 | 14.28 | 11.08 | 26.31 |
| 59044 | 'Rnf130' | 10.12 | 9.02 | 7.35 | 1.4 | 10.3 | 1.35 | 11.4 | 7.31 | 6.02 | 3.73 |
| 59045 | 'Stard3' | 15.73 | 25.14 | 12.9 | 11.1 | 20.1 | 24.94 | 5.07 | 12.76 | 24.07 | 17.02 |
| 59046 | 'Arpp19' | 52.39 | 41.54 | 27.5 | 38.8 | 35.2 | 57.74 | 44.4 | 49.51 | 33.78 | 40.82 |
| 59047 | 'Pnkp' | 11.1 | 12.77 | 13.9 | 17.7 | 41.8 | 32.22 | 16.5 | 19.24 | 20.55 | 20.64 |
| 59048 | 'C1galt1c1' | 41.76 | 38.31 | 15.2 | 20.7 | 45.4 | 47.97 | 24 | 49.59 | 46.15 | 37.21 |
| 59049 | 'Slc22a17' | 198 | 178.4 | 150 | 238 | 218 | 255.8 | 229 | 265.1 | 250.1 | 153.06 |
| 59050 | 'Nsa2' | 11.18 | 7.92 | 7.64 | 9.85 | 6.02 | 7.81 | 17.7 | 12 | 4.35 | 10.21 |
| 59052 | 'Mettl9' | 31.19 | 19.32 | 30.2 | 51.2 | 27.8 | 25.52 | 7.65 | 39.42 | 25.3 | 28.12 |
| 59053 | 'Hgh1' | 20.83 | 9.46 | 15.5 | 2.04 | 6.87 | 20.18 | 16.9 | 16.98 | 23.85 | 8.42 |
| 59054 | 'Mrps30' | 20.57 | 18.71 | 23.5 | 54.2 | 29.4 | 7.55 | 44 | 11.59 | 11.92 | 15.23 |
| 59056 | 'Evc' | 0.02 | 1.81 | 0.05 | 2.08 | 0 | 0 | 0 | 0.23 | 2.35 | 0.06 |
| 59057 | 'Zfp24' | 4.21 | 13.09 | 11 | 18.6 | 6.43 | 6.02 | 22.8 | 6.79 | 13.73 | 8.7 |
| 59058 | 'Bhlhe22' | 0 | 0 | 0 | 0 | 0 | 2.12 | 0.25 | 0.42 | 1.59 | 0 |
| 59069 | 'Tpm3' | 139.2 | 209.9 | 116 | 182 | 146 | 192.2 | 113 | 123.6 | 117.1 | 150.73 |
| 59079 | 'Erbin' | 0.63 | 0.95 | 1.71 | 1.59 | 2.48 | 1.08 | 0.49 | 0.24 | 0.03 | 0.03 |
| 59083 | 'Fetub' | 0 | 3.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59090 | 'Midn' | 0.6 | 1.36 | 1.99 | 4 | 0.23 | 0.66 | 1.91 | 1.08 | 1.62 | 0.45 |
| 59091 | 'Jph2' | 0 | 0.72 | 2.67 | 3.48 | 0 | 0 | 0.65 | 2.3 | 0.02 | 0 |
| 59092 | 'Pcbp4' | 65.61 | 44.18 | 54.9 | 30 | 55.1 | 49.94 | 38.7 | 54.96 | 50.47 | 41.42 |
| 59093 | 'Pcbp3' | 41.97 | 74.98 | 79.4 | 64 | 32.4 | 40 | 56.5 | 60.69 | 47.07 | 54.18 |
| 59095 | 'Fxyd6' | 295.2 | 246.4 | 433 | 298 | 269 | 488.8 | 466 | 382.5 | 442.6 | 358.39 |
| 59125 | 'Nek7' | 2.49 | 4.56 | 4.17 | 20.5 | 8.37 | 1.87 | 0.02 | 0.47 | 2.92 | 2.23 |
| 59126 | 'Nek6' | 15.56 | 37.01 | 18.4 | 18.4 | 12.7 | 29.35 | 33.5 | 23.06 | 12.77 | 39.16 |
| 59287 | 'Ncstn' | 36.18 | 36.33 | 30.9 | 58.9 | 44.8 | 34.2 | 44.4 | 50.02 | 35.45 | 76.34 |
| 59288 | 'Dctn5' | 146.1 | 122.4 | 101 | 113 | 109 | 151.1 | 142 | 159.7 | 164.2 | 141.51 |
| 59308 | 'Emcn' | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 594844 | 'Tceal3' | 284.6 | 159.8 | 217 | 267 | 161 | 194.2 | 228 | 201.6 | 234.7 | 141.01 |
| 595136 | 'Ndufs5' | 651.6 | 510.8 | 638 | 537 | 513 | 765 | 643 | 491.5 | 584.8 | 502.81 |
| 60315 | 'Myg1' | 42.35 | 42.17 | 61.1 | 73.9 | 66.4 | 64.64 | 50.1 | 35.38 | 60.03 | 63.08 |
| 60321 | 'Wbp11' | 24.49 | 18.66 | 34.9 | 25.2 | 37 | 14.62 | 31.7 | 29.19 | 43.88 | 44.83 |
| 60322 | 'Chst7' | 1.74 | 0 | 7.36 | 0 | 0 | 0 | 8.95 | 0 | 0.86 | 2.01 |
| 60344 | 'Fign' | 0 | 0.3 | 0 | 1 | 0 | 0 | 2.08 | 0 | 0 | 0 |
| 60345 | 'Nrip2' | 47.28 | 77.21 | 63.7 | 44 | 89.2 | 24.23 | 64.7 | 76.18 | 49.99 | 34.65 |
| 60363 | 'Cldn15' | 0 | 0 | 2.45 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60364 | 'Donson' | 5.23 | 1.46 | 4.84 | 1.75 | 4.38 | 0.17 | 2.58 | 0.73 | 1.46 | 0.18 |
| 60365 | 'Rbm8a' | 53.06 | 52.8 | 52.3 | 76.3 | 58.3 | 62.17 | 30.7 | 58.82 | 29.78 | 57.7 |
| 60367 | 'Il1rapl2' | 1.45 | 0 | 3.9 | 7.16 | 0 | 0 | 0.43 | 0 | 0 | 2.38 |
| 60406 | 'Sap30' | 0.92 | 2.5 | 0 | 5.89 | 6.05 | 0.28 | 0 | 2.3 | 0.07 | 0 |
| 60409 | 'Trappc4' | 238.4 | 183.4 | 152 | 252 | 191 | 218.1 | 215 | 245.6 | 246.7 | 248.79 |
| 60411 | 'Cenpk' | 0 | 0 | 0.06 | 0 | 7.82 | 0.2 | 0.12 | 0 | 0.04 | 0.04 |
| 60425 | 'Doc2g' | 5.36 | 4.47 | 4.85 | 0.17 | 20.5 | 3.61 | 5.53 | 2.36 | 4 | 4.81 |
| 60440 | 'Iigp1' | 0.02 | 0 | 0.07 | 3.9 | 0 | 0 | 0 | 0 | 1.58 | 0 |
| 60441 | 'Mrpl38' | 99.22 | 65.52 | 86.3 | 84 | 66.7 | 85.7 | 45.3 | 97.5 | 85.18 | 84.27 |
| 60455 | 'Rxyt1' | 0.09 | 2.43 | 1.62 | 0 | 2.41 | 0.45 | 0 | 2.47 | 1.77 | 3.12 |
| 60507 | 'Qtrt1' | 19.81 | 18.76 | 16.2 | 28.4 | 36.3 | 45.89 | 20.3 | 18.14 | 9.92 | 19.18 |
| 60510 | 'Syt9' | 2.12 | 2.3 | 0.91 | 8.16 | 1.25 | 6.57 | 4.47 | 0.25 | 5.39 | 1.25 |
| 60525 | 'Acss2' | 19.14 | 16.1 | 15.5 | 3.68 | 16.5 | 29.79 | 23.8 | 16.29 | 11.95 | 15.17 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 60527 | 'Fads3' | 8.2 | 4.53 | 4.71 | 5.53 | 0.54 | 6.57 | 5.48 | 8.83 | 12.34 | 2.37 |
| 60530 | 'Fignl1' | 0 | 0.98 | 0 | 0 | 2.34 | 0.35 | 0 | 0 | 0.27 | 0 |
| 60532 | 'Wtap' | 36.35 | 34.73 | 30.4 | 59.8 | 50.3 | 29 | 27.2 | 40.47 | 60.36 | 55.12 |
| 60533 | 'Cd274' | 1.9 | 3.65 | 0 | 1.33 | 3.34 | 1.09 | 0.01 | 0.01 | 3.52 | 5.03 |
| 60534 | 'Fancg' | 0.6 | 1.96 | 8.9 | 0 | 3.5 | 5.7 | 12 | 5.78 | 0.04 | 6.94 |
| 60594 | 'Capn12' | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0.06 | 0 | 0.99 |
| 60595 | 'Actn4' | 16.64 | 22.17 | 20 | 1.65 | 18.7 | 12.35 | 5.91 | 23.22 | 27.93 | 15.96 |
| 60596 | 'Gucy1a1' | 5.81 | 8.54 | 8.71 | 0 | 8.57 | 11.19 | 20.1 | 7.34 | 15.72 | 7.54 |
| 60597 | 'Mapk8ip2' | 43.41 | 45.4 | 78.1 | 32.3 | 30.7 | 27.95 | 31.5 | 42.6 | 34.84 | 37.46 |
| 60599 | 'Trp53inp1' | 1.48 | 0 | 2.72 | 2.07 | 0.07 | 0.01 | 0.02 | 0.04 | 1.2 | 0.01 |
| 60611 | 'Foxj2' | 0.01 | 0.52 | 0.01 | 7.82 | 0.02 | 0 | 0.33 | 0.37 | 0.65 | 1.97 |
| 60613 | 'Kcnq4' | 1.98 | 1.05 | 0 | 0 | 0.32 | 2.57 | 4.77 | 5.45 | 3.07 | 0.72 |
| 606496 | 'Gsk3a' | 1.94 | 1.29 | 4.24 | 5.62 | 3.29 | 1.14 | 2.73 | 1.09 | 4.1 | 1.18 |
| 619287 | 'Rtl4' | 0.76 | 1.45 | 1.05 | 3.71 | 7.42 | 2.98 | 2.46 | 1.22 | 4.71 | 8.41 |
| 619297 | 'Ccdc194' | 0 | 0.01 | 0 | 0.01 | 0.02 | 0.02 | 0 | 0.01 | 0 | 0 |
| 619301 | 'Tmem253' | 1.78 | 0 | 0.77 | 0 | 0 | 0 | 1.23 | 0 | 0 | 0 |
| 619326 | '9130409I23Rik' | 0 | 0 | 0 | 1.93 | 0 | 0 | 0 | 0 | 0 | 0 |
| 619329 | 'F420015M19Rik' | 0.03 | 0.2 | 0.03 | 0.14 | 0.11 | 1.2 | 0.11 | 0.12 | 0.27 | 0.06 |
| 619331 | 'Zfp551' | 0.08 | 0.29 | 3.6 | 0.19 | 8.89 | 6.9 | 0.04 | 2.72 | 11.22 | 5.05 |
| 619332 | '4933416C03Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 2.28 | 0 | 0 | 0 |
| 619441 | 'Tnfsfm13' | 0 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 2.61 | 0 |
| 619547 | 'Rpl34-ps1' | 0.27 | 0.48 | 0.52 | 0.97 | 0.17 | 0.66 | 0.35 | 2.04 | 1.07 | 0.3 |
| 619597 | 'Gal3st2c' | 0 | 0.18 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 619605 | 'Zcchc17' | 143.4 | 133.4 | 97.5 | 123 | 131 | 190.9 | 108 | 148 | 210.7 | 191 |
| 619883 | 'Gm6109' | 0 | 0 | 0 | 0.14 | 0 | 0.22 | 0.43 | 0 | 0 | 0 |
| 620078 | 'C130026I21Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 620235 | 'Siglec15' | 0 | 0.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 620246 | 'Gpr52' | 1.6 | 4.69 | 0.27 | 0 | 0.88 | 2.55 | 3.75 | 1.88 | 2.35 | 2.65 |
| 620292 | 'Cntnap5c' | 0.81 | 1.7 | 6.93 | 11.4 | 3.31 | 8.38 | 31.9 | 6.83 | 28.69 | 20.89 |
| 620419 | 'Zfp963' | 2.22 | 7.55 | 2.63 | 0 | 0 | 0 | 4.95 | 5.34 | 4.59 | 5.51 |
| 620592 | 'Tmem28' | 0 | 1.93 | 4.86 | 0 | 1.48 | 0 | 0.43 | 1.24 | 1.6 | 0 |
| 620631 | 'Ttc30a2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 620695 | 'Gm13889' | 7.64 | 5.09 | 6.84 | 9.57 | 1.52 | 0.72 | 2.73 | 1.4 | 3.26 | 0 |
| 620807 | 'Mup6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.14 | 0 | 0 |
| 620913 | 'Gm12185' | 0.03 | 0.11 | 0.06 | 0.03 | 0.14 | 0.02 | 0.05 | 0.04 | 0.1 | 0.02 |
| 621080 | 'Al429214' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 621407 | 'Gm9970' | 0.04 | 0 | 0 | 0 | 0 | 0 | 0.99 | 0.18 | 0 | 0.35 |
| 621561 | 'Vmn1r127' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 621580 | 'Gm21953' | 0 | 0 | 0.27 | 2.48 | 0.2 | 0 | 0 | 0 | 0.29 | 1.68 |
| 621603 | 'Aldh3b2' | 4.05 | 12.92 | 1.09 | 6.48 | 25.8 | 37.32 | 7.36 | 11.52 | 9.22 | 4.96 |
| 621697 | 'Rpl32l' | 0 | 0.18 | 0 | 0 | 0 | 0 | 0.46 | 0.22 | 0 | 0.95 |
| 621823 | 'Psme2b' | 0.91 | 0.35 | 0.78 | 2.79 | 1.27 | 2.95 | 1.41 | 0.29 | 1.23 | 0.59 |
| 621893 | 'Hist2h2ab' | 0 | 1.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 621976 | 'Tmem170b' | 8.01 | 6.42 | 3.99 | 2.14 | 7.41 | 1.89 | 6.9 | 8.79 | 7.96 | 8.7 |
| 622282 | 'Gm6306' | 0 | 0 | 0 | 0 | 0.24 | 1.53 | 0 | 0 | 0 | 0.08 |
| 622307 | '5830473C10Rik' | 1.51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 622320 | 'Kctd21' | 3.43 | 1.68 | 0 | 0 | 0 | 0 | 0 | 3.74 | 0 | 0 |
| 622402 | 'Akr1c12' | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 622404 | 'Ccdc107' | 75.81 | 65.32 | 76.6 | 168 | 123 | 149.8 | 87.2 | 107.2 | 132.4 | 82.67 |
| 622408 | 'Mcidas' | 0 | 0 | 0 | 0 | 1.21 | 0 | 0 | 0 | 0 | 0 |
| 622434 | 'Arhgef26' | 3.92 | 6.22 | 3.57 | 4.27 | 0.01 | 0.02 | 1.33 | 0.68 | 0 | 0 |
| 622474 | 'Smok3b' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 622480 | 'Spocd1' | 0 | 0 | 0.12 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0.01 |
| 622486 | 'Smok3c' | 0.01 | 0 | 0.11 | 0.1 | 0.26 | 0 | 0 | 0 | 0 | 0 |
| 622554 | 'Majin' | 0 | 0 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 622640 | 'Gm6337' | 0 | 0 | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 |
| 622645 | 'Tmem200c' | 1.41 | 0 | 0 | 0 | 0 | 0.06 | 0.51 | 0.55 | 0.03 | 0 |
| 622665 | 'Ccdc17' | 2 | 1.25 | 0.26 | 0 | 8.22 | 14.91 | 1.15 | 3.99 | 0.49 | 1.81 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 628518 | 'Gm6890' | 0 | 0 | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 |
| 628779 | 'Hs3st4' | 5.23 | 0.31 | 1.51 | 7.79 | 2.27 | 0.03 | 0.07 | 1.12 | 0 | 0.31 |
| 628813 | 'Gm11437' | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0 | 0.07 |
| 628870 | 'Otogl' | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.43 |
| 628900 | 'Serpina3i' | 0 | 0 | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 628946 | 'Vmn1r77' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 629016 | 'Zfp953' | 0 | 0 | 0 | 0 | 0.32 | 0 | 0 | 0 | 0 | 0 |
| 629055 | 'Gm6943' | 0.06 | 0 | 0.1 | 0.03 | 0.08 | 0 | 0 | 0.03 | 0 | 0 |
| 629059 | 'Fam124a' | 12.83 | 6.39 | 7.01 | 10.1 | 5.56 | 2.58 | 6.86 | 9.19 | 8.14 | 4.49 |
| 629114 | 'Defb23' | 0 | 0 | 0 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 629147 | 'Ctxn3' | 6.99 | 0 | 16.2 | 25.6 | 0 | 5.72 | 0 | 1.41 | 9.32 | 1.67 |
| 629242 | 'Gm6958' | 0.3 | 1.25 | 2.14 | 0.37 | 0.3 | 1.79 | 0.58 | 0.45 | 0.66 | 0.28 |
| 629303 | 'Heatr9' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 629378 | 'Dact3' | 2.9 | 0.19 | 0.02 | 0.06 | 1.74 | 1.6 | 1.26 | 1.11 | 1.44 | 0.22 |
| 629499 | 'Mroh8' | 0.03 | 0 | 0.16 | 0 | 0.12 | 0 | 1.27 | 0 | 0 | 0 |
| 629756 | 'Wfdc10' | 0 | 1.76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 630294 | 'Gm7030' | 0 | 0 | 0 | 0 | 0.06 | 0.01 | 0 | 0.02 | 0 | 0.07 |
| 630579 | 'Zfp808' | 0.02 | 0.11 | 0.09 | 1.37 | 2.56 | 0.04 | 0.09 | 0.59 | 1.04 | 1.03 |
| 630751 | 'LOC630751' | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 |
| 630836 | '2010315B03Rik' | 5.49 | 6.87 | 5.05 | 11.3 | 11.2 | 4.72 | 7.08 | 6.8 | 3.32 | 8.94 |
| 631145 | 'Fam90a1b' | 0.18 | 0.38 | 0.45 | 0.68 | 0 | 0 | 0 | 0.43 | 0.34 | 0.09 |
| 631323 | 'Gm12250' | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 631584 | 'Catspere1' | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 |
| 631797 | 'Fer1l6' | 0 | 1.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 631990 | 'Cdr1' | 4.54 | 1.64 | 4.08 | 0.47 | 10.2 | 3.56 | 4.29 | 0.67 | 3.64 | 2.83 |
| 632126 | 'Btl4' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 |
| 632687 | 'March10' | 2.27 | 0.15 | 0 | 0 | 0 | 0.01 | 0.04 | 0 | 0.17 | 0 |
| 632778 | 'Erich4' | 0 | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 |
| 633057 | 'Gm7102' | 0.23 | 0.87 | 1.11 | 2.68 | 0.6 | 1.21 | 0.27 | 0.27 | 0.56 | 0.27 |
| 633285 | 'Rbm46' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 |
| 633640 | 'Tmem267' | 0.05 | 3.04 | 2.95 | 0.13 | 2.49 | 6.57 | 2.5 | 5.77 | 9.25 | 15.69 |
| 633979 | 'Ak9' | 0.26 | 0 | 0 | 0 | 0 | 0.25 | 0.07 | 0.13 | 0 | 0 |
| 634104 | 'Olfr287' | 0.27 | 1.99 | 0.26 | 0 | 0 | 0 | 0 | 3.91 | 0 | 0 |
| 634731 | 'Susd1' | 0.18 | 0.03 | 1.08 | 0.07 | 1.04 | 0.04 | 0.01 | 0 | 0.54 | 0.08 |
| 635169 | 'CK137956' | 0 | 4.48 | 0.02 | 0 | 3.65 | 2.09 | 10.5 | 0 | 0 | 4.37 |
| 635253 | 'Usp51' | 7.62 | 4.76 | 3.24 | 18.4 | 5.74 | 0.89 | 0.65 | 4.12 | 2 | 6.86 |
| 635668 | 'Fbxw23' | 0.02 | 0 | 0.03 | 0.1 | 0.08 | 0 | 0 | 0.05 | 0.02 | 0 |
| 635702 | 'Naaladl2' | 0.27 | 0.83 | 0.01 | 0 | 0.35 | 0 | 0.04 | 0 | 0 | 0 |
| 636104 | 'Gm7173' | 0 | 0 | 0 | 0 | 1.38 | 0 | 2.77 | 2.55 | 1.35 | 0.33 |
| 636741 | 'Zfp964' | 1.64 | 0.36 | 0.37 | 0.08 | 0.14 | 0.35 | 3.6 | 0.2 | 0.31 | 0.31 |
| 636808 | 'Cntnap5a' | 2.28 | 1.54 | 1.75 | 0.78 | 3.09 | 1.01 | 5.9 | 1.05 | 2.85 | 0.37 |
| 636931 | 'Trim71' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.54 | 0 |
| 637004 | 'Vmn2r3' | 0 | 0.31 | 0.32 | 0 | 0 | 0.49 | 0 | 0 | 0 | 0 |
| 637053 | 'Vmn2r4' | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 637079 | 'lqcn' | 0 | 0.52 | 0.51 | 1.79 | 0 | 1.54 | 0 | 0.38 | 0 | 0.71 |
| 637277 | 'Sycp2l' | 0 | 0.19 | 0.02 | 0 | 0 | 0 | 0 | 1.06 | 0 | 0 |
| 637515 | 'Nlrp1b' | 0.89 | 0.95 | 1.21 | 2.3 | 2.08 | 1.49 | 1.11 | 0.48 | 0.89 | 1.05 |
| 637896 | 'Vmn2r78' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.28 |
| 638102 | 'Vmn2r115' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 638262 | 'Gm7233' | 0 | 0 | 0 | 0.68 | 0.84 | 0 | 0 | 0 | 0 | 0 |
| 63828 | 'Fn3k' | 19.1 | 50.16 | 47.4 | 25.9 | 40.3 | 50.79 | 24.3 | 44.36 | 30.41 | 33.86 |
| 63856 | 'Taf8' | 8.38 | 17.18 | 7.86 | 6.65 | 8.25 | 2.08 | 0.02 | 9.5 | 17 | 12.01 |
| 63857 | 'Bco1' | 0 | 0.04 | 0 | 0.37 | 0 | 0 | 0.02 | 2.21 | 0 | 0.55 |
| 638580 | 'Gm7244' | 0 | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63859 | 'Impg1' | 0 | 1.76 | 0 | 0 | 1.22 | 0 | 0 | 0.42 | 0 | 0 |
| 63872 | 'Zfp296' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.73 |
| 63873 | 'Trpv4' | 0 | 0.1 | 0 | 1.04 | 0 | 0.29 | 0 | 0 | 0 | 0 |
| 63913 | 'Fam129a' | 0 | 0 | 0 | 0 | 0 | 0.36 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | |
|--------|-----------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 63953 | 'Dusp10' | 1.93 | 6.12 | 12.1 | 4.5 | 3.05 | 0.23 | 7.37 | 6.69 | 4.22 | 1.87 |
| 63954 | 'Rbp7' | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63955 | 'Cables1' | 0.12 | 1.12 | 2.26 | 6.69 | 1.12 | 2.97 | 6.31 | 0 | 3.13 | 0.46 |
| 63958 | 'Ube4b' | 8.53 | 11.92 | 19.8 | 10.2 | 9.48 | 4.87 | 12.8 | 6.18 | 11.49 | 4.89 |
| 63959 | 'Slc29a1' | 31.67 | 34.33 | 47.4 | 16.8 | 39.5 | 35.08 | 94.8 | 10.38 | 56.11 | 52.43 |
| 639774 | 'Skint8' | 1.49 | 1.31 | 1.82 | 3.19 | 1.9 | 1.39 | 2.03 | 0.66 | 2.05 | 1.33 |
| 63985 | 'Gmfb' | 46.16 | 41.26 | 35.7 | 32.7 | 36.2 | 22.52 | 43 | 48.1 | 37.83 | 49.21 |
| 63986 | 'Gmfg' | 0 | 0.02 | 0 | 0 | 2.28 | 0 | 0 | 0 | 0 | 2.35 |
| 639910 | 'Gm20767' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63993 | 'Slc5a7' | 0.19 | 0 | 0 | 0 | 0.19 | 0 | 0 | 1.23 | 0.3 | 0 |
| 64008 | 'Aqp9' | 0 | 0 | 0 | 0 | 0 | 0 | 3.68 | 0 | 0 | 0 |
| 64009 | 'Syne1' | 13.32 | 17.67 | 9.46 | 32.2 | 17.8 | 22.23 | 23.5 | 18.52 | 51.25 | 46.4 |
| 64010 | 'Sav1' | 0.4 | 0 | 0 | 0.07 | 0.16 | 0.07 | 0.04 | 0.13 | 0 | 0 |
| 64011 | 'Nrgn' | 14.66 | 6.03 | 2.2 | 0.5 | 38.1 | 6.86 | 1.9 | 28.69 | 12.86 | 2.06 |
| 64050 | 'Yeats4' | 13.69 | 31.88 | 24.6 | 34.6 | 17.8 | 20.07 | 6.28 | 17.19 | 15.56 | 15.46 |
| 64051 | 'Sv2a' | 105.8 | 77.84 | 136 | 31.8 | 95.2 | 63.8 | 93.4 | 104.6 | 116.8 | 100.25 |
| 640524 | 'Sptbn5' | 0 | 0 | 0.58 | 0 | 0.54 | 1.32 | 0 | 0.19 | 0.21 | 0.33 |
| 640543 | 'Tgm7' | 0.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 64058 | 'Perp' | 3.12 | 0.96 | 4.85 | 0 | 0 | 2.14 | 0 | 0 | 3.83 | 1.26 |
| 64059 | 'Oxct2a' | 0.17 | 0.17 | 0 | 0 | 0.14 | 0.1 | 0.12 | 0.04 | 0.03 | 0.22 |
| 64074 | 'Smoc2' | 2.79 | 0 | 21.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64075 | 'Smoc1' | 21.85 | 42.68 | 25.5 | 1.83 | 22.3 | 3.85 | 14.7 | 5.73 | 9.74 | 14.71 |
| 64082 | 'Popdc2' | 0.04 | 0 | 0.18 | 0.06 | 0.11 | 0.04 | 0.02 | 0 | 0.06 | 0 |
| 64085 | 'Clstn2' | 2.45 | 1 | 7.87 | 4.89 | 1.67 | 2.75 | 1.28 | 8.65 | 2.68 | 3.17 |
| 64095 | 'Gpr35' | 0 | 0.65 | 2.25 | 1.95 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 64103 | 'Tnmd' | 2 | 0 | 3.22 | 0 | 0 | 2.46 | 0 | 1.51 | 0 | 1.64 |
| 64113 | 'Moap1' | 32.65 | 17.85 | 35.3 | 18.9 | 25.9 | 33.75 | 38.9 | 42.58 | 23.22 | 25.78 |
| 641340 | 'Nrbf2' | 17.65 | 21.93 | 25.7 | 28.4 | 15.6 | 16.9 | 33.8 | 27.6 | 32.24 | 13.07 |
| 64136 | 'Sdf2l1' | 72.77 | 76.01 | 36.3 | 17.1 | 29.3 | 65.29 | 19.9 | 38.42 | 131.5 | 26.4 |
| 641361 | 'Pinlyp' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.93 |
| 641376 | 'Tomm40l' | 26.53 | 18.6 | 25 | 8.91 | 24.5 | 44.42 | 43 | 18.62 | 16.77 | 21.51 |
| 64138 | 'Ctsz' | 81.76 | 53.14 | 103 | 99.7 | 40.1 | 293.5 | 58.8 | 112.9 | 156.2 | 270.16 |
| 64143 | 'Ralb' | 6.15 | 9.57 | 10.1 | 14.5 | 11.9 | 0 | 9.99 | 5.62 | 1.52 | 2.61 |
| 64144 | 'MlIt1' | 1.71 | 3.67 | 2.15 | 0 | 0 | 0 | 6.61 | 3.69 | 0 | 3.48 |
| 64176 | 'Sv2b' | 6.08 | 3.24 | 9.73 | 0.66 | 2.5 | 1.35 | 4.15 | 15.31 | 4.76 | 11.22 |
| 64177 | 'Trpv6' | 0 | 0 | 0 | 0 | 0 | 0 | 0.41 | 0.01 | 0 | 0.13 |
| 64209 | 'Herpud1' | 137.8 | 174.6 | 92.3 | 180 | 93 | 78.66 | 153 | 160.2 | 111.1 | 145.49 |
| 64213 | 'St7' | 26.97 | 27.9 | 12.8 | 11.2 | 12.4 | 20.87 | 22.1 | 24.18 | 9.13 | 21.75 |
| 64242 | 'Ngb' | 401.4 | 520.9 | 170 | 342 | 304 | 561.2 | 293 | 259.2 | 222 | 439.14 |
| 64290 | 'Foxb1' | 1.74 | 0.06 | 0 | 0 | 0.82 | 0 | 0 | 0.32 | 0 | 0 |
| 64291 | 'Osbp1a' | 23.65 | 17.84 | 41.8 | 15.6 | 29.9 | 27.41 | 18.5 | 11.12 | 10.88 | 11.01 |
| 64292 | 'Ptges' | 1.75 | 3.39 | 1.57 | 0 | 0 | 2.6 | 1.08 | 0.69 | 0 | 5.21 |
| 64293 | 'Stk32b' | 0 | 4.25 | 0.9 | 0 | 3.66 | 3.6 | 0 | 1.91 | 0.01 | 1.42 |
| 64294 | 'ltn2c' | 2090 | 2130 | 1429 | 1524 | 1504 | 1766 | 1195 | 1898 | 1455 | 2095.34 |
| 64295 | 'Tmub1' | 43.99 | 27.18 | 29.7 | 24.8 | 62 | 53.97 | 31.2 | 41.05 | 73.34 | 76.8 |
| 64296 | 'Abhd8' | 185.2 | 197.6 | 186 | 147 | 167 | 177.9 | 163 | 142.8 | 165.3 | 100.12 |
| 64297 | 'Gprc5b' | 2.19 | 4.29 | 11.3 | 5.54 | 5.81 | 5.73 | 1.49 | 1.03 | 7.68 | 1.41 |
| 64337 | 'Gng13' | 7.81 | 14.98 | 47.1 | 43.1 | 11.2 | 13.91 | 2.55 | 20.52 | 40.43 | 0.24 |
| 64339 | 'Fndc4' | 23 | 5.47 | 11.5 | 15 | 26.6 | 15.59 | 15 | 18.71 | 37.92 | 1.71 |
| 64340 | 'Dhx38' | 2.74 | 7.29 | 8 | 7.54 | 4.65 | 3.59 | 3.92 | 8.57 | 0.07 | 16.48 |
| 64378 | 'Gpr88' | 0 | 0.04 | 0 | 13.4 | 0 | 1.59 | 0.01 | 0.31 | 0.49 | 0.02 |
| 64383 | 'Sirt2' | 60.68 | 101 | 92.9 | 60 | 100 | 82.25 | 77.8 | 57.22 | 80.58 | 82.62 |
| 64384 | 'Sirt3' | 50.06 | 46.38 | 99.7 | 53 | 46.9 | 76.34 | 50.1 | 65.64 | 48.57 | 73.85 |
| 64385 | 'Cyp4f14' | 1.44 | 7.09 | 0 | 0 | 0 | 0 | 0 | 2.04 | 2.25 | 0 |
| 64424 | 'Polr1e' | 2.22 | 7.69 | 6.49 | 4.56 | 4.43 | 4.87 | 7.26 | 5.2 | 3.32 | 5.72 |
| 64436 | 'Inpp5e' | 6.14 | 9.5 | 10.9 | 12.1 | 10.6 | 4.47 | 11.7 | 13 | 10.17 | 2.27 |
| 64450 | 'Gpr85' | 35.2 | 22.13 | 43.3 | 37 | 41.8 | 9.88 | 28.2 | 31.21 | 34.01 | 32.56 |
| 64451 | 'Dip2a' | 0.22 | 1.07 | 0.99 | 0.2 | 1.11 | 1.29 | 2.45 | 1.98 | 5.03 | 1.89 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 64453 | 'Zfp280b' | 4.53 | 3.63 | 10.5 | 4 | 5.45 | 5.26 | 6.07 | 10.7 | 12.31 | 3.71 |
| 64540 | 'Tspan4' | 12.13 | 8.87 | 34.8 | 9.48 | 32.1 | 41.91 | 22.6 | 29.15 | 8.72 | 0 |
| 64580 | 'Ndst4' | 6.75 | 1.52 | 6.72 | 4.49 | 3.86 | 34.13 | 1.01 | 1.05 | 2.01 | 3.59 |
| 64602 | 'Ireb2' | 4.01 | 4.09 | 3.76 | 10.8 | 4.94 | 2.02 | 3.5 | 4.18 | 5.36 | 3.2 |
| 64652 | 'Nisch' | 68.22 | 63.88 | 106 | 37 | 44.6 | 25.1 | 82.5 | 48.07 | 44.36 | 54.35 |
| 64654 | 'Fgf23' | 1.02 | 0.73 | 0.62 | 0 | 0.27 | 0 | 0.02 | 1.43 | 3.95 | 0 |
| 64655 | 'Mrps22' | 32.34 | 46.17 | 40.9 | 47.4 | 21.4 | 50.51 | 31.9 | 38.79 | 19.91 | 38.44 |
| 64656 | 'Mrps23' | 36.51 | 31.33 | 60 | 41.1 | 40.9 | 59.16 | 26.8 | 53.54 | 46.97 | 26.75 |
| 64657 | 'Mrps10' | 57.22 | 68.77 | 74.4 | 101 | 107 | 141.5 | 48.2 | 78.83 | 98.18 | 104.12 |
| 64658 | 'Mrps25' | 12.52 | 14.12 | 17.1 | 12.4 | 12.4 | 20.97 | 17.2 | 16.93 | 8.62 | 10.93 |
| 64659 | 'Mrps14' | 134 | 118.7 | 79 | 85.1 | 160 | 156.4 | 106 | 96.23 | 127.9 | 133.81 |
| 64660 | 'Mrps24' | 73.24 | 84.82 | 83.2 | 73.5 | 60.3 | 82.68 | 97.7 | 78.04 | 62.28 | 61.36 |
| 64685 | 'Nmi' | 0.54 | 2.6 | 11.2 | 14.2 | 3.81 | 6.04 | 4.68 | 0 | 3.62 | 3.82 |
| 64704 | 'Htra2' | 41.77 | 35.81 | 45.5 | 16.2 | 37.1 | 47.27 | 37.4 | 45.91 | 44.89 | 48.23 |
| 64705 | 'Dpys' | 0 | 0 | 0 | 0 | 0.91 | 0 | 2.25 | 0 | 0.09 | 0 |
| 64706 | 'Scube1' | 1.27 | 0.58 | 2.21 | 0 | 0.69 | 0.35 | 0.98 | 0.01 | 0 | 0.01 |
| 64707 | 'Suv39h2' | 0.01 | 0.12 | 0 | 0 | 0.1 | 0 | 0 | 0 | 1.37 | 0 |
| 64833 | 'Acot10' | 0 | 0.03 | 1.65 | 0 | 0.03 | 4.91 | 0 | 0.48 | 0 | 0 |
| 64898 | 'Lpin2' | 11.99 | 11.96 | 17.8 | 9.75 | 7.68 | 11.79 | 12.3 | 10.43 | 7.64 | 10.68 |
| 64899 | 'Lpin3' | 0 | 0 | 0 | 0 | 0 | 2.36 | 0 | 0 | 2.51 | 1.03 |
| 64930 | 'Tsc1' | 6.78 | 5.88 | 6.17 | 8.6 | 3.5 | 2.94 | 4.03 | 3.34 | 4.01 | 4.75 |
| 64933 | 'Ap3m2' | 33.82 | 49.27 | 55.8 | 57.7 | 50.1 | 35 | 28.2 | 54.09 | 61.21 | 50.34 |
| 64934 | 'Pes1' | 14.73 | 19.78 | 30.3 | 7.18 | 14.2 | 23.08 | 36 | 23.68 | 19.98 | 23.57 |
| 64945 | 'Cldn12' | 8 | 3.76 | 13.2 | 14.2 | 14 | 0.01 | 3.11 | 1.27 | 12.15 | 8.61 |
| 65019 | 'Rpl23' | 78.05 | 84.98 | 68.9 | 100 | 76.4 | 100.4 | 75 | 62.27 | 97.7 | 79.51 |
| 65020 | 'Zfp110' | 0 | 2.93 | 8.06 | 1.28 | 5.01 | 4.4 | 0.68 | 5.32 | 1.05 | 0.72 |
| 65079 | 'Rtn4r' | 0 | 1.39 | 0.57 | 0 | 3.88 | 0 | 6.54 | 0.02 | 0 | 0 |
| 65086 | 'Lpar3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.09 | 0 | 0 |
| 65098 | 'Zfand6' | 30.72 | 49.06 | 17.8 | 48.1 | 64.8 | 44.56 | 57.5 | 23.65 | 73.99 | 38.26 |
| 65099 | 'Irak1bp1' | 19.06 | 11.64 | 13.1 | 27.2 | 15.5 | 15.64 | 8.11 | 8.63 | 17.78 | 7.16 |
| 65100 | 'Zic5' | 0.63 | 1.06 | 0 | 0 | 3.19 | 2.25 | 6.26 | 0 | 1.77 | 5.74 |
| 65102 | 'Nif311' | 26.44 | 21.7 | 29.6 | 20 | 43.3 | 49.21 | 53.4 | 33.39 | 40.45 | 26.36 |
| 65103 | 'Arl6ip6' | 8.23 | 2.02 | 0.88 | 2.64 | 6.16 | 3.84 | 0 | 2.08 | 0 | 6.48 |
| 65105 | 'Arl6ip4' | 71.18 | 68.02 | 48.2 | 49.2 | 106 | 35.77 | 70.8 | 62.85 | 78.51 | 43.5 |
| 65106 | 'Arl6ip5' | 318.2 | 256 | 149 | 148 | 239 | 307.3 | 226 | 353.3 | 300.4 | 310.87 |
| 65107 | 'Lrp10' | 4.27 | 4.45 | 3.04 | 11.6 | 1.87 | 4.29 | 0 | 3.01 | 15.06 | 1.06 |
| 65111 | 'Dap3' | 55.05 | 81.31 | 62.5 | 54.1 | 66.7 | 97.29 | 76.8 | 54.35 | 70 | 58.55 |
| 65112 | 'Pmepa1' | 1.86 | 1.93 | 1.36 | 6.69 | 1.36 | 2.4 | 0.11 | 1.95 | 0.88 | 0.08 |
| 65113 | 'Ndfip1' | 1757 | 1885 | 1404 | 1623 | 1259 | 2009 | 1610 | 2052 | 1981 | 2021.29 |
| 65114 | 'Vps35' | 114.3 | 96.37 | 81.8 | 53.9 | 50.3 | 46.06 | 111 | 92.75 | 90.53 | 111.63 |
| 65115 | 'Bean1' | 3.27 | 0.42 | 1.64 | 0.02 | 12.1 | 0.02 | 6.54 | 1.06 | 1.25 | 0 |
| 65116 | 'Prrg2' | 0.98 | 14.29 | 1.58 | 1.34 | 35.2 | 2.61 | 4.78 | 2.9 | 4.06 | 7.58 |
| 65221 | 'Slc15a3' | 0 | 1.1 | 0 | 0.27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65246 | 'Xpo7' | 3.75 | 6.49 | 3.64 | 4.76 | 5.97 | 1.56 | 11.2 | 4.71 | 7.33 | 5.83 |
| 65247 | 'Asb1' | 1.7 | 3.43 | 3.11 | 0.75 | 1.98 | 0 | 2.42 | 1.72 | 2.98 | 0.95 |
| 65254 | 'Dpysl5' | 12.79 | 15.43 | 5.22 | 0.71 | 2.56 | 2.69 | 13.2 | 12.62 | 11.85 | 19.92 |
| 65255 | 'Asb4' | 32.71 | 36.17 | 9.93 | 43.2 | 0.3 | 47.39 | 5.74 | 10.3 | 51.88 | 48.59 |
| 65256 | 'Asb2' | 0.06 | 1.06 | 0.14 | 0 | 2.29 | 2.52 | 0.04 | 0.01 | 3.37 | 1.45 |
| 65257 | 'Asb3' | 21.92 | 16.63 | 17.7 | 13.9 | 13.4 | 18.9 | 14 | 17.44 | 35.58 | 10.87 |
| 652925 | 'Tmem243' | 0.14 | 0 | 0.05 | 0 | 1.39 | 0 | 0.05 | 0.72 | 0 | 0 |
| 654309 | 'Nrp' | 5.92 | 8.29 | 5.93 | 13.3 | 5.45 | 4.26 | 6.8 | 2.46 | 2.3 | 4.28 |
| 654459 | 'Defb25' | 8.2 | 1.21 | 1.83 | 0 | 3.51 | 0 | 0 | 4.13 | 1.12 | 3.13 |
| 654462 | 'Kncn' | 0 | 0 | 0.73 | 0 | 0 | 0 | 0 | 1.65 | 0 | 0.62 |
| 654470 | 'Tctn1' | 9.85 | 9.21 | 7.4 | 2.73 | 6.91 | 2.9 | 0.06 | 9.86 | 7.87 | 15.77 |
| 654795 | 'Sdr39u1' | 124.6 | 111.1 | 96.2 | 185 | 124 | 218.9 | 172 | 138.3 | 118.9 | 121.81 |
| 654801 | 'Zfp784' | 0.23 | 3.78 | 7.35 | 0 | 10.2 | 4.19 | 0.02 | 4.24 | 15.19 | 3.63 |
| 654812 | 'Angptl7' | 0.28 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 |
| 654818 | 'Smco3' | 6.79 | 6.02 | 0 | 0 | 5.24 | 2.96 | 0 | 0 | 0 | 0.96 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 654821 | 'Gcnt7' | 0 | 0 | 0 | 0 | 0.02 | 2.46 | 4.59 | 0 | 0.29 | 0.02 |
| 654824 | 'Ankrd37' | 24.39 | 15.04 | 8.66 | 1.19 | 30.2 | 35.44 | 8.72 | 9.62 | 12.35 | 7.41 |
| 65945 | 'Clstn1' | 25.14 | 26.43 | 53.2 | 45.1 | 37.6 | 32.59 | 37.6 | 20.59 | 31.66 | 29.75 |
| 65960 | 'Twsg1' | 5.98 | 4.71 | 5.22 | 15.5 | 4.48 | 0 | 0.26 | 2.12 | 6.37 | 1.74 |
| 65961 | 'Utp3' | 41.28 | 23.42 | 29.4 | 19.7 | 38.6 | 49.17 | 20.1 | 42.1 | 19.99 | 20.13 |
| 65962 | 'Slc9a3r2' | 23.75 | 17.03 | 40.6 | 11.5 | 56.4 | 17.18 | 22.1 | 18.54 | 32.72 | 9.57 |
| 65963 | 'Tmem176b' | 47.58 | 220.7 | 106 | 106 | 114 | 110.4 | 56.5 | 62.32 | 82.98 | 169.4 |
| 65964 | 'Map3k20' | 0.77 | 0.73 | 0.34 | 0.01 | 2.54 | 0 | 0 | 0.11 | 0.02 | 0.07 |
| 65967 | 'Eefsec' | 20.62 | 22.2 | 10.7 | 30.1 | 27.2 | 7.26 | 15.3 | 18.71 | 13.14 | 23.49 |
| 65969 | 'Cubn' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.09 | 0.1 |
| 65970 | 'Lima1' | 0 | 1.62 | 0 | 2.48 | 0.09 | 0.13 | 5.83 | 1.4 | 1.36 | 1.36 |
| 65971 | 'Tbata' | 0 | 2.98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65972 | 'Ifi30' | 0 | 5.64 | 2.24 | 1.87 | 0.21 | 0.1 | 8.2 | 2.72 | 0 | 1.22 |
| 65973 | 'Asph' | 42.41 | 74.24 | 25.7 | 18 | 49.7 | 68.54 | 48.6 | 52.43 | 80.38 | 74.05 |
| 66011 | 'Ranbp17' | 0.51 | 2.03 | 0.1 | 3.6 | 1.03 | 0.02 | 1.49 | 0.69 | 2.17 | 0.36 |
| 66039 | 'Tmem254a' | 2.57 | 3.08 | 4.19 | 0.08 | 6.28 | 0 | 14.3 | 6.7 | 17.98 | 5.55 |
| 66042 | 'Sostdc1' | 2.31 | 0 | 16.1 | 0 | 0 | 6.12 | 0 | 0.46 | 0 | 0.32 |
| 66043 | 'Atp5d' | 337 | 387.9 | 316 | 343 | 348 | 548.8 | 503 | 397.1 | 349.4 | 413.81 |
| 66044 | 'Dtd1' | 167.9 | 156.6 | 202 | 192 | 270 | 203.4 | 262 | 238.7 | 150 | 166.47 |
| 66046 | 'Ndufb5' | 312.9 | 349.2 | 377 | 289 | 314 | 350.8 | 336 | 346.6 | 304.8 | 345.12 |
| 66047 | 'Mrpl54' | 127.4 | 111.7 | 125 | 130 | 131 | 182.3 | 134 | 106.1 | 127.5 | 120.67 |
| 66048 | 'Emc6' | 90.34 | 79.66 | 71.4 | 135 | 54.6 | 71.89 | 79.7 | 94.17 | 60.16 | 77.64 |
| 66049 | 'Rogdi' | 425.3 | 425.9 | 417 | 438 | 515 | 458.7 | 384 | 434.5 | 246.2 | 364.43 |
| 66050 | '0610009B22Rik' | 99.49 | 73.88 | 64 | 106 | 70.1 | 79.85 | 61 | 77.56 | 75.64 | 65.86 |
| 66052 | 'Sdhc' | 217.4 | 202 | 208 | 281 | 188 | 357.8 | 290 | 278.6 | 227.1 | 175.36 |
| 66053 | 'Ppil2' | 72.82 | 76.71 | 78.6 | 91 | 90.2 | 89.3 | 67.2 | 80.91 | 67.02 | 75.8 |
| 66054 | 'Cndp2' | 28.2 | 31.99 | 29.8 | 29.6 | 41.2 | 42.57 | 31.6 | 31.2 | 44.9 | 29.6 |
| 66055 | 'Sf3b6' | 62.77 | 73.57 | 120 | 92.8 | 54.6 | 97.2 | 65.3 | 89.58 | 98.68 | 80.68 |
| 66056 | 'Zfp524' | 4.12 | 6.26 | 7.84 | 0 | 6 | 8.37 | 0 | 3.48 | 7.7 | 3 |
| 66058 | 'Tmem176a' | 42.22 | 72.69 | 44.4 | 21.3 | 38.6 | 52.62 | 35.9 | 16.09 | 58.45 | 107.58 |
| 66059 | 'Krtcap2' | 178.1 | 155.4 | 137 | 121 | 129 | 139.4 | 123 | 116.8 | 165.9 | 87.77 |
| 66060 | 'Cystm1' | 72.2 | 78.15 | 51 | 144 | 189 | 119.5 | 79.8 | 57.28 | 76.38 | 146.87 |
| 66061 | 'Tctex1d2' | 49.91 | 47.89 | 24.8 | 36.5 | 46.4 | 69.23 | 40.1 | 32.6 | 70.53 | 43.79 |
| 66066 | 'Gng11' | 10.46 | 1.75 | 10.9 | 12.6 | 13.2 | 7.28 | 12.1 | 4.45 | 6.4 | 2.64 |
| 66067 | 'Gtpbp8' | 16.9 | 17.73 | 15.1 | 13.8 | 19.1 | 16.77 | 12.5 | 25.89 | 21.64 | 16.22 |
| 66069 | 'Snupn' | 14.14 | 18.13 | 11 | 13.4 | 38.1 | 32.34 | 15.3 | 21.21 | 31.86 | 15.83 |
| 66070 | 'Cwc15' | 92.36 | 68.59 | 87.1 | 64.1 | 63.8 | 111.6 | 73.8 | 54.75 | 55.54 | 83.64 |
| 66071 | 'Ethe1' | 51.2 | 71.86 | 44.1 | 81.3 | 14 | 63.08 | 20.3 | 83.09 | 47.93 | 67.21 |
| 66072 | 'Sdhaf2' | 17.85 | 31.38 | 20.7 | 22.4 | 32 | 13.47 | 18.1 | 25.09 | 33.65 | 45.7 |
| 66073 | 'Txndc12' | 24.92 | 58.38 | 35.9 | 66.5 | 17.3 | 101.3 | 63 | 56.88 | 75.02 | 57.92 |
| 66074 | 'Tmem167' | 7.77 | 5.37 | 6.8 | 3.35 | 7.33 | 8.75 | 9.71 | 6.85 | 7.98 | 6.51 |
| 66075 | 'Chchd3' | 54.26 | 29.6 | 47.1 | 33.1 | 48.8 | 50.14 | 36.8 | 45.32 | 37.61 | 50.71 |
| 66077 | 'Aurkaip1' | 97.28 | 114.6 | 123 | 211 | 131 | 169.2 | 145 | 148.9 | 129 | 135.94 |
| 66078 | 'Tsen34' | 76.47 | 106.2 | 160 | 301 | 98.9 | 77.93 | 104 | 76.42 | 83.13 | 20.93 |
| 66079 | 'Tmem42' | 20.32 | 32.75 | 5.94 | 68.3 | 3.99 | 5.03 | 12.2 | 30.97 | 10.13 | 17.54 |
| 66082 | 'Abhd6' | 18.97 | 36.52 | 23.5 | 23.9 | 23.5 | 27.94 | 15.7 | 25.44 | 19.94 | 21.35 |
| 66083 | 'Setd6' | 5.44 | 6.74 | 0.02 | 20.7 | 6.3 | 0.03 | 3.91 | 9.38 | 7.32 | 16.43 |
| 66084 | 'Rmnd1' | 33.69 | 25.77 | 23.6 | 4.51 | 14.2 | 0.79 | 24 | 23 | 13.92 | 13.59 |
| 66085 | 'Eif3f' | 20.57 | 28.18 | 65.4 | 95.5 | 15.8 | 20.25 | 36.6 | 8.81 | 41.88 | 8.77 |
| 66086 | 'Fopnl' | 65.88 | 88.8 | 74 | 60.6 | 83.4 | 96.2 | 101 | 83.03 | 74.93 | 94.9 |
| 66087 | 'Emc3' | 71.13 | 88.11 | 54.8 | 79.8 | 71.6 | 52.47 | 56.1 | 66.58 | 64.09 | 48.01 |
| 66089 | 'Rmnd5b' | 26.51 | 32.2 | 36.8 | 12.2 | 37.3 | 36.55 | 46.3 | 41.98 | 31.13 | 18.29 |
| 66090 | 'Ypel3' | 48.56 | 40.81 | 38.7 | 174 | 54.3 | 82.71 | 62 | 84.03 | 73.16 | 30.08 |
| 66091 | 'Ndufa3' | 320.6 | 372.4 | 521 | 866 | 389 | 842.9 | 375 | 216.2 | 630.1 | 294.58 |
| 66092 | 'Ghitm' | 224.6 | 216 | 213 | 155 | 190 | 225 | 202 | 226 | 195.9 | 209.91 |
| 66094 | 'Lsm7' | 241.4 | 233 | 317 | 434 | 258 | 388.7 | 251 | 233.6 | 364.2 | 234.14 |
| 66096 | 'Lamtor4' | 74.46 | 70.21 | 50.4 | 56.3 | 135 | 117.9 | 77.9 | 80.09 | 69.33 | 108.38 |
| 66098 | 'Chchd6' | 204.2 | 172.8 | 179 | 161 | 206 | 278.1 | 161 | 247.6 | 233.6 | 244.94 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66101 | 'Ppih' | 22.64 | 13.47 | 27.5 | 19.6 | 23.1 | 21.92 | 32.1 | 11.45 | 27.45 | 15.45 |
| 66102 | 'Cxcl16' | 0.07 | 0.67 | 0 | 0 | 0.25 | 4.03 | 0 | 0 | 3.62 | 0 |
| 66104 | 'Tceal6' | 79.1 | 58.89 | 90 | 54.4 | 42 | 45.61 | 78.3 | 58.1 | 80.51 | 33.37 |
| 66105 | 'Ube2d3' | 75.71 | 85.01 | 66.9 | 115 | 61.9 | 41.9 | 92.8 | 74.78 | 77.72 | 62.15 |
| 66106 | 'Smpx' | 0.15 | 0.06 | 0.8 | 0.29 | 0.05 | 0.39 | 0.1 | 0 | 0.08 | 0.33 |
| 66107 | 'Wfdc21' | 0.23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66108 | 'Ndufa9' | 130 | 140.8 | 173 | 134 | 132 | 161.7 | 169 | 193.1 | 162 | 141.9 |
| 66109 | 'Tspan13' | 202.1 | 246.1 | 153 | 194 | 214 | 202.9 | 151 | 192.1 | 257.3 | 278.75 |
| 66111 | 'Tmed3' | 94.91 | 175.4 | 69.5 | 117 | 96.6 | 88.42 | 75.6 | 78.38 | 147 | 138.42 |
| 66112 | 'Marc1' | 0.25 | 0 | 0 | 0 | 0.08 | 0 | 0 | 0 | 0 | 0.1 |
| 66114 | 'Dnajc30' | 62.21 | 89.93 | 52.8 | 56.3 | 96.2 | 119.1 | 85 | 69.27 | 42.37 | 64.47 |
| 66116 | 'Nat8f1' | 38.15 | 13.93 | 27.8 | 33.3 | 38.7 | 37.74 | 43 | 17.32 | 34.46 | 13.45 |
| 66117 | 'Fmc1' | 82.52 | 91.82 | 143 | 87.7 | 103 | 218.6 | 132 | 69.98 | 154.6 | 136.7 |
| 66118 | 'Sarnp' | 121.2 | 129.9 | 91.8 | 176 | 113 | 102.5 | 95 | 130.7 | 110.4 | 143.71 |
| 66119 | 'Tomm6' | 259.6 | 238.9 | 235 | 321 | 276 | 354.1 | 185 | 235.7 | 271.5 | 232.03 |
| 66120 | 'Fkbp11' | 10.82 | 39.39 | 12.4 | 69.3 | 0.17 | 24.61 | 0 | 23.12 | 20.28 | 29.13 |
| 66121 | 'Chchd1' | 193 | 130.5 | 144 | 134 | 213 | 162.7 | 118 | 124.9 | 116.6 | 193.99 |
| 66124 | 'Josd2' | 43.4 | 63.97 | 28.1 | 50.5 | 57.3 | 105 | 63.9 | 19.01 | 31.59 | 49.33 |
| 66125 | 'Sf3b5' | 120.3 | 67.94 | 68 | 195 | 129 | 186.1 | 89.5 | 112.3 | 109.1 | 115.73 |
| 66126 | 'Elof1' | 189.3 | 141.4 | 126 | 81.2 | 188 | 208 | 171 | 185.3 | 182.2 | 204.24 |
| 66128 | 'Mrps36' | 64.85 | 67.79 | 71.7 | 87.8 | 84.6 | 61.6 | 74.9 | 60.4 | 70.56 | 72.95 |
| 66129 | 'Aaed1' | 6.8 | 7.49 | 3.75 | 1.89 | 6.25 | 18.98 | 14.4 | 4.38 | 10.08 | 9.46 |
| 66131 | 'Tipin' | 11.58 | 12.73 | 24.2 | 20.9 | 23.3 | 23.32 | 37.2 | 12.22 | 11.15 | 16.67 |
| 66132 | '1110008L16Rik' | 2.37 | 5.92 | 9.02 | 0 | 5.81 | 4.4 | 13.6 | 6.37 | 0 | 4.87 |
| 66136 | 'Znrd1' | 31.51 | 25.47 | 26.4 | 30.1 | 23.7 | 87.69 | 46 | 26.31 | 19.87 | 30.29 |
| 66138 | 'Bud23' | 71.33 | 37.79 | 54.9 | 33.8 | 52.6 | 87.09 | 81 | 85.95 | 69.34 | 50.69 |
| 66139 | 'Mymk' | 0.04 | 6.56 | 7.19 | 0 | 0 | 0 | 0 | 0 | 0 | 3.95 |
| 66140 | 'Ska2' | 28.41 | 13.59 | 4.9 | 4.22 | 2.71 | 16.34 | 18.5 | 16.2 | 18.39 | 22.19 |
| 66141 | 'Ifitm3' | 4.06 | 0 | 18.2 | 31.5 | 31.2 | 5.98 | 0.08 | 6.02 | 0.65 | 10.84 |
| 66142 | 'Cox7b' | 242.1 | 264.9 | 280 | 208 | 207 | 357.8 | 256 | 192.8 | 204.2 | 191.32 |
| 66143 | 'Eef1e1' | 94.45 | 74.6 | 104 | 105 | 105 | 71.96 | 86.2 | 117.9 | 113.9 | 119.46 |
| 66144 | 'Atp6v1f' | 782.3 | 696.3 | 627 | 832 | 747 | 1086 | 678 | 773.3 | 888.3 | 897.91 |
| 66146 | 'Maco1' | 8.93 | 9.22 | 3.23 | 13.1 | 6.69 | 11.29 | 10.9 | 4.54 | 7.74 | 8.3 |
| 66147 | 'Necap2' | 21.11 | 17.51 | 24.3 | 0 | 15 | 16.88 | 9.7 | 21.45 | 17.5 | 7.04 |
| 66148 | 'Dnajc15' | 134.3 | 106.7 | 126 | 144 | 89.2 | 167.4 | 42 | 88.5 | 87.99 | 125.55 |
| 66151 | 'Prr13' | 181.1 | 190.5 | 89.3 | 159 | 201 | 221.9 | 154 | 183.4 | 423.8 | 373.2 |
| 66152 | 'Uqcr10' | 559.8 | 463.4 | 614 | 714 | 502 | 898.1 | 476 | 385.6 | 606.2 | 386.28 |
| 66153 | 'Fbxo36' | 16.58 | 9.3 | 2.4 | 10.3 | 8.57 | 4.9 | 5.86 | 4.34 | 9.31 | 8.89 |
| 66154 | 'Tmem14c' | 43.54 | 77.72 | 49.4 | 54 | 43.3 | 43.41 | 70.8 | 52.57 | 22.64 | 69.52 |
| 66155 | 'Ufc1' | 113.4 | 91.83 | 114 | 179 | 129 | 54.97 | 99.9 | 122.1 | 99.76 | 107.14 |
| 66156 | 'Anapc11' | 70.91 | 50.54 | 44.2 | 44.6 | 83.1 | 85.65 | 65.5 | 63.77 | 86.32 | 93.59 |
| 66158 | 'Rtl8a' | 116.8 | 77.38 | 129 | 90.7 | 115 | 82.08 | 87.9 | 137.8 | 222.4 | 120.98 |
| 66161 | 'Pop4' | 18.34 | 25.97 | 24.4 | 41.2 | 29.3 | 23.58 | 6.92 | 18.3 | 31.94 | 16.4 |
| 66162 | 'Bola2' | 100 | 109.3 | 136 | 270 | 89.4 | 193.3 | 153 | 73.3 | 108.1 | 58.15 |
| 66163 | 'Mrpl4' | 114.1 | 86.83 | 122 | 92.5 | 163 | 120.8 | 174 | 123.2 | 120.3 | 77.49 |
| 66164 | 'Nip7' | 11.01 | 16.11 | 14.3 | 21.3 | 9.23 | 7.76 | 10.4 | 15.93 | 15.61 | 11.41 |
| 66165 | 'Bccip' | 68.08 | 111.4 | 70.4 | 84 | 110 | 96.64 | 57.7 | 89.48 | 73.32 | 60.03 |
| 66167 | 'Tma7' | 285.9 | 300.4 | 286 | 400 | 269 | 409.8 | 363 | 220.2 | 258.8 | 254.81 |
| 66168 | 'Grina' | 426.1 | 337.9 | 549 | 243 | 433 | 534.3 | 660 | 563.9 | 454.3 | 473.75 |
| 66169 | 'Tomm7' | 40.39 | 60.83 | 59.8 | 72.9 | 30.3 | 96.16 | 68.5 | 27.69 | 63.95 | 45.37 |
| 66170 | 'Chchd5' | 12.96 | 15.3 | 6.14 | 27 | 13.8 | 16.84 | 25.3 | 18.62 | 11.14 | 5.75 |
| 66171 | 'Pgls' | 54.97 | 53.66 | 51.7 | 67.4 | 52.1 | 84.43 | 28.5 | 62.96 | 43.69 | 89.59 |
| 66172 | 'Med11' | 3.07 | 6.65 | 16.9 | 0 | 17.4 | 7.45 | 9.05 | 19.21 | 32.82 | 28.15 |
| 66174 | 'Nudt14' | 17.52 | 9.52 | 8.86 | 20.9 | 21.1 | 32.54 | 20.9 | 17.68 | 21.28 | 27.69 |
| 66175 | 'Mustn1' | 2.27 | 0 | 0 | 0 | 0 | 0.56 | 0 | 0 | 0 | 0 |
| 66176 | 'Nat9' | 19.94 | 26.6 | 6.81 | 9.76 | 30.5 | 23.04 | 17.5 | 14.05 | 7.71 | 18.07 |
| 66177 | 'Ubl5' | 263.6 | 262.7 | 267 | 299 | 200 | 303.4 | 274 | 156 | 222.8 | 210.79 |
| 66179 | 'Ogfod3' | 26.47 | 33.2 | 25.8 | 11.9 | 44.3 | 31.14 | 13.9 | 22.15 | 23.76 | 42.66 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66180 | 'P3h4' | 11.81 | 38.68 | 31.4 | 52.2 | 14.8 | 26.05 | 0 | 16.92 | 22.28 | 21.68 |
| 66181 | 'Nop10' | 271.4 | 277.5 | 268 | 176 | 177 | 280.6 | 205 | 181.1 | 199.4 | 205.27 |
| 66183 | 'Sptssb' | 0 | 4.3 | 0.03 | 0.03 | 2.94 | 0.72 | 0 | 1.04 | 0 | 3.01 |
| 66185 | 'Virma' | 2.75 | 2.82 | 4.71 | 3.59 | 2.53 | 1.79 | 7.77 | 5.06 | 1.78 | 2.07 |
| 66190 | 'Acer3' | 4.17 | 6.17 | 12.2 | 7.77 | 5.53 | 5.06 | 3.43 | 4.82 | 8.18 | 10.36 |
| 66191 | 'Ier3ip1' | 109.5 | 157.7 | 141 | 227 | 138 | 156.8 | 103 | 102.9 | 145.1 | 116.13 |
| 66192 | 'Lage3' | 23.91 | 13.04 | 17.3 | 21.5 | 16.7 | 19.38 | 33.4 | 20.63 | 21.8 | 33.16 |
| 66193 | 'Pithd1' | 82.68 | 79.28 | 99.7 | 193 | 74.3 | 84.28 | 72.7 | 57.04 | 108.4 | 31.91 |
| 66194 | 'Pycl' | 42.29 | 63.67 | 29.4 | 67.3 | 41.7 | 104.5 | 81.8 | 64.73 | 54.23 | 99.15 |
| 66196 | 'Myo19' | 0.86 | 0 | 2.53 | 0 | 2.04 | 0.21 | 5.1 | 0.48 | 1.99 | 0 |
| 66197 | 'Cks2' | 0.07 | 2.07 | 3.26 | 0 | 3.03 | 21.38 | 0.08 | 5.45 | 0 | 0 |
| 66199 | 'Commd4' | 112.5 | 110.9 | 95.5 | 143 | 98.5 | 133.8 | 177 | 146.3 | 86.21 | 143.7 |
| 66200 | 'Commd6' | 78.77 | 44.63 | 34.5 | 53 | 84 | 72.18 | 41.7 | 55.4 | 23.17 | 67.74 |
| 66201 | 'Vta1' | 54.38 | 61.26 | 86.8 | 103 | 72.3 | 143.1 | 54.4 | 82.29 | 81.72 | 67.59 |
| 66202 | '1110059G10Rik' | 5.41 | 3.36 | 3.51 | 14.4 | 4.75 | 2.3 | 2.71 | 3.24 | 4.03 | 6.33 |
| 66204 | 'Acyp1' | 33.71 | 17.09 | 21.4 | 11.5 | 43.2 | 61.17 | 22.3 | 19.8 | 33.44 | 72.47 |
| 66205 | 'Cd302' | 12.71 | 10.32 | 11.9 | 0 | 0.04 | 11.32 | 19.7 | 7.26 | 7.55 | 4.31 |
| 66206 | '1110059E24Rik' | 45.32 | 53.09 | 55.3 | 78.5 | 79.9 | 101.7 | 41.4 | 42.38 | 58.21 | 51.75 |
| 66208 | 'Nenf' | 325.9 | 374.3 | 268 | 515 | 171 | 131.9 | 293 | 139.4 | 395.4 | 139.05 |
| 66209 | 'Inip' | 3.12 | 7.21 | 2.78 | 1.12 | 2.04 | 2.29 | 0.61 | 2.55 | 1.64 | 0.33 |
| 66211 | 'Rpl3l' | 0 | 1.77 | 0.12 | 0 | 0.06 | 0.06 | 0.05 | 0.07 | 0.06 | 0.04 |
| 66212 | 'Sec61b' | 208.1 | 216.7 | 139 | 301 | 181 | 169.4 | 127 | 175.2 | 237.8 | 272.39 |
| 66213 | 'Med7' | 34.05 | 15.77 | 17.4 | 20.1 | 4.41 | 22.73 | 9.68 | 14.9 | 24.24 | 20.18 |
| 66214 | 'Rgcc' | 8.48 | 23.17 | 24.7 | 0 | 13.4 | 6.5 | 55.3 | 22.97 | 0 | 11.43 |
| 66218 | 'Ndufb9' | 489.8 | 376.6 | 527 | 713 | 621 | 593 | 617 | 532.8 | 434.3 | 444.39 |
| 66220 | 'Zdhhc12' | 14.73 | 0.39 | 4.93 | 11.3 | 4.78 | 33.13 | 10.5 | 0 | 5.14 | 21.17 |
| 66222 | 'Serpinb1a' | 9.78 | 10.85 | 0 | 0 | 1.03 | 0 | 0.21 | 2.05 | 0 | 0 |
| 66223 | 'Mrpl35' | 16.93 | 15.15 | 23.2 | 26.9 | 10.7 | 5.48 | 11.5 | 21.66 | 19.9 | 18.56 |
| 66225 | 'Llph' | 27.07 | 17.22 | 27.9 | 22.5 | 81.6 | 48.1 | 40.9 | 53.65 | 54.72 | 30.9 |
| 66226 | 'Trappc2' | 110 | 122.4 | 93.3 | 116 | 78.1 | 124.1 | 74.9 | 96.95 | 104.8 | 98.93 |
| 66229 | 'Rpl7l1' | 30.63 | 32.14 | 40.6 | 18.2 | 27.8 | 49.4 | 23.5 | 44.54 | 32.16 | 42.86 |
| 66230 | 'Mrps28' | 67.99 | 72.93 | 55.5 | 116 | 44.3 | 70.33 | 57.5 | 67.99 | 51.38 | 57.04 |
| 66231 | 'Thoc7' | 82.99 | 80.71 | 80.4 | 72.2 | 62 | 94.61 | 46.8 | 57.61 | 69.28 | 78.23 |
| 66233 | 'Dmap1' | 30.74 | 43.83 | 30.3 | 49.7 | 23 | 38.98 | 35.6 | 39.86 | 30.11 | 57.65 |
| 66234 | 'Msmo1' | 102.3 | 78.6 | 82.1 | 94.8 | 59.4 | 85.02 | 99.9 | 160.6 | 97.66 | 75.92 |
| 66235 | 'Eif1ax' | 31.51 | 24.2 | 36.5 | 19.9 | 31.8 | 34.89 | 44.8 | 20.39 | 18.73 | 31.88 |
| 66237 | 'Atp6v1g2' | 349.4 | 386 | 543 | 327 | 591 | 546.9 | 545 | 612.4 | 266.8 | 252 |
| 66240 | 'Kcne1l' | 9.22 | 2.66 | 0 | 6.61 | 0.03 | 11.88 | 5.97 | 2.05 | 0 | 2.19 |
| 66241 | 'Tmem9' | 252.9 | 261.1 | 200 | 162 | 243 | 346.9 | 287 | 287.7 | 369.7 | 353.98 |
| 66242 | 'Mrps16' | 49.26 | 111.3 | 134 | 86.2 | 104 | 144.9 | 107 | 106.9 | 111.7 | 83.88 |
| 66244 | 'Nemf' | 32.32 | 29.18 | 28.9 | 45.9 | 44.3 | 52.38 | 41.4 | 39.18 | 36.66 | 38.55 |
| 66245 | 'Hspbp1' | 95.86 | 100.7 | 137 | 110 | 90 | 127.9 | 94.5 | 146.9 | 96.33 | 79.17 |
| 66246 | 'Osgep' | 31.29 | 27.57 | 32.7 | 16.3 | 57.8 | 44.72 | 52.9 | 34.68 | 16.8 | 59.46 |
| 66248 | 'Alg5' | 32.44 | 31.55 | 31 | 38.2 | 22.4 | 39.59 | 15.8 | 29.94 | 50.89 | 32.2 |
| 66249 | 'Pno1' | 21.45 | 10.74 | 13.6 | 24 | 19.1 | 31.01 | 7.5 | 12.77 | 10.82 | 14.27 |
| 66251 | 'Arfgap3' | 11.9 | 18.36 | 17.9 | 7.53 | 26.9 | 15.71 | 24.1 | 17.99 | 9.06 | 18.34 |
| 66253 | 'Aig1' | 54.79 | 41.99 | 46.2 | 13.5 | 49.7 | 52.36 | 64.3 | 29.1 | 29.45 | 33.08 |
| 66254 | 'Dimt1' | 15.47 | 26.3 | 14.2 | 14 | 13.8 | 1.86 | 5.98 | 7.49 | 14.29 | 20.67 |
| 66255 | 'Hsbp11l' | 1.9 | 1.29 | 3.01 | 0 | 0.68 | 0 | 0 | 0.2 | 0 | 0.83 |
| 66256 | 'Ssr2' | 116.8 | 109.7 | 98.1 | 128 | 101 | 160.7 | 104 | 177.3 | 200.3 | 175.42 |
| 66257 | 'Nicn1' | 127.2 | 106.7 | 93.9 | 160 | 126 | 189.4 | 107 | 125.9 | 119 | 143.73 |
| 66258 | 'Mrps17' | 100.8 | 96.62 | 95.3 | 125 | 95.3 | 145.7 | 97.1 | 101.7 | 65.55 | 101.19 |
| 66259 | 'Camk2n1' | 15.79 | 8.26 | 10.6 | 11.8 | 19.5 | 6.23 | 14 | 13.11 | 13.65 | 7.31 |
| 66260 | 'Tmem54' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 |
| 66262 | 'Ing5' | 1.02 | 2.8 | 0.63 | 8.99 | 3.98 | 0.03 | 0 | 2.93 | 4.61 | 4.94 |
| 66264 | 'Ccadc28b' | 19.93 | 16.44 | 23.3 | 14.6 | 31.8 | 42.54 | 21.4 | 19.8 | 43.59 | 30.94 |
| 66266 | 'Eapp' | 28.21 | 44.18 | 33.3 | 18 | 46.3 | 44.19 | 36.1 | 43.3 | 30.67 | 33.13 |
| 66268 | 'Pigyl' | 80.32 | 97.6 | 88.8 | 105 | 77.1 | 89.91 | 101 | 107 | 113.8 | 80.8 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66269 | 'Tmed6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 |
| 66270 | 'Retreg1' | 3.83 | 10.47 | 6.81 | 9 | 5.96 | 8.58 | 5.74 | 2.42 | 1.91 | 6.1 |
| 66271 | 'Tmem126a' | 96.82 | 101.8 | 79.8 | 71.8 | 99.5 | 102.8 | 72.6 | 89.44 | 104.6 | 134.57 |
| 66272 | 'Cox16' | 78.47 | 40.13 | 47.7 | 76.3 | 48.2 | 46.38 | 34 | 57.75 | 66.97 | 64.4 |
| 66273 | 'Aamdc' | 55.82 | 51.34 | 54.2 | 45.2 | 62.4 | 103.4 | 75.6 | 57.88 | 123.3 | 78.89 |
| 66274 | 'Lymr9' | 18.33 | 13.43 | 17.5 | 2.69 | 11.1 | 13.68 | 17.2 | 14.97 | 16.07 | 12.73 |
| 66276 | '1810009A15Rik' | 91.54 | 68.54 | 47.1 | 81.5 | 87.1 | 111.2 | 43 | 60.98 | 81.6 | 95.81 |
| 66277 | 'Klf15' | 0.69 | 2.75 | 6.33 | 6.04 | 2.89 | 0.03 | 0 | 4.78 | 6.18 | 0.03 |
| 66278 | 'Smim20' | 47.62 | 33.85 | 39.9 | 90.8 | 91.2 | 105.8 | 49.8 | 74.48 | 50.26 | 54.6 |
| 66279 | 'Tmem218' | 13.09 | 4.18 | 12 | 21.9 | 6.19 | 26.26 | 0 | 18.73 | 7.98 | 13.47 |
| 66282 | 'Tma16' | 4.82 | 7.16 | 7.5 | 12.6 | 7.85 | 5.03 | 8.05 | 14.22 | 6.73 | 6.59 |
| 66286 | 'Sec11c' | 165.6 | 167.7 | 167 | 203 | 123 | 345.9 | 134 | 219.3 | 169.5 | 213.59 |
| 66290 | 'Atp6v1g1' | 279 | 248.1 | 248 | 430 | 376 | 316.6 | 231 | 333.7 | 295.4 | 304.05 |
| 66291 | 'Smim8' | 38.17 | 29.61 | 25.2 | 48.3 | 29.9 | 19.59 | 23.3 | 44.71 | 12.06 | 30.62 |
| 66292 | 'Mrps21' | 153.4 | 179.1 | 155 | 205 | 151 | 320.1 | 150 | 125.4 | 269.5 | 153.29 |
| 66294 | 'Fam3a' | 28.89 | 16.95 | 22.6 | 14.2 | 26.8 | 28.51 | 24.5 | 31.48 | 14.41 | 27.25 |
| 66296 | 'Haus2' | 12.81 | 17.58 | 17.7 | 14.9 | 15.5 | 12.21 | 7.74 | 10.31 | 10.08 | 10.3 |
| 66300 | 'Inafm1' | 52.72 | 22.8 | 48.3 | 73.4 | 36.6 | 15.93 | 39.2 | 15.01 | 58.12 | 4.17 |
| 66302 | 'Rmdn1' | 8.02 | 14.03 | 7.56 | 0.85 | 4.77 | 11.33 | 7.82 | 9.46 | 18.51 | 16.1 |
| 66306 | 'Fam53c' | 9.03 | 2.02 | 11.8 | 2.14 | 8.74 | 2.63 | 11.1 | 5.05 | 5.06 | 10.33 |
| 66307 | 'Isoc1' | 4.73 | 6.9 | 10.9 | 20.8 | 4.53 | 1.61 | 7.38 | 5.42 | 4.59 | 6.31 |
| 66308 | 'Mplkip' | 1.61 | 3.02 | 3.33 | 0.4 | 1.26 | 0.76 | 3.62 | 2.97 | 3.98 | 0.95 |
| 66309 | 'Tmem128' | 58.59 | 29.26 | 45.5 | 24 | 58.8 | 5.26 | 18.3 | 35.45 | 41.51 | 42.07 |
| 66310 | 'Dpy30' | 130.4 | 135.2 | 123 | 106 | 115 | 124.5 | 135 | 129.3 | 121.1 | 113.08 |
| 66311 | 'Cenpw' | 1.81 | 1.38 | 0.74 | 0 | 0 | 0 | 0.03 | 0 | 0 | 1.39 |
| 66313 | 'Smurf2' | 1.55 | 0.1 | 1.74 | 0.66 | 1.25 | 0.03 | 4.5 | 1.81 | 0 | 0.65 |
| 66314 | 'Tpd52l2' | 58.52 | 55.9 | 73.5 | 36.7 | 48.8 | 61.95 | 83.5 | 48.14 | 46.08 | 50.83 |
| 66315 | 'Senp7' | 9.25 | 12.02 | 2.05 | 4.98 | 11.1 | 6.32 | 8.7 | 7.68 | 19.36 | 14.09 |
| 66317 | 'Wdr61' | 107.2 | 84.53 | 68.2 | 103 | 46.9 | 85.2 | 63.5 | 81.29 | 93.02 | 104.72 |
| 66320 | 'Tmem208' | 79.89 | 72.62 | 98 | 103 | 116 | 80.44 | 99.1 | 60.22 | 79.05 | 49.9 |
| 66323 | '1700001K19Rik' | 0 | 0.21 | 0.73 | 0.69 | 0.11 | 0.5 | 0 | 0 | 0 | 0 |
| 66328 | 'Scp2d1' | 0.06 | 0 | 0 | 0 | 2.22 | 0 | 0 | 0 | 0.67 | 0.12 |
| 66329 | 'Susd3' | 0 | 0.17 | 0 | 0 | 4.06 | 34.63 | 0 | 3.79 | 0 | 0 |
| 66333 | 'Aqp11' | 7.86 | 2.67 | 0.11 | 11.1 | 0.8 | 0.25 | 9.88 | 14.14 | 8.75 | 7.67 |
| 66335 | 'Atp6v1c1' | 282.3 | 270.2 | 254 | 191 | 239 | 261.8 | 291 | 331.1 | 282 | 320.7 |
| 66336 | 'Cenpp' | 4.14 | 0 | 3.38 | 2.9 | 3.72 | 2.04 | 0 | 0.96 | 0 | 1.37 |
| 66337 | 'Fam229b' | 27.36 | 35.43 | 12.5 | 15 | 27.3 | 60.75 | 17 | 11.94 | 24.25 | 49.42 |
| 66338 | 'Cdr4' | 0 | 0 | 0.14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66340 | 'Psenen' | 214.4 | 259.7 | 197 | 264 | 249 | 355.9 | 317 | 250.9 | 254.4 | 266.55 |
| 66343 | 'Tmem177' | 9.89 | 0.2 | 2.06 | 0 | 0 | 2.91 | 0.01 | 2.27 | 17.96 | 6.4 |
| 66349 | 'Dmac2' | 41.37 | 41.11 | 63 | 28.4 | 49.1 | 25.25 | 83.5 | 50.61 | 42.99 | 51.67 |
| 66350 | 'Pla2g12a' | 13.88 | 17.05 | 7.83 | 50.3 | 6.8 | 4.35 | 11.5 | 8.34 | 16.46 | 7.68 |
| 66352 | 'Blzf1' | 10.23 | 12.08 | 6.08 | 11.6 | 20.6 | 9.31 | 6.02 | 13.57 | 11.63 | 4.86 |
| 66353 | 'Riid1' | 35.61 | 23.51 | 11.2 | 84.6 | 30 | 51.66 | 19.5 | 25.56 | 17.56 | 29.06 |
| 66354 | 'Snw1' | 44.56 | 53.08 | 33.5 | 25.4 | 47.8 | 52.72 | 28.6 | 66.02 | 78.6 | 45.4 |
| 66355 | 'Gmpr' | 35.89 | 26.75 | 49.8 | 58.3 | 77.1 | 45.2 | 42.3 | 71.25 | 32.42 | 26.3 |
| 66356 | 'Knop1' | 6.05 | 4.36 | 4.6 | 10.9 | 3.67 | 4.98 | 3.65 | 5.82 | 7.35 | 5.83 |
| 66357 | 'Ostc' | 187.7 | 161.8 | 92.2 | 127 | 97.5 | 179.9 | 152 | 161.3 | 238.4 | 219.43 |
| 66358 | 'Adprm' | 20.35 | 6.73 | 11.3 | 15.4 | 11.2 | 12.82 | 10.9 | 12.57 | 6.71 | 9.55 |
| 66359 | 'Cox20' | 93.95 | 40.16 | 64.2 | 83.1 | 39.9 | 74.12 | 57.5 | 37.19 | 70.58 | 51.3 |
| 66361 | 'Zfand1' | 7.34 | 2.75 | 21.2 | 0.04 | 30.3 | 23.18 | 24.4 | 31.04 | 20.66 | 10.68 |
| 66362 | 'Exosc3' | 21.33 | 23.74 | 12.2 | 11.1 | 27.5 | 10.59 | 0.1 | 19.94 | 3.23 | 29.34 |
| 66364 | '2310009A05Rik' | 30.12 | 18.92 | 23.8 | 19.5 | 38.7 | 14.7 | 12.5 | 17.46 | 14.17 | 19.22 |
| 66365 | 'Ccadc90b' | 11.25 | 7.93 | 9.49 | 16.8 | 23.2 | 13.66 | 3.67 | 9.26 | 20.9 | 17.6 |
| 66366 | 'Ergic3' | 302.8 | 323.3 | 291 | 299 | 278 | 349 | 228 | 392.6 | 315.1 | 345.62 |
| 66367 | '2310022A10Rik' | 16.3 | 28.41 | 15.9 | 39.7 | 6.37 | 25.38 | 33 | 25.82 | 14.49 | 12.97 |
| 66368 | 'Rtca' | 68.4 | 60.38 | 65.6 | 75.6 | 84 | 45.99 | 67.9 | 42.53 | 51.52 | 50.06 |
| 66369 | 'Dus2' | 26.7 | 32.94 | 27.7 | 15.6 | 18.3 | 13.2 | 11.3 | 38.97 | 45.23 | 33.02 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66371 | 'Chmp4c' | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 |
| 66373 | 'Lsm5' | 33.83 | 48.3 | 30.9 | 40.7 | 15.9 | 35.35 | 34.7 | 38.53 | 50.33 | 23.82 |
| 66374 | '2310011J03Rik' | 25.67 | 25.11 | 11.3 | 19.6 | 30.1 | 26.11 | 24.6 | 22.33 | 28.02 | 24.52 |
| 66375 | 'Dhrs7' | 38.32 | 39.62 | 41.2 | 57.8 | 47.4 | 48.47 | 28.2 | 35.49 | 41.99 | 51.32 |
| 66377 | 'Ndufc1' | 384.2 | 340 | 409 | 488 | 390 | 540.1 | 446 | 282.7 | 387.9 | 352.36 |
| 66379 | 'Cox14' | 261.7 | 251.5 | 236 | 232 | 193 | 299.8 | 233 | 221.5 | 293.7 | 257.97 |
| 66381 | 'Rnf113a2' | 29.9 | 21.85 | 25.1 | 44.4 | 23.3 | 33.37 | 8.3 | 22.31 | 10.33 | 12.72 |
| 66383 | 'Iscu' | 271.9 | 163.4 | 357 | 307 | 188 | 140.8 | 303 | 181.2 | 279.5 | 69.32 |
| 66384 | 'Srp19' | 182.3 | 180.3 | 125 | 152 | 182 | 176.1 | 138 | 197.5 | 199.5 | 154.22 |
| 66385 | 'Ppp1r7' | 16.23 | 16.33 | 13.7 | 27.2 | 29.1 | 27.56 | 21.3 | 19.41 | 15.13 | 13.95 |
| 66387 | 'Nudt8' | 23.75 | 22.95 | 45.9 | 18.4 | 48.8 | 70.01 | 31.5 | 45.72 | 36.5 | 45.14 |
| 66388 | 'Cutc' | 1.24 | 12.85 | 4.24 | 10.6 | 11.6 | 0.64 | 3.95 | 15.6 | 11.42 | 7.45 |
| 66390 | 'Preli3b' | 76.99 | 68.68 | 72.8 | 37.4 | 65 | 69.42 | 77.6 | 89.19 | 82.77 | 73.87 |
| 66394 | 'Nosip' | 47.39 | 50.84 | 35 | 2.88 | 47 | 38.22 | 47.3 | 45.57 | 51.72 | 28.2 |
| 66395 | 'Ahnak' | 0.11 | 0.07 | 3.45 | 0 | 1.49 | 0.88 | 0.05 | 0 | 0.04 | 0.01 |
| 66396 | 'Ccadc82' | 19.12 | 22.26 | 28.1 | 47.1 | 17.6 | 15.53 | 21.3 | 19.75 | 36.05 | 28.41 |
| 66397 | 'Sar1b' | 162.7 | 127.3 | 124 | 113 | 103 | 111.7 | 104 | 151.7 | 120.8 | 131.24 |
| 66398 | 'Commd5' | 25.16 | 25.23 | 22.5 | 0 | 33.7 | 61.34 | 39.2 | 52.77 | 28.27 | 18.03 |
| 66399 | 'Tsfm' | 41.3 | 35.09 | 41 | 36.9 | 48.6 | 67.17 | 41.9 | 47.2 | 48.37 | 38.16 |
| 66400 | 'Alkbh7' | 28.34 | 66.91 | 83.5 | 33.4 | 63.9 | 107.2 | 31.3 | 68.37 | 62.31 | 56.3 |
| 66401 | 'Nudt2' | 42.42 | 60.77 | 59.4 | 9.7 | 65.9 | 115.5 | 41.4 | 45.12 | 59.75 | 29.78 |
| 66403 | 'Asf1a' | 12.45 | 4.89 | 4.84 | 8.34 | 8.81 | 3.1 | 2.44 | 0.86 | 2.73 | 3.51 |
| 66404 | 'Rtf2' | 22.36 | 37.9 | 16.6 | 18.5 | 33.5 | 67.45 | 67.9 | 43.68 | 34.72 | 37.59 |
| 66405 | 'Mcts2' | 27.01 | 15.83 | 23.5 | 1.51 | 28 | 26.85 | 24.6 | 33.44 | 16.64 | 22.85 |
| 66406 | 'Sac3d1' | 15.84 | 12.3 | 30.7 | 0 | 9.98 | 15.34 | 11.4 | 22.33 | 11.83 | 6.98 |
| 66407 | 'Mrps15' | 87.63 | 66.32 | 74.9 | 88.3 | 102 | 106.3 | 99.3 | 74.25 | 69.51 | 85.99 |
| 66408 | 'Aptx' | 18.41 | 11.15 | 8.01 | 16.2 | 15.5 | 6.1 | 17.2 | 9.12 | 21.57 | 11.82 |
| 66409 | 'Rsl1d1' | 55.92 | 95.23 | 70 | 83.2 | 57.6 | 101.9 | 51.9 | 81.35 | 66.69 | 89.27 |
| 66410 | 'Mterf3' | 20.32 | 32.81 | 11.7 | 11 | 19.1 | 19.05 | 37.4 | 22.45 | 22.83 | 31.39 |
| 66411 | 'Tbcb' | 226.3 | 224 | 218 | 204 | 214 | 280.7 | 234 | 239.8 | 233.3 | 200.79 |
| 66412 | 'Arrdc4' | 2.03 | 1.17 | 7.73 | 38.5 | 7.64 | 0.09 | 6.34 | 7.54 | 7.5 | 0 |
| 66413 | 'Psm6' | 110.9 | 113.4 | 156 | 104 | 86.2 | 160.4 | 127 | 157 | 113.5 | 117.96 |
| 66414 | 'Ndufa12' | 516.9 | 450.3 | 418 | 630 | 604 | 772.9 | 575 | 479.2 | 470.3 | 555.2 |
| 66416 | 'Ndufa7' | 405.4 | 348.1 | 429 | 588 | 382 | 632.7 | 377 | 391.5 | 641.9 | 485.08 |
| 66419 | 'Mrpl11' | 29.75 | 25.27 | 33.6 | 44.4 | 38.1 | 45.78 | 26.6 | 32.05 | 15.96 | 23.92 |
| 66420 | 'Polr2e' | 146 | 121.8 | 99.1 | 115 | 162 | 164.8 | 138 | 162.1 | 132.4 | 108.35 |
| 66421 | '2410004B18Rik' | 64.84 | 44.63 | 40.4 | 50.9 | 45.2 | 36.62 | 26.3 | 40.15 | 50.24 | 22.64 |
| 66422 | 'Dctpp1' | 11.79 | 2.37 | 14.9 | 16.5 | 27 | 41.59 | 12.7 | 6.79 | 13.35 | 5.78 |
| 66423 | 'Coprs' | 248.3 | 186.9 | 225 | 176 | 187 | 303.6 | 222 | 125.3 | 240.3 | 99.04 |
| 66425 | 'Pcp4l1' | 7.67 | 22.69 | 33.6 | 32.3 | 35.4 | 9.18 | 16.3 | 65.14 | 19.7 | 8.32 |
| 66427 | 'Cyb5b' | 56.43 | 41.66 | 45 | 31.6 | 36.1 | 12.05 | 44 | 63.84 | 41.74 | 44.31 |
| 66431 | 'Oxld1' | 9.44 | 25.59 | 13.5 | 17 | 17.6 | 0 | 22.9 | 1.36 | 12.97 | 22.47 |
| 66432 | 'Slc7a6os' | 13.43 | 13.66 | 12.1 | 22.4 | 4.94 | 2.88 | 1.06 | 5.63 | 20.22 | 11.75 |
| 66433 | 'Chchd7' | 56.5 | 82.93 | 109 | 52.7 | 66.1 | 108.4 | 77.4 | 38.77 | 48.37 | 77.94 |
| 66435 | 'Uggt2' | 3.27 | 5.74 | 5.65 | 0.83 | 3.72 | 9.35 | 4.4 | 7.77 | 7.33 | 5.56 |
| 66437 | 'Fis1' | 427.8 | 355.6 | 308 | 447 | 383 | 492 | 361 | 366.5 | 273.9 | 442.56 |
| 66439 | 'Borcs7' | 26.59 | 34.67 | 33.6 | 39.5 | 31.5 | 34.08 | 46.8 | 28.95 | 26.15 | 33.3 |
| 66440 | 'Cdc26' | 59.83 | 87.93 | 59.8 | 71 | 73.6 | 71.71 | 84.8 | 98.58 | 86 | 128.26 |
| 66441 | 'Magohb' | 13.53 | 11.27 | 9.24 | 3.48 | 31 | 10.37 | 4.29 | 21.44 | 13.67 | 6.28 |
| 66442 | 'Spc25' | 0 | 3.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66443 | 'Tnfaip8l1' | 0 | 2.89 | 0 | 0 | 0 | 0 | 0 | 2.45 | 0 | 3.7 |
| 66445 | 'Cyc1' | 311.9 | 210 | 349 | 312 | 267 | 307.3 | 351 | 351.2 | 183.2 | 244.44 |
| 66446 | 'Exosc7' | 65.52 | 84.04 | 43.7 | 56.7 | 56.7 | 101.8 | 57.3 | 88.06 | 98.65 | 90.39 |
| 66447 | 'Mgst3' | 135.5 | 80.92 | 310 | 215 | 376 | 310.8 | 114 | 245.8 | 157.3 | 173.17 |
| 66448 | 'Mrpl20' | 236.3 | 227.1 | 217 | 201 | 243 | 306.8 | 139 | 282.2 | 181.9 | 201.84 |
| 66449 | 'Pam16' | 300.3 | 222.1 | 244 | 181 | 185 | 447 | 248 | 237.1 | 348.1 | 299.93 |
| 66454 | 'Nmnat1' | 4.5 | 7.73 | 8.9 | 0 | 12.2 | 3.16 | 0.16 | 9.78 | 0 | 6.69 |
| 66455 | 'Cnpy4' | 18.64 | 15.46 | 6.87 | 3.86 | 13.5 | 16.12 | 7.77 | 16.19 | 15.22 | 20.2 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66459 | 'Pyurf' | 16.22 | 9.73 | 11.3 | 7.17 | 10.6 | 12.22 | 9.18 | 18.26 | 12.24 | 14.22 |
| 66460 | 'Sys1' | 48.5 | 63.1 | 92.8 | 37 | 44.7 | 39.87 | 71.5 | 26.17 | 68.84 | 32.21 |
| 66461 | 'Ptpmt1' | 24.93 | 11.17 | 5.05 | 19.3 | 16.7 | 18.96 | 29 | 17.39 | 22.82 | 17.12 |
| 66462 | 'Rex1bd' | 108.4 | 107.4 | 115 | 138 | 135 | 104.8 | 103 | 123.4 | 131.5 | 162.3 |
| 66464 | 'Taf12' | 24.11 | 23.18 | 25.9 | 14.5 | 35.7 | 26.21 | 25.5 | 24.49 | 24.79 | 26.77 |
| 66467 | 'Gtf2h5' | 119 | 123.5 | 82.5 | 102 | 112 | 133.7 | 125 | 113.7 | 126.5 | 134.18 |
| 66468 | 'Ska1' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66469 | 'Fam213b' | 171.3 | 131.1 | 193 | 248 | 305 | 200.5 | 183 | 143 | 165.9 | 239.96 |
| 66471 | 'Anp32e' | 30.39 | 41.3 | 23.2 | 31.1 | 36 | 35.52 | 31.8 | 10.85 | 41.94 | 29.84 |
| 66473 | 'Ctrb1' | 0 | 0 | 0.34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66475 | 'Rps23' | 276.3 | 317.1 | 250 | 270 | 232 | 266 | 243 | 154.9 | 251.1 | 237.83 |
| 66477 | 'Usmg5' | 828.8 | 1231 | 1220 | 1413 | 766 | 2002 | 1095 | 574.1 | 1279 | 682.59 |
| 664799 | 'Ctcf1' | 0.38 | 0.78 | 0.79 | 1.31 | 1.07 | 0.93 | 0.85 | 0.35 | 0.78 | 0.41 |
| 66480 | 'Rpl15' | 289.5 | 378.7 | 229 | 440 | 250 | 243.8 | 181 | 217.6 | 200.2 | 232.87 |
| 664804 | 'Gm7347' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.48 | 0 | 0.68 |
| 66481 | 'Rps21' | 111.3 | 167.9 | 164 | 320 | 79 | 265 | 158 | 79.26 | 188 | 103.19 |
| 66482 | 'Exoc2' | 11.05 | 9.38 | 21.4 | 10.1 | 8.03 | 0.9 | 12.6 | 12.33 | 16.91 | 20.41 |
| 66483 | 'Rpl36a1' | 234.9 | 333.4 | 243 | 271 | 221 | 269.9 | 276 | 186.6 | 292 | 283.94 |
| 664837 | 'Gm7361' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0.17 | 0 | 0.25 |
| 66487 | 'Smim4' | 21.67 | 24.82 | 18.8 | 29.2 | 24.7 | 47.44 | 14.7 | 9.38 | 36.68 | 32.81 |
| 66488 | 'Fam136a' | 66.89 | 61.46 | 45.7 | 24.3 | 49 | 73.63 | 40.4 | 67.56 | 67.17 | 41.27 |
| 664883 | 'Nova1' | 16.33 | 11.58 | 26.1 | 7.8 | 9.38 | 9.66 | 24 | 15.37 | 21.12 | 7.53 |
| 66489 | 'Rpl35' | 547.6 | 444.5 | 489 | 914 | 415 | 727 | 568 | 297.1 | 500.1 | 397.01 |
| 66491 | 'Polr2l' | 46.85 | 46.67 | 45.4 | 52.9 | 52.9 | 70.42 | 37.1 | 35.87 | 38.51 | 39.68 |
| 66492 | 'Zmat2' | 101.6 | 78.22 | 84.3 | 71.3 | 72.9 | 102.4 | 78.8 | 63.58 | 62.83 | 47.6 |
| 66493 | 'Mrpl51' | 88.2 | 59.1 | 61 | 86.7 | 68.2 | 85.34 | 57 | 64.84 | 66.46 | 68.24 |
| 66494 | 'Preli1' | 307.9 | 202.7 | 225 | 174 | 190 | 243.6 | 232 | 222.4 | 188.8 | 147.97 |
| 66495 | 'Ndufb3' | 246.2 | 225.2 | 277 | 233 | 279 | 359.9 | 212 | 175 | 248.5 | 224.2 |
| 66496 | 'Ppdpf' | 154 | 130.6 | 130 | 175 | 100 | 103 | 194 | 97.52 | 112.5 | 158.42 |
| 664968 | 'Tmem238' | 0.26 | 0.28 | 0 | 3.43 | 0.1 | 0 | 0 | 0.83 | 0 | 2.23 |
| 664969 | 'Gm7429' | 0 | 0 | 0.56 | 0.14 | 0.26 | 0.11 | 0 | 0 | 0 | 0 |
| 66497 | 'Cmss1' | 23.93 | 14.7 | 18.9 | 22.1 | 9.48 | 10.48 | 11.9 | 15.06 | 13.62 | 26.56 |
| 66498 | 'Dda1' | 120.5 | 103.4 | 97 | 148 | 139 | 157.7 | 140 | 110 | 165.6 | 137.42 |
| 664994 | 'Isoc2a' | 0 | 0 | 0 | 0 | 0.05 | 0 | 3.74 | 1.64 | 0 | 0 |
| 66500 | 'Slc30a7' | 2.57 | 1.08 | 0.41 | 1.05 | 2.96 | 0.54 | 17.6 | 0.02 | 1.95 | 1.54 |
| 665001 | 'Gm14391' | 22.52 | 32.66 | 13.5 | 17.3 | 31.7 | 32.25 | 27.4 | 21.85 | 22.25 | 17.09 |
| 66501 | '1700029H14Rik' | 0 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665033 | 'Col6a5' | 0.43 | 3.12 | 0 | 0.01 | 0 | 0 | 0.06 | 0.15 | 0.57 | 0 |
| 66505 | 'Zmynd11' | 18.87 | 26.19 | 31.4 | 26.3 | 25.1 | 13.02 | 23.8 | 16.8 | 20.95 | 20.69 |
| 66506 | 'Psmg3' | 38.41 | 45.84 | 31.5 | 22.6 | 56.2 | 36.55 | 73.2 | 30.31 | 29.25 | 46.96 |
| 66508 | 'Lamtor1' | 104.3 | 51.96 | 104 | 124 | 81.8 | 76.03 | 109 | 58.25 | 57.97 | 78.61 |
| 665095 | 'Cyp2j8' | 1.91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66510 | 'Rnf181' | 145.1 | 107.5 | 137 | 180 | 152 | 93.63 | 120 | 136.2 | 113 | 146.35 |
| 66511 | 'Chtop' | 64.22 | 83.97 | 69.9 | 58.9 | 56.9 | 60.88 | 50.4 | 56.04 | 39.5 | 51.89 |
| 665113 | 'Tnik' | 13.5 | 17.09 | 16.1 | 18.9 | 26.4 | 13.84 | 11.7 | 18.54 | 20.28 | 11.1 |
| 665119 | 'Sec14l5' | 1.22 | 0.57 | 0 | 0 | 0.21 | 0 | 0 | 0 | 0 | 0.57 |
| 66513 | 'Tab1' | 16.16 | 13.61 | 14.3 | 0 | 11.6 | 12.18 | 6.32 | 4.64 | 33.87 | 4.39 |
| 66514 | 'Asrgl1' | 38.75 | 21.77 | 33.8 | 35.3 | 24.8 | 28.7 | 47.9 | 22.04 | 43.62 | 27.21 |
| 66515 | 'Cul7' | 4.24 | 5.65 | 13 | 1.43 | 3.1 | 1.28 | 9.51 | 0.67 | 3.44 | 6.74 |
| 665155 | 'Srp54b' | 44.97 | 53.21 | 56.6 | 37.2 | 34.9 | 47.37 | 39.7 | 61.39 | 65.38 | 59.24 |
| 665180 | 'Clec2l' | 5.77 | 10.99 | 10.5 | 6.45 | 18.6 | 4.97 | 4.62 | 10.52 | 8.79 | 8.37 |
| 66521 | 'Rwdd1' | 78.94 | 75.84 | 64.4 | 48.3 | 67.5 | 75.01 | 57.2 | 65.27 | 72.14 | 63.28 |
| 665211 | 'Gm14326' | 22.39 | 23.26 | 38.4 | 35.5 | 38.4 | 43.72 | 5.98 | 32.15 | 20.93 | 26.3 |
| 66522 | 'Pgpep1' | 7 | 7.78 | 5.67 | 0.03 | 3.78 | 0.13 | 1.5 | 6.05 | 4.29 | 4.57 |
| 66523 | '2810004N23Rik' | 32.66 | 10.53 | 19.6 | 22.3 | 22.7 | 41.98 | 38.3 | 11.75 | 13.91 | 23.83 |
| 66525 | 'Timm50' | 68.76 | 88.09 | 74.6 | 76.1 | 68.7 | 94.34 | 49.2 | 55.08 | 61.69 | 83.08 |
| 665255 | 'Vmn2r28' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66526 | 'Tceanc2' | 10.9 | 7.97 | 0.57 | 10.6 | 6.13 | 5.47 | 2.24 | 9.2 | 10.02 | 2.43 |

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|--------|--------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66528 | 'Smim5' | 0 | 0.11 | 0.06 | 0 | 7.72 | 0 | 0 | 2.72 | 0.05 | 0.05 |
| 66530 | 'Ubxn6' | 71.18 | 57.8 | 51.4 | 58.5 | 42.8 | 64.89 | 66 | 46.69 | 45.06 | 85.92 |
| 66531 | 'Cmc2' | 10.73 | 10.18 | 15.2 | 17.1 | 19 | 18.6 | 0.85 | 17.34 | 22.15 | 11.13 |
| 66532 | 'Rep15' | 0 | 0 | 2.9 | 0 | 0.05 | 0 | 0 | 0 | 0.41 | 0 |
| 66536 | 'Nipsnap3b' | 23.48 | 36.51 | 28.9 | 35.8 | 19.8 | 41.84 | 34.2 | 45.5 | 25.31 | 39.35 |
| 66537 | 'Pomp' | 380.4 | 272.7 | 283 | 405 | 265 | 362.3 | 279 | 409.1 | 427.6 | 395.07 |
| 665378 | 'Gm7609' | 0.96 | 1.13 | 1.1 | 0.57 | 1.29 | 0.68 | 0.56 | 0.47 | 1.01 | 0.82 |
| 66538 | 'Rps19bp1' | 54.9 | 48.2 | 33.3 | 48.7 | 64.5 | 102.6 | 33.1 | 44.86 | 53.79 | 27.17 |
| 66540 | 'Fam107b' | 0 | 0 | 1.67 | 4.36 | 1.67 | 0.38 | 0 | 0 | 3.57 | 0.05 |
| 66541 | 'Immp11' | 50.56 | 57.22 | 28.7 | 56.9 | 58.1 | 12.8 | 89.1 | 67.18 | 34.02 | 58.54 |
| 665433 | 'Hist1h2ao' | 16.31 | 26.46 | 2.4 | 42.8 | 0 | 25.05 | 21.9 | 7.17 | 5.44 | 5.48 |
| 66548 | 'Adamtsl5' | 0 | 0 | 0.05 | 0 | 0.12 | 0.06 | 0 | 0 | 0 | 0 |
| 66549 | 'Aggf1' | 9.69 | 2.44 | 6.43 | 25 | 7.99 | 3.97 | 9.14 | 0.51 | 8.35 | 2 |
| 66552 | 'Sppl2a' | 5.09 | 4.34 | 10.8 | 1.51 | 2.9 | 6.86 | 5.39 | 5.65 | 9.05 | 15.41 |
| 66556 | 'Drap1' | 51.15 | 39.91 | 44.3 | 72.4 | 44.2 | 41.71 | 21.5 | 37.23 | 23.55 | 21.19 |
| 665562 | 'Rpl31-ps12' | 1.73 | 11.43 | 1.76 | 40.6 | 1.17 | 7.83 | 0.56 | 1.05 | 0.86 | 1.54 |
| 665563 | 'Mthfd2l' | 8.31 | 5.71 | 4.96 | 1.18 | 4.08 | 1.08 | 3.13 | 2.94 | 6.22 | 2.49 |
| 665574 | 'Gm7694' | 1.47 | 1.95 | 4.64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66559 | 'Metap1d' | 45 | 26.04 | 8.64 | 10.6 | 32 | 23.78 | 23.4 | 25.52 | 15.77 | 18.82 |
| 665596 | 'Hist1h2bq' | 1.63 | 0 | 0 | 0 | 3.12 | 0 | 2.37 | 0.59 | 0.65 | 0 |
| 665622 | 'Hist1h2br' | 1.63 | 0 | 0 | 0 | 3.12 | 0 | 2.37 | 0.59 | 0.65 | 0 |
| 66566 | 'Ntpcr' | 36.74 | 34.22 | 30.2 | 65.6 | 61.6 | 46.1 | 28.4 | 56.22 | 40.9 | 44.89 |
| 66568 | 'Rwdd3' | 11.99 | 8.66 | 11.6 | 35.9 | 13.3 | 9.6 | 8.74 | 18.39 | 10.81 | 21.72 |
| 665687 | 'Gm20777' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 66569 | 'Gdpd1' | 81.99 | 61.84 | 70.7 | 34.7 | 64.1 | 49.8 | 35.8 | 59.59 | 45.61 | 70.73 |
| 66570 | 'Cenpm' | 2.97 | 2.13 | 0.12 | 0 | 12.4 | 4.67 | 1.92 | 0 | 0.05 | 5.28 |
| 665700 | 'Hmcn2' | 0 | 0.39 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 66573 | 'Dzip1' | 17.35 | 10.2 | 14.7 | 10.8 | 9.04 | 4.81 | 15.4 | 9.11 | 11.29 | 10.61 |
| 665738 | 'Gm7762' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 665755 | 'LOC665755' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66576 | 'Uqcrh' | 513.5 | 503.3 | 627 | 586 | 564 | 593.2 | 564 | 382.1 | 375.7 | 458.26 |
| 665775 | 'Bod1l' | 2.96 | 4.4 | 4.93 | 9.95 | 7.7 | 3.75 | 3.63 | 3.52 | 5.31 | 5.42 |
| 66578 | 'Mis18a' | 2.98 | 2.45 | 3.02 | 16.8 | 1.43 | 0 | 0 | 3.59 | 0 | 0 |
| 66580 | 'Esf1' | 9.61 | 14.98 | 10.8 | 13 | 8.09 | 10.15 | 14.3 | 5.35 | 2.99 | 7.28 |
| 66583 | 'Exosc1' | 13.42 | 15.54 | 10.6 | 21.5 | 24.5 | 22.11 | 13.2 | 19.47 | 28.33 | 21.3 |
| 66585 | 'Snrrp40' | 40.57 | 37.99 | 35.7 | 28.6 | 52 | 77.5 | 13.3 | 48.97 | 19.19 | 34.26 |
| 665858 | 'Gm7827' | 0 | 0 | 0 | 0 | 0.02 | 0.76 | 0.04 | 0.01 | 0.05 | 0 |
| 66586 | 'Crls1' | 5.63 | 1.74 | 3.04 | 0.11 | 5.78 | 3.09 | 0.92 | 3.27 | 4.79 | 1.45 |
| 66587 | 'Fastk' | 18.8 | 20.96 | 19.3 | 16.7 | 43 | 14 | 45.8 | 43.85 | 42.77 | 40.95 |
| 66588 | 'Cmpk1' | 44.51 | 52.71 | 53.2 | 53.1 | 69.6 | 47.62 | 41.4 | 70.37 | 67.01 | 57.8 |
| 66589 | 'Ube2v1' | 232.7 | 255.9 | 161 | 240 | 256 | 278.4 | 339 | 356.5 | 354 | 310.01 |
| 66590 | 'Farsa' | 35.87 | 24.43 | 41 | 64.4 | 39.7 | 55.08 | 32 | 28.76 | 44.26 | 29.83 |
| 66591 | 'Mad2l1bp' | 9.5 | 6.59 | 3.9 | 12.1 | 36.1 | 12.98 | 2.21 | 13.63 | 15.08 | 8.06 |
| 66592 | 'Stoml2' | 69.99 | 71.18 | 56.2 | 28.5 | 77.2 | 92.13 | 38.6 | 70.96 | 79.71 | 99.36 |
| 66593 | 'Diablo' | 42.74 | 21.43 | 14.9 | 19.6 | 20 | 14.33 | 20 | 11.45 | 26.55 | 27.46 |
| 66594 | 'Uqcr11' | 699.2 | 497.7 | 720 | 764 | 714 | 1206 | 673 | 624.2 | 833.4 | 674.92 |
| 66595 | 'Aste1' | 9.4 | 8.28 | 6.13 | 12.9 | 4.03 | 4.31 | 4.04 | 6.77 | 5.1 | 7.66 |
| 66596 | 'Gtf3a' | 34.82 | 39.61 | 37.8 | 79.2 | 6.09 | 45.55 | 27.5 | 46.96 | 63.89 | 88.69 |
| 66597 | 'Trim13' | 5 | 5.29 | 0.03 | 14.6 | 6.49 | 6.7 | 7.34 | 8.53 | 0 | 10.84 |
| 66598 | '66598' | 0.97 | 0 | 10 | 0 | 5.89 | 6.93 | 5.4 | 12.12 | 3.87 | 0 |
| 66599 | 'Rdm1' | 17.3 | 11.47 | 32.7 | 36 | 6.38 | 19.82 | 8.52 | 9.72 | 26.85 | 18.62 |
| 66603 | 'Gemin2' | 16.72 | 8.22 | 6.45 | 0.15 | 7.79 | 9.76 | 6.41 | 4.17 | 8.67 | 4.61 |
| 666048 | 'Trabd2b' | 0.01 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.02 | 0 | 0 | 0.01 |
| 66606 | 'Lrrc57' | 10.01 | 15.69 | 8.1 | 14.5 | 11.6 | 5.1 | 27.4 | 20.93 | 11.43 | 11.03 |
| 666060 | 'Frmppd1' | 0.74 | 0 | 2.88 | 0 | 0 | 0 | 3.94 | 1.91 | 0.24 | 0 |
| 66609 | 'Cryzl1' | 61.5 | 65.74 | 44.3 | 37 | 83.8 | 113.7 | 65 | 66.55 | 59.93 | 92.43 |
| 66610 | 'Abi3' | 4.55 | 0 | 0 | 0 | 0.05 | 3.69 | 0 | 0.02 | 1.78 | 0 |
| 66611 | 'Ribc1' | 0 | 0 | 0 | 0 | 0 | 0 | 1.23 | 0 | 0 | 0 |

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|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66612 | 'Ormdl3' | 88.41 | 108.1 | 60.9 | 92.3 | 103 | 63.3 | 72.6 | 115.3 | 82.34 | 103.21 |
| 66614 | 'Gpatch4' | 9.55 | 11.9 | 15.6 | 16.9 | 15.8 | 35.91 | 27.9 | 18.06 | 20.21 | 17.85 |
| 66615 | 'Atg4b' | 65.59 | 56.38 | 34.4 | 40.9 | 44.5 | 67.38 | 45.8 | 37.1 | 27.11 | 60.17 |
| 66616 | 'Snx9' | 0.03 | 1.07 | 0 | 8.06 | 1.36 | 0.04 | 5.17 | 5.16 | 0 | 1.89 |
| 666168 | 'Cyp4a31' | 0.02 | 0.02 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0.02 |
| 66617 | 'Ntmt1' | 88.81 | 65.95 | 51.9 | 57.3 | 78.2 | 58.23 | 43.8 | 88.93 | 52.24 | 85.2 |
| 666173 | 'Vps13b' | 0.95 | 3.57 | 3.7 | 6.37 | 2.09 | 1.58 | 8.02 | 2.88 | 2.83 | 3.17 |
| 66618 | 'Snrrp27' | 84.9 | 83.7 | 51.7 | 70 | 63.9 | 68.31 | 56.2 | 66.33 | 56.89 | 47.46 |
| 666190 | 'Gm7972' | 0 | 0 | 0.01 | 0.01 | 0 | 0.11 | 0 | 0.23 | 0.01 | 0 |
| 666209 | 'Gm7982' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 66622 | 'Ubr7' | 6.43 | 6.03 | 4.25 | 4.2 | 7.22 | 6.58 | 0.05 | 11.49 | 0.05 | 5.61 |
| 66624 | 'Spcs2' | 286.5 | 240.1 | 165 | 345 | 209 | 332.4 | 184 | 300.6 | 288.3 | 324.73 |
| 666244 | 'Tmsb15b1' | 3.65 | 10.74 | 16.7 | 8.76 | 13.6 | 0.5 | 7.33 | 1.05 | 0 | 2.71 |
| 66625 | 'Pnir' | 39.05 | 43.24 | 36.2 | 57.8 | 49.6 | 51.51 | 43.8 | 38.04 | 40.95 | 46.78 |
| 666253 | 'Gm8005' | 0 | 0 | 0.53 | 0 | 1.07 | 0 | 0 | 0 | 0 | 0 |
| 66626 | 'Cdipl1' | 170.2 | 237.5 | 259 | 125 | 157 | 195.3 | 129 | 208.5 | 235.3 | 214.13 |
| 66627 | 'Ogfod2' | 47.11 | 35.38 | 19.3 | 36.6 | 36.5 | 57.37 | 43.1 | 29.31 | 28.76 | 55.81 |
| 66628 | 'Thg1l' | 3.6 | 4.91 | 3.33 | 0 | 8.93 | 2.21 | 0.02 | 3.38 | 11.55 | 0.65 |
| 66629 | 'Golp3' | 15.39 | 10.27 | 17.6 | 22.1 | 4.99 | 12.17 | 9.84 | 4.18 | 6.91 | 8.31 |
| 66631 | 'Mfsd14b' | 17 | 12.15 | 13.6 | 11.7 | 20.7 | 6.59 | 24 | 13.98 | 18.57 | 15.48 |
| 666311 | 'Zscan25' | 0.09 | 0.09 | 0.05 | 0 | 0.77 | 0.05 | 0.08 | 0 | 0 | 0.13 |
| 66632 | 'Dph6' | 18.4 | 25.09 | 15.7 | 32.8 | 15.9 | 8.23 | 13.2 | 27.92 | 17.39 | 15.86 |
| 666329 | 'Gm3317' | 5 | 8.04 | 11.5 | 0 | 2.52 | 1.83 | 2.49 | 6.88 | 2.87 | 3.38 |
| 66634 | 'Mcm8' | 0.6 | 1.21 | 0.46 | 1.92 | 0.02 | 1.08 | 0.08 | 2.03 | 0.06 | 0.12 |
| 666348 | 'Apol7e' | 0.1 | 0.02 | 0 | 0.03 | 0.02 | 0 | 0.09 | 0 | 0 | 0.01 |
| 66637 | 'Tsen15' | 38.6 | 50.84 | 49 | 21.1 | 63.7 | 44.04 | 46.9 | 41.78 | 19.44 | 52.22 |
| 66641 | 'Sike1' | 8.05 | 9.34 | 3.27 | 4.78 | 5.29 | 4.48 | 5.24 | 8.24 | 4.02 | 9.06 |
| 66642 | 'Ctnnb1' | 31.19 | 37.41 | 13.5 | 45.4 | 55.5 | 15.4 | 23.5 | 41.43 | 8.63 | 19.99 |
| 666420 | 'Gm8094' | 0 | 1.01 | 0.55 | 0 | 1.77 | 0 | 3.28 | 0 | 0 | 0 |
| 66643 | 'Lix1' | 21.63 | 5.07 | 7.55 | 6.26 | 13.8 | 14.78 | 5.15 | 3.21 | 2.29 | 2.32 |
| 66645 | 'Pspc1' | 11.93 | 22.29 | 22.5 | 16.9 | 33.8 | 48.36 | 22.7 | 37.99 | 21.61 | 31.78 |
| 66646 | 'Rpe' | 2.42 | 6.97 | 8.51 | 11.7 | 14.2 | 12.22 | 6.43 | 7.87 | 12.31 | 4.45 |
| 666468 | 'Atg4a' | 1.48 | 8.99 | 5.24 | 4.75 | 0.68 | 7.17 | 0.21 | 1.87 | 0.04 | 0.83 |
| 66647 | 'Nsmce3' | 29.44 | 11.06 | 10 | 29.3 | 14.5 | 15.11 | 26.3 | 5.28 | 7.16 | 4.49 |
| 66648 | 'Tpgs2' | 21.47 | 23 | 13.2 | 27.7 | 16.3 | 11.24 | 4.12 | 18.73 | 23.44 | 12.79 |
| 666485 | 'Gm8127' | 0 | 0 | 0.1 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 |
| 666528 | 'Zfp541' | 0 | 0.32 | 0 | 0 | 0 | 0 | 1.85 | 0 | 0.24 | 0 |
| 66653 | 'Brf2' | 3.47 | 4.19 | 5.08 | 2.93 | 6.36 | 5.43 | 4.36 | 4.09 | 2.09 | 4.46 |
| 666532 | 'Zfp991' | 1.43 | 0 | 0 | 0.16 | 0.84 | 2.92 | 0 | 0.06 | 0.9 | 1.7 |
| 66656 | 'Eef1d' | 44.22 | 64.83 | 63 | 52.9 | 50.4 | 78.52 | 119 | 63.63 | 63.91 | 68.34 |
| 666561 | 'Gm8165' | 0 | 0 | 0.16 | 0 | 0.62 | 0 | 0 | 0 | 0 | 0 |
| 66658 | 'Ccdc51' | 3.75 | 2.04 | 8.59 | 6.51 | 0 | 2.88 | 0.64 | 1.9 | 0 | 0 |
| 666584 | 'BC024063' | 0 | 0 | 2.5 | 0 | 2.27 | 2.26 | 0 | 7.3 | 2.56 | 0 |
| 66659 | 'Acp6' | 31.33 | 8.11 | 7.09 | 26.8 | 8.63 | 8.37 | 0 | 8.17 | 13.55 | 11.35 |
| 66660 | 'Sltm' | 9.32 | 22.45 | 21.5 | 37.5 | 24.2 | 23.62 | 23.2 | 15.37 | 16.63 | 14.99 |
| 66661 | 'Srp72' | 26.07 | 29.15 | 29 | 34.4 | 30.6 | 23.58 | 44.5 | 26.3 | 36.32 | 36.96 |
| 66663 | 'Uba5' | 14.43 | 19.45 | 9.8 | 57.7 | 16.4 | 19.99 | 28.7 | 21.53 | 56.3 | 5.52 |
| 66664 | 'Tmem41a' | 42.3 | 22.15 | 44.3 | 18.6 | 24.1 | 42.84 | 67.1 | 24.31 | 34.14 | 41.68 |
| 66665 | 'Msantd3' | 0.86 | 5.16 | 2.85 | 0 | 4.22 | 4.61 | 9 | 0.82 | 2.77 | 0.33 |
| 666660 | 'Gm8220' | 0 | 0 | 0.57 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0.06 |
| 66667 | 'Hspbap1' | 1.81 | 0.02 | 0 | 0 | 2 | 6.11 | 0 | 1.1 | 0 | 1.47 |
| 666675 | 'Gm8229' | 0 | 0 | 0.14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 666678 | 'Gm8232' | 0 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 666704 | 'Samd1' | 1 | 0 | 0 | 0 | 0.86 | 1.76 | 0 | 1.59 | 0 | 1.71 |
| 66671 | 'Ccnh' | 42.59 | 24 | 31.6 | 27.3 | 36.8 | 46.14 | 23.4 | 47.29 | 36.14 | 26.5 |
| 666723 | 'Gm8256' | 0 | 0 | 0.42 | 0 | 0.78 | 0 | 0 | 0 | 0 | 0 |
| 66673 | 'Sorcs3' | 7.1 | 8.48 | 2.25 | 5.74 | 6.41 | 2.51 | 1.95 | 9.34 | 3.5 | 3.11 |
| 666731 | 'Trim43c' | 0 | 0.02 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|--------|------------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66674 | 'Spryd7' | 50.7 | 64.36 | 66.6 | 44 | 37.5 | 55.17 | 51.4 | 51.86 | 65.42 | 45.06 |
| 666747 | 'Trim43b' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0.28 | 0.02 | 0.1 |
| 666750 | 'Gm8271' | 0 | 0 | 0 | 0.19 | 0.44 | 0 | 0 | 0 | 0 | 0.07 |
| 66676 | 'Tmed7' | 6.9 | 3.44 | 3.73 | 37.8 | 3.27 | 1.72 | 6.88 | 2.66 | 0.81 | 1.84 |
| 66679 | 'Rae1' | 75.56 | 63.33 | 91.9 | 52.7 | 66.6 | 65.27 | 62.2 | 52.02 | 47.97 | 24.52 |
| 666794 | 'Rbm24' | 2.28 | 8.68 | 1.39 | 1.73 | 1.62 | 3.51 | 2.23 | 3.3 | 0.01 | 2.04 |
| 66680 | 'Oser1' | 25.55 | 46.09 | 22.8 | 77.7 | 41.9 | 34.18 | 13.8 | 22.95 | 31.77 | 32.15 |
| 666808 | 'Gm10410' | 0.04 | 0.88 | 2 | 0.35 | 1.65 | 1.49 | 0.05 | 0 | 0.92 | 0.78 |
| 66681 | 'Pgm1' | 1.8 | 0.88 | 0 | 0.12 | 6.85 | 3.7 | 5.42 | 2.53 | 2.65 | 3.6 |
| 66682 | 'Trappc5' | 68.4 | 34.61 | 19.3 | 24.5 | 41.5 | 45.64 | 33.4 | 34.44 | 22.69 | 70.34 |
| 66684 | 'Tceal8' | 22.88 | 27.92 | 33.8 | 95.7 | 34 | 25.53 | 45.9 | 20.61 | 20.57 | 21.25 |
| 66686 | 'Dcbl1' | 0 | 1.71 | 1.4 | 1.46 | 1.32 | 0 | 15.6 | 3.21 | 7.97 | 0 |
| 66687 | 'Tbc1d15' | 3.8 | 24.92 | 8.93 | 44.1 | 13.3 | 13.73 | 21.3 | 19.06 | 30.38 | 15.64 |
| 66689 | 'Klhl28' | 0.1 | 4.52 | 0.12 | 9.74 | 9.84 | 4.75 | 14.2 | 0.85 | 0.94 | 5.18 |
| 66690 | 'Tmem186' | 22.12 | 13.41 | 19 | 0.04 | 4.16 | 0.52 | 5.52 | 20.02 | 27.53 | 7.24 |
| 66691 | 'Gapvd1' | 11.7 | 13.52 | 9.79 | 9.94 | 9.29 | 13.87 | 13.8 | 4.66 | 6.88 | 14.69 |
| 666938 | 'Bend4' | 3.62 | 0.03 | 2.92 | 0 | 0.86 | 2.23 | 2.05 | 1.89 | 1.6 | 2.09 |
| 66694 | 'Uqcrcf1' | 213.2 | 183.4 | 238 | 151 | 230 | 254.7 | 213 | 210.3 | 242.2 | 237.06 |
| 66696 | 'Snx31' | 0 | 0 | 0 | 3.24 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66700 | 'Chmp3' | 36.65 | 37.19 | 59.8 | 60.4 | 57.9 | 59.16 | 66.2 | 52.91 | 63.76 | 56.21 |
| 66701 | 'Spryd4' | 15.33 | 1.58 | 10.2 | 11.8 | 10.5 | 13.63 | 45.8 | 4.98 | 7.88 | 2.86 |
| 667034 | 'Pnp2' | 10.96 | 5.39 | 13.6 | 21.7 | 16.9 | 39.78 | 0.05 | 15.43 | 4.77 | 15.64 |
| 66704 | 'Rbm4b' | 51.77 | 27.4 | 27.2 | 23 | 39.3 | 42.79 | 50.7 | 42.36 | 59.57 | 45.8 |
| 66705 | 'Dnase1l2' | 0 | 0.32 | 0.06 | 0 | 0.06 | 8.44 | 0 | 4.57 | 0.12 | 0 |
| 667055 | 'Unc93a2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 |
| 66706 | 'Ndufaf3' | 99.36 | 91.97 | 74 | 65.5 | 104 | 112.6 | 73.2 | 85.82 | 53.71 | 99.94 |
| 667060 | 'Vmn2r5' | 0 | 0.06 | 0.16 | 0 | 0 | 0.15 | 0 | 0 | 0 | 0 |
| 667069 | 'Vmn2r6' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66707 | 'Nkapl' | 3.57 | 2.01 | 1.44 | 0 | 0 | 10.97 | 0 | 1.85 | 3.62 | 4.05 |
| 667094 | 'Gm8453' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 667103 | 'Gm13570' | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 | 0 |
| 66711 | 'Sbds' | 81.71 | 78.73 | 90.4 | 128 | 105 | 115.5 | 64.3 | 102.7 | 122 | 113.72 |
| 667118 | 'Zbed6' | 1.13 | 0.54 | 0.55 | 1.81 | 0.13 | 0.02 | 0.14 | 0.44 | 0.38 | 0.72 |
| 66713 | 'Actr2' | 49.81 | 31.94 | 44.5 | 34.1 | 70.3 | 24.76 | 33.9 | 60.76 | 53.51 | 57.84 |
| 66714 | '4921524J17Rik' | 19.91 | 11.65 | 17.1 | 25.9 | 8.7 | 19.22 | 5.64 | 14.93 | 15.58 | 16.5 |
| 66715 | 'Henmt1' | 0.13 | 0 | 0 | 0.02 | 3.83 | 0 | 4.61 | 1.67 | 4.33 | 0.01 |
| 66717 | 'Ccadc96' | 2.89 | 2.61 | 0 | 10.1 | 1.55 | 0 | 0 | 0 | 0.54 | 4.16 |
| 66720 | 'Klhl10' | 21.71 | 24.23 | 29.1 | 29.5 | 19.4 | 19.97 | 36 | 19.68 | 30.43 | 26.98 |
| 667214 | '9930111J21Rik1' | 0.34 | 0.23 | 0.08 | 0.81 | 0.14 | 1.49 | 0.37 | 0.09 | 0.15 | 0.23 |
| 66722 | 'Spag16' | 6.18 | 10.28 | 0.03 | 11.3 | 7.34 | 3 | 0.08 | 0.36 | 3.93 | 0.99 |
| 66724 | 'Tab3' | 0 | 0.16 | 0.06 | 0 | 1.24 | 0 | 0 | 0.28 | 0.01 | 0 |
| 667240 | 'Vmn1r121' | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66725 | 'Lrrk2' | 0.01 | 0.01 | 1.84 | 0.01 | 0.25 | 0 | 2.54 | 0.09 | 1.29 | 1.07 |
| 667250 | 'Gm12657' | 2.03 | 3.6 | 3.15 | 3.05 | 1.46 | 2.05 | 5.52 | 1.53 | 1.07 | 1.4 |
| 667259 | 'Vmn1r118' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66729 | 'Ankrd61' | 0 | 0 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 667292 | 'Vmn1r111' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66732 | '4921530L21Rik' | 0 | 0.53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66733 | 'Kcng4' | 0 | 0.28 | 6.12 | 0 | 6.75 | 0 | 0 | 0 | 0.01 | 2.33 |
| 66734 | 'Map1lc3a' | 404.9 | 227.6 | 398 | 393 | 266 | 229.3 | 339 | 287.6 | 307.5 | 88.85 |
| 66736 | 'Emc2' | 76.68 | 74.01 | 73.3 | 79.7 | 104 | 54.83 | 31.6 | 74.05 | 57.84 | 62.56 |
| 667370 | 'Ifit3b' | 0 | 0 | 14.5 | 31.5 | 2.3 | 0 | 0.03 | 2.88 | 2.8 | 0 |
| 667373 | 'Ifit1bl1' | 4.88 | 0 | 0.04 | 0 | 0.07 | 6.77 | 5.46 | 1.52 | 0 | 0 |
| 667378 | 'Gm8600' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.01 | 0 |
| 66740 | '4931417E11Rik' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66743 | 'Rnf220' | 30.69 | 29.08 | 14.3 | 9.3 | 33.9 | 5.19 | 22.2 | 18.13 | 13.57 | 30.84 |
| 66748 | 'Erich2' | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 | 0.07 | 2.36 | 0 |
| 66753 | 'Erlec1' | 15.24 | 27.83 | 16.8 | 21.2 | 23.8 | 20.59 | 7.69 | 18.22 | 14.45 | 22.65 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66756 | 'Cfap97' | 3.62 | 3.8 | 3.37 | 8.38 | 4.37 | 2.25 | 9.43 | 6.46 | 9.21 | 3.76 |
| 66757 | 'Adat2' | 2.25 | 0.07 | 0.1 | 0.05 | 6.51 | 0.03 | 4.98 | 0 | 3.21 | 0.03 |
| 667570 | 'Gm8708' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.01 | 0 |
| 66761 | '4933417A18Rik' | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66763 | '4933425L06Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.32 |
| 66765 | '4933411K16Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.13 |
| 667663 | 'Myo3a' | 0 | 0 | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66768 | 'Pacrgl' | 3.14 | 4.76 | 2.7 | 29.3 | 1.53 | 0.03 | 0.83 | 0 | 4.47 | 0 |
| 66771 | 'Gid4' | 9.49 | 6.26 | 5.57 | 6.54 | 4.87 | 4.32 | 7.04 | 4.14 | 2.97 | 2.34 |
| 66773 | 'Gm17019' | 0.11 | 0.13 | 0.14 | 0 | 0.17 | 0.56 | 0.28 | 0 | 0 | 0.06 |
| 667742 | 'Piezo2' | 1.31 | 0 | 0 | 0.09 | 0.16 | 0 | 0.01 | 0 | 0 | 0.04 |
| 66775 | 'Hacd4' | 0 | 0 | 3.03 | 3.82 | 0 | 0 | 0 | 0.79 | 0 | 1.84 |
| 667772 | 'Myh15' | 0 | 0.18 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 667803 | 'H2-T-ps' | 0.18 | 6.08 | 4.06 | 1.76 | 0 | 0.19 | 0 | 0.08 | 1.58 | 6.9 |
| 667823 | 'Trim5' | 0 | 2.35 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 66784 | 'Fam187a' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66787 | 'Gskip' | 56.66 | 52.48 | 43.8 | 15.6 | 48.6 | 38.48 | 39.3 | 63.94 | 30.02 | 49.82 |
| 66789 | 'Alg14' | 19.1 | 49.93 | 8.17 | 32.6 | 16.4 | 26.88 | 24.4 | 27.53 | 42.29 | 73.53 |
| 66790 | 'Grtp1' | 5.78 | 10.8 | 6.11 | 0.27 | 0.04 | 0 | 3.66 | 15.03 | 0.62 | 7.44 |
| 66793 | 'Efcab1' | 39.57 | 31.42 | 16.6 | 18.7 | 23.9 | 35.64 | 18.8 | 28.21 | 19.37 | 39.6 |
| 66795 | 'Atg10' | 19.7 | 11.97 | 23.5 | 33 | 17.6 | 18.11 | 11.1 | 16.54 | 9.18 | 36.19 |
| 667962 | 'Zfp966' | 2.12 | 0.9 | 0 | 1.8 | 1.28 | 0.09 | 0.51 | 1.25 | 0.54 | 1.11 |
| 66797 | 'Cntnap2' | 101 | 33.93 | 58.3 | 55 | 25.6 | 62.99 | 39 | 109.9 | 11.15 | 20.2 |
| 667977 | 'Gm8909' | 0.02 | 0.08 | 0.18 | 2.68 | 1.92 | 0.1 | 0 | 0.09 | 1.19 | 0.07 |
| 66799 | 'Ube2w' | 35.56 | 45.55 | 19.2 | 38.3 | 31.2 | 24.46 | 35.1 | 28.87 | 36.23 | 32.27 |
| 66801 | 'Prkrip1' | 13.31 | 20.56 | 19 | 2.5 | 17.8 | 16.25 | 20.5 | 24.4 | 25.23 | 25.07 |
| 668035 | 'Olfr687' | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 |
| 668039 | 'Gm14434' | 0 | 0.4 | 0 | 0 | 0.97 | 0 | 0 | 0.26 | 1.92 | 0.3 |
| 66808 | '9030624G23Rik' | 0.36 | 0.53 | 1.46 | 1.12 | 0.73 | 0.54 | 3.06 | 3.39 | 8.15 | 0.39 |
| 66809 | 'Krt20' | 1.56 | 2.74 | 0 | 0 | 2.99 | 0 | 0 | 0.14 | 0 | 0 |
| 66810 | 'Rbm22' | 6.89 | 11.93 | 8.21 | 33 | 9.69 | 6.37 | 1.54 | 9.85 | 15.1 | 17.26 |
| 668110 | 'Syce1l' | 0 | 0 | 1.12 | 0 | 0.47 | 0 | 0 | 0 | 0 | 0 |
| 66812 | 'Ppcdc' | 10.07 | 8.63 | 7.82 | 14.6 | 5.87 | 28.43 | 18.8 | 18.85 | 20.39 | 5.57 |
| 668137 | 'Gm8994' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66815 | 'Mcub' | 3.04 | 0 | 0 | 0 | 34.4 | 0.04 | 0 | 0 | 4.02 | 10.63 |
| 668158 | 'Ccdc85c' | 5.08 | 2.92 | 8.64 | 8.14 | 4.18 | 1.11 | 4.37 | 2.79 | 8.94 | 7.38 |
| 66816 | 'Thap2' | 0.41 | 1.11 | 2.99 | 2.41 | 1.8 | 1.18 | 0.23 | 3.11 | 0.42 | 0.51 |
| 668166 | 'Zxdb' | 0.33 | 1.15 | 0.21 | 0 | 0 | 0.17 | 0 | 0.2 | 1.32 | 1.31 |
| 66817 | 'Tmem170' | 0.76 | 3.34 | 0.75 | 1.99 | 6 | 4.65 | 1.7 | 2.59 | 6.08 | 2.27 |
| 668173 | 'Pex10' | 12.99 | 12.47 | 11.4 | 11.3 | 13.2 | 3.64 | 17.2 | 12.85 | 17.64 | 15.33 |
| 66818 | 'Smim7' | 27.27 | 24.35 | 32.9 | 38.4 | 38.5 | 36.28 | 31.6 | 38.3 | 17.2 | 36.72 |
| 668208 | 'Gm13288' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 66821 | 'Bcs1l' | 15.95 | 28.02 | 9.65 | 19 | 6.52 | 40.72 | 29.7 | 31.21 | 21.54 | 15.73 |
| 668212 | 'Efr3b' | 7.19 | 4.17 | 15.8 | 10.7 | 6.55 | 5.07 | 13.9 | 4.97 | 7.94 | 8.18 |
| 668218 | 'Bin2' | 5.25 | 2.82 | 0.05 | 18.9 | 9.7 | 42.15 | 6.61 | 0.76 | 0 | 3.11 |
| 66822 | 'Fbxo25' | 70.84 | 51.93 | 39.4 | 33.5 | 47.1 | 53.69 | 40.5 | 113.5 | 52.06 | 77 |
| 668225 | 'Fignl2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0.27 | 0 |
| 66824 | 'Pycard' | 2.66 | 1.48 | 1.87 | 2.48 | 0.62 | 6.32 | 1.29 | 0.11 | 9.53 | 1.89 |
| 66826 | 'Taz' | 60.68 | 50.28 | 50.4 | 51.1 | 105 | 105.7 | 51.4 | 77.88 | 63.13 | 106.81 |
| 66827 | 'Ttc1' | 82.84 | 68.8 | 71.5 | 108 | 67 | 64.4 | 82.2 | 62.81 | 114.7 | 69.27 |
| 66830 | 'Nacc1' | 1.34 | 0.17 | 1.32 | 0.01 | 1.8 | 0.34 | 1.05 | 1.23 | 2.18 | 1.63 |
| 668303 | 'Kif26a' | 0.4 | 0.27 | 0.01 | 1.4 | 0.37 | 0.57 | 0.86 | 0.14 | 0.01 | 0.05 |
| 668310 | 'Cc2d2b' | 0 | 0.24 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 66832 | 'Rsph3a' | 16.85 | 30.05 | 33.9 | 25 | 18.4 | 35.66 | 25.3 | 27.39 | 28.31 | 20.74 |
| 668339 | 'Gm9112' | 0 | 7.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66834 | 'Acot13' | 152.9 | 160.3 | 130 | 302 | 127 | 233.1 | 160 | 227.8 | 196.2 | 272.21 |
| 66836 | 'Tmem223' | 137.1 | 86.02 | 49.9 | 72.4 | 50 | 112.1 | 127 | 77.48 | 92.62 | 113.95 |
| 66839 | 'Dele1' | 29.55 | 12.5 | 26.7 | 3.85 | 18.2 | 11.77 | 9.91 | 12.45 | 23.26 | 33.59 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66840 | 'Wdr45b' | 44.9 | 45.29 | 48.3 | 55.8 | 54.6 | 54.64 | 44 | 58.99 | 50.95 | 70.14 |
| 66841 | 'Etfdh' | 29.13 | 26.51 | 11.5 | 34.3 | 25.1 | 9.7 | 36 | 19.1 | 9.3 | 28.95 |
| 66844 | 'Ormdl2' | 17.9 | 24.97 | 12.1 | 9.36 | 12.2 | 6.49 | 15.8 | 7.46 | 21.43 | 10.56 |
| 66845 | 'Mrpl33' | 121.5 | 134.7 | 137 | 305 | 117 | 144.1 | 143 | 96.59 | 134.9 | 132.03 |
| 66847 | 'Hint3' | 7.82 | 10.29 | 5.5 | 0.09 | 9.12 | 0 | 9.23 | 8.22 | 8.95 | 21 |
| 66848 | 'Fuca2' | 30.24 | 35.41 | 40.9 | 30.7 | 28.9 | 53.6 | 20.7 | 39.32 | 40.87 | 59.13 |
| 66849 | 'Ppp1r2' | 29.76 | 41.42 | 47 | 49.1 | 22.8 | 27.98 | 24.6 | 28.02 | 51.99 | 26 |
| 668501 | 'Zfp507' | 2.73 | 1.12 | 1.01 | 4.04 | 0.07 | 1.2 | 0 | 0.31 | 3.01 | 0.59 |
| 66853 | 'Pnpla2' | 8.38 | 19 | 12.8 | 18 | 6.74 | 2.73 | 3.47 | 16.85 | 6.25 | 4.72 |
| 66854 | 'Trim35' | 80.8 | 89.72 | 66.5 | 75 | 67.9 | 37.69 | 46.8 | 118.2 | 100 | 95.37 |
| 66855 | 'Tcf25' | 273.4 | 285 | 376 | 130 | 286 | 234.9 | 373 | 332.6 | 277.8 | 246.84 |
| 66857 | 'Plbd1' | 0.16 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 |
| 668588 | 'Gm9257' | 0.54 | 0.07 | 1.09 | 0 | 0.15 | 0.37 | 0.22 | 0.51 | 2.56 | 0.33 |
| 66859 | 'Slc16a9' | 0 | 0.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66860 | 'Tanc1' | 0.12 | 0 | 0 | 1.07 | 0.02 | 0.1 | 0.06 | 0.48 | 0.68 | 0 |
| 668605 | 'Gm9265' | 0.05 | 0.09 | 0 | 0 | 0.82 | 0 | 0.09 | 0.26 | 0.12 | 0.02 |
| 66861 | 'Dnajt10' | 13.31 | 34.93 | 44.3 | 14.9 | 35.2 | 8.45 | 26.4 | 33.85 | 46.17 | 33.51 |
| 668620 | 'Zfp936' | 0.03 | 0.02 | 0.03 | 0 | 0.05 | 0 | 0 | 0.09 | 0 | 0.1 |
| 66863 | 'Lztr1' | 40.86 | 36.7 | 39.3 | 54.6 | 48.9 | 22.23 | 40.8 | 62.8 | 56.37 | 44.44 |
| 66864 | 'Clec14a' | 0 | 0 | 0 | 0 | 0 | 0 | 2.73 | 0 | 0 | 0 |
| 66865 | 'Pmpca' | 32.86 | 32.97 | 35.3 | 56.4 | 32.9 | 31.72 | 28.4 | 30.56 | 48.79 | 24.4 |
| 66866 | 'Nhirc2' | 4.41 | 2.01 | 4.7 | 0.68 | 1.58 | 6.33 | 1.59 | 0.21 | 2.97 | 4.77 |
| 668661 | '2410002F23Rik' | 97.19 | 122.8 | 138 | 71.3 | 70.2 | 107.3 | 176 | 117.7 | 138.9 | 136.41 |
| 66867 | 'Hmg20a' | 44.11 | 35.28 | 42.4 | 23.2 | 25.1 | 21.18 | 36.6 | 19.62 | 15.64 | 32.93 |
| 66868 | 'Mfsd1' | 12.21 | 12.56 | 11.6 | 5.28 | 14.6 | 9.99 | 5.1 | 5.56 | 41.55 | 18.83 |
| 66869 | 'Zfp869' | 15.03 | 13.81 | 16.2 | 18.1 | 12.5 | 3.36 | 13 | 6.9 | 15.34 | 11.55 |
| 66870 | 'Serbp1' | 18.47 | 21.17 | 16 | 40.5 | 14 | 20.43 | 31.5 | 20.18 | 19.12 | 14.9 |
| 66871 | 'Cpne8' | 5.73 | 12.24 | 11.7 | 43.6 | 56.7 | 24.74 | 20.3 | 11.22 | 32.9 | 14.8 |
| 668725 | 'Mrgpra9' | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66873 | 'Tril' | 1.56 | 6.83 | 5.04 | 0.01 | 1.41 | 5.56 | 12.6 | 7.66 | 3.99 | 1.19 |
| 66874 | 'Ncbp3' | 1.92 | 3.76 | 1.71 | 2.55 | 4.16 | 1.81 | 1.28 | 6.15 | 0.39 | 2.01 |
| 66875 | 'Swt1' | 4.43 | 3.92 | 1.33 | 3.95 | 2.44 | 1.25 | 6.33 | 2.36 | 3.48 | 0.88 |
| 66877 | 'Crnkl1' | 4.31 | 4.46 | 5.55 | 13.8 | 2.32 | 1.7 | 10.1 | 5.43 | 2.42 | 3.51 |
| 66878 | 'Riok3' | 20.56 | 15.88 | 11.9 | 25.9 | 12.5 | 11.91 | 10.2 | 10.86 | 12.91 | 24.75 |
| 66880 | 'Rsrc1' | 19.74 | 22.49 | 38.2 | 48.9 | 28.9 | 17.91 | 35.4 | 29.46 | 31.96 | 22.21 |
| 66881 | 'Pcyox1' | 41.03 | 66.31 | 46.2 | 17.8 | 51.8 | 29.08 | 31.9 | 42.78 | 66.79 | 53.07 |
| 66882 | 'Bzw1' | 32.51 | 44.63 | 41.6 | 26.5 | 39.3 | 9.77 | 36.4 | 25.02 | 27.44 | 23.31 |
| 66884 | 'Appbp2' | 20.49 | 16.5 | 11.3 | 29.3 | 18 | 64.79 | 17.5 | 25.05 | 30.46 | 25.22 |
| 66885 | 'Acadsb' | 39.94 | 30.92 | 30 | 19.7 | 37.3 | 29.13 | 34.4 | 24.21 | 26.61 | 26.55 |
| 66887 | 'Lonp2' | 48.71 | 54.86 | 74.3 | 37.2 | 55.1 | 74.73 | 74.8 | 65.03 | 115.6 | 107.38 |
| 668880 | 'Stard9' | 0 | 0.12 | 0.48 | 0.38 | 0.04 | 0.6 | 0.55 | 0.21 | 0.24 | 0.1 |
| 66889 | 'Rnf128' | 18.31 | 56.01 | 49 | 30.1 | 39.3 | 60.25 | 42.1 | 16.32 | 118.7 | 19.62 |
| 668894 | 'Gm14025' | 2 | 0.31 | 0.45 | 0.97 | 0.08 | 0.07 | 0.08 | 0.03 | 0.76 | 0.02 |
| 66890 | 'Lman2' | 38.49 | 29.87 | 26.9 | 22.7 | 17.7 | 30.73 | 34.7 | 27.15 | 65.19 | 41.6 |
| 66892 | 'Eif4e3' | 9.57 | 7.84 | 1.33 | 2.03 | 6.8 | 6.28 | 3.37 | 3.43 | 1.95 | 8.55 |
| 668923 | 'Zfp442' | 1.38 | 4.44 | 2.01 | 1.43 | 3.92 | 2.15 | 0.41 | 0.55 | 4.06 | 2.77 |
| 668929 | 'Rad21l' | 0.97 | 5.07 | 0.87 | 0 | 1.12 | 2.39 | 2.97 | 2.47 | 2.69 | 0.92 |
| 66894 | 'Wwp2' | 13.5 | 16.59 | 8.87 | 8.44 | 16.2 | 15.04 | 7.5 | 17.19 | 28.57 | 10.88 |
| 668940 | 'Myh7b' | 1.89 | 1.47 | 2.35 | 0.12 | 2.09 | 2.43 | 4.78 | 1.75 | 1.44 | 0.9 |
| 66895 | 'Pxdc1' | 0 | 0 | 3.49 | 0 | 0 | 0 | 0 | 1.4 | 0.05 | 0 |
| 66897 | 'Naa16' | 10.53 | 4.04 | 2.09 | 0.61 | 6.25 | 4.83 | 0.78 | 6.09 | 3.69 | 10.46 |
| 66898 | 'Baiap21l' | 0 | 0 | 0.54 | 3.28 | 0 | 0.67 | 0 | 0 | 0 | 0.21 |
| 66899 | 'Fip11l' | 19.02 | 13.06 | 14.6 | 8.18 | 6.17 | 9.7 | 8.12 | 14.87 | 16.28 | 12.54 |
| 66901 | 'Proz' | 1.77 | 0.26 | 0 | 0 | 0.04 | 0 | 0.09 | 0.04 | 0.2 | 0.25 |
| 66902 | 'Mtap' | 3.47 | 2.76 | 7.42 | 6.46 | 0.77 | 6.68 | 15.5 | 5.72 | 3.03 | 14.5 |
| 66904 | 'Pccb' | 8.76 | 22.64 | 34.2 | 24.2 | 29.8 | 16.49 | 14.6 | 17.36 | 9.77 | 11.75 |
| 66905 | 'Plin3' | 1.65 | 3.38 | 1.27 | 0.16 | 3.92 | 0.11 | 1.58 | 1.97 | 0.48 | 0.04 |
| 66910 | 'Tmem107' | 25.85 | 21.87 | 15.9 | 39 | 20.1 | 68.41 | 23.1 | 28.11 | 16.79 | 65.62 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66911 | 'Nudt16l1' | 60.68 | 129.1 | 103 | 161 | 107 | 112.2 | 116 | 101.8 | 91.98 | 77.4 |
| 66912 | 'Bzw2' | 17.14 | 31.34 | 37 | 12.4 | 14.1 | 24.04 | 23.6 | 32.25 | 16.67 | 14.24 |
| 66913 | 'Kdelr2' | 71.53 | 71.51 | 37.4 | 101 | 62.9 | 23.33 | 46.7 | 44.7 | 45.41 | 59.03 |
| 66914 | 'Vps28' | 528.4 | 359.9 | 501 | 400 | 467 | 644 | 289 | 569.7 | 485.3 | 575.37 |
| 66915 | 'Cops9' | 297.8 | 349.3 | 319 | 383 | 296 | 595.6 | 193 | 160.6 | 339.2 | 199.33 |
| 66916 | 'Ndufb7' | 340 | 313.2 | 404 | 469 | 325 | 540.1 | 435 | 426.6 | 466.5 | 369.78 |
| 66917 | 'Chordc1' | 86.13 | 117.7 | 37.4 | 40.5 | 30.8 | 60.13 | 55.7 | 52.02 | 58.29 | 81.42 |
| 66921 | 'Prpf38b' | 18.32 | 20.6 | 22.6 | 30.2 | 10.2 | 7.8 | 20.5 | 15.53 | 10.1 | 9.4 |
| 66922 | 'Rras2' | 0 | 0.15 | 0.77 | 0 | 0.89 | 0 | 0.02 | 0 | 0.08 | 0.04 |
| 66923 | 'Pbrm1' | 3.57 | 5.31 | 3.56 | 4.86 | 6.59 | 3.89 | 3.06 | 6.22 | 4.55 | 4.43 |
| 66925 | 'Sdhd' | 288 | 238.7 | 277 | 218 | 257 | 391.2 | 217 | 245.8 | 201.6 | 320.19 |
| 66926 | 'Trmt6' | 14.58 | 4.15 | 13.3 | 12.9 | 9.74 | 6.77 | 11.5 | 8.46 | 12.29 | 10.24 |
| 66928 | 'Dmac1' | 74.86 | 78.66 | 43.2 | 53.1 | 75.1 | 85.89 | 68.4 | 62.29 | 53.55 | 37.56 |
| 66929 | 'Asf1b' | 0 | 0 | 3.62 | 11.4 | 9.7 | 0 | 0 | 0 | 0.05 | 0 |
| 66930 | 'Fank1' | 10.49 | 11.91 | 19.4 | 20.5 | 27.3 | 6.23 | 4.09 | 6.99 | 19.04 | 30.26 |
| 66931 | '1700010l14Rik' | 14.59 | 8.01 | 2.88 | 9.07 | 0.19 | 0.27 | 3.58 | 9.4 | 2.9 | 4.18 |
| 66932 | 'Rexo1' | 2.62 | 2.69 | 4.65 | 8.42 | 7.96 | 4.9 | 6.92 | 1.76 | 5.62 | 0.07 |
| 66934 | 'Dsn1' | 1.83 | 6.74 | 0.06 | 0 | 1.85 | 1.32 | 0.11 | 0.19 | 0.02 | 1.77 |
| 66935 | 'Cir1' | 13.6 | 18.62 | 24.1 | 14.3 | 24.2 | 16.76 | 14.3 | 9.09 | 9.09 | 9.82 |
| 66938 | 'Sh3d21' | 0 | 0.86 | 0.83 | 0 | 2.58 | 2.04 | 0.09 | 0 | 0 | 0 |
| 66939 | 'Aagab' | 52.2 | 18.92 | 17.3 | 16.9 | 42.8 | 14.74 | 46.4 | 48.24 | 42.84 | 58.02 |
| 66940 | 'Shisa5' | 69.47 | 94.16 | 63.3 | 157 | 61.5 | 153.2 | 95.9 | 153.7 | 205.2 | 194.49 |
| 66942 | 'Ddx18' | 13.24 | 14.95 | 14.5 | 26.1 | 12.7 | 12.73 | 23.9 | 9.37 | 19.31 | 11.04 |
| 66943 | 'Pqlc1' | 20.53 | 25 | 15.5 | 42.5 | 13.6 | 19.87 | 38.4 | 10.02 | 46.63 | 25.87 |
| 66945 | 'Sdha' | 284.1 | 328.6 | 371 | 216 | 296 | 404.9 | 353 | 361 | 373.6 | 412.68 |
| 66948 | 'Acad8' | 25.09 | 21.46 | 10.9 | 20.7 | 25.3 | 21.81 | 41.2 | 21.39 | 22.48 | 18.58 |
| 66949 | 'Trim59' | 0.03 | 5.66 | 0 | 0.29 | 0.22 | 0.32 | 0 | 0.83 | 0.01 | 1.23 |
| 66950 | 'Tmem206' | 9.56 | 22.16 | 15.2 | 19 | 11.6 | 18.35 | 15.6 | 13.09 | 19.49 | 19.21 |
| 66952 | '2310030G06Rik' | 0 | 3.48 | 2.97 | 0 | 1.42 | 4.6 | 0 | 7 | 10.12 | 2.64 |
| 66953 | 'Cdca7' | 0 | 0 | 0 | 0 | 0 | 0 | 3.78 | 0 | 0 | 2.59 |
| 66958 | 'Tmx2' | 456 | 396.5 | 419 | 275 | 395 | 524.1 | 531 | 500.6 | 414.4 | 527.6 |
| 66959 | 'Dusp26' | 171.6 | 219.3 | 162 | 167 | 193 | 225.3 | 239 | 149.9 | 219.3 | 141.97 |
| 66960 | 'Mindy3' | 10.22 | 10 | 14.7 | 27.6 | 11.6 | 25.79 | 4.69 | 12.45 | 16.19 | 12.03 |
| 66962 | 'Swsap1' | 19.11 | 19.71 | 3.48 | 6.64 | 11 | 12.33 | 0.16 | 14.81 | 18.88 | 4.17 |
| 66964 | 'Golt1b' | 69.27 | 48.85 | 35.7 | 73.3 | 63 | 57.13 | 24.4 | 69.5 | 50.9 | 75.64 |
| 66965 | 'Ctu2' | 17.23 | 16.71 | 21.6 | 6.67 | 7.19 | 14.13 | 11.4 | 31.52 | 26.44 | 20.93 |
| 66966 | 'Trit1' | 10.44 | 10.52 | 4.09 | 9.31 | 1.68 | 1.67 | 8.7 | 11.53 | 11.6 | 12.45 |
| 66967 | 'Edem3' | 1.64 | 2.69 | 3.3 | 5.18 | 1.63 | 1.23 | 0.58 | 1.34 | 2.29 | 1.19 |
| 66968 | 'Plin5' | 3.44 | 2.42 | 3.81 | 5.35 | 0 | 15.77 | 0.03 | 3.32 | 0.03 | 0 |
| 66970 | 'Ssbp2' | 76.34 | 48.78 | 96.7 | 33.2 | 92.7 | 60.6 | 40.5 | 38.7 | 51.29 | 63.19 |
| 66971 | 'Cdk5rap1' | 14.65 | 8.82 | 2.32 | 2.87 | 11.8 | 6.19 | 4.86 | 6.79 | 11.96 | 11.48 |
| 66972 | 'Slc25a23' | 5.58 | 5.22 | 8.7 | 3.58 | 10.2 | 2.32 | 6.62 | 3.9 | 8.3 | 1.95 |
| 66973 | 'Mrps18b' | 36.65 | 52.66 | 55.8 | 61.2 | 60.2 | 89.67 | 26.6 | 44.85 | 32.76 | 55.66 |
| 66975 | 'Trappc13' | 36.27 | 33.9 | 25.2 | 15.7 | 24 | 11.17 | 23.3 | 33.22 | 25.93 | 45.12 |
| 66977 | 'Nuf2' | 0.96 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 |
| 66978 | 'Luc7l' | 23.4 | 17.59 | 22.1 | 16.7 | 22.5 | 26.61 | 18.1 | 15.7 | 24.7 | 24.7 |
| 66979 | 'Pole4' | 20.13 | 12.58 | 13.1 | 35.9 | 35.2 | 35.43 | 14.9 | 16.62 | 40.44 | 9.09 |
| 66980 | 'Zdhhc6' | 19.3 | 16.35 | 17.7 | 5.75 | 38.8 | 5.41 | 19.6 | 41.08 | 44.74 | 21.22 |
| 66983 | 'Zfp830' | 4.15 | 4.52 | 7.35 | 3.8 | 8.44 | 1.61 | 2.09 | 4.15 | 7.38 | 1.34 |
| 66985 | 'Rassf7' | 0 | 2.03 | 0 | 0 | 5.16 | 0.03 | 0 | 3.41 | 4.95 | 4.5 |
| 66988 | 'Lap3' | 13.22 | 20.36 | 13.8 | 26.3 | 14 | 17.59 | 49.7 | 17.7 | 16.96 | 15.78 |
| 66989 | 'Kctd20' | 27.86 | 18.59 | 22.2 | 20.9 | 22.9 | 7.83 | 16.6 | 18.44 | 17.09 | 20.72 |
| 66990 | 'Tmem134' | 20.56 | 21.73 | 10.8 | 11.4 | 14.9 | 27.16 | 21.9 | 10.27 | 10.78 | 10.42 |
| 66991 | 'Khdc3' | 0.29 | 1.15 | 0 | 3.13 | 0 | 0 | 0 | 0 | 0.57 | 0 |
| 66993 | 'Smarcd3' | 14.68 | 4.43 | 8.57 | 12.1 | 17.4 | 12.82 | 10.3 | 16.77 | 12.13 | 7.13 |
| 66994 | 'Cep19' | 65.07 | 43.28 | 41.7 | 81.9 | 40 | 54.1 | 71.3 | 64.22 | 46.09 | 78.77 |
| 66995 | 'Zcchc18' | 825.2 | 993.1 | 812 | 981 | 754 | 795.7 | 880 | 1085 | 832.9 | 711.76 |
| 66997 | 'Psmid12' | 114.2 | 122.4 | 125 | 138 | 142 | 151.5 | 86 | 137.9 | 108.5 | 119.46 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 66998 | 'Psm5' | 55.73 | 77.78 | 69.5 | 69.7 | 69.8 | 83.38 | 73.9 | 79.23 | 64.96 | 83.29 |
| 66999 | 'Med28' | 53.84 | 52.84 | 40.2 | 76.5 | 63.2 | 66.37 | 43.2 | 63.05 | 54.91 | 67.69 |
| 67003 | 'Uqcr2' | 141.9 | 183.2 | 200 | 136 | 153 | 184.3 | 211 | 224.5 | 158.8 | 197.75 |
| 67005 | 'Polr3k' | 18.67 | 32.06 | 22 | 30.9 | 29.4 | 51.67 | 31.7 | 25.3 | 33.68 | 31.69 |
| 67006 | 'Cisd2' | 35.8 | 34.23 | 24.9 | 28.3 | 16.8 | 18.71 | 29.5 | 25.71 | 26.27 | 29.19 |
| 67008 | 'Yae1d1' | 9.86 | 11.6 | 5.41 | 0.02 | 12 | 29.11 | 12.1 | 11.79 | 8.68 | 21.03 |
| 67009 | 'Ttc23' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.56 |
| 67010 | 'Rbm7' | 23.74 | 15.57 | 8.04 | 35.3 | 21.3 | 22.93 | 15.1 | 27.8 | 13.81 | 23.58 |
| 67011 | 'Mettl6' | 0.02 | 7.97 | 11.3 | 32.1 | 16.3 | 4.11 | 6.29 | 12.03 | 5.47 | 10.7 |
| 67013 | 'Oma1' | 8.84 | 2.14 | 10 | 0.02 | 8 | 12.36 | 0.21 | 7.72 | 3.77 | 4.57 |
| 67014 | 'Riox2' | 8.99 | 19.75 | 2.94 | 3.55 | 7.63 | 11.57 | 9.78 | 8.43 | 11.76 | 17.91 |
| 67015 | 'Ccxc91' | 28.67 | 22.34 | 19.9 | 9.22 | 20.6 | 23.51 | 19.1 | 38.82 | 49.65 | 31.39 |
| 67016 | 'Tbc1d2b' | 1.54 | 0.09 | 0 | 0.13 | 0.19 | 0 | 0.04 | 0.45 | 2.12 | 0 |
| 67017 | 'Fam210b' | 6.39 | 3.52 | 5.59 | 14.7 | 8.55 | 10.98 | 4.32 | 9.23 | 4.22 | 6.43 |
| 67019 | 'Actr6' | 25.9 | 35.12 | 20.2 | 31.2 | 25.6 | 10.51 | 15.1 | 24.07 | 38.01 | 40.36 |
| 67020 | 'Tmem88' | 0.05 | 0.28 | 1.82 | 2.6 | 0.18 | 0.27 | 0.07 | 1.35 | 0.09 | 0.23 |
| 67023 | 'Use1' | 104.7 | 87.48 | 72.9 | 118 | 75 | 94.48 | 68.5 | 92.63 | 109.9 | 120.56 |
| 67025 | 'Rpl11' | 249.3 | 270.4 | 245 | 342 | 247 | 322.8 | 365 | 221.6 | 148.3 | 251.92 |
| 67026 | 'Thap4' | 12.87 | 11.49 | 15.8 | 21.9 | 29.2 | 46.46 | 24 | 19 | 15.01 | 19.24 |
| 67027 | 'Mkrn2' | 17.85 | 16.31 | 14.3 | 12.6 | 8.38 | 8.52 | 10.8 | 9.34 | 19.44 | 5.14 |
| 67028 | '2610002M06Rik' | 4.86 | 3.39 | 6.03 | 6.42 | 6.13 | 1.59 | 7.53 | 5.59 | 1.51 | 4.35 |
| 67030 | 'Fanc1' | 7.51 | 12.08 | 7.13 | 0.14 | 13.1 | 6.87 | 0.6 | 4.23 | 6.2 | 5.44 |
| 67031 | 'Upf3a' | 4 | 1.84 | 10.6 | 15.2 | 13.8 | 11.51 | 8.42 | 5.67 | 6.48 | 5.47 |
| 67035 | 'Dnajb4' | 49.49 | 45.59 | 28.3 | 52.6 | 42.9 | 41.52 | 35.6 | 39.69 | 45.17 | 55.77 |
| 670358 | 'Gm9484' | 0 | 1.82 | 0 | 0 | 0 | 0.25 | 0 | 1.35 | 0 | 0 |
| 67036 | 'Mrpl45' | 22.86 | 23.18 | 40.6 | 34.4 | 31.4 | 33.37 | 35.4 | 43.62 | 35.97 | 51.22 |
| 67037 | 'Pmf1' | 25.28 | 4.64 | 19.8 | 30.8 | 20.9 | 27.5 | 13.3 | 15.03 | 10.68 | 15.98 |
| 67038 | '2010109I03Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 67039 | 'Rbm25' | 41.24 | 33.51 | 30.9 | 40.9 | 41.3 | 48.08 | 47.6 | 34.4 | 32.28 | 26.68 |
| 67040 | 'Ddx17' | 22.77 | 25.51 | 29 | 31.3 | 25 | 33.78 | 30.5 | 20.14 | 26.05 | 28.97 |
| 67041 | 'Oxct1' | 47.07 | 36.63 | 61.1 | 41.9 | 44.9 | 37.8 | 55.1 | 41.26 | 29.68 | 32.59 |
| 67042 | 'Ift27' | 48.7 | 55.19 | 58.1 | 63.8 | 62.6 | 60.85 | 53.2 | 64.3 | 70.98 | 80.42 |
| 67043 | 'Syap1' | 5.46 | 4.84 | 1.01 | 12 | 2.16 | 3.85 | 2.09 | 2.93 | 1.96 | 0.57 |
| 67044 | 'Higd2a' | 316.6 | 300.6 | 293 | 240 | 223 | 351.1 | 274 | 293.5 | 223.5 | 208.14 |
| 67045 | 'Riok2' | 13.07 | 9.89 | 7.4 | 5.83 | 10.9 | 4.37 | 2.56 | 8.3 | 4.6 | 16.49 |
| 67046 | 'Tbc1d7' | 32.28 | 26.07 | 34.9 | 53.6 | 54.1 | 22.63 | 30.2 | 16.81 | 28.67 | 17.19 |
| 67048 | 'Vma21' | 12.27 | 18.68 | 16.4 | 27 | 12.3 | 18.14 | 12.3 | 19.94 | 15.12 | 17.9 |
| 67049 | 'Pus3' | 10.2 | 3.63 | 6.32 | 0.6 | 7.31 | 0.77 | 6.03 | 8.92 | 11.99 | 5.03 |
| 67050 | 'Nkap' | 3.77 | 4.46 | 3.76 | 7.04 | 2.66 | 7.1 | 2.35 | 4.35 | 2.83 | 4.17 |
| 67052 | 'Ndc80' | 0 | 0 | 0.02 | 0 | 0 | 0.06 | 0 | 0.09 | 0 | 0 |
| 67053 | 'Rpp14' | 21.97 | 11 | 23.7 | 33.8 | 18.8 | 16.45 | 2.12 | 15.99 | 9.68 | 15.89 |
| 67054 | 'Paics' | 93.23 | 84.53 | 82.8 | 82.6 | 71.5 | 83.35 | 91.6 | 89.63 | 74.28 | 74.85 |
| 670558 | 'H60c' | 0 | 0 | 0 | 0 | 0 | 0.52 | 0.09 | 0 | 0 | 0 |
| 67057 | 'Yaf2' | 32.69 | 29.76 | 30.7 | 70.4 | 37.8 | 40.74 | 24.3 | 18.18 | 18.17 | 24.94 |
| 67059 | 'Ola1' | 36.92 | 51.64 | 36.1 | 51.2 | 47.1 | 64.66 | 31.3 | 34.83 | 41.69 | 31.05 |
| 670593 | 'Gm9495' | 0.03 | 0 | 0.02 | 0 | 0 | 1.24 | 0 | 0 | 0.04 | 0.01 |
| 67062 | 'Slc25a53' | 0.9 | 1.06 | 1.28 | 1.36 | 1.5 | 1.47 | 1.35 | 1.31 | 2.62 | 1.4 |
| 67063 | 'Tmem246' | 99.57 | 98.67 | 92.8 | 89.2 | 45.6 | 67.64 | 48.3 | 68.84 | 115.5 | 132.98 |
| 67064 | 'Chmp1b' | 12.53 | 11.6 | 4.6 | 8.71 | 14.5 | 13.07 | 10.8 | 8 | 12.82 | 10.87 |
| 67065 | 'Polr3d' | 19.45 | 24.31 | 11 | 11.4 | 16.7 | 20.58 | 12.5 | 14.34 | 16.54 | 23.17 |
| 67067 | 'Romo1' | 286 | 305.7 | 337 | 514 | 194 | 427.7 | 295 | 153.6 | 418.2 | 236.6 |
| 67068 | 'Dynlrb1' | 801 | 534.4 | 720 | 643 | 710 | 942.8 | 774 | 807.9 | 865.8 | 799.36 |
| 67070 | 'Lsm14a' | 8.53 | 3.83 | 5.87 | 13 | 3.77 | 2.82 | 2.67 | 10.56 | 4.45 | 7.46 |
| 67071 | 'Rps6ka6' | 7.12 | 2.26 | 2.77 | 0.14 | 0 | 0.63 | 3.81 | 1.73 | 4.63 | 11.21 |
| 67072 | 'Cdc3711' | 31.82 | 14.2 | 18.1 | 9.79 | 30.9 | 11.9 | 28.1 | 13.98 | 11.98 | 5 |
| 67073 | 'Pi4k2b' | 0 | 0 | 0 | 0 | 0.44 | 0 | 0 | 0 | 0 | 0 |
| 67074 | 'Mon2' | 0.76 | 5.03 | 8.12 | 5.4 | 7.51 | 3.5 | 2.19 | 4.65 | 0.44 | 1.37 |
| 67075 | 'Magt1' | 2.98 | 8.24 | 1.92 | 0.52 | 8.03 | 0.03 | 0.2 | 1.77 | 2.5 | 0.89 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 67077 | 'Catsperz' | 0 | 0 | 1.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67078 | 'Pgp' | 88.21 | 51.44 | 102 | 143 | 65.3 | 65.73 | 93.1 | 62.79 | 67.76 | 34.14 |
| 67080 | '1700019D03Rik' | 1.77 | 6.71 | 17.4 | 11.2 | 1.9 | 22.32 | 8.52 | 4.51 | 21.1 | 9.18 |
| 67082 | 'ccdc198' | 0 | 1.23 | 0.32 | 0 | 0 | 0 | 1.28 | 0 | 0 | 0.37 |
| 67087 | 'Ctnnbip1' | 3.7 | 7.35 | 11.9 | 31.1 | 5.43 | 0.42 | 4.23 | 2.85 | 6.54 | 5.35 |
| 67088 | 'Cand2' | 0.78 | 1.16 | 2.42 | 2.2 | 0.17 | 0.11 | 0.03 | 1.65 | 6.73 | 4.94 |
| 67089 | 'Psmc6' | 72.63 | 89.98 | 80.5 | 31.9 | 73.3 | 97.82 | 124 | 74.33 | 67.67 | 55.09 |
| 67091 | 'Trappc6a' | 28.82 | 15.54 | 8.15 | 17.5 | 27.4 | 33.69 | 15.3 | 11.31 | 25.9 | 12.7 |
| 67092 | 'Gatm' | 37.18 | 20.72 | 37.9 | 13.8 | 54.5 | 74.06 | 35.1 | 14.64 | 15.4 | 8.32 |
| 67095 | 'Trak1' | 5.63 | 4.76 | 11.7 | 4.9 | 7.33 | 0.02 | 4.77 | 5.3 | 3.92 | 4.57 |
| 67096 | 'Mmachc' | 22.49 | 2.62 | 5.75 | 18.6 | 23.6 | 24.6 | 1.96 | 18.52 | 13.23 | 19.29 |
| 67097 | 'Rps10' | 177.7 | 182.9 | 173 | 157 | 236 | 247.3 | 130 | 134.5 | 125.6 | 203.06 |
| 67099 | 'Mettl21a' | 12.7 | 15.61 | 8.99 | 0 | 12.6 | 5.52 | 8 | 8.81 | 13.04 | 5.5 |
| 67101 | '2310039H08Rik' | 26.62 | 18.84 | 19.7 | 25.2 | 27.2 | 30.55 | 10.7 | 29.72 | 9.87 | 18.88 |
| 67102 | 'D16Ert472e' | 0 | 0.11 | 0 | 4.07 | 1.16 | 0.01 | 0.02 | 0.01 | 0 | 0.69 |
| 67103 | 'Ptgr1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 |
| 67105 | 'Timm21' | 27.42 | 8.34 | 20.3 | 13.3 | 6.16 | 10.89 | 26 | 16.34 | 21.44 | 17.05 |
| 67106 | 'Zbtb8os' | 39.58 | 7.58 | 13 | 42.8 | 47.9 | 34.89 | 31.8 | 21.37 | 14.19 | 41.36 |
| 67109 | 'Zfp787' | 0.19 | 0.28 | 0.1 | 1.36 | 0.39 | 4.17 | 1.02 | 0.96 | 2.55 | 1.58 |
| 67111 | 'Naaa' | 23.4 | 28.6 | 20.8 | 14.4 | 12.6 | 20.72 | 15.9 | 26.2 | 9.77 | 18.44 |
| 67112 | 'Fgf22' | 8.25 | 7.89 | 11.8 | 15.9 | 23.5 | 44.53 | 4.96 | 8.95 | 15.84 | 6.89 |
| 67115 | 'Rpl14' | 212.2 | 182.8 | 195 | 194 | 178 | 174 | 187 | 136.3 | 199.5 | 189.16 |
| 67116 | 'Cuedc2' | 162.4 | 118.1 | 191 | 159 | 157 | 135.6 | 209 | 193.8 | 173.2 | 157.41 |
| 67117 | 'Dynlt3' | 64.24 | 77.61 | 68.6 | 68.1 | 84.7 | 49.24 | 65 | 61.11 | 40.33 | 61.9 |
| 67118 | 'Bfar' | 28 | 24.31 | 15 | 17.3 | 36.4 | 11.44 | 16.6 | 24.2 | 30.06 | 34.25 |
| 67119 | 'Ccdc159' | 7.79 | 12.05 | 6.4 | 5.58 | 10.5 | 5.42 | 21.6 | 12.41 | 6.12 | 19.34 |
| 67120 | 'Ttc14' | 18.71 | 26.34 | 18.9 | 11.3 | 18.3 | 14.73 | 19 | 10.32 | 22.76 | 6.43 |
| 67121 | 'Mastl' | 0 | 0.05 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67122 | 'Nrarp' | 0 | 2.77 | 1.04 | 2.08 | 0 | 2.3 | 4.28 | 0.03 | 0 | 1.13 |
| 67123 | 'Ubap1' | 25.94 | 21.93 | 26.3 | 31.9 | 22.4 | 20.8 | 28 | 30.5 | 8.45 | 28.93 |
| 67125 | 'Tspan31' | 115.3 | 89.18 | 67.6 | 165 | 80.1 | 120.7 | 103 | 60.29 | 80.66 | 124.17 |
| 67126 | 'Atp5e' | 364.6 | 367.9 | 485 | 561 | 337 | 472.4 | 385 | 235.6 | 335.8 | 326.83 |
| 67128 | 'Ube2g1' | 2.82 | 3.78 | 1.37 | 8.51 | 2.75 | 3.5 | 3.09 | 5.18 | 0.02 | 1.65 |
| 67130 | 'Ndufa6' | 476.7 | 393.8 | 489 | 513 | 418 | 763.7 | 512 | 386.6 | 499.5 | 428.34 |
| 67131 | 'Acbd4' | 8.94 | 11.67 | 21.2 | 9.48 | 15.7 | 24.29 | 7.46 | 16.67 | 15.34 | 5.46 |
| 67134 | 'Nop56' | 124.9 | 143.7 | 137 | 268 | 134 | 184.6 | 98 | 196.8 | 150.5 | 141.58 |
| 67136 | 'Kbtbd4' | 39.76 | 42.25 | 54.3 | 27.3 | 40.6 | 37.88 | 31 | 26.61 | 27.2 | 51.15 |
| 67138 | 'Herc6' | 0.11 | 0.13 | 0.31 | 2.34 | 0.09 | 0.02 | 0 | 0.01 | 2.89 | 1.23 |
| 67139 | 'Mis12' | 9.28 | 11.36 | 9.41 | 18 | 19.6 | 11.82 | 0 | 3.82 | 14.16 | 1.59 |
| 67141 | 'Fbxo5' | 2.6 | 1.58 | 0.35 | 6.85 | 2.27 | 0 | 1.95 | 0 | 0 | 3.01 |
| 67143 | 'Ikzf5' | 0.68 | 0.66 | 4.4 | 5.38 | 1.66 | 6.04 | 0.01 | 3.6 | 1.53 | 8.43 |
| 67144 | 'Lrrc40' | 12.32 | 17.72 | 19.1 | 14.4 | 17.6 | 14.6 | 23.8 | 10.45 | 17.54 | 15.51 |
| 67145 | 'Tomm34' | 162.7 | 129 | 105 | 65.9 | 87.1 | 101.8 | 129 | 111.3 | 109.6 | 162.28 |
| 67148 | 'Ramac' | 217.5 | 149.4 | 136 | 134 | 190 | 160.7 | 164 | 154.8 | 163.8 | 202.44 |
| 67149 | 'Nkain1' | 1.22 | 6.35 | 0.47 | 0.67 | 7.79 | 0.02 | 4.31 | 6.65 | 0 | 1.86 |
| 67150 | 'Rnf141' | 3.5 | 6.95 | 3.53 | 17.2 | 13.2 | 3.9 | 10.6 | 10.38 | 5.11 | 7.5 |
| 67151 | 'Psmc9' | 33.74 | 30.22 | 32.9 | 18 | 16.3 | 28.19 | 25.5 | 31.83 | 23.02 | 21.55 |
| 67153 | 'Rnaseh2b' | 10.5 | 13.51 | 16.7 | 7.07 | 14.4 | 27.41 | 14.4 | 21.36 | 14.8 | 13.96 |
| 671535 | 'Parp10' | 0 | 0 | 0 | 5.92 | 0.53 | 0 | 0 | 0 | 0.58 | 3.08 |
| 67154 | 'Mtdh' | 22.48 | 19.32 | 17.6 | 17.5 | 18.6 | 13.62 | 10.3 | 20.3 | 25.04 | 12.9 |
| 67155 | 'Smarca2' | 76.91 | 60.84 | 72.4 | 115 | 58.6 | 58.2 | 52.6 | 63.53 | 60.31 | 46.43 |
| 67157 | '2610301B20Rik' | 65.03 | 71.63 | 56.1 | 89.2 | 70.4 | 69.21 | 53.9 | 59.39 | 33.03 | 67.96 |
| 67158 | 'Sft2d3' | 1.6 | 1.54 | 0.27 | 9.23 | 0.85 | 0.02 | 1.03 | 0.21 | 0.98 | 0.23 |
| 67160 | 'Eef1g' | 154.1 | 172.6 | 162 | 391 | 153 | 126.1 | 185 | 172.4 | 130 | 160.53 |
| 67161 | 'Sclt1' | 5.22 | 0.69 | 2.08 | 2.24 | 5.59 | 2.46 | 3.56 | 0.19 | 1.75 | 0.22 |
| 67163 | 'Ccdc47' | 57.85 | 42.74 | 63 | 54.1 | 64.2 | 60.53 | 58.1 | 54.2 | 75.78 | 65.26 |
| 67164 | 'Lipt2' | 3.34 | 9.99 | 9.33 | 0 | 0.04 | 4.65 | 0 | 4.78 | 1.61 | 0 |
| 671650 | 'Gm20783' | 0.23 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0.08 | 0.04 | 0 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 67166 | 'Arl8b' | 86.45 | 77.72 | 89.6 | 49.1 | 69.2 | 62.57 | 105 | 71.99 | 56.95 | 60.83 |
| 67168 | 'Lpar6' | 4.62 | 18.99 | 5.82 | 18 | 1.07 | 6.73 | 2.95 | 0 | 0.02 | 0.03 |
| 67169 | 'Nradd' | 9.74 | 3.51 | 3.05 | 11.1 | 9.28 | 0 | 1.24 | 2.76 | 0.08 | 10.96 |
| 67171 | 'Dram2' | 8.29 | 19.92 | 11.1 | 16.5 | 9.65 | 10.17 | 16.6 | 24.27 | 7.96 | 18.93 |
| 67177 | 'Cdt1' | 0 | 3.53 | 0.15 | 0 | 0 | 5.55 | 0 | 2.05 | 0 | 0 |
| 67178 | 'Zmat5' | 42.25 | 31.99 | 23.8 | 80.6 | 41.6 | 86.17 | 43.7 | 67.88 | 59.76 | 46.57 |
| 67179 | 'Ccdc25' | 21.69 | 32.88 | 33.2 | 50.3 | 51.5 | 39.33 | 4.89 | 20.3 | 13.05 | 20.73 |
| 67180 | 'Yipf5' | 45.48 | 44.36 | 35.7 | 46.6 | 29.2 | 34.72 | 33.5 | 33.65 | 36.76 | 31.26 |
| 67181 | 'Ctdnep1' | 8.41 | 18.14 | 10.6 | 2.42 | 16.5 | 4.23 | 4.72 | 4.04 | 1.42 | 8.67 |
| 67182 | 'Pdzk1ip1' | 0 | 6.53 | 1.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67184 | 'Ndufa13' | 469.3 | 531.4 | 533 | 575 | 586 | 887.6 | 626 | 412.9 | 656.9 | 656.55 |
| 67186 | 'Rplp2' | 312 | 338.7 | 275 | 326 | 229 | 365.5 | 323 | 178.6 | 366.7 | 221.84 |
| 67187 | 'Zmynd19' | 0.82 | 0 | 1.53 | 0 | 1.03 | 0 | 2.46 | 0.38 | 0 | 1.48 |
| 67196 | 'Ube2t' | 2.72 | 3.44 | 0 | 0 | 0 | 0 | 0 | 0 | 5.38 | 0 |
| 67197 | 'Zcrb1' | 83.03 | 79.05 | 104 | 110 | 128 | 104.1 | 135 | 113.2 | 132.6 | 126.08 |
| 67198 | 'Spats2l' | 12.02 | 12.89 | 22.1 | 0.03 | 7.97 | 17.31 | 14.4 | 16.66 | 7.64 | 2.3 |
| 67199 | 'Pfdn1' | 148.7 | 107.9 | 95.5 | 152 | 128 | 172.2 | 126 | 158.9 | 182.4 | 121.5 |
| 67200 | 'Ccdc77' | 0.08 | 6.02 | 0 | 2.64 | 5.48 | 2.33 | 0 | 2.29 | 0.02 | 0.3 |
| 67201 | 'Glod4' | 80.55 | 56.2 | 61.8 | 102 | 38 | 35.84 | 31.8 | 54.48 | 60.64 | 60.77 |
| 67203 | 'Nde1' | 1.33 | 1.63 | 12.7 | 0.09 | 0 | 0.03 | 5.61 | 5.85 | 4.4 | 1.24 |
| 67204 | 'Eif2s2' | 39.66 | 40.05 | 39.9 | 34.9 | 40.6 | 31.03 | 30.2 | 34.33 | 44.01 | 40.52 |
| 67205 | 'Utp11' | 23.82 | 27.3 | 22.6 | 28.2 | 19.2 | 19.81 | 37.8 | 32.83 | 43.33 | 33.94 |
| 67207 | 'Lsm1' | 29.11 | 33.85 | 31.3 | 32.3 | 38 | 43.23 | 25.2 | 37.16 | 38.82 | 27.15 |
| 67210 | 'Gatad1' | 31.33 | 24.31 | 23.4 | 41.5 | 44.8 | 19.28 | 18.9 | 36.8 | 43.09 | 31.12 |
| 67211 | 'Armc10' | 2.69 | 14.88 | 9.18 | 1.5 | 11.8 | 11.39 | 15.9 | 16.28 | 5.37 | 5.74 |
| 67212 | 'Mrpl55' | 76.29 | 102.2 | 76.7 | 92.5 | 123 | 158.5 | 43 | 141.6 | 71.04 | 93.5 |
| 67213 | 'Cmtm6' | 4.69 | 0.75 | 9.36 | 7.97 | 8.94 | 12.52 | 7 | 5.7 | 6.58 | 1.93 |
| 67216 | 'Mboat2' | 16.23 | 25.55 | 18.5 | 11.9 | 4.62 | 10.46 | 14.9 | 14.19 | 7.45 | 9.46 |
| 67217 | 'L3hypdh' | 0.03 | 8.59 | 1.22 | 2.73 | 6.08 | 2.61 | 2.17 | 7.52 | 7.08 | 9.89 |
| 67219 | 'Med18' | 2.49 | 5.26 | 1.97 | 0.14 | 2.49 | 0 | 0 | 2.1 | 9.57 | 2 |
| 67220 | 'Plekho1' | 11.05 | 0 | 0.05 | 0 | 8.58 | 2.63 | 7.62 | 0 | 9.28 | 4.84 |
| 67222 | 'Srfbp1' | 13.6 | 6.38 | 8.54 | 12.5 | 4.78 | 1.82 | 13.8 | 21.78 | 5.13 | 14.55 |
| 67223 | 'Rrp15' | 20.31 | 2.59 | 8.52 | 1.21 | 13 | 5.14 | 0.04 | 8.33 | 17.35 | 7.89 |
| 67224 | 'Med29' | 36.49 | 27.13 | 28.2 | 18.5 | 16.4 | 34.2 | 40.6 | 27.43 | 27.48 | 32.99 |
| 67225 | 'Rnpc3' | 24.91 | 20.59 | 26.6 | 36.5 | 26.7 | 19.24 | 23.6 | 19.35 | 31.35 | 21.23 |
| 67226 | 'Tmem19' | 24.13 | 18.46 | 13 | 3.28 | 16.1 | 2.21 | 13.1 | 16.28 | 11.82 | 11.9 |
| 67228 | 'Dph7' | 26.48 | 11.1 | 27.6 | 17 | 30.1 | 36.33 | 18.1 | 33.72 | 13.54 | 26.88 |
| 67229 | 'Prpf18' | 27.45 | 20.95 | 24.7 | 18.5 | 20.7 | 11.63 | 11.2 | 15.94 | 17.94 | 20.4 |
| 67230 | 'Zfp329' | 6.82 | 4.23 | 3.05 | 1.17 | 7.52 | 2.54 | 2.75 | 2.79 | 4.23 | 4.8 |
| 67231 | 'Tbc1d20' | 5.51 | 7.72 | 4.35 | 15.4 | 9.94 | 0.01 | 0.03 | 8.79 | 5.09 | 6.58 |
| 67235 | 'Zkscan14' | 3.71 | 10.03 | 12.9 | 21.5 | 4.23 | 7.97 | 9.9 | 18.85 | 5.25 | 11.53 |
| 67236 | 'Cinp' | 39.4 | 25.73 | 14.9 | 39.3 | 29.2 | 37.48 | 47.5 | 20.53 | 13.47 | 25.81 |
| 67238 | 'Fam220a' | 4.26 | 2.68 | 1.64 | 22.6 | 5.3 | 6.86 | 0.45 | 5.32 | 4.03 | 5.88 |
| 67239 | 'Rpf2' | 10.72 | 22.33 | 26.4 | 37.6 | 24.9 | 53.28 | 22.5 | 37.06 | 33.92 | 30.73 |
| 67241 | 'Smc6' | 15.26 | 15.4 | 13.4 | 7.48 | 18.3 | 7.49 | 9.05 | 18.96 | 7.95 | 17.73 |
| 67242 | 'Gemin6' | 4.15 | 12.9 | 14.1 | 13 | 29.3 | 16.94 | 29.5 | 10.49 | 22.85 | 16.4 |
| 67245 | 'Peli1' | 10.82 | 9.87 | 15.2 | 20.2 | 4.31 | 1.72 | 9.25 | 5.04 | 9.25 | 1.8 |
| 67246 | 'Resf1' | 8.9 | 4.35 | 1.58 | 1.51 | 5.9 | 3.55 | 3.43 | 3.59 | 2.29 | 2.01 |
| 67247 | 'Marc2' | 46.56 | 42.33 | 50.7 | 64.9 | 15 | 105.3 | 46.4 | 39.08 | 34.23 | 32.76 |
| 67248 | 'Rpl39' | 66.07 | 126 | 158 | 104 | 73.3 | 166.9 | 71.8 | 44.4 | 105 | 50.41 |
| 67249 | 'Tbc1d19' | 24.11 | 25.44 | 33.2 | 24.9 | 17.1 | 37.1 | 19.2 | 10.28 | 24.48 | 22.91 |
| 672511 | 'Rnf213' | 0.22 | 0.02 | 0.09 | 1.33 | 0.54 | 0 | 1.39 | 0 | 0.46 | 0.13 |
| 67252 | 'Cap2' | 40.59 | 38.33 | 43.5 | 28 | 36.8 | 29.19 | 19 | 37.5 | 52.49 | 29.57 |
| 67254 | '2900011O08Rik' | 157.1 | 172.5 | 279 | 179 | 257 | 337.8 | 238 | 228.5 | 177.4 | 224.43 |
| 67255 | 'Zfp422' | 15.95 | 18.75 | 13.3 | 15.5 | 14.6 | 24.94 | 23.4 | 20.82 | 14.27 | 11.02 |
| 67260 | 'Cers4' | 48.48 | 47.6 | 63.4 | 37.6 | 51.9 | 60.12 | 58.3 | 58.43 | 85.84 | 58.9 |
| 67263 | 'Zswim6' | 0.01 | 1.05 | 0.86 | 5.53 | 0.05 | 0 | 2.38 | 0.89 | 0 | 0.01 |
| 67264 | 'Ndufb8' | 729.5 | 657.8 | 871 | 1176 | 1001 | 1168 | 932 | 985.8 | 970.5 | 935.79 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 67266 | 'Fam69a' | 25.15 | 10.31 | 28.9 | 5.44 | 15 | 5.5 | 6.79 | 21.46 | 13.47 | 17.88 |
| 67267 | 'Uqcc2' | 318.6 | 282.3 | 338 | 299 | 281 | 374.6 | 367 | 276.2 | 391 | 318.54 |
| 67268 | 'Myl12a' | 18.51 | 23.85 | 12.2 | 20.3 | 36.9 | 20.55 | 14.7 | 20.9 | 4.86 | 11.47 |
| 672682 | 'Gm9573' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 67269 | 'Agtpbp1' | 10.61 | 10.82 | 8.03 | 17.7 | 2.4 | 1.35 | 3.62 | 5.76 | 3.27 | 7.55 |
| 67270 | 'Mrpl42' | 180 | 152.1 | 272 | 200 | 188 | 383.1 | 259 | 190.6 | 318.9 | 211.92 |
| 67272 | 'Cmtm5' | 51.39 | 60.14 | 17.2 | 21.5 | 70.8 | 46.95 | 35.3 | 31.98 | 16.21 | 5.18 |
| 67273 | 'Ndufa10' | 196.2 | 169.6 | 222 | 119 | 178 | 231.4 | 167 | 231.7 | 186.9 | 187.85 |
| 67276 | 'Eri1' | 0.39 | 2.45 | 1.05 | 1.4 | 0.41 | 3.17 | 0.01 | 0.42 | 1.91 | 1.82 |
| 67278 | 'Pagr1a' | 45.86 | 61.33 | 45 | 47.6 | 18.3 | 39.69 | 15.2 | 54.92 | 43.76 | 67.91 |
| 67279 | 'Med31' | 46 | 54.58 | 45.2 | 45.7 | 51.7 | 59.14 | 24.4 | 26.67 | 56.13 | 55.05 |
| 67281 | 'Rpl37' | 73.62 | 86.33 | 105 | 125 | 50.6 | 92.94 | 78.5 | 34.09 | 54.8 | 43.3 |
| 67282 | 'Washc3' | 27.55 | 22.75 | 24.9 | 44.5 | 24.9 | 33.58 | 23.5 | 33.27 | 39.79 | 28.08 |
| 67283 | 'Slc25a19' | 27.64 | 31.51 | 18.8 | 68.7 | 21.8 | 23.49 | 24.1 | 39.03 | 23.86 | 22.58 |
| 67285 | 'Cwc27' | 25.48 | 9.48 | 17.3 | 50.8 | 26.9 | 25.86 | 15.6 | 19.45 | 23.51 | 20 |
| 67286 | 'lft22' | 206.6 | 155.7 | 129 | 169 | 210 | 312.2 | 200 | 159.5 | 111 | 218.13 |
| 67287 | 'Parp6' | 16.56 | 19.18 | 37.2 | 15.3 | 19.7 | 6.87 | 16.8 | 18.79 | 38.59 | 28.21 |
| 67288 | 'Srek1ip1' | 7.85 | 15.47 | 5.84 | 0 | 6.73 | 3.99 | 13.5 | 9.32 | 11.95 | 15.71 |
| 67290 | '3110040N11Rik' | 32.37 | 25.16 | 36 | 23.5 | 30.7 | 31.99 | 17.4 | 38.73 | 15.51 | 23.78 |
| 67291 | 'Ccdc137' | 9.49 | 30.33 | 17.9 | 15.7 | 20.6 | 28.32 | 2.27 | 10.45 | 27.68 | 12.53 |
| 67292 | 'Pigc' | 4.94 | 6.7 | 1.25 | 0 | 10 | 5.09 | 6.16 | 2.37 | 2.53 | 1.74 |
| 67295 | 'Rab3c' | 129.8 | 130.6 | 57 | 24.7 | 65 | 49.52 | 37.9 | 96.09 | 75.32 | 92.46 |
| 67296 | 'Socs4' | 0 | 0 | 0 | 0 | 1.87 | 0 | 0 | 0.39 | 0 | 0 |
| 67298 | 'Gprasp1' | 169.6 | 135 | 197 | 220 | 92.9 | 55.77 | 164 | 123.7 | 205.7 | 213.04 |
| 67299 | 'Dock7' | 3.31 | 2.27 | 3.5 | 3.03 | 1.77 | 1.22 | 4.76 | 1.41 | 2.4 | 4.06 |
| 67300 | 'Cltc' | 29.13 | 18.39 | 69.1 | 37.9 | 29.7 | 16.29 | 30.1 | 20.71 | 40.21 | 44.13 |
| 67302 | 'Zc3h13' | 14.03 | 15.74 | 9.59 | 25.2 | 18.9 | 9.04 | 16.9 | 14.51 | 11.71 | 16.59 |
| 67305 | 'Gpx7' | 3.31 | 14.13 | 6.85 | 14.4 | 3.69 | 8.42 | 10.7 | 9.71 | 8.41 | 16.32 |
| 67306 | 'Zc2hc1a' | 36.89 | 25.74 | 28.3 | 15.1 | 40.4 | 29.23 | 23.1 | 32.38 | 40.36 | 30.49 |
| 67307 | 'Pbld2' | 0.02 | 0 | 3.46 | 0 | 0 | 3.74 | 0 | 0.52 | 0 | 0 |
| 67308 | 'Mrpl46' | 75.44 | 53.95 | 74.3 | 39 | 90.6 | 89.32 | 76.1 | 84.57 | 49.91 | 70.73 |
| 673094 | 'Cd99' | 0.31 | 0 | 0 | 0 | 0 | 0 | 0.33 | 0 | 0.3 | 0 |
| 67311 | 'Nanp' | 29.86 | 38.01 | 32 | 0.13 | 35.7 | 30.06 | 10.9 | 50.71 | 20.5 | 27.18 |
| 67313 | 'Inava' | 0 | 0 | 1.27 | 0.07 | 0 | 0 | 7.1 | 0 | 0 | 0 |
| 67317 | '1700022I11Rik' | 0 | 0 | 0.18 | 0 | 0 | 0 | 3.59 | 0 | 0 | 0 |
| 67323 | '1700042G07Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.26 |
| 67326 | '1700037H04Rik' | 259.7 | 187.9 | 227 | 384 | 209 | 209.8 | 175 | 214.6 | 282.6 | 240.07 |
| 67331 | 'Atp8b3' | 1.73 | 0 | 0.03 | 0 | 2.15 | 0 | 0 | 0 | 1.14 | 1.87 |
| 67332 | 'Snrpd3' | 205.6 | 188.2 | 189 | 36.6 | 209 | 265.6 | 137 | 241 | 256 | 247.71 |
| 67333 | 'Stk35' | 2.47 | 1.42 | 0.81 | 0.66 | 1.89 | 0.76 | 0 | 0.07 | 0.17 | 0.91 |
| 67337 | 'Cstf1' | 15.7 | 14.22 | 9.91 | 0 | 11.9 | 16.09 | 17.4 | 10.69 | 20.49 | 18.95 |
| 67338 | 'Rffl' | 4.03 | 4.76 | 6.11 | 0 | 2.77 | 0.03 | 0 | 1.52 | 3.36 | 2.43 |
| 67341 | 'Ascl4' | 0 | 0 | 0 | 0 | 0 | 0.28 | 4.44 | 0 | 0 | 0 |
| 67343 | 'Tex43' | 0 | 0 | 0 | 9.7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67344 | 'Tctex1d1' | 1.72 | 0 | 0.73 | 12.1 | 0 | 0 | 0 | 1.93 | 0 | 0 |
| 67345 | 'Herc4' | 2.7 | 2.29 | 6.08 | 16.6 | 7.33 | 1.08 | 3.95 | 1.13 | 3.57 | 6.78 |
| 67356 | 'Tmco5' | 0 | 0 | 0.62 | 0 | 0 | 0 | 4.83 | 0 | 0 | 1.81 |
| 67358 | '1700093K21Rik' | 0 | 0 | 1.24 | 0 | 0 | 0 | 0.57 | 0 | 0 | 0 |
| 67367 | 'Paxbp1' | 6 | 2.56 | 9.3 | 10.2 | 6.25 | 4.65 | 6.98 | 7.23 | 12.31 | 8.15 |
| 67369 | 'Qpctl' | 26.91 | 34.41 | 20.7 | 13 | 25.5 | 12.69 | 19.1 | 30.23 | 18.76 | 22.46 |
| 67370 | 'Zfp606' | 1.14 | 3.68 | 4.5 | 6.05 | 4.99 | 4.82 | 0.04 | 7.12 | 7.59 | 9.31 |
| 67371 | 'Gtf3c6' | 33.31 | 36.9 | 33.9 | 16.1 | 54.7 | 51.21 | 30.2 | 32.69 | 53.17 | 18.3 |
| 67374 | 'Jam2' | 12.93 | 5.16 | 7.4 | 1.03 | 0.14 | 3.16 | 10.2 | 7.03 | 0 | 0 |
| 67375 | 'Qprt' | 0 | 5.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67378 | 'Bbs2' | 14.53 | 13.99 | 11.6 | 8.27 | 5.18 | 9.09 | 7.49 | 16.05 | 18.56 | 25.37 |
| 67379 | 'Dedd2' | 12.97 | 6.46 | 0.08 | 13.9 | 11.1 | 10.81 | 10.4 | 16.93 | 3.4 | 6.1 |
| 67381 | 'Med4' | 55.71 | 26.67 | 24.5 | 32.8 | 16 | 48.01 | 39.7 | 46.45 | 11.77 | 18.26 |
| 67382 | 'Brd3' | 29.91 | 23.69 | 25.2 | 38.1 | 26.4 | 20.52 | 20.2 | 19.93 | 19.46 | 19.59 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 67383 | 'Carnmt1' | 0.04 | 1.06 | 0.29 | 3.08 | 1.49 | 0.7 | 0.77 | 1.26 | 0.72 | 0 |
| 67384 | 'Bag4' | 9.45 | 5.7 | 7.41 | 8.04 | 1.22 | 3.47 | 6.74 | 6.52 | 7.4 | 4.09 |
| 67387 | 'Unc50' | 99.58 | 91.16 | 61.8 | 42.1 | 72 | 108.2 | 112 | 134.3 | 67.39 | 82 |
| 67388 | 'Rab5if' | 9.99 | 8.73 | 4.77 | 48.7 | 9.33 | 0.05 | 15.1 | 15.59 | 0.89 | 8.53 |
| 67389 | 'C1qtnf12' | 3.44 | 5.78 | 4.04 | 0.66 | 14.5 | 4.91 | 0.19 | 14.49 | 10.81 | 0 |
| 67390 | 'Mrm3' | 29.03 | 17.94 | 23.2 | 37.2 | 22.3 | 38.35 | 53.1 | 31.95 | 37.99 | 30.73 |
| 67391 | 'Fundc2' | 9.51 | 18.52 | 15.9 | 21.8 | 10.3 | 8.61 | 17.2 | 8.96 | 2.87 | 10.48 |
| 67392 | '4833420G17Rik' | 10.84 | 8.63 | 14.4 | 26.6 | 10.9 | 9.88 | 29.5 | 22.05 | 11.11 | 4.3 |
| 67393 | 'Cxxc5' | 8.35 | 7.59 | 1.72 | 19.5 | 20.3 | 10.15 | 7.52 | 10.87 | 16.23 | 21.04 |
| 67397 | 'Erp29' | 196.5 | 286.9 | 185 | 185 | 180 | 250.7 | 143 | 140.3 | 246 | 294.88 |
| 67398 | 'Sprpr' | 57.88 | 69.93 | 55.4 | 33.7 | 52.2 | 65.14 | 51.9 | 47.97 | 76.33 | 79.89 |
| 67399 | 'Pdlim7' | 96.92 | 156.2 | 80 | 145 | 216 | 145.8 | 131 | 184.2 | 104.6 | 156.7 |
| 67405 | 'Nts' | 576.8 | 349.5 | 171 | 207 | 0.3 | 0.28 | 18.1 | 1960 | 93.77 | 0.37 |
| 67412 | 'Soga3' | 49.73 | 47.18 | 43.6 | 39 | 54.5 | 54.31 | 49 | 33.47 | 48.36 | 58.72 |
| 67414 | 'Mfn1' | 2.63 | 7.9 | 3.68 | 7.95 | 3.97 | 13.13 | 4.24 | 5.67 | 0.9 | 5.25 |
| 67416 | 'Armcx2' | 38.8 | 47.03 | 58.8 | 26 | 47.7 | 20.64 | 84.1 | 33.99 | 39.86 | 33.84 |
| 67417 | 'Ears2' | 2.47 | 3.81 | 2.64 | 4.45 | 0.33 | 3.55 | 0.36 | 1.74 | 4.34 | 1.3 |
| 67418 | 'Ppil4' | 28.22 | 25.28 | 20.1 | 58.1 | 31 | 43.44 | 38 | 32.27 | 35.21 | 54.2 |
| 67419 | 'Armh4' | 7.94 | 3.26 | 16.2 | 5.44 | 50.1 | 30.37 | 63.4 | 27.67 | 22.94 | 25.79 |
| 67420 | 'Far1' | 21.38 | 16.37 | 21 | 20.8 | 9.79 | 10.92 | 12.4 | 17.05 | 19.01 | 18.36 |
| 67422 | 'Dhdds' | 26.13 | 28.78 | 18 | 16.5 | 9.14 | 28.37 | 20.7 | 20.39 | 22.89 | 26.03 |
| 67425 | 'Eps8l1' | 5.6 | 10.31 | 2.56 | 1.71 | 5.19 | 4.48 | 5.98 | 0 | 3.87 | 4.66 |
| 67426 | 'Coq8a' | 22.86 | 6.78 | 21.5 | 23.9 | 29.1 | 53.39 | 26.6 | 19.19 | 13.65 | 25.44 |
| 67427 | 'Rps20' | 13.58 | 20.45 | 20.2 | 20.2 | 15.3 | 21.75 | 11.7 | 8.41 | 11.9 | 13.5 |
| 67429 | 'Nudcd1' | 11.51 | 10.04 | 3.35 | 2.27 | 11.5 | 6.97 | 15.3 | 8.13 | 14.96 | 5.28 |
| 67430 | '4921536K21Rik' | 0 | 0 | 0 | 6.07 | 0 | 0.42 | 0 | 0.36 | 0.21 | 0.05 |
| 67432 | 'Hoga1' | 1.58 | 1.22 | 1.25 | 32.5 | 0.03 | 5.36 | 8 | 0.02 | 0 | 0 |
| 67433 | 'Ccdc127' | 25.88 | 19.15 | 12.9 | 16.4 | 17.7 | 20.94 | 11.6 | 10.93 | 24.64 | 16.79 |
| 67434 | 'Ankrd33b' | 0 | 0 | 0.01 | 0 | 0 | 0.88 | 4.25 | 0 | 0 | 0 |
| 67437 | 'Ssr3' | 65.18 | 90.43 | 49.4 | 42.5 | 45.6 | 29.89 | 43.5 | 54.74 | 53.26 | 56.4 |
| 67439 | 'Xab2' | 27.84 | 35.83 | 41.5 | 9.77 | 24.6 | 31.25 | 20 | 40.93 | 28.82 | 18.77 |
| 67440 | 'Mtpap' | 12.14 | 17.11 | 9.03 | 11.4 | 3.93 | 15.4 | 14.9 | 16.15 | 12.57 | 18.83 |
| 67441 | 'Isoc2b' | 3.68 | 1.63 | 0 | 0 | 9.53 | 12.4 | 2.12 | 4.44 | 3.67 | 3.98 |
| 67442 | 'Retsat' | 5.88 | 8.75 | 8.69 | 6.43 | 0 | 0 | 0 | 2.76 | 0.02 | 3.24 |
| 67443 | 'Map1lc3b' | 283.1 | 304 | 253 | 282 | 277 | 404.4 | 264 | 315.4 | 302.6 | 269.1 |
| 67444 | 'Ilkap' | 56.24 | 73.27 | 19.7 | 38.7 | 71.6 | 24.61 | 67.3 | 40.96 | 53.6 | 26.54 |
| 67445 | 'C1qtnf4' | 18.31 | 28.74 | 33.4 | 40.9 | 23.6 | 40.18 | 37.5 | 17.18 | 31.09 | 34.46 |
| 67446 | 'Dusp28' | 37.76 | 27.38 | 48.9 | 29 | 16.7 | 30.55 | 26.8 | 24.64 | 26.06 | 24.24 |
| 67448 | 'Plxdc2' | 8.44 | 6.94 | 6.37 | 1.99 | 10.9 | 8.6 | 3.48 | 5.19 | 3.98 | 3.13 |
| 67451 | 'Pkp2' | 0.03 | 2.95 | 3.91 | 0.64 | 2.89 | 0 | 0.02 | 1.54 | 0.03 | 1.36 |
| 67452 | 'Pnpla8' | 20.26 | 24.34 | 23.7 | 18 | 10.1 | 8.94 | 14.9 | 11.35 | 31.44 | 22.17 |
| 67453 | 'Slc25a46' | 50.31 | 50.43 | 27.9 | 27.9 | 33.2 | 24.43 | 43.7 | 44.98 | 50.71 | 50.93 |
| 67454 | 'Ikbip' | 7.02 | 20.54 | 6.93 | 7.95 | 10.1 | 23.48 | 11.6 | 20.66 | 27.01 | 15.48 |
| 67455 | 'Klhl13' | 88.31 | 25.32 | 72.8 | 62.5 | 31.6 | 31.22 | 10.2 | 49.63 | 36.23 | 15.01 |
| 67456 | 'Ergic2' | 44.45 | 44.86 | 28.3 | 23.4 | 27.5 | 20.49 | 41.6 | 46.48 | 32.98 | 34.99 |
| 67457 | 'Frmf8' | 3 | 3.16 | 7.34 | 0 | 3.14 | 14.17 | 0.47 | 5.1 | 2.24 | 2.62 |
| 67458 | 'Ergic1' | 124.7 | 84.95 | 83.2 | 43.5 | 58.3 | 47.26 | 46.8 | 92.76 | 106.8 | 98.75 |
| 67459 | 'Nvl' | 18.27 | 10.4 | 11.4 | 20.1 | 21.6 | 10.53 | 8.31 | 15.41 | 13.06 | 14.69 |
| 67460 | 'Decr1' | 7.18 | 2.64 | 5.41 | 3.72 | 8.3 | 2.37 | 4.22 | 8.03 | 7.21 | 0.26 |
| 67463 | 'Poc5' | 6.45 | 6.85 | 4.92 | 6.58 | 14 | 14.21 | 20.8 | 21.79 | 4.54 | 9.83 |
| 67464 | 'Entpd4' | 9.58 | 16.09 | 35 | 10 | 14 | 17.89 | 29.1 | 14.03 | 22 | 3.93 |
| 67465 | 'Sf3a1' | 18.26 | 19.46 | 12.3 | 12.5 | 7.57 | 10.34 | 13.6 | 13.53 | 24.18 | 24.58 |
| 67466 | 'Pdcl' | 18.81 | 4.33 | 6.59 | 5.12 | 7.13 | 6.8 | 10.8 | 1.67 | 9.22 | 8.54 |
| 67467 | 'Gpalpp1' | 3.2 | 7.03 | 7.31 | 9.34 | 6.11 | 0.33 | 0.12 | 10.33 | 7.58 | 5.03 |
| 67468 | 'Mmd' | 23.09 | 31.66 | 20.7 | 49.1 | 13.7 | 10.32 | 18.7 | 32.73 | 15.41 | 17.83 |
| 67469 | 'Abhd5' | 0 | 3.16 | 2.67 | 0 | 8.78 | 0.31 | 2.89 | 2.95 | 5.81 | 1.73 |
| 67471 | 'Gpatch1' | 11.46 | 22.18 | 17.3 | 7.84 | 22 | 14.6 | 9.21 | 23.3 | 14.48 | 13 |
| 67472 | 'Mtrf1' | 10.49 | 9.36 | 5.87 | 5.3 | 9.66 | 6.82 | 2.41 | 2.21 | 5.5 | 6.77 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 67473 | 'Slc47a1' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 67474 | 'Snap29' | 5 | 3.73 | 4.39 | 0 | 4.92 | 1.11 | 0 | 6.44 | 3.28 | 7.16 |
| 67475 | 'Ero1lb' | 9.75 | 14.06 | 16.2 | 16.7 | 11.2 | 0.34 | 24.7 | 2.31 | 16.3 | 8.68 |
| 67477 | 'Abhd15' | 0 | 0 | 0 | 0 | 0 | 2.22 | 0 | 1.89 | 0.01 | 0 |
| 67480 | 'Cwc25' | 4.75 | 14.01 | 7 | 9.8 | 6.28 | 4.53 | 6.13 | 3.1 | 10.76 | 5.76 |
| 67483 | '1700028P14Rik' | 0 | 0 | 0 | 4.76 | 0.89 | 7.04 | 0 | 0 | 0 | 3.36 |
| 67484 | 'Eepd1' | 4.82 | 13.4 | 5.86 | 0 | 6.79 | 1.07 | 8.12 | 6.24 | 4 | 3.69 |
| 674842 | 'Gm9631' | 0.22 | 0 | 0.12 | 0.71 | 0.35 | 1.09 | 0 | 0.21 | 0.84 | 0.49 |
| 67486 | 'Polr3g' | 0.8 | 0 | 0.84 | 6.85 | 0.69 | 2.27 | 0 | 2.48 | 3.38 | 3.11 |
| 67487 | 'Dhx40' | 8.14 | 10.78 | 9.18 | 5.02 | 3.61 | 0 | 0.03 | 5.85 | 8.33 | 9.13 |
| 67488 | 'Calcoco1' | 19.07 | 12.83 | 20.4 | 30.6 | 10.9 | 10.17 | 19.9 | 21.12 | 24.88 | 21.25 |
| 67489 | 'Ap4b1' | 6.28 | 22.28 | 10 | 6.32 | 12.1 | 4.11 | 0.5 | 8.19 | 7.11 | 12.76 |
| 674895 | 'Nek10' | 1.15 | 2.77 | 3.66 | 4.66 | 0.51 | 0.98 | 0.39 | 1.53 | 0.01 | 3.57 |
| 67490 | 'Ufl1' | 19.27 | 16.9 | 19 | 25.8 | 20.8 | 13.89 | 10.9 | 20.55 | 20.82 | 25.2 |
| 67492 | 'Zfand4' | 3.75 | 1.89 | 0.61 | 10.7 | 0 | 2.28 | 1.38 | 3.92 | 2.45 | 2.11 |
| 67493 | 'Mettl16' | 34.64 | 20.38 | 22.8 | 15.7 | 20.8 | 23.24 | 20.2 | 29.04 | 31.35 | 34.53 |
| 67495 | 'Tmem167b' | 14.81 | 19.56 | 19.9 | 41.8 | 16.4 | 28.19 | 28.1 | 26.63 | 16.83 | 13.29 |
| 67498 | 'Kcnv1' | 1.53 | 4.25 | 0.95 | 0.01 | 0.03 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 |
| 67500 | 'Ccar1' | 29.21 | 24.14 | 23.4 | 16.9 | 9.27 | 11.29 | 21.5 | 13.59 | 16.89 | 14.8 |
| 67501 | 'Ccadc50' | 4.68 | 3.85 | 4.81 | 1.78 | 5.7 | 2.45 | 5.5 | 5.87 | 2.4 | 2.17 |
| 67504 | 'Rnf151' | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 | 0 |
| 67509 | 'Saysd1' | 12.84 | 18.5 | 4.54 | 7.22 | 16.1 | 24.37 | 28.4 | 16.53 | 37.8 | 21.93 |
| 67510 | 'Tvp23b' | 53.82 | 36.99 | 42.2 | 24.4 | 47.4 | 28.74 | 23.5 | 17.99 | 74.49 | 67.16 |
| 67511 | 'Tmed9' | 187.5 | 151.8 | 136 | 179 | 204 | 252.4 | 200 | 217.4 | 248.4 | 253.97 |
| 67512 | 'Agpat2' | 0 | 0 | 1.2 | 0 | 5.57 | 0 | 0 | 0 | 1.13 | 0.96 |
| 67513 | 'Faap20' | 43.99 | 46.47 | 33.6 | 112 | 38.8 | 61.71 | 20.9 | 40.61 | 32.8 | 46.07 |
| 67515 | 'Ttc33' | 85.53 | 88.87 | 60.5 | 69.6 | 68.8 | 73.12 | 42.1 | 64.86 | 103.5 | 45.04 |
| 67516 | 'Kctd4' | 6.55 | 1.7 | 3.3 | 4.58 | 5.5 | 5.6 | 8.75 | 1.37 | 0.34 | 1.05 |
| 67525 | 'Trim62' | 1.78 | 0.13 | 1.62 | 13.3 | 3.98 | 0.17 | 3.7 | 5.56 | 0 | 0 |
| 67526 | 'Atg12' | 38.49 | 47.61 | 24.7 | 49.6 | 27.1 | 63.03 | 29.3 | 36.99 | 26.08 | 21.38 |
| 67528 | 'Nudt7' | 14.98 | 2.88 | 9.96 | 19.9 | 19.3 | 9.09 | 0.06 | 9.65 | 9.53 | 16.8 |
| 67529 | 'Fgfr1op2' | 44.82 | 49.79 | 30.6 | 18.7 | 48.2 | 31.82 | 29.7 | 38.89 | 85.8 | 54.07 |
| 67530 | 'Uqcrb' | 396.5 | 398.4 | 507 | 502 | 337 | 479.8 | 379 | 353.6 | 507.5 | 392.45 |
| 67532 | 'Mfap1a' | 29.01 | 26 | 23.3 | 28.4 | 21.7 | 21.02 | 16.7 | 24.86 | 23 | 18.08 |
| 67533 | 'Ppfibp1' | 1.73 | 5.26 | 2.1 | 1.94 | 0.96 | 0.02 | 11 | 0.49 | 2.74 | 3.96 |
| 67534 | 'Till4' | 0.2 | 0 | 0.01 | 3.19 | 0 | 0.1 | 0 | 0.14 | 1 | 0.56 |
| 67538 | 'Zswim3' | 4.19 | 1.81 | 6.64 | 0 | 0.29 | 5.62 | 5.93 | 11.7 | 3.39 | 3.55 |
| 67542 | 'Cog6' | 19.75 | 27.46 | 30.9 | 14.8 | 10.3 | 12.25 | 19.4 | 24.78 | 27.78 | 23.56 |
| 67543 | 'Pabpc6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 |
| 67544 | 'Fam120b' | 35.26 | 34.2 | 32 | 17.6 | 40.9 | 16.56 | 30.5 | 27.4 | 30.77 | 34.69 |
| 67547 | 'Slc39a8' | 0 | 0 | 0 | 0 | 0.76 | 0 | 0.56 | 1.9 | 0.82 | 1 |
| 67549 | 'Gpr89' | 20.35 | 29.62 | 24.5 | 8.68 | 13.2 | 9.98 | 18 | 17.7 | 16.88 | 16.46 |
| 67553 | 'Gstcd' | 2.06 | 0.51 | 0.21 | 0 | 1.75 | 0.27 | 2.81 | 2.47 | 1.39 | 0 |
| 67554 | 'Slc25a30' | 7.81 | 4.34 | 3.56 | 0 | 1.08 | 0 | 0 | 1.92 | 0 | 0.04 |
| 67556 | 'Pigm' | 0.01 | 0.72 | 0.5 | 7.24 | 0.09 | 0.04 | 0.1 | 0.02 | 0.89 | 0.46 |
| 67557 | 'Larp6' | 3.1 | 4.77 | 5.76 | 13.4 | 2.04 | 4.04 | 0.28 | 10.04 | 4.35 | 8.76 |
| 67561 | 'Wdr48' | 18.09 | 23.63 | 19.7 | 8.3 | 18.8 | 12.89 | 12.8 | 24.36 | 21.21 | 28.94 |
| 67563 | 'Narfl' | 31.8 | 20.65 | 16.4 | 17.3 | 22.6 | 24.79 | 18.3 | 28.23 | 25.77 | 14.5 |
| 67564 | 'Tmem35a' | 151.2 | 97.57 | 25.3 | 21.8 | 22.8 | 34.74 | 74.1 | 78.99 | 10.9 | 3.21 |
| 67568 | 'Mrfap1' | 632 | 588.9 | 422 | 704 | 437 | 652.3 | 600 | 444.5 | 454.2 | 335.56 |
| 67569 | 'Mgat4c' | 3.25 | 13.54 | 14.8 | 3.31 | 3.2 | 1.74 | 10.2 | 11.52 | 1.42 | 1.93 |
| 67574 | 'Alg13' | 1.22 | 1.06 | 6.13 | 0 | 0.27 | 0 | 1.63 | 1.9 | 10.48 | 2.26 |
| 67578 | 'Patl2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.19 | 0 |
| 67579 | 'Cpeb4' | 1.25 | 4.7 | 2.15 | 11.8 | 3.69 | 2.51 | 2.92 | 1.85 | 4.22 | 5.09 |
| 67581 | 'Tbc1d23' | 11.7 | 8.29 | 8.81 | 11.4 | 11.9 | 14.78 | 6.05 | 7.55 | 11 | 4.69 |
| 675812 | 'Zfp605' | 1.87 | 6.11 | 3.61 | 2.05 | 5.15 | 2.86 | 3.45 | 7.16 | 8.01 | 3.48 |
| 67582 | 'Slc25a26' | 3.21 | 7.52 | 9.73 | 9.22 | 7.66 | 6.61 | 12.6 | 12.51 | 6.03 | 11.56 |
| 67586 | 'Ubxn11' | 14.31 | 6.05 | 2.27 | 0 | 42.2 | 16.91 | 25.6 | 10.52 | 4.36 | 23.26 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 67588 | 'Rnf41' | 48.3 | 38.88 | 42.7 | 25.6 | 58.7 | 35.22 | 53 | 51.72 | 69.23 | 47.04 |
| 67590 | 'Tctn3' | 11.51 | 16.37 | 14 | 10 | 18.4 | 11.73 | 20.5 | 17.77 | 18.06 | 16.08 |
| 67592 | '4930524B15Rik' | 0 | 0 | 1.87 | 0 | 0 | 0 | 0 | 0 | 1.82 | 0 |
| 67593 | '4930519G04Rik' | 0 | 0.07 | 0.17 | 0.18 | 0.08 | 0.05 | 0.05 | 0.1 | 0.04 | 0.03 |
| 67602 | 'Necap1' | 182 | 162.6 | 207 | 179 | 143 | 124.7 | 276 | 230.4 | 182.8 | 187.49 |
| 67603 | 'Dusp6' | 16.52 | 23.06 | 27.9 | 44.5 | 0.07 | 16.49 | 21.2 | 19.08 | 4.89 | 10.28 |
| 67604 | 'Get4' | 59.6 | 39.35 | 73.6 | 72.8 | 42.2 | 55.63 | 65.8 | 22.71 | 69.53 | 6.88 |
| 67605 | 'Akt1s1' | 29.06 | 35.38 | 20.6 | 33.2 | 27.6 | 29.21 | 30.1 | 26.29 | 30.07 | 23.06 |
| 67606 | 'Fibin' | 4.11 | 8.53 | 0.02 | 0 | 0 | 0 | 4.09 | 4.75 | 6.3 | 0 |
| 67607 | 'Zfp788' | 7.33 | 6.72 | 6.36 | 6.32 | 5.01 | 3.71 | 0.04 | 13.35 | 7.03 | 10.99 |
| 67608 | 'Narf' | 16.49 | 5.3 | 10.3 | 0.86 | 19.3 | 13.7 | 15.1 | 10.36 | 11.52 | 9.69 |
| 67609 | '4930453N24Rik' | 22.67 | 6.33 | 6.74 | 15.9 | 14.9 | 21.15 | 0.5 | 27.51 | 0.66 | 23.31 |
| 67610 | 'Rspry1' | 9.9 | 16.36 | 13.6 | 15.6 | 18.7 | 1.99 | 4.58 | 13.88 | 25.95 | 11.94 |
| 67615 | 'Ube2r2' | 15.15 | 18.07 | 9.4 | 15.2 | 8.54 | 14.96 | 16.6 | 13.1 | 13.57 | 14.06 |
| 67618 | 'Aasdhppt' | 26.02 | 22.18 | 19.9 | 41 | 14.8 | 23.76 | 12.2 | 37.36 | 12.42 | 23.18 |
| 67619 | 'Nob1' | 43.61 | 45.43 | 52.9 | 44.5 | 32.5 | 39.41 | 49.5 | 44.26 | 26 | 37.98 |
| 67620 | 'Lrp2bp' | 0 | 0.67 | 0 | 0.09 | 1.5 | 0 | 0.03 | 0 | 0.06 | 0 |
| 67621 | 'Bend5' | 13.55 | 3.56 | 13.1 | 2.34 | 5.29 | 5.25 | 12.7 | 11.07 | 4.65 | 6.53 |
| 67622 | 'Mxra7' | 5.32 | 2.99 | 0.74 | 15.7 | 4.6 | 5.41 | 7.19 | 1.74 | 4.18 | 4.18 |
| 67623 | 'Tm7sf3' | 12.66 | 11.02 | 13.5 | 0.02 | 5.31 | 3.92 | 22 | 11.24 | 18.38 | 12.5 |
| 67628 | 'Anp32b' | 17.05 | 17.26 | 17.1 | 55.1 | 21.9 | 10.89 | 15.1 | 15.01 | 19.45 | 6.2 |
| 67629 | 'Spc24' | 8.47 | 9.92 | 14.3 | 29.2 | 26.9 | 19.36 | 9.53 | 13.48 | 11.41 | 11.32 |
| 67630 | 'Samd8' | 3.02 | 4.45 | 2.58 | 3.27 | 2.47 | 2.2 | 7.78 | 1.75 | 1.31 | 2.32 |
| 67636 | 'Etfrf1' | 33.83 | 26.17 | 56.5 | 44.7 | 49.2 | 11.59 | 48.6 | 36.05 | 52.22 | 42.25 |
| 67647 | '4930523C07Rik' | 0.06 | 2.59 | 0 | 2.44 | 0 | 1.66 | 0 | 0 | 0 | 0 |
| 67655 | 'Ctdp1' | 2.05 | 0.34 | 0.42 | 0 | 4.02 | 3.72 | 4.35 | 2.14 | 4.86 | 0.46 |
| 67656 | '4930548H24Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.77 | 0 | 0 |
| 67657 | 'Rabl3' | 11.3 | 11.33 | 2.62 | 0 | 5.12 | 18.45 | 5.95 | 20.87 | 3.95 | 11.44 |
| 67661 | 'lft172' | 3.76 | 6.77 | 10.4 | 0.6 | 8.62 | 2.72 | 10.4 | 2.59 | 8.54 | 8.46 |
| 67664 | 'Rnf125' | 0.39 | 0.32 | 0.35 | 0.3 | 2.15 | 0.18 | 0.15 | 0.38 | 0.73 | 0.35 |
| 67665 | 'Dctn4' | 44.45 | 38.04 | 41.6 | 50.6 | 35.7 | 23.56 | 39.6 | 29.65 | 40.54 | 43.06 |
| 67666 | 'Hapln3' | 0 | 0 | 0 | 0 | 0 | 0 | 5.71 | 0 | 0 | 0 |
| 67667 | 'Alkbh8' | 10.16 | 10.77 | 15.3 | 4.54 | 6.98 | 7.59 | 5.04 | 20.64 | 16.33 | 4.7 |
| 67669 | 'Hikeshi' | 76.51 | 82.83 | 72.3 | 90.5 | 102 | 114.2 | 77.7 | 84.67 | 81.03 | 95.55 |
| 67671 | 'Rpl38' | 204.8 | 291.5 | 297 | 464 | 178 | 460.3 | 241 | 106.9 | 344.6 | 155.79 |
| 67673 | 'Elob' | 637.7 | 697.4 | 733 | 889 | 650 | 1080 | 751 | 569.2 | 787.1 | 641.5 |
| 67674 | 'Trmt112' | 141.7 | 121.3 | 137 | 94.6 | 108 | 211.6 | 117 | 109.8 | 124.1 | 132.95 |
| 67675 | 'Cuta' | 99.92 | 85.65 | 112 | 71.7 | 96.1 | 132.8 | 74.3 | 135.7 | 116.7 | 141.05 |
| 67676 | 'Rpp21' | 117.4 | 83.92 | 89.7 | 94.5 | 116 | 273 | 87.7 | 118.1 | 85.02 | 105.66 |
| 67678 | 'Lsm3' | 42.71 | 41.69 | 82.7 | 82.3 | 61.6 | 86.71 | 67.7 | 58.58 | 53.3 | 79.16 |
| 67680 | 'Sdhd' | 466.5 | 459.5 | 485 | 500 | 472 | 521.9 | 403 | 549.8 | 451.9 | 511.38 |
| 67681 | 'Mrpl18' | 71.82 | 64.62 | 86.8 | 108 | 117 | 77.14 | 108 | 82.28 | 81.85 | 61.65 |
| 67683 | 'Pbdc1' | 28.83 | 14.81 | 21.2 | 44.3 | 37.6 | 36.05 | 45.5 | 36.19 | 26.74 | 43.2 |
| 67684 | 'Luc7l3' | 36.88 | 46.8 | 23 | 25.3 | 58.1 | 38.76 | 61 | 43.95 | 49.19 | 40.69 |
| 67685 | 'Dyx1c1' | 5.12 | 3.12 | 3.78 | 0 | 11.1 | 0.02 | 1.17 | 4.76 | 0.87 | 2.18 |
| 67687 | '1700011L22Rik' | 0 | 0 | 0 | 0 | 2.67 | 0 | 0 | 0.07 | 0 | 0 |
| 67689 | 'Aldh3b1' | 0 | 0 | 0 | 0 | 1.86 | 0 | 0 | 1.61 | 0 | 0 |
| 67690 | 'Prss37' | 0.35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67693 | 'Hypk' | 206.1 | 167.5 | 186 | 299 | 238 | 342.9 | 148 | 230.3 | 323.9 | 264.54 |
| 67694 | 'lft74' | 25.49 | 15.48 | 14.1 | 21.9 | 12.7 | 27.54 | 9.2 | 17.58 | 19.65 | 23.41 |
| 67695 | 'Ost4' | 197.2 | 148.7 | 186 | 186 | 173 | 259.8 | 188 | 137.7 | 187.4 | 154.82 |
| 67698 | 'Fam174a' | 22.97 | 36.32 | 39.1 | 55.4 | 19.6 | 19.47 | 34 | 17.4 | 12.31 | 9.58 |
| 67702 | 'Rnf149' | 14.26 | 6.11 | 4.47 | 10.2 | 6.74 | 2.58 | 5.47 | 8.72 | 1.11 | 3.88 |
| 67703 | 'Kirrel3' | 9.29 | 2.38 | 6.28 | 4.49 | 13.1 | 15.18 | 24.8 | 12.16 | 12.84 | 25.59 |
| 67704 | '1810037l17Rik' | 70.08 | 71.63 | 89.4 | 90.3 | 102 | 125.7 | 103 | 58.28 | 101.1 | 128.65 |
| 67706 | 'Tmem179b' | 4.05 | 24.03 | 15.8 | 13.4 | 21.1 | 28.63 | 16.1 | 14.37 | 18.37 | 5.25 |
| 67707 | 'Mrpl24' | 54.42 | 62.1 | 17.5 | 67.8 | 43.6 | 49.94 | 75 | 33.74 | 30.71 | 46.41 |
| 67708 | 'Pcnx4' | 23.67 | 31.69 | 22.9 | 17.9 | 18.6 | 7.57 | 25.2 | 21.77 | 18.25 | 19.8 |

| | | | | | | | | | | | |
|--------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 67710 | 'Polr2g' | 171.6 | 195 | 196 | 279 | 212 | 228.3 | 145 | 184.4 | 155.9 | 195.77 |
| 67711 | 'Nsmce1' | 57.61 | 73.56 | 43.6 | 76.2 | 64 | 46.35 | 49.5 | 59.08 | 39.68 | 59.27 |
| 67712 | 'Slc25a37' | 0.71 | 0.1 | 0.79 | 1.87 | 1.09 | 0 | 0.42 | 1.22 | 0.01 | 0.22 |
| 67713 | 'Dnajc19' | 115.8 | 67.76 | 69.9 | 113 | 103 | 123.3 | 62.7 | 96.95 | 125.2 | 78.53 |
| 67722 | 'Actl11' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 67724 | 'Pop1' | 6.96 | 3.03 | 0 | 0.02 | 3.16 | 1.32 | 4.9 | 2.18 | 2.17 | 1.57 |
| 67725 | 'Nudt13' | 7.17 | 5.81 | 9.75 | 17.3 | 8.01 | 0.02 | 0.02 | 4.18 | 5.69 | 3.75 |
| 67726 | 'Fam114a2' | 15.97 | 22.49 | 31.1 | 27.3 | 35.1 | 40.17 | 20.1 | 31.4 | 16.92 | 23.12 |
| 67727 | 'Stx17' | 1.48 | 1.63 | 2.85 | 2.33 | 0.46 | 1.14 | 3.13 | 0.21 | 1.59 | 1.09 |
| 67728 | 'Dph2' | 20.09 | 6.02 | 8.65 | 16.6 | 13.4 | 10.83 | 5.48 | 10.73 | 15.98 | 14.05 |
| 67729 | 'Mansc1' | 0 | 0.08 | 0.18 | 0 | 0.06 | 0 | 0 | 0 | 2.37 | 1.45 |
| 677296 | 'Fcr16' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.59 | 0.98 | 0 |
| 67731 | 'Fbxo32' | 1.01 | 2.72 | 0.06 | 0.13 | 4.85 | 0.07 | 0.05 | 0.5 | 0.48 | 0.61 |
| 67732 | 'lah1' | 11.86 | 18.15 | 32.8 | 41.8 | 23.4 | 42.6 | 33.6 | 39.1 | 13.97 | 17.56 |
| 67733 | 'Itgb3bp' | 4.37 | 5.4 | 1.18 | 3.18 | 1.8 | 3.86 | 1.73 | 2.03 | 1.74 | 9.58 |
| 67736 | 'Ccdc130' | 20.84 | 14.86 | 19.6 | 14.4 | 16.1 | 18.84 | 3.56 | 9.51 | 20.48 | 6.51 |
| 67738 | 'Ppid' | 134.6 | 121.9 | 97.1 | 62.6 | 90.8 | 134.5 | 127 | 105.4 | 131.1 | 112.43 |
| 67739 | 'Slc48a1' | 65.64 | 46.94 | 44.5 | 67.7 | 98.5 | 98.48 | 50.5 | 50.32 | 69.17 | 55.65 |
| 67742 | 'Samsn1' | 0 | 0.18 | 0 | 0 | 0 | 2.34 | 0 | 0 | 0 | 0 |
| 67747 | 'Ribc2' | 0 | 0 | 0.97 | 0 | 3.68 | 2.19 | 0 | 0 | 0 | 5.58 |
| 67749 | 'Mgarp' | 0 | 0 | 0 | 0.05 | 6.58 | 0 | 0 | 0 | 0 | 0 |
| 67752 | 'Ppp1r32' | 15.03 | 26.03 | 4.65 | 0 | 7.37 | 23.44 | 0.03 | 9.63 | 14.52 | 24.87 |
| 67753 | 'Eqtn' | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67755 | 'Ddx47' | 49.07 | 47.21 | 53.7 | 72.4 | 60.3 | 53.2 | 51.3 | 59.45 | 27.43 | 50.41 |
| 67759 | 'Plgrkt' | 10.79 | 43.49 | 25.6 | 4.35 | 23.2 | 10.53 | 7.16 | 13.19 | 1.92 | 25.27 |
| 67760 | 'Slc38a2' | 11.63 | 16.79 | 13.8 | 8.5 | 6.3 | 6.33 | 11.3 | 14.56 | 14.88 | 12.56 |
| 67763 | 'Prpsap1' | 74.5 | 72 | 39.1 | 61.4 | 42.5 | 88.15 | 80.8 | 61.26 | 90.33 | 97.81 |
| 67767 | 'Jagn1' | 109.3 | 86.68 | 82.4 | 51.7 | 78.6 | 116.5 | 66.6 | 147.4 | 76.62 | 93.14 |
| 67768 | 'N6amt1' | 26.84 | 32.12 | 37.9 | 22.5 | 30.4 | 28.89 | 13.5 | 38.41 | 31.06 | 33.51 |
| 67769 | 'Gpatch2' | 4.1 | 13.59 | 5.92 | 2.43 | 7.88 | 6.7 | 3.63 | 5.88 | 9.29 | 3.7 |
| 67770 | 'Caap1' | 4.06 | 2.9 | 1.86 | 6.79 | 0.23 | 0.83 | 1.28 | 5.29 | 5.16 | 3.2 |
| 67771 | 'Arpc5' | 152.3 | 152.3 | 48.5 | 176 | 136 | 146.1 | 82.9 | 111.4 | 141.3 | 144.01 |
| 67772 | 'Chd8' | 3.86 | 2.59 | 4.76 | 2.32 | 6.29 | 6.32 | 5.34 | 5.79 | 6.06 | 5.72 |
| 67773 | 'Kat8' | 39.36 | 17.1 | 22.3 | 16.7 | 15.8 | 12.39 | 17.4 | 13.12 | 23.44 | 38.9 |
| 67774 | 'Borcs5' | 30.75 | 30.49 | 32.5 | 13.7 | 27 | 45.44 | 41.9 | 38.83 | 40.06 | 35.17 |
| 67775 | 'Rtp4' | 10.18 | 0.62 | 14.7 | 14.8 | 0.19 | 7.16 | 5.24 | 1.75 | 3.16 | 2.11 |
| 67776 | 'Vwa5a' | 1.35 | 0 | 6.51 | 0 | 0.01 | 5.27 | 0 | 1.95 | 2.98 | 13.35 |
| 67778 | 'Zfp639' | 17.51 | 16.2 | 14.7 | 23.6 | 12.6 | 14.51 | 19.4 | 9.51 | 1.01 | 0.56 |
| 67781 | 'Ilf2' | 89.85 | 71.22 | 79.8 | 65.9 | 49.2 | 75.35 | 119 | 92.53 | 62.08 | 71.57 |
| 67784 | 'Plxnd1' | 0 | 0 | 1.11 | 0.17 | 0 | 0 | 0.89 | 0 | 0 | 0 |
| 67785 | 'Zmym4' | 2.94 | 1.94 | 4.42 | 2.15 | 1.46 | 1.78 | 0.16 | 2.03 | 1.66 | 2.4 |
| 67788 | 'Sfr1' | 146.1 | 160.9 | 140 | 171 | 160 | 162.1 | 149 | 136 | 145.7 | 125.34 |
| 677884 | 'Pakap' | 3.43 | 1.18 | 4.51 | 2.99 | 3.31 | 3.23 | 0 | 7.03 | 1.86 | 4.21 |
| 67789 | 'Dalrd3' | 75.6 | 80.73 | 54.4 | 10.1 | 66.2 | 77.42 | 95.9 | 57.36 | 66.38 | 64.64 |
| 67790 | 'Rab39b' | 11.36 | 10.3 | 21.5 | 3.87 | 0.47 | 5.94 | 12.1 | 9.71 | 14.08 | 11.2 |
| 67792 | 'Rgs8' | 1.11 | 0.53 | 5.45 | 0 | 2.84 | 1.67 | 13.2 | 3.82 | 0.01 | 0.05 |
| 67795 | 'Rnls' | 2.83 | 1.98 | 1.35 | 3.82 | 3.88 | 3 | 2.97 | 1.48 | 6.54 | 4.14 |
| 67797 | 'Snrrp48' | 16.44 | 21.23 | 13.3 | 18.6 | 6.04 | 20.47 | 7.07 | 9.87 | 26.29 | 15.32 |
| 67800 | 'Dgat2' | 28.48 | 26.56 | 25.8 | 45.7 | 41.3 | 41.77 | 22 | 35.65 | 26.96 | 39.12 |
| 67801 | 'Pllp' | 7.61 | 18.86 | 77.4 | 33 | 14.6 | 52.45 | 51.4 | 16.46 | 0.02 | 0.05 |
| 67803 | 'Limd2' | 37.4 | 36.64 | 32 | 27.7 | 37.7 | 48.08 | 19 | 24.16 | 54.77 | 26.35 |
| 67804 | 'Snx2' | 69.74 | 84.31 | 59.7 | 67.8 | 49.6 | 61.79 | 51.7 | 74.8 | 67.97 | 75.41 |
| 67808 | 'Tprgl' | 28.77 | 26.84 | 37 | 75 | 40.4 | 56.39 | 35.2 | 22.54 | 24.5 | 18.99 |
| 67809 | 'Rmdn3' | 18.84 | 51.02 | 57.2 | 73.1 | 43.3 | 48.49 | 52.3 | 52.26 | 65.82 | 60.24 |
| 67811 | 'Poldip2' | 66.94 | 53.36 | 116 | 79.3 | 37.7 | 79.83 | 77.8 | 63.2 | 46.74 | 48.92 |
| 67812 | 'Ubxn4' | 30.68 | 36.41 | 22.3 | 33.4 | 29.5 | 24.18 | 20.2 | 18.46 | 38.17 | 21.62 |
| 67815 | 'Sec14l2' | 0 | 0.04 | 1.83 | 0 | 0.12 | 0 | 4.49 | 0 | 0 | 0.03 |
| 67819 | 'Derl1' | 63.72 | 78.57 | 41.3 | 49.7 | 62.7 | 49.25 | 48.6 | 53.72 | 53.49 | 99.45 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 67824 | 'Nmral1' | 10.99 | 21.5 | 6.49 | 1.57 | 9.69 | 0 | 9.07 | 28.49 | 19.87 | 8.53 |
| 67826 | 'Snap47' | 738.5 | 751.8 | 738 | 624 | 560 | 678.6 | 715 | 801.4 | 573.7 | 558.46 |
| 67830 | 'Rer1' | 76.84 | 81.67 | 65.5 | 86.5 | 77.3 | 143.8 | 151 | 107.3 | 77.44 | 91.37 |
| 67832 | 'Brix1' | 8.19 | 15.92 | 15.4 | 26 | 16.7 | 24.9 | 11 | 19.78 | 13.95 | 15.86 |
| 67834 | 'ldh3a' | 157.3 | 172.2 | 206 | 106 | 169 | 159 | 193 | 209.5 | 169.9 | 160.77 |
| 67836 | 'Wdr83' | 59.07 | 16.61 | 26.6 | 44.9 | 40.1 | 45.31 | 70.1 | 54.35 | 41.2 | 64.24 |
| 67838 | 'Dnajb11' | 20.1 | 42.5 | 21.2 | 6.64 | 11.2 | 12.62 | 19.5 | 12.62 | 44.69 | 16.29 |
| 67839 | 'Gpsm1' | 18.02 | 21.06 | 28.6 | 18.3 | 15.2 | 15.07 | 10.3 | 16.88 | 11.77 | 6.4 |
| 67840 | 'Mrpl57' | 25.91 | 35.03 | 15.1 | 36.9 | 15.6 | 39.82 | 29.2 | 29.6 | 30.62 | 35.98 |
| 67841 | 'Atg3' | 35.35 | 26.79 | 34.9 | 57.7 | 14.9 | 15.92 | 21.4 | 22.74 | 37.43 | 8.6 |
| 67842 | 'Nop9' | 3.77 | 2.63 | 1.02 | 0 | 2.27 | 0.03 | 0.61 | 1.76 | 0 | 1.18 |
| 67843 | 'Slc35a4' | 25.66 | 17.05 | 37.9 | 21.9 | 32.8 | 37.08 | 28.2 | 29.68 | 7.85 | 23.7 |
| 67844 | 'Rab32' | 9.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.76 | 0 |
| 67845 | 'Rnf115' | 15.03 | 9.97 | 9.32 | 49.8 | 12.6 | 10.73 | 3.28 | 19.61 | 18.79 | 7.32 |
| 67846 | 'Tmem39a' | 14.94 | 2.32 | 4.19 | 6.16 | 3.86 | 1.3 | 10.4 | 5.3 | 5.11 | 9.41 |
| 67847 | 'Sncaip' | 4.04 | 1.65 | 0.31 | 6.27 | 0.61 | 0.89 | 0.03 | 1.95 | 1.94 | 0.25 |
| 67848 | 'Ddx55' | 17.61 | 3.17 | 8.75 | 13.6 | 8.63 | 21.62 | 6.82 | 14.52 | 10.02 | 6.54 |
| 67849 | 'Cdca5' | 0 | 0 | 1.62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67851 | '1700021F05Rik' | 17.2 | 22.46 | 14.9 | 27.5 | 20.5 | 27.97 | 22.4 | 44.48 | 22.02 | 23.6 |
| 67855 | 'Asprv1' | 0.06 | 0 | 2.03 | 0 | 0 | 0 | 7.84 | 0 | 0 | 1.99 |
| 67856 | 'Echdc3' | 0 | 0 | 0.05 | 7.05 | 0 | 0 | 4.05 | 1.51 | 0 | 0 |
| 67857 | 'Ppp6c' | 23.61 | 23.95 | 25.3 | 33.8 | 13.7 | 19.96 | 28.3 | 14.57 | 16.62 | 35.04 |
| 67859 | 'Cysrt1' | 0 | 0 | 0 | 0 | 0 | 8.91 | 0 | 0 | 0 | 0 |
| 67860 | 'S100a16' | 34.11 | 36.69 | 160 | 83.6 | 43.7 | 55.84 | 81.4 | 35.62 | 18.31 | 34.67 |
| 67861 | 'Akr1b10' | 21.85 | 10.28 | 33.2 | 0 | 16.2 | 24.5 | 41.4 | 25.07 | 18.1 | 30.29 |
| 67862 | '2310033P09Rik' | 43.51 | 19.04 | 28.4 | 33.6 | 57.8 | 78.92 | 25 | 37.04 | 22 | 55.22 |
| 67863 | 'Slc25a11' | 234.9 | 182.7 | 321 | 163 | 192 | 303.4 | 252 | 240.1 | 171 | 263.33 |
| 67864 | 'Yipf4' | 33.23 | 30.46 | 29.1 | 52.9 | 25.7 | 9.39 | 28.6 | 19.23 | 24.37 | 8.11 |
| 67865 | 'Rgs10' | 132.7 | 144.5 | 315 | 124 | 30.9 | 172.7 | 157 | 331.1 | 272 | 75.65 |
| 67866 | 'Wfdc1' | 0 | 0.08 | 4.81 | 0 | 89.1 | 6.6 | 0.04 | 1.44 | 4.23 | 3.11 |
| 67867 | 'Lrrc28' | 5.54 | 7.25 | 5.91 | 0.02 | 8.48 | 2.26 | 8.39 | 5.92 | 8.64 | 13.78 |
| 67869 | 'Paip2' | 262.7 | 248.6 | 246 | 227 | 208 | 269.8 | 239 | 272.6 | 270.5 | 295.57 |
| 67870 | 'Enoph1' | 49.03 | 52.81 | 52.1 | 26.1 | 97 | 60.58 | 55.9 | 40.45 | 34.41 | 38.57 |
| 67871 | 'Mrff' | 16.07 | 19.22 | 16 | 21 | 12.6 | 26.71 | 24.3 | 21.23 | 24.42 | 9.99 |
| 67872 | 'Nsmce4a' | 2.87 | 8.28 | 8.84 | 27.1 | 11.3 | 18.92 | 4.6 | 8 | 6.73 | 8.51 |
| 67873 | 'Mri1' | 9.69 | 7.38 | 13.7 | 19.8 | 3.21 | 11.6 | 12.9 | 12.62 | 6.59 | 8.09 |
| 67874 | 'Rprm' | 169.6 | 56.15 | 50.2 | 48.3 | 86.8 | 17.89 | 102 | 42.63 | 4.39 | 9.22 |
| 67876 | 'Coq10b' | 18.77 | 26.65 | 18 | 78.2 | 19.6 | 26.6 | 20.9 | 29.12 | 22.91 | 30.04 |
| 67877 | 'Naa20' | 130.9 | 106.8 | 102 | 141 | 170 | 133.7 | 110 | 155.3 | 190.6 | 103.22 |
| 67878 | 'Tmem33' | 13.43 | 11.66 | 9.98 | 13 | 8.33 | 4.68 | 4.7 | 9.22 | 11.02 | 7.78 |
| 67880 | 'Dcxr' | 9.84 | 17.77 | 3.71 | 15.4 | 15.2 | 6.24 | 12.9 | 18.19 | 14.46 | 21.39 |
| 67881 | 'Mdp1' | 29.76 | 41.47 | 32.3 | 46.6 | 64.9 | 34.64 | 29.5 | 18.84 | 54 | 41.44 |
| 67883 | 'Uxs1' | 19.43 | 32.83 | 11.3 | 25.9 | 15.3 | 26.04 | 24.3 | 10.98 | 35.35 | 40.46 |
| 67884 | '1810043G02Rik' | 69.31 | 118.3 | 104 | 95.8 | 75.2 | 150.7 | 113 | 139.1 | 76.25 | 87.83 |
| 67886 | 'Camsap2' | 3.94 | 2.75 | 6.87 | 7.09 | 3.2 | 2.57 | 1.17 | 5.42 | 4.03 | 4.06 |
| 67887 | 'Saraf' | 672.2 | 835 | 501 | 883 | 528 | 736.9 | 471 | 535.4 | 608.9 | 783.85 |
| 67888 | 'Tmem100' | 4.92 | 7.74 | 31.2 | 27.9 | 2.27 | 5.82 | 13 | 10.78 | 0 | 10.22 |
| 67889 | 'Rbm18' | 35.05 | 49 | 41.2 | 60.9 | 44.7 | 42.27 | 30 | 67.95 | 60.48 | 35.68 |
| 67890 | 'Ufm1' | 4.81 | 5.42 | 5.06 | 3.42 | 6.33 | 3.48 | 3.57 | 4.6 | 5.77 | 8.64 |
| 67891 | 'Rpl4' | 255.2 | 379.9 | 287 | 478 | 308 | 240.1 | 300 | 220.9 | 209.7 | 276.23 |
| 67892 | 'Coa6' | 67.66 | 45.82 | 35.1 | 52.8 | 50.5 | 47.48 | 38 | 65.15 | 47.07 | 39.86 |
| 67893 | 'Tmem86a' | 7.25 | 9.17 | 17.3 | 8.9 | 7.55 | 43.7 | 25.9 | 19.51 | 21.66 | 15.1 |
| 67894 | 'Fam45a' | 27.54 | 28.73 | 33.7 | 20.4 | 50.4 | 39.68 | 30.7 | 49.5 | 22.42 | 36.4 |
| 67895 | 'Ppa1' | 115.3 | 158.8 | 133 | 155 | 138 | 170.6 | 159 | 123.8 | 126.9 | 132.27 |
| 67896 | 'Ccadc80' | 0 | 1.22 | 1.41 | 0 | 0.01 | 0 | 0 | 0 | 0.49 | 0 |
| 67897 | 'Rnmt' | 48.53 | 34.48 | 34.5 | 86.7 | 43.1 | 46.89 | 35.4 | 44.87 | 57.42 | 72.95 |
| 67898 | 'Pef1' | 68.53 | 111.5 | 144 | 54.2 | 146 | 106.9 | 70.8 | 131.3 | 100.3 | 120.38 |
| 67899 | 'Cmc1' | 12.69 | 22.66 | 21.3 | 54.5 | 12.3 | 22.19 | 9.37 | 16.59 | 2.85 | 10.9 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 67900 | 'Mtfp1' | 87.66 | 98 | 85.6 | 44 | 94.2 | 148.6 | 77.4 | 127.9 | 119.7 | 80.07 |
| 67902 | 'Sumf2' | 31.13 | 29.68 | 13.2 | 22.4 | 10.5 | 21.83 | 7.28 | 3.77 | 19.3 | 12.51 |
| 67903 | 'Gipc1' | 32.04 | 53.93 | 30.1 | 35.1 | 39.9 | 66.25 | 43.8 | 42.24 | 31.38 | 51.45 |
| 67905 | 'Ppm1m' | 12.85 | 31.14 | 16.2 | 15.2 | 17.5 | 16.42 | 17.2 | 7.73 | 22.04 | 14.69 |
| 67911 | 'Zfp169' | 2.14 | 0.85 | 0.89 | 0.55 | 2.17 | 0 | 1.91 | 3.57 | 2.49 | 1.38 |
| 67912 | '1600012H06Rik' | 2.11 | 5.23 | 4.06 | 0.04 | 3.53 | 4.22 | 4.51 | 4.36 | 5.77 | 4.29 |
| 67914 | 'Coq9' | 70.82 | 64.22 | 59.5 | 12.8 | 40.4 | 84.29 | 95.8 | 69.19 | 47.59 | 77.76 |
| 67916 | 'Plpp3' | 38.55 | 56.68 | 23.7 | 15 | 15.9 | 40.02 | 10.1 | 8.38 | 28.67 | 7.95 |
| 67917 | 'Zcchc3' | 1.51 | 4.05 | 4.25 | 1.84 | 3.68 | 0.61 | 7.2 | 2.99 | 5.64 | 1.09 |
| 67920 | 'Mak16' | 22.62 | 33.69 | 20.4 | 15.6 | 23.8 | 20.72 | 5.22 | 24.94 | 5.03 | 25.12 |
| 67921 | 'Ube2f' | 40.44 | 40.48 | 36.8 | 18.5 | 36.2 | 23.05 | 40.1 | 25.72 | 50.87 | 27.75 |
| 67922 | 'Fam32a' | 69.84 | 82.57 | 102 | 93.2 | 57.7 | 127.9 | 121 | 85.55 | 72.58 | 58.34 |
| 67923 | 'Eloc' | 135.7 | 127.3 | 83.2 | 143 | 75.6 | 90.86 | 92 | 84.47 | 99.17 | 86.35 |
| 67933 | 'Hcfc2' | 2.72 | 4.73 | 16.7 | 3.68 | 9.83 | 3.14 | 2.66 | 7.21 | 7.13 | 8.31 |
| 67935 | 'Ces5a' | 2.42 | 0 | 0 | 0 | 1.09 | 0 | 7.01 | 0 | 6.44 | 2.49 |
| 67936 | 'Wdr55' | 12.87 | 8.05 | 9.79 | 23 | 10.2 | 13.78 | 4.81 | 19.31 | 17.65 | 16.29 |
| 67937 | 'Tmem59l' | 911.2 | 1070 | 928 | 1048 | 736 | 1069 | 740 | 1145 | 1341 | 1289.12 |
| 67938 | 'Myl12b' | 789.1 | 622.9 | 653 | 536 | 732 | 1102 | 762 | 960.2 | 810.2 | 934 |
| 67939 | 'Prorsd1' | 4.78 | 5.02 | 5.81 | 3.91 | 5.26 | 11.79 | 11.1 | 3.67 | 12.78 | 5.81 |
| 67941 | 'Rps27l' | 84.52 | 98.52 | 71.3 | 194 | 71.4 | 134.8 | 106 | 43.27 | 95.02 | 109.36 |
| 67942 | 'Atp5g2' | 215.9 | 228.5 | 233 | 210 | 227 | 331.7 | 222 | 188 | 193.9 | 232.31 |
| 67943 | 'Mesd' | 67.69 | 137.3 | 60.3 | 87.6 | 60.8 | 97.57 | 57.2 | 72.7 | 144.7 | 103.72 |
| 67945 | 'Rpl41' | 773.5 | 787.7 | 904 | 1310 | 542 | 1031 | 756 | 356.8 | 780.6 | 632.86 |
| 67946 | 'Spata6' | 2.5 | 3.83 | 3 | 1.54 | 0.89 | 0.6 | 0 | 3.49 | 0.47 | 0 |
| 67948 | 'Fbxo28' | 2.21 | 0.52 | 1.73 | 3.06 | 0.57 | 0.96 | 2.48 | 0.44 | 2.65 | 0.7 |
| 67949 | 'Nifk' | 37 | 26.55 | 13 | 28.4 | 30.2 | 37.62 | 30.6 | 31.16 | 30.59 | 36.47 |
| 67951 | 'Tubb6' | 0.03 | 7.73 | 3.64 | 0.03 | 0 | 0 | 0 | 0.02 | 0.22 | 3.37 |
| 67952 | 'Tomm20' | 72.11 | 86.08 | 109 | 107 | 85.6 | 77.91 | 102 | 99.99 | 99.13 | 108.19 |
| 67955 | 'Sugt1' | 41.06 | 37.12 | 12.1 | 39.4 | 42.2 | 37.32 | 40.2 | 36.21 | 41.78 | 38.17 |
| 67956 | 'Kmt5a' | 4.81 | 1.78 | 0.8 | 7.56 | 2.85 | 1.95 | 3.88 | 2.02 | 2.3 | 4.11 |
| 67958 | 'U2surp' | 12.92 | 16.77 | 17.8 | 21.3 | 15.4 | 15.01 | 17.5 | 12.79 | 14.22 | 14.88 |
| 67959 | 'Puf60' | 181.9 | 150.5 | 162 | 191 | 213 | 294.6 | 195 | 226.4 | 222.1 | 234.53 |
| 67963 | 'Npc2' | 23.36 | 40.45 | 22.3 | 39.1 | 16.7 | 38.84 | 16.1 | 26.04 | 40.57 | 32.94 |
| 67966 | 'Zcchc10' | 23.15 | 12.73 | 9.23 | 11.1 | 18.8 | 0.11 | 0.16 | 13.57 | 17.55 | 18.95 |
| 67967 | 'Pold3' | 19.42 | 7 | 21.1 | 20.2 | 13.7 | 15.64 | 11.8 | 22.36 | 29.01 | 22.87 |
| 67968 | 'Ooep' | 4.5 | 5.34 | 0.69 | 12.2 | 4.72 | 3.07 | 0.13 | 4.94 | 2.45 | 9.49 |
| 67971 | 'Tppp3' | 489.6 | 391.1 | 397 | 610 | 492 | 402 | 259 | 314.9 | 296 | 367.08 |
| 67972 | 'Atp2b1' | 26.09 | 58.01 | 26.1 | 24.4 | 45.8 | 37.67 | 23.1 | 41.86 | 42.74 | 25.94 |
| 67973 | 'Mphosph10' | 5.81 | 8.5 | 15.5 | 8.24 | 11.8 | 15.48 | 9.35 | 9.16 | 14.35 | 11.3 |
| 67974 | 'Ccny' | 9.39 | 4.42 | 10.9 | 8.02 | 9.06 | 4.06 | 3.91 | 2.36 | 7.26 | 0 |
| 67976 | 'Trabd' | 17.95 | 5.82 | 16.3 | 10.7 | 17.9 | 5.72 | 17.9 | 16.21 | 6.1 | 8.39 |
| 67978 | 'Tctn2' | 27.65 | 36.3 | 29 | 21.8 | 11 | 6.63 | 22.7 | 2.49 | 17.06 | 34.96 |
| 67979 | 'Atad1' | 83.25 | 59.33 | 69.1 | 29.7 | 26.9 | 42.42 | 52.2 | 70.19 | 67.8 | 71.85 |
| 67980 | 'Gnpda2' | 56.1 | 32.02 | 38.7 | 35 | 35.6 | 62.98 | 20.6 | 27.98 | 43.39 | 48.53 |
| 67983 | 'Pdzd9' | 0.87 | 0.36 | 0.27 | 0.62 | 1.47 | 0 | 1.46 | 0.26 | 0.37 | 0.31 |
| 67988 | 'Tmx3' | 20.57 | 13.15 | 16.1 | 15.5 | 6.9 | 3.75 | 4.81 | 10.41 | 20.88 | 22.37 |
| 67991 | 'Nacc2' | 3.69 | 3.89 | 8.61 | 0.06 | 19.6 | 9.31 | 6.65 | 5.31 | 0.85 | 4.88 |
| 67993 | 'Nudt12' | 10.22 | 0 | 1.33 | 0 | 10.8 | 2.06 | 6.21 | 0 | 3.6 | 0.47 |
| 67994 | 'Mrps11' | 76.69 | 56.13 | 67.6 | 60.2 | 56.4 | 97.13 | 61.1 | 67.95 | 61.05 | 71.01 |
| 67996 | 'Srsf6' | 45.67 | 48.63 | 34.1 | 39.4 | 29.1 | 35.81 | 38 | 38.98 | 48.47 | 21.75 |
| 67997 | 'Ddx59' | 4.34 | 2.69 | 12.6 | 15.8 | 10.6 | 10.08 | 11.7 | 1.56 | 9.39 | 15.19 |
| 67998 | 'Retreg3' | 7.15 | 14.52 | 3.65 | 5.14 | 12.7 | 6.63 | 7.76 | 12.19 | 24.75 | 6.77 |
| 68001 | 'Cfap298' | 51.92 | 78.64 | 63.4 | 91.7 | 58.8 | 57.46 | 51.5 | 57.21 | 39.52 | 47.31 |
| 68002 | 'Sdhaf4' | 128.3 | 133.5 | 110 | 84.6 | 124 | 190.1 | 46 | 113.5 | 167.2 | 177.97 |
| 68009 | 'Defa20' | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 |
| 68010 | 'Bambi' | 0.53 | 0.84 | 1.16 | 6.58 | 1.59 | 0.35 | 1.69 | 0.69 | 2.24 | 1.04 |
| 68011 | 'Snrpg' | 114.3 | 170.8 | 128 | 226 | 70.1 | 263.7 | 126 | 65.74 | 161.8 | 79.25 |
| 68014 | 'Zwilch' | 0.06 | 0 | 2.57 | 0 | 0 | 0 | 3.03 | 0 | 3.19 | 0.02 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 68015 | 'Trap1' | 57.34 | 49.35 | 56.3 | 64.9 | 32.2 | 55.35 | 53.2 | 49.07 | 39.7 | 25.21 |
| 68016 | 'Cavin4' | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0.02 | 0.38 |
| 68017 | 'Mrm2' | 11.91 | 24.08 | 18.5 | 25.3 | 14 | 32.97 | 2.01 | 23.95 | 6.98 | 19.62 |
| 68018 | 'Col4a3bp' | 5.88 | 3.5 | 5.41 | 0.19 | 4.26 | 4.93 | 4.19 | 3.41 | 7.25 | 5.58 |
| 68020 | 'Apopt1' | 51.72 | 48.83 | 26.4 | 58.8 | 68.2 | 53.56 | 45.5 | 44.04 | 48.92 | 54.32 |
| 68021 | 'Bphl' | 39.44 | 23.47 | 32.5 | 24.5 | 30.2 | 63.57 | 62.5 | 53.57 | 57.15 | 56.29 |
| 68023 | 'Pdf' | 34.34 | 30.48 | 79.4 | 41.1 | 29.4 | 35.06 | 60.6 | 41.95 | 40.51 | 21.37 |
| 68024 | 'Hist1h2bc' | 46.88 | 50.27 | 22.5 | 43.2 | 22.9 | 20.95 | 47 | 22.44 | 12.59 | 41.06 |
| 68026 | 'Pclaf' | 0.59 | 0.02 | 0.12 | 0 | 0 | 0.19 | 0 | 0 | 0.2 | 0.05 |
| 68027 | 'Tmem178' | 1.57 | 7.45 | 10 | 10.7 | 18.2 | 14.85 | 10.4 | 7.93 | 4.46 | 3.04 |
| 68028 | 'Rpl22l1' | 308.1 | 396.3 | 352 | 417 | 200 | 395.8 | 338 | 237.8 | 276 | 248.3 |
| 68031 | 'Rnf146' | 26.19 | 25.96 | 10.2 | 8.27 | 21.9 | 25.9 | 22.7 | 30.14 | 26.1 | 25.42 |
| 68032 | 'Emc4' | 318.3 | 284.3 | 267 | 314 | 322 | 407.9 | 206 | 386.8 | 349.8 | 303.57 |
| 68033 | 'Cox19' | 70.2 | 47.08 | 50.3 | 39.7 | 39.5 | 73.64 | 28.3 | 57.44 | 74.99 | 48.56 |
| 68034 | 'Fam122a' | 6.05 | 0.91 | 1.17 | 3.18 | 4.62 | 2.52 | 2.41 | 5.67 | 8.41 | 3.37 |
| 68035 | 'Rbm42' | 59.92 | 52.12 | 63.8 | 69.3 | 29.1 | 36.64 | 44.7 | 24.63 | 53.28 | 26.44 |
| 68036 | 'Zfp706' | 84.38 | 95.03 | 75.7 | 76.8 | 104 | 81.28 | 114 | 92.1 | 62.09 | 85.81 |
| 68038 | 'Chid1' | 83.45 | 115.4 | 74.6 | 37 | 33.2 | 51.18 | 64 | 100.3 | 59.04 | 67.79 |
| 68039 | 'Nmb' | 23.02 | 19.46 | 26.6 | 43.1 | 0 | 0.04 | 6.68 | 36.57 | 3.14 | 17.47 |
| 68040 | 'Zfp593' | 9.99 | 10.57 | 9.34 | 22 | 0.95 | 4.51 | 6.22 | 6.54 | 2.67 | 6.29 |
| 68041 | 'Mid1ip1' | 111.5 | 148.2 | 122 | 94.8 | 107 | 201.3 | 72.1 | 129.1 | 108.2 | 191.01 |
| 68043 | 'Eef1akmt1' | 98.88 | 65.77 | 72.1 | 60.3 | 69 | 138.3 | 80 | 92.67 | 99.48 | 94.92 |
| 68044 | 'Chac2' | 16.07 | 17.55 | 7.57 | 42.3 | 8.96 | 3.96 | 9.64 | 20.84 | 16.8 | 7.05 |
| 68045 | 'Rtraf' | 66.22 | 65.13 | 53.2 | 60.1 | 43.7 | 62.1 | 52.3 | 79.21 | 62.58 | 60.31 |
| 68046 | '2700062C07Rik' | 24.98 | 22.75 | 39.6 | 9.91 | 14 | 20.68 | 25.6 | 12.92 | 31.46 | 17.78 |
| 68047 | 'Mpnd' | 28.55 | 10.75 | 8.69 | 10.7 | 12.6 | 28.8 | 12.9 | 36.33 | 30.93 | 2.98 |
| 68048 | 'Aen' | 20.18 | 14.14 | 22.1 | 20.9 | 21 | 20.77 | 13.9 | 37.79 | 25 | 22.15 |
| 68050 | 'Akirin1' | 47.89 | 71.6 | 45.1 | 87.3 | 34.5 | 30.01 | 40.8 | 38.19 | 50.09 | 10.76 |
| 68051 | 'Nutf2' | 104.9 | 119.5 | 109 | 104 | 117 | 180.5 | 113 | 131.5 | 113.1 | 129.8 |
| 68052 | 'Rps13' | 235.4 | 280.2 | 312 | 287 | 223 | 377 | 284 | 196 | 297.9 | 166.14 |
| 68053 | 'Ubxn2b' | 6.21 | 6.28 | 6.67 | 0 | 5.46 | 4.67 | 4.63 | 7.19 | 10.89 | 8.37 |
| 68055 | 'Atp5s' | 44.47 | 27.2 | 32.5 | 35.2 | 42.6 | 38.79 | 29.4 | 25.89 | 49.31 | 39 |
| 68058 | 'Chd1l' | 1.56 | 7.38 | 1.36 | 0.02 | 4.28 | 8.05 | 0.58 | 2.87 | 3.5 | 4.75 |
| 68059 | 'Tm9sf2' | 84.59 | 110.1 | 89.7 | 99.1 | 74.4 | 62.15 | 90.4 | 109 | 104.3 | 95.4 |
| 68066 | 'Slc25a39' | 207.4 | 240.5 | 119 | 239 | 220 | 212.1 | 192 | 152.5 | 222.1 | 194.48 |
| 68067 | 'Mrnip' | 33.77 | 50.29 | 30.3 | 45.8 | 31.1 | 83.07 | 47 | 46.71 | 45.92 | 54.15 |
| 68070 | 'Pdzd2' | 0.85 | 0.5 | 1.88 | 0.49 | 1.09 | 0.11 | 1.57 | 0.44 | 1.32 | 1.35 |
| 68073 | 'Fam173b' | 15.48 | 6 | 5.66 | 0 | 25.6 | 10.88 | 6.56 | 6.68 | 17.8 | 17.42 |
| 68075 | 'Lurap1' | 12.65 | 18.59 | 8.86 | 1.46 | 21.4 | 7.13 | 4.81 | 3.48 | 3.94 | 8.08 |
| 68077 | 'Nop53' | 50.83 | 40.9 | 60.4 | 61.4 | 49.9 | 39.05 | 60.6 | 69.89 | 42.92 | 46.32 |
| 68079 | 'Pdcd2l' | 27.27 | 24.07 | 15.9 | 37.6 | 32.8 | 34.39 | 23.5 | 34.46 | 48.26 | 12.53 |
| 68080 | 'Gpn3' | 9.87 | 38.13 | 19.2 | 16.5 | 23.8 | 32.68 | 11.4 | 22.44 | 20.02 | 35.55 |
| 68082 | 'Dusp19' | 2.38 | 9.72 | 12.5 | 0.04 | 10.2 | 2.85 | 5.24 | 4.59 | 5.18 | 4.11 |
| 68083 | 'Pak1ip1' | 63.74 | 51.18 | 50.6 | 44.2 | 45.8 | 55.31 | 60.9 | 62.33 | 38.48 | 34.09 |
| 68087 | 'Dcakd' | 42.35 | 47.54 | 18.7 | 24.3 | 40 | 45.1 | 20.7 | 18.64 | 31.6 | 19.75 |
| 68089 | 'Arpc4' | 83.09 | 91.11 | 84.7 | 86.3 | 111 | 162.6 | 112 | 97.11 | 84.37 | 91.89 |
| 68090 | 'Yif1a' | 18.47 | 31.22 | 22.6 | 39.8 | 22.5 | 29.42 | 9.88 | 46.81 | 21.71 | 14.71 |
| 68092 | 'Ncbp2' | 56.06 | 44.78 | 56 | 57.2 | 49.4 | 67.81 | 27.7 | 54.46 | 36.58 | 41.5 |
| 68094 | 'Smarcc2' | 22.96 | 17.64 | 31.1 | 17.2 | 26.6 | 8.23 | 20.1 | 24.79 | 27.56 | 22.46 |
| 68095 | 'Ociad1' | 458.5 | 542.4 | 413 | 377 | 414 | 518.1 | 461 | 506.7 | 348 | 385.74 |
| 68097 | 'Dynll2' | 27.83 | 14.29 | 21.7 | 15.4 | 43.2 | 23.4 | 32.7 | 21.01 | 28.71 | 15.7 |
| 68098 | 'Rchy1' | 55.85 | 33.32 | 28.2 | 53.2 | 56.9 | 59.11 | 42.7 | 47.45 | 58.14 | 37.15 |
| 68099 | 'Fam92a' | 26.64 | 41.43 | 43.5 | 32.6 | 27.2 | 21.11 | 49.3 | 41.85 | 21.09 | 40.74 |
| 68106 | 'Nt5c3b' | 35.31 | 45.98 | 49.7 | 127 | 36.3 | 69.28 | 57.4 | 62.39 | 37.57 | 48.39 |
| 68107 | 'Cntd1' | 0 | 0 | 0 | 3.03 | 1.17 | 0 | 2.35 | 0 | 0 | 0 |
| 68112 | 'Entr1' | 14.37 | 25.46 | 26.7 | 53.3 | 12.7 | 13.82 | 18 | 21.08 | 34.4 | 8.94 |
| 68114 | 'Mum1' | 24 | 27.32 | 33.2 | 0.18 | 16.3 | 31.16 | 18.4 | 34.84 | 22.81 | 29.46 |
| 68115 | 'Maip1' | 16.34 | 31.32 | 17.5 | 4.61 | 3.56 | 2.6 | 5.81 | 16.6 | 15.83 | 11.49 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 68117 | 'Apool' | 8.98 | 2.88 | 0.18 | 0.05 | 4.93 | 4.8 | 0 | 12.43 | 5.58 | 8.95 |
| 68118 | 'Atg101' | 80.02 | 29.13 | 48.9 | 106 | 55.7 | 93.73 | 63.3 | 63.35 | 33.23 | 46.76 |
| 68119 | 'Cmtm3' | 4.86 | 2.85 | 6.08 | 0 | 3.47 | 6.89 | 6.23 | 4.42 | 0 | 4.32 |
| 68121 | 'Cep70' | 18.7 | 20.96 | 20.8 | 20.3 | 39.9 | 17.75 | 12 | 22 | 20.85 | 18.64 |
| 68126 | 'Fahd2a' | 10.69 | 16.71 | 26.9 | 75.7 | 55.3 | 47.21 | 27.9 | 30.28 | 13.57 | 48.8 |
| 68133 | 'Gcsh' | 68.85 | 69.62 | 112 | 95.8 | 76.6 | 100.2 | 121 | 48.2 | 32.77 | 75.8 |
| 68134 | 'Upf3b' | 25.06 | 20.07 | 19.7 | 23.3 | 16.6 | 25.15 | 23 | 10.41 | 17.4 | 21.17 |
| 68135 | 'Eif3h' | 127.3 | 131.5 | 156 | 92.2 | 76.9 | 132.3 | 132 | 104.6 | 95.52 | 151.4 |
| 68137 | 'Kdelr1' | 49.5 | 83.14 | 42 | 56.3 | 49.5 | 59.72 | 48.3 | 39.5 | 36.28 | 55.72 |
| 68140 | 'Tigd2' | 9.91 | 13.79 | 9.24 | 14.3 | 9.64 | 10.18 | 1.86 | 10.71 | 8.43 | 3.56 |
| 68142 | 'Ino80' | 1.62 | 2.68 | 1.09 | 3.64 | 1.36 | 0.23 | 0.68 | 1.71 | 3.18 | 2.48 |
| 68145 | 'Etaa1' | 0.83 | 0 | 0 | 0 | 0.19 | 0.68 | 0 | 0 | 0.93 | 2.47 |
| 68146 | 'Arl13b' | 3.38 | 2.6 | 1.09 | 4.53 | 1.44 | 2.88 | 5.39 | 0.88 | 1.12 | 1.98 |
| 68147 | 'Gar1' | 0.64 | 5.65 | 2.9 | 4.27 | 7.12 | 1.77 | 0 | 2.45 | 0.86 | 1.2 |
| 68149 | 'Otub2' | 6.55 | 8.49 | 8.24 | 6.18 | 9.78 | 7.36 | 3.41 | 4.48 | 7.76 | 2.39 |
| 68151 | 'Wls' | 16.93 | 4.06 | 6.07 | 0.32 | 2.84 | 1.51 | 0 | 0 | 0 | 8.64 |
| 68152 | 'Fam133b' | 10.01 | 5.91 | 14.1 | 11.2 | 6.78 | 16.66 | 4.16 | 6.66 | 14.08 | 6.36 |
| 68153 | 'Gtf2e2' | 14.49 | 26.78 | 10.3 | 9.16 | 24.7 | 17.89 | 6.56 | 27.42 | 18.07 | 30 |
| 68159 | 'Stx19' | 0.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.92 |
| 68165 | 'Fdx1l' | 75.43 | 56.02 | 114 | 51.5 | 107 | 88.5 | 60.1 | 69.77 | 58.77 | 31.9 |
| 68166 | 'Spire1' | 3.94 | 2.95 | 2.51 | 5.41 | 12.3 | 5.2 | 11.4 | 7.57 | 6.73 | 7.86 |
| 68169 | 'Ndnf' | 0.01 | 0 | 0 | 0.01 | 0 | 0.28 | 0 | 0 | 0 | 0.01 |
| 68170 | 'B230118H07Rik' | 35.96 | 52.43 | 39.3 | 26.4 | 53.3 | 75.11 | 58.2 | 41.34 | 42.24 | 69.06 |
| 68172 | 'Rpl39l' | 0 | 9.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68176 | 'Inka1' | 7.9 | 2.43 | 0.05 | 5.94 | 0 | 1.83 | 0 | 17.02 | 13.06 | 19.48 |
| 68177 | 'Ebp1' | 21.66 | 20.66 | 18.1 | 50.8 | 17.4 | 25.24 | 21.2 | 27.29 | 31.35 | 25.24 |
| 68178 | 'Cgnl1' | 0.1 | 0 | 0.59 | 0 | 0 | 0 | 0 | 0.01 | 0.05 | 0 |
| 68183 | 'Bcas2' | 147.1 | 165.1 | 165 | 168 | 138 | 191.4 | 155 | 140.6 | 152.4 | 151.57 |
| 68184 | 'Denr' | 85.56 | 80.51 | 93.9 | 116 | 87.1 | 119.2 | 80.1 | 100.2 | 98.43 | 77.4 |
| 68185 | 'Coa4' | 19.6 | 3.87 | 0.07 | 0 | 32.5 | 43.65 | 3.97 | 31.61 | 17.35 | 19.31 |
| 68187 | 'Fam135a' | 3.27 | 1.68 | 4.23 | 4 | 2.07 | 0.39 | 3.46 | 3.26 | 2.05 | 3.43 |
| 68188 | 'Sympk' | 2.17 | 3.36 | 10.3 | 11.1 | 2.09 | 2.28 | 5.2 | 4.44 | 5.06 | 1.69 |
| 68192 | 'Leprotl1' | 61.06 | 40.3 | 25.6 | 32.1 | 37.6 | 44.94 | 25.4 | 18.89 | 19.97 | 51.18 |
| 68193 | 'Rpl24' | 285.2 | 272.7 | 311 | 431 | 242 | 306.1 | 252 | 214.8 | 195.2 | 229.78 |
| 68194 | 'Ndufb4' | 387.3 | 364.6 | 402 | 539 | 412 | 682.4 | 467 | 318.1 | 646.2 | 471.35 |
| 68195 | 'Rnaset2b' | 27.91 | 34.61 | 33.9 | 18.9 | 19.1 | 53 | 46.7 | 22.98 | 32.79 | 13.2 |
| 68196 | 'Hsbp1' | 687.3 | 560.1 | 504 | 720 | 693 | 728.2 | 396 | 582.7 | 523 | 459.47 |
| 68197 | 'Ndufc2' | 496.7 | 516.5 | 526 | 580 | 421 | 498.9 | 436 | 403.3 | 389.5 | 435.78 |
| 68198 | 'Ndufb2' | 330.6 | 358.3 | 468 | 400 | 319 | 619.7 | 418 | 270.2 | 472.4 | 333.57 |
| 68201 | 'Ccadc34' | 14.43 | 12.78 | 16.7 | 11.6 | 8.57 | 17.95 | 9.1 | 6.03 | 8.16 | 13.15 |
| 68202 | 'Ndufa5' | 313 | 383.4 | 368 | 391 | 302 | 616.3 | 358 | 219.4 | 534.5 | 292.64 |
| 68203 | 'Diras2' | 6.67 | 0.71 | 5.45 | 0 | 5.36 | 0.05 | 6.24 | 4.42 | 4.5 | 2.61 |
| 68205 | 'Urm1' | 7.76 | 3.25 | 6.08 | 0 | 4.13 | 4.85 | 8.68 | 11.44 | 17.11 | 12.79 |
| 68209 | 'Rnaseh2c' | 23.31 | 27.34 | 24.8 | 14.4 | 37.3 | 38.25 | 60 | 28.19 | 63.82 | 45.17 |
| 68212 | 'Tmbim4' | 73.4 | 99.68 | 97.9 | 145 | 104 | 159.3 | 149 | 123 | 174.3 | 92.67 |
| 68215 | 'Fam98b' | 2.09 | 9.63 | 1.37 | 11.8 | 8.36 | 16.7 | 9.23 | 2.67 | 10.9 | 7.69 |
| 68219 | 'Nudt21' | 47.15 | 25.75 | 65.8 | 29.9 | 44.4 | 36.05 | 49.2 | 69.81 | 61.64 | 33.53 |
| 68222 | 'Fam166a' | 0 | 0 | 0.1 | 0 | 0 | 0.46 | 0 | 0 | 0 | 0.59 |
| 68226 | 'Efcab2' | 7.04 | 5.48 | 9.66 | 7.96 | 5.88 | 5.68 | 12.5 | 3.03 | 3.27 | 14.38 |
| 68229 | 'Spindoc' | 1.2 | 2.94 | 3.2 | 7.93 | 11.2 | 3.88 | 2.99 | 2.71 | 15.01 | 3.32 |
| 68233 | 'Fam229a' | 1.92 | 1.22 | 3.21 | 2.94 | 1.93 | 9.55 | 2.55 | 1.11 | 9.72 | 12.51 |
| 68235 | 'Mturn' | 11.46 | 14.83 | 11.1 | 8.99 | 4.31 | 1.65 | 7.52 | 5.39 | 12.68 | 10.58 |
| 68236 | 'Gtsf1l' | 0.11 | 0.06 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68240 | 'Rpa3' | 10.88 | 13.05 | 5.69 | 0 | 19.3 | 21 | 0 | 13.89 | 14.64 | 13.21 |
| 68241 | 'Mcrip2' | 9.3 | 9.45 | 29.7 | 11.7 | 25.3 | 1.84 | 9.92 | 10.62 | 14.47 | 13.59 |
| 68250 | 'Ciao2a' | 43.17 | 34.94 | 34.6 | 27 | 10.5 | 17.69 | 52.2 | 20.85 | 29.92 | 55.52 |
| 68251 | 'Babam1' | 63.27 | 76.2 | 96 | 89.2 | 77.8 | 98.42 | 79.5 | 75.54 | 61.52 | 51.14 |
| 68255 | 'Tmem86b' | 1.25 | 5.51 | 1.36 | 1.24 | 4.93 | 2.27 | 0.32 | 0.62 | 2.75 | 0.96 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 68259 | 'lft80' | 4.92 | 9.57 | 4.85 | 10.8 | 9.86 | 0 | 9.88 | 3.48 | 3.83 | 2.32 |
| 68260 | 'Trmt12' | 3.15 | 4.12 | 5.65 | 3.71 | 5.77 | 2.89 | 8.42 | 7.34 | 6.64 | 3.11 |
| 68262 | 'Agpat4' | 79.65 | 78.91 | 65.4 | 48.1 | 54.3 | 50.98 | 39 | 59.05 | 56.53 | 59.54 |
| 68263 | 'Pdhb' | 205.5 | 166.5 | 177 | 149 | 239 | 235.9 | 179 | 196.4 | 153.5 | 186.42 |
| 68267 | 'Slc25a22' | 55.67 | 71.5 | 84.2 | 48.9 | 49.9 | 57.57 | 103 | 68.39 | 89.05 | 63.31 |
| 68268 | 'Zdhhc21' | 1.61 | 1.6 | 3.41 | 4.52 | 2.73 | 0.31 | 3.6 | 2.51 | 0.7 | 1.69 |
| 68270 | 'Dnaaf1' | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68272 | 'Rbm28' | 9 | 12.36 | 6.01 | 10.5 | 7.51 | 10.95 | 13.9 | 7.57 | 10.98 | 16.28 |
| 68273 | 'Pomgnt1' | 1.89 | 16.24 | 5.11 | 17.7 | 10.6 | 10.12 | 20.1 | 5.94 | 25.32 | 12.2 |
| 68274 | 'Toporsl' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 |
| 68275 | 'Rpa1' | 23.38 | 26.52 | 14.9 | 11.4 | 30.5 | 42.19 | 15.3 | 25.96 | 26.81 | 31.47 |
| 68276 | 'Toe1' | 11.63 | 19.73 | 16.1 | 0 | 13.7 | 4.35 | 0.06 | 15.52 | 26.91 | 3.67 |
| 68277 | '2310057M21Rik' | 16.46 | 20.76 | 16.7 | 19.9 | 18.4 | 2.88 | 8.4 | 15.31 | 5.58 | 29.89 |
| 68278 | 'Ddx39' | 12.88 | 30.54 | 29.5 | 11.1 | 22.8 | 39.01 | 0.03 | 26.66 | 25.27 | 33 |
| 68279 | 'Mcoln2' | 0 | 0 | 1.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68281 | '4930430F08Rik' | 9.11 | 12.9 | 5.83 | 13.5 | 2.44 | 2.45 | 1.83 | 7.71 | 3.92 | 4 |
| 68283 | '9530077C05Rik' | 13.81 | 9.57 | 9.76 | 3.92 | 9.41 | 9.47 | 0.26 | 16.33 | 10.56 | 16.63 |
| 68291 | 'Mto1' | 19.09 | 22.82 | 12.2 | 17.3 | 7.58 | 13.59 | 20.9 | 23.39 | 15.81 | 20.63 |
| 68292 | 'Stt3b' | 2.72 | 2.36 | 0.59 | 5.84 | 6.61 | 1.96 | 3.44 | 1.8 | 7.26 | 3.52 |
| 68294 | 'Mfsd10' | 24.79 | 20.09 | 23 | 11.2 | 29.8 | 33.83 | 36.8 | 21.04 | 25.53 | 19.82 |
| 68295 | 'Aar2' | 20.68 | 27.88 | 32.7 | 15.5 | 44.7 | 25.12 | 40.3 | 33.25 | 18.49 | 30.48 |
| 68298 | 'Ncapd2' | 0.03 | 2.29 | 14.1 | 1.76 | 1.78 | 0 | 0.04 | 1.7 | 0 | 2.45 |
| 68299 | 'Vps53' | 30.34 | 35.8 | 26.6 | 35.6 | 32.8 | 40.58 | 22.2 | 40.97 | 34.59 | 20.3 |
| 68303 | 'Fam114a1' | 1.94 | 0 | 3.2 | 1.68 | 0 | 1.45 | 13.1 | 2.23 | 0.01 | 1.39 |
| 68304 | 'Kdelc2' | 0.18 | 0.64 | 0.3 | 3.41 | 2.05 | 3.13 | 0.18 | 0.73 | 1.31 | 1.83 |
| 68307 | 'Lrriq4' | 0 | 1.4 | 0 | 0 | 0.76 | 0 | 0 | 0 | 0 | 2.22 |
| 68310 | 'Zmym1' | 20.23 | 17.94 | 4.48 | 0.03 | 9.77 | 10.01 | 0.34 | 13.81 | 8.8 | 5 |
| 68311 | 'Lypd2' | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| 68312 | 'Gstm7' | 139.1 | 176.8 | 58.1 | 137 | 80.3 | 89.92 | 74.3 | 154 | 31.7 | 71.06 |
| 68316 | 'Apoo' | 90.37 | 113.7 | 93.3 | 44.4 | 59 | 88.18 | 119 | 127.7 | 61.18 | 74.9 |
| 68318 | 'Aph1c' | 2.55 | 0.92 | 1.4 | 1.66 | 2.35 | 0.21 | 2.67 | 0 | 1.05 | 3.24 |
| 68323 | 'Nudt22' | 13.59 | 15.16 | 18.9 | 23.8 | 6.23 | 18.74 | 20.3 | 16.16 | 27.32 | 8.84 |
| 68327 | 'Tsr3' | 21.77 | 13.93 | 48 | 16.9 | 36.5 | 58.79 | 37.4 | 37.14 | 18.74 | 58.29 |
| 68328 | 'Rab13' | 7.17 | 1.47 | 3.27 | 0 | 7.85 | 24.7 | 6.34 | 1.61 | 6.75 | 1.44 |
| 68332 | 'Sdhaf1' | 20.85 | 16.55 | 42.8 | 31.3 | 42.4 | 89.65 | 31.9 | 22.78 | 44.53 | 9.92 |
| 68337 | 'Crip2' | 187.6 | 143 | 245 | 249 | 186 | 247.2 | 104 | 162.4 | 147 | 232.1 |
| 68338 | 'Golt1a' | 0 | 0 | 0 | 4.2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68339 | 'Ccdc88c' | 0.01 | 1.05 | 0.39 | 1.46 | 2.83 | 0.31 | 0.77 | 0.09 | 0.54 | 0.46 |
| 68342 | 'Ndufb10' | 510.1 | 504.6 | 525 | 627 | 717 | 694.3 | 607 | 665.4 | 554.6 | 662.41 |
| 68344 | 'Tmem174' | 0 | 0 | 0 | 6.49 | 0 | 0 | 2.93 | 0 | 1.48 | 0 |
| 68346 | 'Sirt5' | 8.39 | 9.31 | 18.6 | 22.9 | 16.6 | 23.74 | 30.6 | 24.85 | 8.54 | 13.99 |
| 68347 | 'Mettl26' | 145.1 | 115.3 | 108 | 238 | 181 | 169 | 114 | 115.7 | 121.9 | 155.49 |
| 68349 | 'Ndufs3' | 182.2 | 214.4 | 308 | 231 | 295 | 286.3 | 195 | 314.6 | 199.3 | 219.63 |
| 68350 | 'Mul1' | 14.72 | 18.33 | 24 | 23.8 | 16.6 | 9.3 | 19.5 | 21.63 | 20.93 | 13.86 |
| 68352 | 'Aspdh' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.31 |
| 68364 | '0610030E20Rik' | 3.62 | 2.13 | 3.17 | 2.25 | 2.11 | 3 | 6.01 | 1.66 | 2.97 | 3.06 |
| 68365 | 'Rab14' | 165.6 | 157.1 | 127 | 84.3 | 119 | 181.2 | 129 | 182.6 | 177.8 | 165.21 |
| 68366 | 'Tmem129' | 23.69 | 20.34 | 25.7 | 5.75 | 13.6 | 21.06 | 21.2 | 39.07 | 0 | 20.53 |
| 68371 | 'Pbld1' | 13.62 | 2.9 | 6.82 | 6.89 | 1.66 | 2.2 | 2.08 | 1.4 | 3.39 | 5.59 |
| 68375 | 'Ndufa8' | 508 | 460.2 | 474 | 550 | 446 | 784.7 | 539 | 664.1 | 733.9 | 659.25 |
| 68379 | 'Ciz1' | 13.27 | 12.91 | 16.2 | 10.8 | 7.05 | 15.99 | 11.8 | 8.51 | 24.66 | 10.35 |
| 68385 | 'Tlcd1' | 18.96 | 18.3 | 17.9 | 27.8 | 4.13 | 8.71 | 12.1 | 9.05 | 6.32 | 10.87 |
| 68393 | 'Mogat1' | 0.04 | 0.28 | 0.73 | 0 | 0.48 | 6.28 | 0.38 | 0.34 | 0.08 | 1.34 |
| 68394 | 'Ccdc163' | 1.37 | 5.14 | 5.31 | 11.2 | 6.31 | 6.96 | 4.36 | 1.58 | 1.94 | 7.21 |
| 68396 | 'Nat8' | 8.21 | 2.78 | 0 | 0 | 0.56 | 2.36 | 0 | 0.57 | 9.96 | 0 |
| 68401 | 'G6pc3' | 68.84 | 49.19 | 45.8 | 34.3 | 57.9 | 77.28 | 88.1 | 61.56 | 58 | 42.15 |
| 68404 | 'Nrn1' | 30.57 | 5.11 | 0 | 0.14 | 55.6 | 42.35 | 73.2 | 12.13 | 49.65 | 62.72 |
| 68420 | 'Ankrd13a' | 1.37 | 5.5 | 0.09 | 11.5 | 1.05 | 2.53 | 0.76 | 0.47 | 0.01 | 1.58 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 68421 | 'Lmbrd1' | 39.85 | 24.67 | 41.7 | 25.5 | 21.4 | 14.05 | 29.3 | 21.44 | 35.8 | 35.88 |
| 68423 | 'Ankrd13d' | 65.62 | 63.33 | 82.4 | 30.6 | 72.7 | 54.09 | 65.1 | 48.02 | 49.85 | 34.36 |
| 68427 | 'Slc39a13' | 4.89 | 5.88 | 1.49 | 16.2 | 12.1 | 4.13 | 14.8 | 7.95 | 12.54 | 2.86 |
| 68428 | 'Steap3' | 1.94 | 4.94 | 2.74 | 14.5 | 0.04 | 0 | 4.82 | 1.85 | 2.59 | 5.8 |
| 68431 | 'Fbxl15' | 35.33 | 20.18 | 35.5 | 20.2 | 34.8 | 39.65 | 13.8 | 32.01 | 28.79 | 50.66 |
| 68436 | 'Rpl34' | 193.1 | 221.1 | 255 | 302 | 155 | 395 | 172 | 169.1 | 267.9 | 226.26 |
| 68440 | 'Dusp23' | 0.19 | 0.03 | 1.76 | 5.44 | 2.08 | 0 | 5.52 | 3.74 | 7.08 | 14.01 |
| 68441 | 'Rraga' | 209.7 | 221 | 187 | 98.6 | 173 | 190.1 | 194 | 208 | 252.5 | 176.6 |
| 68449 | 'Tbc1d10b' | 1.54 | 1.08 | 5.57 | 0.64 | 6.08 | 3.38 | 0.57 | 1.44 | 2.64 | 2.44 |
| 68453 | 'Gpihbp1' | 0 | 0 | 0.06 | 0 | 0.12 | 0.11 | 0 | 0 | 0 | 0 |
| 68458 | 'Ppp1r14a' | 6.84 | 11.55 | 4.1 | 0 | 31.4 | 28.12 | 0 | 2.77 | 5.33 | 0 |
| 68460 | 'Dhrs7c' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0.18 | 0 | 0 |
| 68463 | 'Mrpl14' | 80.65 | 123.4 | 88.6 | 90.4 | 82.7 | 92.7 | 71.8 | 116.4 | 113.3 | 84.46 |
| 68465 | 'Adipor2' | 11.4 | 9.81 | 4.14 | 2.04 | 13.7 | 12.91 | 0.02 | 4.74 | 11.56 | 3.67 |
| 68472 | 'Tmem126b' | 76.47 | 63.5 | 40.3 | 53.3 | 50.5 | 86.27 | 27.6 | 100.3 | 90.77 | 73.02 |
| 68473 | 'Mob1b' | 0 | 1.2 | 1.17 | 0.52 | 0.23 | 2.19 | 1.86 | 1.9 | 3.45 | 0 |
| 68475 | 'Ssna1' | 130.9 | 115.4 | 136 | 157 | 201 | 243.9 | 116 | 139.5 | 153.4 | 149.93 |
| 68477 | 'Rmnd5a' | 1.79 | 1.67 | 0.85 | 6.48 | 5.25 | 3.37 | 0.01 | 2.84 | 0 | 0.76 |
| 68479 | 'Phf5a' | 59.18 | 26.49 | 32.3 | 41.7 | 31.6 | 41.46 | 31.4 | 28.42 | 11.48 | 49.39 |
| 68480 | 'Card19' | 6.7 | 8.68 | 3.88 | 17 | 4.77 | 6.27 | 19.7 | 5.64 | 15.02 | 2.1 |
| 68481 | 'Mpzl1' | 5.01 | 2.12 | 30.1 | 9.22 | 7.56 | 2.85 | 35.4 | 2.4 | 8.91 | 1.96 |
| 68487 | 'Tmem140' | 0 | 0.34 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 |
| 68490 | 'Zfp579' | 3.17 | 1.29 | 2.76 | 4.06 | 3.97 | 7.41 | 5.32 | 1.56 | 5.1 | 0 |
| 68493 | 'Ndufaf4' | 12.55 | 6.96 | 8.99 | 8.81 | 11.6 | 17.3 | 13.9 | 11.06 | 10.19 | 6.07 |
| 68497 | 'Arel1' | 4.41 | 4.58 | 11 | 3.6 | 6.17 | 1.39 | 6.11 | 12.51 | 8.47 | 4.98 |
| 68498 | 'Tspan11' | 1.38 | 0 | 0 | 0 | 1.64 | 0 | 0 | 0 | 0 | 0 |
| 68499 | 'Mrpl53' | 154.6 | 94.56 | 87.3 | 144 | 133 | 133.1 | 76.6 | 83.36 | 51.95 | 105.86 |
| 68501 | 'Nsmce2' | 31.88 | 28.87 | 23.3 | 20.2 | 35.9 | 27.64 | 53.8 | 48.19 | 36.15 | 48.66 |
| 68505 | 'Vps51' | 19.47 | 12.88 | 34.3 | 1.61 | 19.3 | 28.62 | 4.65 | 15.87 | 23.09 | 21.24 |
| 68507 | 'Ppfia4' | 11.63 | 4.93 | 17.4 | 3.37 | 10.2 | 6.06 | 9.52 | 10.87 | 10.95 | 11.02 |
| 68509 | 'Ptx4' | 0.03 | 13.27 | 3.73 | 0 | 0 | 0.03 | 8.15 | 4.51 | 0.05 | 0 |
| 68510 | 'Ints1' | 1.46 | 1.12 | 5.47 | 0 | 4.11 | 1.51 | 2.45 | 2.46 | 3.27 | 2.46 |
| 68511 | 'Dcdc2c' | 1.16 | 3.25 | 4.01 | 4.29 | 6.38 | 2.41 | 0.66 | 1.39 | 3.52 | 1.44 |
| 68512 | 'Tomm5' | 121.9 | 109.9 | 164 | 192 | 205 | 138.7 | 120 | 159.5 | 101.5 | 103.62 |
| 68514 | 'Micu2' | 8.02 | 10.02 | 20.6 | 22 | 4.47 | 1.42 | 12.3 | 5.98 | 6.83 | 6.64 |
| 68515 | 'Myadml2' | 5.08 | 0.03 | 4.43 | 0 | 0 | 10.69 | 0 | 1.54 | 7.19 | 0 |
| 68519 | 'Eml1' | 18.34 | 7.06 | 7.22 | 5.5 | 18.2 | 7 | 8.67 | 8.45 | 7.32 | 9.58 |
| 68520 | 'Zfyve21' | 17.14 | 11.8 | 13.5 | 14.7 | 13.8 | 36.48 | 4.1 | 19.23 | 12.91 | 7.74 |
| 68521 | 'Fam189b' | 15.98 | 28.1 | 11 | 6.36 | 24 | 10.24 | 15.8 | 17.86 | 25.21 | 26.1 |
| 68523 | 'Ciao2b' | 83.02 | 85.22 | 108 | 30.5 | 82.6 | 82.68 | 56.1 | 65.43 | 72.18 | 84.76 |
| 68524 | 'Wipf2' | 2.16 | 1.11 | 2.32 | 7.12 | 3.6 | 0.87 | 5.27 | 2.78 | 5.93 | 3.8 |
| 68525 | 'Evc2' | 0 | 0.36 | 0.01 | 0 | 0 | 0 | 6.31 | 1.64 | 0 | 0 |
| 68526 | 'Gpr155' | 8.33 | 2.9 | 10 | 6.76 | 6.11 | 3.35 | 5.09 | 10.74 | 3.03 | 7.58 |
| 68528 | 'Smim6' | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68533 | 'Mphosph6' | 21.57 | 8.8 | 20.6 | 28.8 | 29.4 | 13.66 | 12.6 | 20.21 | 18.53 | 24.05 |
| 68537 | 'Mrpl13' | 85.19 | 80.98 | 68.5 | 126 | 82.3 | 102.2 | 81 | 68.25 | 73.64 | 68.74 |
| 68539 | 'Tmem109' | 76.9 | 93.05 | 42.7 | 63.6 | 54.4 | 82.2 | 76.1 | 71.73 | 51.28 | 140.12 |
| 68544 | 'Trir' | 16.72 | 18.58 | 22.5 | 50.2 | 30.1 | 17.76 | 37.9 | 24.75 | 38.4 | 32.34 |
| 68545 | 'Ecsr' | 0 | 0 | 0 | 0 | 5.71 | 11.64 | 5.12 | 2.05 | 0 | 0 |
| 68549 | 'Sgo2a' | 0.07 | 0.12 | 0.2 | 1.04 | 0.13 | 0.21 | 0 | 0.58 | 0.04 | 1.84 |
| 68550 | 'Tefm' | 12.46 | 10.32 | 8 | 0 | 9.32 | 15.51 | 0.05 | 16.65 | 13.1 | 13.18 |
| 68552 | 'Smim14' | 120.2 | 109.5 | 91.3 | 131 | 104 | 128.2 | 115 | 126.5 | 121.5 | 109.7 |
| 68553 | 'Col6a4' | 0.26 | 0.66 | 4.67 | 0 | 0.28 | 0 | 0 | 0.35 | 0 | 1.01 |
| 68554 | 'Cebpzos' | 81.77 | 55.85 | 63.1 | 46.2 | 60.5 | 87.87 | 61.9 | 71.09 | 68.39 | 60.92 |
| 68556 | 'Uckl1' | 28.78 | 31.35 | 42.4 | 85.5 | 32 | 53.82 | 10.2 | 38.47 | 46.94 | 37.7 |
| 68558 | 'Ankra2' | 29.07 | 31.64 | 39 | 37.1 | 23.3 | 38.56 | 23.3 | 32.83 | 25.2 | 14.55 |
| 68559 | 'Pdrgr1' | 95.2 | 49.57 | 89.5 | 89.9 | 123 | 130.4 | 93.4 | 119.5 | 130.3 | 167.48 |
| 68563 | 'Dpm3' | 21.45 | 30.16 | 22.3 | 38.1 | 17.1 | 53.47 | 52 | 20.91 | 73.22 | 23.08 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 68564 | 'Nufip2' | 5.59 | 3.97 | 3.52 | 4.73 | 8.82 | 4.8 | 6.39 | 5.99 | 4.28 | 4.65 |
| 68565 | 'Mrps18a' | 119.5 | 135.7 | 148 | 165 | 174 | 195.7 | 109 | 162.6 | 103.6 | 111.98 |
| 68566 | 'Caly' | 1150 | 1160 | 1039 | 1373 | 994 | 1379 | 918 | 1162 | 1440 | 1649.15 |
| 68567 | 'Cgref1' | 26.85 | 25.99 | 34.4 | 25 | 33.7 | 26.66 | 28.4 | 25.71 | 32.33 | 32.35 |
| 68572 | 'Mrpl58' | 83.69 | 54.48 | 91.5 | 88.6 | 105 | 118.6 | 20.4 | 87.14 | 90.22 | 106.19 |
| 68576 | 'Lamtor5' | 140.9 | 156.4 | 139 | 178 | 174 | 158 | 160 | 117.3 | 189.9 | 102.59 |
| 68581 | 'Tmed10' | 80.12 | 79.77 | 61.3 | 66.1 | 77 | 95.15 | 56.7 | 73.87 | 103.1 | 126.82 |
| 68585 | 'Rtn4' | 96.6 | 37.64 | 46 | 50.6 | 97.7 | 96.72 | 46.7 | 44.23 | 36.67 | 42.26 |
| 68588 | 'Cthrc1' | 40.59 | 25.31 | 22.2 | 20.5 | 21.7 | 27.32 | 36.6 | 35.36 | 61.25 | 53.01 |
| 68591 | 'Mocos' | 0.03 | 0.31 | 0.1 | 0 | 0 | 0.03 | 0 | 0 | 2.65 | 0 |
| 68592 | 'Syf2' | 49.13 | 74.39 | 51.6 | 89.2 | 47.3 | 57.96 | 55.4 | 61.52 | 50.67 | 50.22 |
| 68597 | 'Ccdc167' | 10.11 | 6.33 | 18.1 | 12.7 | 12.6 | 11.72 | 13.6 | 6.15 | 6.44 | 12.01 |
| 68598 | 'Dnajc8' | 124.4 | 129.1 | 127 | 163 | 85.5 | 169.5 | 93.9 | 141.8 | 145.2 | 106.67 |
| 68603 | 'Pmvk' | 84.33 | 70.58 | 95.9 | 141 | 107 | 126.5 | 84.2 | 107.8 | 78.51 | 136.46 |
| 68606 | 'Ppm1f' | 20.69 | 16.32 | 30.6 | 6.79 | 12 | 9.63 | 24 | 19.42 | 26.14 | 21.16 |
| 68607 | 'Serhl' | 0 | 3.14 | 16.4 | 11.7 | 0 | 0 | 6.07 | 0 | 0.74 | 0.08 |
| 68611 | 'Mrpl28' | 148.8 | 124.8 | 128 | 146 | 167 | 296.3 | 131 | 188.1 | 194.1 | 129.97 |
| 68612 | 'Ube2c' | 0.11 | 0.12 | 0.11 | 0.32 | 0.36 | 0.28 | 0.06 | 0.07 | 0.05 | 0.1 |
| 68614 | 'Letmd1' | 25.22 | 9.34 | 9.17 | 22.3 | 6.33 | 10.5 | 23.9 | 16.55 | 4.64 | 12.88 |
| 68616 | 'Gdpc3' | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0.37 | 0.04 |
| 68617 | 'Mtbl1' | 0.85 | 0.47 | 1.94 | 5.44 | 1.15 | 1.86 | 1.91 | 2.75 | 0.47 | 2.19 |
| 68618 | '1110012L19Rik' | 34.49 | 29.21 | 43.1 | 21.8 | 41.3 | 45.42 | 16.8 | 27.22 | 58.88 | 34.07 |
| 68625 | 'Cfap57' | 0 | 0 | 0 | 0 | 0.9 | 0 | 0 | 0.16 | 0 | 0 |
| 68626 | 'Elac2' | 11.35 | 6.69 | 8.78 | 11.7 | 11.1 | 3.93 | 12.4 | 1.1 | 12.35 | 2.46 |
| 68628 | 'Fbxw9' | 19.29 | 25.15 | 21.6 | 15.2 | 9.48 | 28.74 | 4.71 | 24.16 | 22.33 | 23.43 |
| 68631 | 'Cryl1' | 11.03 | 12.18 | 32.4 | 14.3 | 16.9 | 37.74 | 27 | 9.19 | 12.81 | 28.78 |
| 68634 | 'Tm2d3' | 256.5 | 234.5 | 197 | 268 | 214 | 371 | 222 | 290.1 | 304.8 | 335.91 |
| 68636 | 'Fahd1' | 22.81 | 25.45 | 23.6 | 31.4 | 16.6 | 34.95 | 26.5 | 23.17 | 9.9 | 18.73 |
| 68642 | 'Tmem216' | 26.68 | 14.34 | 11.8 | 35.7 | 51.9 | 9.37 | 11.6 | 26.76 | 34.2 | 4.18 |
| 68644 | 'Abhd14a' | 35.09 | 50.68 | 39.3 | 48.5 | 14.3 | 13.19 | 12.8 | 18.93 | 38.68 | 44 |
| 68646 | 'Nadk2' | 8.64 | 5.44 | 2.83 | 1.1 | 1.59 | 1.73 | 9.62 | 2.26 | 2.32 | 2.17 |
| 68652 | 'Tab2' | 2.16 | 3.16 | 1.92 | 8.08 | 4.01 | 1.42 | 7.76 | 3.72 | 2.19 | 6.23 |
| 68653 | 'Samm50' | 82.46 | 84.29 | 71.8 | 92.3 | 79.7 | 101.6 | 73.1 | 96.85 | 89.68 | 95.23 |
| 68655 | 'Fndc1' | 1.76 | 0 | 0.77 | 0 | 1.22 | 0 | 2.1 | 0 | 0 | 0.69 |
| 68659 | 'Fam198b' | 0 | 0.01 | 0.03 | 0.07 | 0.01 | 0 | 0.03 | 0 | 0.03 | 0.02 |
| 68666 | 'Svop' | 86.25 | 54.97 | 74 | 6.35 | 78.9 | 25.47 | 78.9 | 84.09 | 93.01 | 69.29 |
| 68667 | 'Trpm4' | 0.85 | 1.28 | 4.81 | 0.01 | 1.62 | 6.61 | 1.79 | 1.19 | 6.81 | 7.05 |
| 68671 | 'Pcyt2' | 102.2 | 106 | 71.1 | 69.4 | 133 | 127.7 | 132 | 99.26 | 153.1 | 108.08 |
| 68675 | 'Fam172a' | 10.77 | 11.22 | 14.6 | 29.5 | 8.29 | 2.93 | 7.11 | 9.57 | 4.77 | 4.02 |
| 68678 | 'Smtnl1' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.56 | 0 |
| 68680 | 'Fitm1' | 0.1 | 0 | 2.04 | 0 | 0 | 0.11 | 0.11 | 0 | 0.05 | 0 |
| 68682 | 'Slc44a2' | 10.98 | 8.65 | 9.59 | 12.4 | 11.7 | 10.84 | 12.4 | 11.45 | 15.2 | 12.18 |
| 68691 | 'Kansl1l' | 0.14 | 0.91 | 1.11 | 3.45 | 1.27 | 1.82 | 0.42 | 0.34 | 0.95 | 1.01 |
| 68693 | 'Hnrnpul2' | 2.67 | 2.98 | 3.25 | 3.9 | 4.17 | 3.69 | 2.01 | 4.29 | 6.51 | 3.54 |
| 68695 | 'Hddc3' | 2.56 | 24.36 | 17.3 | 29.6 | 12.3 | 12.28 | 40.1 | 29.26 | 28.79 | 14.38 |
| 68703 | 'Rere' | 5 | 5.79 | 7.35 | 9.69 | 3.37 | 6.45 | 3.92 | 4.21 | 2.21 | 3.63 |
| 68705 | 'Gtf2f2' | 18.23 | 14.47 | 11 | 2.92 | 0.61 | 14.29 | 2.35 | 10.87 | 9.68 | 10.41 |
| 68708 | 'Rabl2' | 59.92 | 69.37 | 45.2 | 49.6 | 52.6 | 58.57 | 80.1 | 58.5 | 53.15 | 42.44 |
| 68709 | 'Cilp2' | 0.27 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 | 0 |
| 68713 | 'Ifitm1' | 0 | 0 | 0 | 0 | 0 | 0.18 | 0 | 0 | 0.09 | 5.24 |
| 68718 | 'Rnf166' | 5.25 | 15.69 | 5.55 | 0.03 | 4.05 | 18.11 | 14.3 | 11.39 | 18.2 | 5.87 |
| 68721 | '1110032A03Rik' | 46.48 | 38.84 | 28.5 | 40.1 | 45.5 | 42.63 | 33.1 | 38.63 | 26.34 | 43.48 |
| 68724 | 'Arl8a' | 19.34 | 16.69 | 17.3 | 53.4 | 47.2 | 16.01 | 35 | 9.07 | 16.64 | 26.7 |
| 68725 | '1110032F04Rik' | 0.07 | 0 | 0 | 0 | 1.48 | 0 | 0 | 1.51 | 0 | 1.35 |
| 68728 | 'Trp53inp2' | 15.78 | 2.21 | 13.3 | 15.2 | 84.2 | 5.46 | 13 | 11.93 | 19.92 | 18.92 |
| 68729 | 'Trim37' | 19.17 | 13.96 | 32.5 | 22.8 | 21.1 | 26.79 | 14.8 | 22.81 | 26.29 | 16.73 |
| 68730 | 'Dus1l' | 21.97 | 28.58 | 40.5 | 18.6 | 39 | 33.5 | 25.8 | 27.84 | 19.77 | 24.62 |
| 68731 | 'Rbfa' | 49.24 | 30.28 | 23.5 | 14.9 | 38.3 | 27.78 | 30.2 | 49.62 | 23.24 | 40.42 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 68732 | 'Carmil1' | 4.03 | 8.96 | 4.58 | 4.16 | 7.6 | 8.57 | 6.44 | 5.11 | 2.67 | 6.29 |
| 68734 | 'Ppp4r3a' | 3.51 | 3.25 | 1.09 | 6.91 | 2.47 | 1.58 | 1.53 | 1.63 | 4.01 | 2.21 |
| 68735 | 'Mrps18c' | 147 | 129.9 | 152 | 212 | 183 | 261.1 | 136 | 140.3 | 154.6 | 140.41 |
| 68736 | 'Tyw5' | 18.73 | 34.57 | 15.7 | 22.7 | 7.78 | 18.45 | 31 | 18.69 | 11.72 | 14.24 |
| 68737 | 'Angel1' | 4.36 | 0.74 | 0 | 7.23 | 0.01 | 5.97 | 6.8 | 5.27 | 1.42 | 4.99 |
| 68738 | 'Acss1' | 12.17 | 9.21 | 3.17 | 0.02 | 2.9 | 3.45 | 4.62 | 2.25 | 4.85 | 2.84 |
| 68742 | 'Tmem219' | 27.01 | 41.48 | 37.1 | 19 | 24.3 | 18.84 | 18.7 | 34.01 | 30.89 | 24.01 |
| 68743 | 'Anln' | 2.33 | 0.93 | 0 | 0 | 5.7 | 0 | 0.02 | 0 | 2.62 | 0 |
| 68744 | 'Zfp740' | 4.99 | 2.17 | 6.99 | 24.2 | 5.88 | 2.36 | 5.13 | 3.97 | 8.53 | 2.84 |
| 68750 | 'Rreb1' | 0.85 | 1.6 | 0 | 6.03 | 0.42 | 0.68 | 0 | 0.48 | 0.2 | 0.01 |
| 68753 | 'Mybphl' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.31 |
| 68755 | 'Cgrff1' | 37.75 | 53.44 | 54.8 | 27.5 | 28.3 | 45.39 | 24.7 | 56.7 | 20.71 | 33.44 |
| 68758 | 'Abhd11' | 40.69 | 32.67 | 43.7 | 70 | 51.8 | 126.3 | 43 | 52.21 | 37.95 | 69.38 |
| 68760 | 'Synpo2l' | 0.12 | 0 | 0.01 | 0.02 | 1.24 | 0 | 0 | 0.01 | 0 | 0 |
| 68764 | 'Cdhr3' | 0 | 1.7 | 0 | 0 | 0 | 0.02 | 0 | 2.12 | 0 | 0.78 |
| 68767 | 'Washc1' | 8.32 | 14.25 | 9.86 | 6.73 | 13.5 | 15.14 | 14.6 | 7.31 | 30.86 | 16.87 |
| 68770 | 'Phtf2' | 2.18 | 2.09 | 3.32 | 4.15 | 0.47 | 2.84 | 3.35 | 2.01 | 1.26 | 2.97 |
| 68774 | 'Ms4a6d' | 0 | 0 | 0 | 0 | 0 | 0.54 | 0 | 0 | 0 | 0 |
| 68775 | 'Atp6v1c2' | 3.83 | 0 | 1.72 | 10.4 | 3.59 | 10.83 | 0.03 | 3.12 | 0 | 0 |
| 68776 | 'Taf11' | 41.6 | 54 | 54.9 | 34.1 | 43.9 | 42.72 | 47.2 | 40.15 | 30.66 | 39.36 |
| 68777 | 'Tmem53' | 16.83 | 10.01 | 8.33 | 8.72 | 3.67 | 7.73 | 25.2 | 9.26 | 10.5 | 12.74 |
| 68778 | 'Gucd1' | 2.84 | 6.69 | 6.6 | 0 | 0.02 | 3.03 | 6.51 | 0.1 | 23.27 | 3.47 |
| 68792 | 'SrpX2' | 0 | 0 | 0 | 0 | 0 | 0 | 3.2 | 0 | 0 | 0 |
| 68794 | 'Finc' | 0 | 0 | 0.02 | 0 | 0.58 | 0.06 | 0.04 | 0 | 0 | 0.05 |
| 68795 | 'Ubr3' | 3.77 | 4.27 | 5.35 | 4.73 | 6.22 | 3.15 | 4.84 | 6.93 | 3.19 | 4.38 |
| 68796 | 'Tmem214' | 25.84 | 25.59 | 47.1 | 24.3 | 27.5 | 19.72 | 22.7 | 5.04 | 36.45 | 18.63 |
| 68797 | 'Pdgfrl' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.84 |
| 68799 | 'Rgmb' | 7.49 | 5.03 | 1.92 | 14.1 | 4.06 | 1.3 | 8 | 5.87 | 5.25 | 2.26 |
| 68801 | 'Elov15' | 45.34 | 20.13 | 24.9 | 14.6 | 22.3 | 23.3 | 16.8 | 23.07 | 30.05 | 57.89 |
| 68802 | 'Mypn' | 0.99 | 0 | 0 | 0 | 0 | 0.01 | 0 | 2.23 | 0 | 0 |
| 68810 | 'Nexn' | 0.1 | 0.05 | 0.18 | 0 | 0.35 | 0.1 | 0.24 | 0.05 | 0.63 | 0.06 |
| 68813 | 'Dock5' | 0.03 | 0.76 | 0 | 0 | 0.26 | 0 | 0 | 0.75 | 0 | 0.53 |
| 68815 | 'Btbd10' | 19.3 | 42.08 | 53.7 | 37.2 | 39.2 | 25.9 | 29.6 | 37.4 | 20.06 | 23.6 |
| 68816 | 'Ppil1' | 31.85 | 21.57 | 32 | 23.9 | 23.4 | 58.16 | 30 | 67.13 | 68.67 | 16.19 |
| 68817 | 'Ddi2' | 0.16 | 1.51 | 0 | 0.27 | 0.1 | 0 | 0.04 | 0 | 0 | 0 |
| 68818 | 'Zfand2b' | 21.12 | 31.45 | 32.7 | 20.8 | 13.7 | 73.72 | 0 | 37.92 | 25.29 | 46.62 |
| 68828 | 'Sync' | 0.02 | 1.67 | 3.46 | 8.22 | 3.44 | 0 | 0 | 1.21 | 0 | 0 |
| 68832 | 'Ldah' | 26.88 | 25.57 | 19.7 | 17.1 | 30.8 | 21.74 | 18.1 | 24.94 | 28.29 | 24.72 |
| 68833 | 'Pdcl3' | 22.7 | 25.95 | 18.9 | 41.2 | 32.2 | 50.19 | 17.9 | 29.24 | 35.68 | 19.11 |
| 68836 | 'Mrpl52' | 102 | 75.01 | 91.6 | 128 | 76.7 | 164.4 | 103 | 55.24 | 105.8 | 78.12 |
| 68837 | 'Foxk2' | 3.52 | 2.1 | 2.11 | 2.98 | 3.41 | 1.66 | 1.72 | 1.11 | 0.2 | 1.7 |
| 68839 | 'Ankrd46' | 80.1 | 124.1 | 155 | 113 | 109 | 100.8 | 143 | 161.3 | 88.48 | 99.09 |
| 68842 | 'Tulp4' | 12.81 | 8.88 | 5.8 | 10.8 | 8.17 | 8.47 | 1.92 | 2.59 | 8.07 | 10.65 |
| 68845 | 'Pih1d1' | 17.73 | 12.8 | 31.4 | 9 | 32.7 | 26.5 | 31.3 | 10.55 | 10.04 | 38.69 |
| 68846 | 'Rnf208' | 66.34 | 67.97 | 78.4 | 25.6 | 78.2 | 69.39 | 114 | 82.57 | 79.48 | 72.61 |
| 68852 | 'Lrrn4cl' | 6.02 | 0.39 | 5.87 | 0.95 | 0.63 | 7.36 | 4.56 | 0.24 | 6.7 | 0.31 |
| 68854 | 'Asb11' | 0.09 | 0.04 | 0.3 | 0.09 | 0.04 | 0.13 | 0.04 | 0.06 | 0.21 | 0.03 |
| 68857 | 'Dtwd2' | 0.62 | 0.15 | 0.86 | 0 | 1.55 | 0 | 0 | 0.01 | 0 | 0 |
| 68859 | 'Smim1' | 11.1 | 8.54 | 18.4 | 61.6 | 15.3 | 11.2 | 17.4 | 28.87 | 14.85 | 25.27 |
| 68861 | '1190002N15Rik' | 0.6 | 1.82 | 1 | 0 | 1.28 | 0.06 | 2.12 | 4.4 | 2.52 | 1.22 |
| 68865 | 'Arv1' | 3.13 | 11.62 | 2.16 | 0 | 10.1 | 1.17 | 2.8 | 4.47 | 5.59 | 8.7 |
| 68867 | 'Rnf122' | 2.12 | 3.05 | 4.39 | 7.69 | 0.71 | 1.59 | 0 | 1.26 | 1.63 | 1.95 |
| 68870 | 'Ak8' | 5.34 | 3.54 | 3.57 | 7.46 | 3.86 | 13.35 | 4.92 | 4.56 | 4.26 | 9.91 |
| 68874 | 'Klhdc9' | 26.76 | 15.84 | 21.6 | 35.8 | 28.3 | 25.51 | 21.3 | 13.85 | 14.66 | 14.56 |
| 68875 | 'Tmcc2' | 5.58 | 5.71 | 3.02 | 6 | 1.12 | 2.49 | 18.3 | 3.92 | 2.53 | 2.25 |
| 68876 | 'Atp23' | 5.36 | 1.91 | 7.19 | 0.06 | 7.12 | 0.47 | 1.19 | 9.25 | 8.47 | 0.15 |
| 68877 | 'Maf1' | 98.29 | 92.98 | 100 | 49.8 | 73.8 | 102.2 | 126 | 96.08 | 96.04 | 107.81 |
| 68879 | 'Prpf6' | 37.86 | 22.24 | 26.3 | 24.9 | 51.4 | 20.44 | 31.7 | 29.26 | 34.49 | 40.25 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 68888 | 'Gkn3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.29 |
| 68889 | 'Ubac2' | 44.27 | 47.09 | 39.1 | 9.52 | 46.2 | 64.44 | 25 | 46.87 | 28.59 | 45.57 |
| 68895 | 'Rasl11a' | 11.58 | 12.19 | 6.06 | 13.3 | 0.04 | 0 | 5.53 | 4.36 | 3.65 | 6.87 |
| 68897 | 'Disp1' | 1.67 | 1.31 | 0.58 | 0.78 | 0 | 1.42 | 5.22 | 1.92 | 0.01 | 4.52 |
| 68904 | 'Abhd13' | 0.01 | 1.12 | 1.09 | 0.44 | 0.86 | 0 | 0 | 0 | 1.89 | 1.31 |
| 68910 | 'Zfp467' | 31.15 | 18.54 | 28 | 39.5 | 20.6 | 32.92 | 20.7 | 13.76 | 9.84 | 10.01 |
| 68911 | 'Pygo2' | 0.83 | 7.79 | 3.57 | 2.69 | 7.85 | 5.39 | 0 | 1.42 | 1.8 | 2.21 |
| 68915 | 'Vars2' | 2.37 | 1.4 | 1.45 | 4.01 | 4.33 | 5.27 | 1.22 | 0.8 | 4.2 | 3.29 |
| 68916 | 'Cdkal1' | 4.69 | 5.3 | 5.74 | 1.05 | 8.61 | 5.26 | 3.87 | 6.06 | 4.76 | 5.52 |
| 68917 | 'Hint2' | 148.3 | 139.9 | 171 | 192 | 247 | 252 | 221 | 145.7 | 181.8 | 211.52 |
| 68918 | '1190005I06Rik' | 1.68 | 8.06 | 0 | 0 | 9.25 | 14.57 | 0 | 2.23 | 11.32 | 6.69 |
| 68920 | '1110065P20Rik' | 37.01 | 28.29 | 73.7 | 28.4 | 55 | 62.98 | 18.9 | 40.51 | 53.23 | 21.47 |
| 68922 | 'Dnaic1' | 1.16 | 5.96 | 1.34 | 0 | 3.19 | 7.58 | 0.19 | 0.83 | 0.1 | 1.85 |
| 68925 | 'Rpap1' | 5.42 | 8.78 | 6.71 | 0.04 | 0.9 | 1.47 | 0.2 | 3.57 | 1.49 | 2.57 |
| 68926 | 'Ubap2' | 5.86 | 9.58 | 6.35 | 3.23 | 3.62 | 6.2 | 4.65 | 7.84 | 11.02 | 9.1 |
| 68927 | 'Ptcd2' | 35.21 | 32.26 | 31.2 | 38.6 | 18.4 | 70.33 | 64.4 | 27.01 | 28.73 | 45.84 |
| 68929 | 'Mospd3' | 11.32 | 10.3 | 3.67 | 15.9 | 19.1 | 6.19 | 23.5 | 11.97 | 5.78 | 2.39 |
| 68936 | 'Smim11' | 35.3 | 33.8 | 54.5 | 36.8 | 27.7 | 35.12 | 46.6 | 39.24 | 45.31 | 49.39 |
| 68938 | 'Aspscr1' | 45.22 | 71.99 | 79.9 | 74.4 | 86.3 | 94.87 | 36.6 | 102.3 | 93.22 | 68.32 |
| 68939 | 'Rasl11b' | 6.14 | 12.52 | 8.16 | 64.5 | 9.66 | 14.35 | 0.06 | 5.59 | 2.91 | 1.33 |
| 68942 | 'Chmp2b' | 46.48 | 58.1 | 41.4 | 37.2 | 35.4 | 35.52 | 37 | 59.88 | 24.27 | 24.16 |
| 68943 | 'Pink1' | 23.74 | 26.6 | 24.5 | 25.4 | 22.8 | 24.64 | 47.8 | 30.11 | 25.74 | 14.22 |
| 68944 | 'Tmco1' | 25.16 | 22.98 | 16.5 | 19.9 | 15.2 | 21.57 | 22.2 | 20.34 | 12.06 | 21.46 |
| 68947 | 'Chst8' | 6.74 | 26.29 | 4.97 | 1.59 | 27 | 47.99 | 53.5 | 4.58 | 0 | 28.54 |
| 68948 | 'Fam216a' | 219 | 162.8 | 215 | 310 | 126 | 110.8 | 130 | 175.5 | 139.9 | 88.57 |
| 68952 | 'Fam57b' | 8.25 | 12.27 | 7.5 | 7.33 | 20.5 | 21.11 | 5.97 | 7.73 | 9.98 | 4.93 |
| 68953 | 'Chmp2a' | 235 | 191 | 230 | 254 | 237 | 197.7 | 152 | 216.1 | 205.4 | 163.38 |
| 68955 | 'Srrm4' | 3.21 | 2.82 | 5.29 | 10.1 | 7.2 | 4.84 | 3.37 | 5.42 | 8.46 | 9.62 |
| 68957 | 'Paqr6' | 31.63 | 15.12 | 3.66 | 10.5 | 1.46 | 18.24 | 4.22 | 12.77 | 15.5 | 0.81 |
| 68961 | 'Phkg2' | 29.29 | 48.55 | 48.8 | 70.9 | 52.1 | 60.99 | 61.8 | 64.8 | 76.5 | 36.04 |
| 68964 | 'Ctc1' | 11.39 | 10.25 | 16.9 | 13.7 | 8.36 | 6.23 | 4.23 | 10.48 | 10.4 | 19.49 |
| 68966 | 'Ngdn' | 34.43 | 38.79 | 47.3 | 38.3 | 36.5 | 47 | 48.7 | 26.16 | 26.97 | 21.53 |
| 68968 | 'Cdan1' | 1.22 | 0.85 | 3.73 | 2.76 | 1.44 | 0.15 | 0.84 | 0 | 1.85 | 0.44 |
| 68969 | 'Eif1b' | 423.5 | 270.4 | 281 | 308 | 267 | 259 | 198 | 312.9 | 196.5 | 163.99 |
| 68970 | 'Dcaf12' | 32.56 | 18.92 | 14.3 | 21.7 | 10.1 | 14.99 | 11.6 | 13.35 | 13.34 | 9.47 |
| 68971 | 'Tamm41' | 16.33 | 11.09 | 37.1 | 21.1 | 30.2 | 28.79 | 55.5 | 30.81 | 28.25 | 20.36 |
| 68972 | 'Tatdn3' | 4.52 | 13.7 | 17.7 | 25.1 | 7.91 | 12.73 | 30.7 | 13.82 | 21.37 | 9.73 |
| 68975 | 'Med27' | 23.21 | 25.39 | 38.1 | 37.3 | 11.8 | 45.89 | 27.3 | 31.76 | 43.23 | 37.43 |
| 68977 | 'Haghl' | 190.8 | 138.9 | 235 | 209 | 368 | 302.9 | 321 | 323.7 | 264.9 | 255.93 |
| 68979 | 'Nol11' | 11.91 | 13.59 | 8.54 | 33.5 | 11.8 | 1.82 | 23.3 | 14.71 | 2.77 | 17.58 |
| 68980 | 'Wdr53' | 4.89 | 5 | 17.7 | 27.8 | 7.47 | 10.19 | 11.7 | 19.7 | 9.33 | 8.19 |
| 68981 | 'Snrpa1' | 29.89 | 46.99 | 34.4 | 33.6 | 38.5 | 39.44 | 21.3 | 39.82 | 38.65 | 42.32 |
| 68988 | 'Prpf31' | 10.38 | 5.42 | 17.4 | 22.2 | 22 | 14.29 | 15.3 | 14.01 | 5.61 | 11.56 |
| 68991 | 'Ssu72' | 123.9 | 118.3 | 126 | 185 | 152 | 112.9 | 138 | 109.4 | 154.6 | 133.33 |
| 68992 | 'Zfp580' | 2.48 | 15.07 | 6.47 | 0.05 | 6.76 | 24.42 | 11 | 4.76 | 9.81 | 19.81 |
| 68995 | 'Mcts1' | 103.1 | 130.3 | 74.8 | 129 | 68.4 | 72.7 | 94.7 | 137.7 | 92.04 | 105.95 |
| 68999 | 'Anapc10' | 21.59 | 38.2 | 22.8 | 44.8 | 27.7 | 17.2 | 24.1 | 26.01 | 10.24 | 28.58 |
| 69008 | 'Cab39l' | 21.5 | 14.06 | 9.68 | 8.83 | 24.1 | 15.64 | 4.77 | 11.92 | 26.44 | 16.74 |
| 69009 | 'Thap7' | 26.84 | 34.3 | 14.8 | 35.3 | 17.1 | 31.57 | 14.1 | 30.45 | 31.47 | 27.11 |
| 69010 | 'Anapc13' | 75.11 | 56.12 | 77.3 | 121 | 78.5 | 136.6 | 63.6 | 35.99 | 83.6 | 49.42 |
| 69017 | 'Prrt2' | 77.92 | 59.68 | 64.9 | 10.9 | 39.1 | 51.71 | 107 | 64.66 | 33.42 | 36.04 |
| 69019 | 'Spcs1' | 325.2 | 264.3 | 238 | 290 | 262 | 320.1 | 246 | 314.2 | 307.4 | 340.13 |
| 69020 | 'Zfp707' | 7.06 | 4.95 | 2.58 | 0 | 3.25 | 0 | 0 | 9.37 | 7.65 | 5.13 |
| 69024 | 'Snx15' | 58.8 | 41.97 | 33.5 | 23.3 | 47.4 | 30.9 | 62.1 | 25.92 | 24.27 | 40.75 |
| 69028 | 'Mitd1' | 4.26 | 4.53 | 6.52 | 14.7 | 11.8 | 17.56 | 4.87 | 10.83 | 8.38 | 8.71 |
| 69029 | 'Smdt1' | 355.9 | 249.4 | 287 | 220 | 415 | 323.5 | 201 | 273.3 | 347.1 | 238.52 |
| 69034 | 'Nupr1l' | 0 | 0 | 0 | 0 | 5.57 | 0 | 4.04 | 2.84 | 0 | 6.65 |
| 69035 | 'Zdhhc3' | 12.43 | 4.52 | 34.3 | 0 | 2.46 | 7.25 | 22.2 | 7 | 10.35 | 5.35 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 69038 | 'Tmem258' | 188.1 | 230.4 | 117 | 115 | 124 | 187.9 | 160 | 142.2 | 242.1 | 122.5 |
| 69046 | 'Isca1' | 189.6 | 190 | 185 | 155 | 145 | 160 | 138 | 170.2 | 133.7 | 208.88 |
| 69047 | 'Atp2c2' | 0 | 5.03 | 1.61 | 0 | 0 | 0.01 | 0 | 1.83 | 0 | 0 |
| 69048 | 'Slc30a5' | 2.3 | 2.78 | 3.55 | 2.82 | 7.88 | 0.86 | 2.56 | 1.06 | 10.26 | 4.66 |
| 69049 | 'Nat8f5' | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69051 | 'Pycr2' | 44.51 | 51.88 | 42.6 | 21.9 | 85.1 | 62.31 | 38.5 | 59.71 | 86.38 | 79.91 |
| 69053 | '1810013L24Rik' | 2.93 | 2.44 | 4.38 | 7.41 | 5.17 | 0.41 | 0.13 | 3.58 | 3.7 | 4.35 |
| 69060 | 'Pnlip' | 0 | 0 | 0.03 | 2.53 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69064 | 'Fuom' | 9.37 | 23.94 | 17.1 | 20.9 | 13.6 | 24.68 | 14.3 | 13.54 | 16.72 | 15.44 |
| 69065 | 'Chac1' | 4.52 | 3.68 | 4.52 | 0.18 | 19.9 | 5.15 | 12.3 | 13.67 | 10.04 | 0.27 |
| 69066 | '1810010H24Rik' | 3.76 | 4.04 | 7.23 | 12.6 | 1.02 | 1.16 | 0.05 | 0 | 5.36 | 6.2 |
| 69068 | 'Tcim' | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 5.03 | 0 |
| 69071 | 'Tmem97' | 24.45 | 19.23 | 35.4 | 36.3 | 15.7 | 33.12 | 42.1 | 30.32 | 53.54 | 37.51 |
| 69072 | 'Ebna1bp2' | 31.49 | 20.27 | 26.6 | 35.2 | 19.8 | 38.7 | 28.6 | 25.86 | 15.61 | 18.86 |
| 69076 | 'Triap1' | 21.15 | 35.83 | 26.9 | 14.2 | 25.5 | 43.49 | 35.2 | 24.44 | 21.16 | 25.55 |
| 69077 | 'Psmc11' | 119.4 | 137.7 | 88.4 | 113 | 136 | 77.91 | 120 | 144.5 | 104.5 | 108.91 |
| 69080 | 'Gmppa' | 33.19 | 45.76 | 19.3 | 40.9 | 26.5 | 35.48 | 34.7 | 30.58 | 28.36 | 35.92 |
| 69082 | 'Zc3h15' | 87.52 | 88.79 | 68.1 | 108 | 48.1 | 67.06 | 55.4 | 69.37 | 99.26 | 74.67 |
| 69085 | 'Zcchc9' | 13.22 | 7.85 | 20.9 | 43 | 14.1 | 6.55 | 15.7 | 9.17 | 20.06 | 15.48 |
| 69089 | 'Oxa1l' | 22.12 | 10.49 | 23 | 35.6 | 9.43 | 20.89 | 11.3 | 12.62 | 10.01 | 16.38 |
| 69090 | 'Ascc1' | 30.94 | 40.6 | 41.7 | 46.5 | 32.3 | 25.15 | 67.5 | 29.51 | 37.33 | 41.14 |
| 69091 | 'Vps26b' | 9.67 | 15.71 | 17.2 | 7.26 | 2.01 | 10.61 | 12.9 | 8.61 | 9.37 | 5.68 |
| 69094 | 'Tmem160' | 13.79 | 6.57 | 16.8 | 122 | 17.3 | 12.06 | 0.19 | 5.97 | 18.51 | 0.89 |
| 69097 | 'Trim15' | 1.71 | 0.51 | 0 | 0 | 5.49 | 0 | 0 | 0 | 0 | 10.98 |
| 69101 | 'Ydjc' | 44.87 | 27.74 | 23 | 17.8 | 16.2 | 30.23 | 32.4 | 28.57 | 23.32 | 40.01 |
| 69104 | 'March5' | 4.87 | 6.55 | 8.34 | 42.2 | 8.11 | 2.39 | 13.6 | 2.95 | 18.05 | 2.3 |
| 69106 | 'Stoml1' | 70.91 | 85.6 | 124 | 97.3 | 78.7 | 83.03 | 131 | 86.82 | 138.5 | 92.48 |
| 69109 | 'Ccnq' | 44.04 | 22.24 | 44.5 | 12.7 | 46.4 | 52.08 | 26.2 | 37.31 | 22.08 | 40.74 |
| 69113 | 'Alkbh3' | 21.46 | 11.42 | 11.2 | 2.03 | 10.8 | 0.85 | 28.7 | 5.47 | 11.06 | 19.29 |
| 69116 | 'Ubr4' | 3.98 | 4.39 | 5.61 | 5.71 | 6.87 | 4 | 2.71 | 5.05 | 6.17 | 2.69 |
| 69121 | 'Chrdl2' | 0 | 0 | 3.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69123 | 'Eci3' | 0 | 0 | 0 | 0 | 2.94 | 0 | 0 | 0 | 0 | 0 |
| 69125 | 'Cnot8' | 35.45 | 66.46 | 45.8 | 59.7 | 64.7 | 75.13 | 88.6 | 54.47 | 62.1 | 41.49 |
| 69126 | '1810022K09Rik' | 191.9 | 235.5 | 204 | 225 | 113 | 260.7 | 170 | 126.5 | 172.7 | 137.69 |
| 69129 | 'Pex11g' | 2.72 | 0 | 0.1 | 0 | 6.49 | 8.75 | 2.05 | 3.3 | 1.52 | 2.33 |
| 69131 | 'Cdk12' | 0.57 | 2.68 | 2.39 | 11.7 | 2.37 | 0.45 | 2.98 | 1.15 | 2.78 | 2.05 |
| 69136 | 'Tusc1' | 0 | 0 | 0.11 | 4.13 | 0.26 | 0 | 0 | 0.66 | 0.35 | 0 |
| 69137 | 'Vstm5' | 0.82 | 6.42 | 25.1 | 8.76 | 12.6 | 6 | 5.69 | 25.37 | 10.63 | 11.42 |
| 69146 | 'Gsdmd' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.97 |
| 69147 | '2200002J24Rik' | 0 | 0 | 0.14 | 0.08 | 0 | 0.07 | 0.07 | 0 | 0 | 0.06 |
| 69149 | 'Kbtbd3' | 7.25 | 3.55 | 7.8 | 2.45 | 4.29 | 7.16 | 7.11 | 8.25 | 8.13 | 3.81 |
| 69150 | 'Snx4' | 45.8 | 60.94 | 52.8 | 26.7 | 50.9 | 34.81 | 51.3 | 41.26 | 52.93 | 57.73 |
| 69151 | 'Lzic' | 8.99 | 9.34 | 0 | 4.57 | 0.97 | 9.62 | 0 | 11.1 | 8.84 | 0.6 |
| 69155 | '1810030O07Rik' | 17.84 | 8.25 | 17.6 | 26.2 | 18.3 | 15.78 | 28.6 | 25.82 | 14.18 | 16.23 |
| 69156 | 'Comtd1' | 17.22 | 17.5 | 23.8 | 20.6 | 24.7 | 37.39 | 28.7 | 26.48 | 21.57 | 46.8 |
| 69159 | 'Rhebl1' | 9.62 | 9.03 | 0.04 | 0 | 26 | 16.47 | 0.09 | 4.69 | 5.89 | 8.17 |
| 69161 | 'Manbal' | 89.69 | 95.01 | 86.2 | 81.3 | 104 | 126.2 | 113 | 111.3 | 107.4 | 135.15 |
| 69162 | 'Sec31a' | 11.19 | 7.58 | 18.5 | 4.64 | 11.6 | 7.67 | 7.79 | 7.75 | 35.93 | 12.68 |
| 69163 | 'Mrpl44' | 56.18 | 26.57 | 29.4 | 34.3 | 30.1 | 32.65 | 43 | 48.17 | 22.33 | 47.56 |
| 69168 | 'Bola1' | 37 | 37.3 | 45.3 | 43.5 | 63.9 | 52.69 | 49.4 | 65.33 | 47.54 | 33.34 |
| 69169 | 'Fcmr' | 0 | 0.85 | 0 | 0 | 0 | 0.12 | 0 | 0 | 0 | 0.64 |
| 69171 | 'Cnppd1' | 8.93 | 13.22 | 10.2 | 9.95 | 6.88 | 9.6 | 12.2 | 6.1 | 8.61 | 12.75 |
| 69178 | 'Snx5' | 22.58 | 29.62 | 30.9 | 27.3 | 16.9 | 14.63 | 18 | 19.25 | 13 | 36.61 |
| 69179 | 'Tmem110' | 2.33 | 0.27 | 3.8 | 0 | 4.58 | 0.16 | 4.98 | 0.51 | 2.34 | 0.7 |
| 69181 | 'Dyrk2' | 0.01 | 2.95 | 1.13 | 4.49 | 0.12 | 0.84 | 1.86 | 0.04 | 0.54 | 1.52 |
| 69183 | 'C1qtnf2' | 4.37 | 1.14 | 2.56 | 0 | 4.99 | 0 | 0.93 | 0 | 4.04 | 0 |
| 69185 | 'Dtwd1' | 15.99 | 24.86 | 16.4 | 11.9 | 2.28 | 6.04 | 5.35 | 11.85 | 10.21 | 7.38 |
| 69186 | 'Tmem256' | 113.9 | 111.3 | 143 | 192 | 113 | 173.6 | 151 | 99.79 | 87.36 | 72.53 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 69379 | 'C8g' | 9.4 | 4.23 | 0.55 | 26.5 | 10.4 | 0.29 | 8.53 | 0.05 | 0.11 | 8.95 |
| 69384 | 'Tmem89' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.58 |
| 69386 | 'Hist1h4h' | 3.55 | 9.79 | 5.48 | 20.2 | 16.1 | 14.46 | 8.78 | 3 | 13.41 | 13.23 |
| 69387 | 'Dnajb13' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.26 |
| 69399 | '1700025G04Rik' | 2.57 | 8.24 | 5.45 | 1.31 | 1.69 | 3.32 | 2.56 | 3.27 | 12.13 | 1.49 |
| 69408 | 'Dnajc17' | 27.08 | 39.07 | 18.3 | 42.8 | 21.2 | 23.72 | 3.65 | 20.3 | 6.15 | 24.65 |
| 69428 | '1700016C15Rik' | 0 | 0 | 0.1 | 1.02 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69440 | 'Dennd6b' | 40.7 | 22.8 | 40.3 | 30.2 | 40.6 | 33.66 | 29.3 | 23.2 | 41.33 | 38.02 |
| 69441 | '1700023F06Rik' | 5.06 | 10.6 | 7.7 | 20.6 | 6.92 | 16.24 | 9.38 | 9.15 | 13.07 | 9.79 |
| 69453 | 'Prss56' | 0 | 0 | 0.29 | 0 | 0 | 2.72 | 3.43 | 0.76 | 0 | 1.85 |
| 69454 | 'Clic3' | 0 | 0 | 0.57 | 0 | 0 | 0 | 0 | 0 | 0 | 0.45 |
| 69456 | 'Commd10' | 27.15 | 37.63 | 26.5 | 67.7 | 34 | 29.59 | 31.5 | 41.17 | 48.73 | 36.79 |
| 69459 | 'Ubl7' | 95.14 | 116.9 | 122 | 173 | 83.1 | 158.8 | 92.6 | 109.4 | 111.7 | 90.79 |
| 69462 | 'Slurp2' | 0 | 4.65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69470 | 'Tmem127' | 9.46 | 10.59 | 20.1 | 3.94 | 9.17 | 7.97 | 4.76 | 9.99 | 7.87 | 6.44 |
| 69478 | '2300009A05Rik' | 11.39 | 18.56 | 16.3 | 24.7 | 16 | 6.13 | 8.99 | 11.2 | 40.02 | 1.48 |
| 69479 | '1700029J07Rik' | 1.42 | 2.92 | 4.44 | 4.52 | 3.67 | 1.62 | 6.93 | 3.17 | 9.76 | 3.73 |
| 69480 | 'Ttc9' | 4.4 | 1.64 | 3.43 | 0 | 0 | 3.17 | 4.93 | 5.99 | 5.76 | 0.54 |
| 69482 | 'Nup35' | 23.01 | 10.04 | 7.06 | 17.6 | 0.25 | 10.65 | 19.7 | 21.7 | 7.02 | 12.1 |
| 69487 | 'Ndufaf5' | 80.68 | 53.25 | 71.4 | 49.9 | 47.6 | 62.15 | 86 | 40.46 | 62.71 | 64.05 |
| 69496 | 'Dydc1' | 0 | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0.1 | 0 |
| 69499 | 'Tsr2' | 66.8 | 50.61 | 68 | 73.8 | 46.2 | 40.02 | 30.9 | 74.15 | 54.51 | 39.29 |
| 69504 | 'Zfp932' | 22.63 | 15.17 | 21.3 | 34.9 | 17.7 | 11.81 | 35.4 | 20.39 | 26.22 | 24.99 |
| 69519 | 'Rwdd2a' | 180 | 204.4 | 138 | 162 | 99.7 | 126.9 | 198 | 282.5 | 143.1 | 166.58 |
| 69524 | 'Esam' | 2.2 | 0 | 0 | 0 | 6.67 | 0 | 0 | 0 | 0 | 4.92 |
| 69527 | 'Mrps9' | 34.78 | 33.61 | 21.7 | 10.9 | 25.4 | 36.86 | 32.1 | 45.05 | 39.79 | 38.98 |
| 69528 | '1700030J22Rik' | 4.41 | 1.97 | 6.04 | 0 | 4.94 | 4.55 | 0.04 | 1.38 | 2.61 | 4.88 |
| 69534 | 'Avpi1' | 35.93 | 44.21 | 38.9 | 104 | 51.5 | 46.04 | 35.7 | 28.24 | 78.04 | 11.14 |
| 69535 | 'Ten1' | 75.38 | 44.11 | 66.3 | 75.8 | 70.2 | 64.4 | 53.3 | 59.96 | 92.68 | 56.91 |
| 69536 | 'Hemk1' | 22.65 | 27.16 | 4.53 | 6.35 | 9.81 | 13.57 | 6.47 | 16.32 | 10.79 | 12.31 |
| 69537 | 'Dnase1l1' | 0 | 0 | 0 | 13.9 | 9.18 | 0 | 0.04 | 2.32 | 0.27 | 0 |
| 69538 | 'Antxr1' | 1.24 | 0 | 0.68 | 0 | 0.74 | 0 | 1.14 | 0 | 0 | 0.01 |
| 69539 | 'Trnp1' | 0 | 0 | 1.44 | 1.81 | 7.75 | 6.63 | 4.48 | 0 | 3.25 | 0.03 |
| 69541 | 'Lyg1' | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69543 | 'Capns2' | 1.98 | 0 | 1.08 | 7.17 | 0 | 0.14 | 0 | 0 | 0 | 0 |
| 69544 | 'Wdr5b' | 0 | 3.52 | 0.03 | 0 | 0 | 0 | 9.84 | 1.78 | 6.94 | 0 |
| 69546 | 'Mapk1ip1' | 38.25 | 47.76 | 35.5 | 56.9 | 30.9 | 15.5 | 50.7 | 34.01 | 47.52 | 31.56 |
| 69547 | 'Nkpd1' | 2.73 | 3.05 | 2.48 | 0 | 0.04 | 3.91 | 1.26 | 2.17 | 5.42 | 1.5 |
| 69549 | '2310009B15Rik' | 20.41 | 9.81 | 31.4 | 27.7 | 16 | 42.4 | 15.5 | 6.4 | 26.64 | 29.58 |
| 69550 | 'Bst2' | 0.06 | 2.24 | 4.9 | 27.8 | 7.3 | 14.57 | 0 | 3.65 | 9.27 | 8.67 |
| 69551 | '2310022B05Rik' | 3.37 | 2.07 | 0.59 | 12.7 | 1.28 | 0.35 | 2.05 | 1.11 | 3.48 | 1.95 |
| 69553 | 'Ripor3' | 0 | 0 | 0 | 0 | 2.04 | 0 | 0 | 0.03 | 0 | 0 |
| 69554 | 'Klhdcc2' | 57.38 | 66.03 | 46 | 138 | 44 | 55.06 | 52.7 | 36.34 | 69.45 | 31.77 |
| 69556 | 'Bod1' | 9.88 | 25.65 | 15 | 32.1 | 15.2 | 17.64 | 15.8 | 17.07 | 19.43 | 17.26 |
| 69562 | 'Cdk13' | 1.6 | 1.71 | 1.02 | 5.73 | 2.33 | 1.02 | 2.83 | 2.65 | 1.48 | 0.9 |
| 69563 | 'Mrln' | 0 | 5.11 | 0 | 0 | 0.3 | 6.74 | 0 | 0 | 4.99 | 1.71 |
| 69564 | 'Nmrk2' | 0.14 | 0.13 | 1 | 18.4 | 0.05 | 0.05 | 0.12 | 0.06 | 0.23 | 0.16 |
| 69568 | 'Vkorc1l1' | 3.85 | 3.66 | 7.22 | 0.33 | 6.66 | 0.95 | 2.87 | 1.12 | 5.86 | 5.5 |
| 69572 | 'Mfsd3' | 2.03 | 4.18 | 12.7 | 4.27 | 8.94 | 16.6 | 8.9 | 11.94 | 7.44 | 14.78 |
| 69573 | 'Hilpda' | 2.6 | 18.5 | 15.5 | 16.2 | 31.1 | 34.08 | 29.1 | 17.73 | 17.56 | 7.79 |
| 69574 | 'Cmb1' | 30.72 | 61.09 | 24.6 | 9.21 | 3.15 | 22.04 | 36.6 | 58.63 | 2.95 | 8 |
| 69576 | 'Smco1' | 2.13 | 3.4 | 3.97 | 7.47 | 5.74 | 3.65 | 2.73 | 1.8 | 2.89 | 5.09 |
| 69577 | 'Fastkd3' | 9.57 | 9.59 | 9.14 | 0.03 | 15.9 | 10.03 | 20.3 | 8.52 | 6.41 | 0.69 |
| 69579 | '2310034P14Rik' | 0 | 0 | 0 | 0 | 1.05 | 0 | 0 | 0 | 0 | 0 |
| 69581 | 'Rhou' | 1.82 | 3.05 | 1.89 | 0.85 | 6.06 | 1.19 | 0 | 0.59 | 3.12 | 1.35 |
| 69582 | 'Plekhd2' | 4.56 | 0.85 | 0.53 | 8.45 | 3.87 | 4.19 | 1.61 | 1.51 | 7.15 | 2.32 |
| 69585 | 'Hfe2' | 5.41 | 3.52 | 4.77 | 0 | 5.15 | 7.15 | 2.85 | 3.71 | 3.19 | 13.4 |
| 69587 | 'Pcgf3' | 5.58 | 0.61 | 2.4 | 7.64 | 0.26 | 0 | 1.05 | 0.38 | 0.68 | 0.44 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 69590 | 'Gpx8' | 11.64 | 2.8 | 0 | 0 | 0.32 | 0.05 | 1 | 0 | 0 | 1.61 |
| 69596 | 'Ap5s1' | 13.13 | 11.71 | 12.2 | 14.1 | 13.6 | 23.6 | 6.15 | 23.56 | 14.15 | 19.24 |
| 69597 | 'Afg3l2' | 20.91 | 24.41 | 42 | 28.6 | 19.7 | 10.69 | 27.4 | 16.72 | 30.6 | 6.38 |
| 69601 | 'Dab2ip' | 3.29 | 5.69 | 3.98 | 9.91 | 9.53 | 6.92 | 1.44 | 3.14 | 2.87 | 5.81 |
| 69605 | 'Lnpc' | 6.33 | 4.31 | 4.29 | 2.33 | 7.16 | 3.31 | 5.17 | 4.15 | 6.87 | 5.08 |
| 69606 | 'Mfamt' | 2.32 | 12.95 | 10.4 | 11.9 | 13.1 | 15.71 | 13.1 | 18.52 | 9.25 | 14.33 |
| 69608 | 'Sec24d' | 0.16 | 13.25 | 8.59 | 14.2 | 2.08 | 0.17 | 3.38 | 7.97 | 2.95 | 3.86 |
| 69612 | 'Kansl2' | 14.65 | 8.24 | 15.9 | 43.1 | 16.5 | 16.42 | 30.4 | 9.71 | 17.16 | 6.94 |
| 69617 | 'Pitrm1' | 19.58 | 15.55 | 9.08 | 0 | 3.15 | 13.77 | 15 | 13.68 | 5.8 | 14.84 |
| 69623 | 'Zfp33b' | 4.3 | 0 | 0.65 | 0.03 | 5.71 | 0.18 | 4.56 | 2.58 | 0.12 | 2.9 |
| 69627 | 'Fam89a' | 2.87 | 0.07 | 0 | 15.6 | 0 | 0 | 2.41 | 0.03 | 0 | 0 |
| 69632 | 'Arhgef12' | 1.81 | 2.39 | 1.58 | 3.28 | 1.56 | 2.14 | 0.7 | 4.15 | 4.57 | 1.87 |
| 69634 | 'Clybl' | 23.07 | 21.6 | 23.1 | 25.7 | 50.4 | 53.14 | 48.4 | 37.34 | 57.73 | 22.79 |
| 69635 | 'Dapk1' | 6.75 | 7.57 | 1.64 | 2.47 | 5.83 | 3.81 | 1.91 | 10.76 | 3.17 | 4.55 |
| 69638 | 'Enho' | 30.26 | 11.81 | 23.8 | 20.6 | 6.78 | 41.78 | 23 | 18.65 | 25.56 | 6.02 |
| 69639 | 'Exosc8' | 8.45 | 26.33 | 8.43 | 20 | 9.06 | 8.84 | 5.39 | 16.07 | 26.62 | 23.3 |
| 69640 | 'Fam83g' | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 69641 | 'Wdr20' | 3.05 | 7.16 | 1.9 | 7.16 | 6.64 | 5.44 | 3.83 | 3.33 | 3.78 | 4.56 |
| 69642 | 'Mlip' | 1.28 | 2.22 | 2.25 | 0.05 | 0 | 0.05 | 0.87 | 0 | 1.02 | 0.01 |
| 69654 | 'Dctn2' | 174.8 | 166.2 | 169 | 161 | 136 | 192.5 | 173 | 147.6 | 125.7 | 174.88 |
| 69655 | 'Cd164l2' | 0 | 0.45 | 2.33 | 4.69 | 0 | 0 | 0 | 0 | 0 | 10.84 |
| 69656 | 'Pir' | 4.75 | 17.88 | 1.17 | 13.2 | 0 | 0 | 4.46 | 4.74 | 0.04 | 6.54 |
| 69660 | 'Tmbim1' | 3.12 | 5.15 | 2.51 | 6.45 | 0.19 | 21.28 | 0 | 5.29 | 1.96 | 4.12 |
| 69662 | '2310061104Rik' | 39.82 | 33.47 | 56.1 | 43.9 | 50.8 | 51.11 | 63.5 | 56.32 | 68.67 | 42.59 |
| 69663 | 'Ddx51' | 3.88 | 2.84 | 1.95 | 0 | 2.36 | 0 | 0.41 | 0 | 1.28 | 2.74 |
| 69665 | 'Upk3bl' | 0 | 0 | 0 | 0 | 0 | 0 | 3.24 | 0 | 0 | 0 |
| 69666 | 'Psmg4' | 33.79 | 21.02 | 20.3 | 43.9 | 21.3 | 28.08 | 4.68 | 10.77 | 20.73 | 20.29 |
| 69668 | 'Ccdc115' | 29.33 | 29.46 | 34.5 | 18.4 | 53.5 | 22.14 | 40.2 | 55.41 | 32.13 | 38.12 |
| 69671 | 'Tmem52' | 0 | 0 | 0 | 0 | 2.94 | 0 | 0 | 0.05 | 0 | 2.06 |
| 69672 | 'Txndc15' | 198.4 | 182.3 | 174 | 132 | 153 | 162.2 | 143 | 171 | 157.8 | 146.15 |
| 69674 | 'Mif4gd' | 7.46 | 7.9 | 12 | 13.6 | 4.23 | 11.66 | 6.72 | 9.03 | 13.65 | 3.26 |
| 69675 | 'Pxnd' | 1.83 | 1.96 | 2.1 | 9.58 | 2.35 | 0.33 | 4.44 | 0.46 | 3.01 | 0.43 |
| 69683 | 'Emc10' | 60.43 | 53.73 | 94.8 | 189 | 61.1 | 100.2 | 77.8 | 49.39 | 97.86 | 45.39 |
| 69684 | 'Aarsd1' | 113.6 | 84.16 | 108 | 51.6 | 86.4 | 130.2 | 66.6 | 106.2 | 128.5 | 107.79 |
| 69692 | 'Hddc2' | 58.77 | 70.58 | 78.4 | 141 | 59.7 | 79.59 | 37.2 | 112.6 | 41.57 | 78.9 |
| 69694 | 'Tatdn1' | 5.93 | 4.83 | 4.36 | 6.72 | 3.79 | 12.07 | 15.5 | 6.54 | 10 | 8.34 |
| 69697 | 'Camsap3' | 0.36 | 0.47 | 7.28 | 5.24 | 2.75 | 1.81 | 3.95 | 2.53 | 7.1 | 1.44 |
| 69700 | 'Col22a1' | 0 | 1.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 69702 | 'Ndufaf1' | 18.27 | 25.74 | 18.9 | 8.55 | 24 | 21.14 | 37 | 30.06 | 31.55 | 28.28 |
| 69707 | 'lqcg' | 3.76 | 3.86 | 0 | 0.13 | 0.45 | 1.86 | 0 | 0.18 | 0.45 | 1.31 |
| 69709 | 'Ptrhd1' | 6.42 | 3.98 | 8.39 | 6.67 | 4.67 | 3.45 | 4.78 | 3.17 | 5.09 | 4.64 |
| 69710 | 'Arap1' | 4.18 | 1.2 | 1.93 | 1.41 | 0.21 | 0.57 | 3.92 | 2.61 | 0 | 4.48 |
| 69713 | 'Pin4' | 142.1 | 85.53 | 71.1 | 136 | 96 | 106.9 | 113 | 67.08 | 149.8 | 103.96 |
| 69714 | 'Tfpt' | 21.03 | 28.31 | 30.6 | 40.8 | 28.8 | 29.17 | 58.9 | 26.67 | 99.63 | 14.17 |
| 69716 | 'Trip13' | 0 | 3.53 | 0 | 0 | 0 | 4.62 | 1.36 | 0 | 0.83 | 0 |
| 69717 | 'Gm10499' | 0 | 0.04 | 0.15 | 0.09 | 0 | 0 | 0 | 0 | 0.1 | 0 |
| 69718 | 'lpmk' | 2.57 | 1.45 | 1.94 | 1.88 | 1.12 | 0.83 | 1.67 | 0.61 | 0.22 | 0.55 |
| 69719 | 'Cad' | 0.9 | 1.67 | 0.98 | 0.43 | 0 | 0 | 1.3 | 0.45 | 0.07 | 2.36 |
| 69721 | 'Nkiras1' | 150.3 | 137.3 | 109 | 217 | 144 | 239.1 | 63.5 | 149.4 | 120.7 | 133.86 |
| 69723 | 'Rpain' | 18.93 | 30.49 | 22.5 | 23.7 | 13.3 | 9.9 | 22.6 | 16.56 | 14.25 | 27.15 |
| 69724 | 'Rnaseh2a' | 39.69 | 20.2 | 21.6 | 5.63 | 30.2 | 16.05 | 65.6 | 16.52 | 6.34 | 38.13 |
| 69726 | 'Smyd3' | 42.4 | 41.76 | 38.8 | 57.7 | 23.7 | 73.39 | 62.8 | 38.54 | 72.09 | 50.58 |
| 69727 | 'Usp46' | 16.68 | 14.45 | 21.6 | 10.8 | 11.8 | 3.49 | 35.6 | 15.38 | 25.84 | 17.28 |
| 69731 | 'Gemin7' | 139.8 | 78.65 | 115 | 118 | 117 | 95.86 | 138 | 89.88 | 102.4 | 40.09 |
| 69736 | 'Nup37' | 8.19 | 2.59 | 1.27 | 4.03 | 8.37 | 4.37 | 10.8 | 5.96 | 1.14 | 4.87 |
| 69737 | 'Ttl' | 7.82 | 1.65 | 6.33 | 11.8 | 5.82 | 1.32 | 6.51 | 7.93 | 4.57 | 5.06 |
| 69740 | 'Dph5' | 33.39 | 23.13 | 20.5 | 46.3 | 28.5 | 23.43 | 20.3 | 35.38 | 34.64 | 19.14 |
| 69742 | 'Tm2d2' | 204 | 160.3 | 224 | 222 | 145 | 214 | 145 | 210 | 195.2 | 173.96 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 69743 | 'Casz1' | 0.43 | 0.89 | 0.71 | 1.23 | 2.19 | 1.36 | 1.22 | 0.87 | 1.27 | 0.33 |
| 69745 | 'Pold4' | 20.78 | 51.79 | 12.3 | 19.7 | 33.6 | 53.31 | 21.6 | 35.1 | 29.1 | 47.58 |
| 69747 | 'Zswim7' | 12.31 | 9.61 | 10.3 | 29.5 | 21.1 | 22.93 | 19.2 | 22.24 | 32.54 | 42.19 |
| 69748 | 'Aldh16a1' | 1.13 | 1.82 | 12.6 | 0 | 5 | 6.47 | 0.04 | 2.65 | 4.66 | 9.78 |
| 69752 | 'Zfp511' | 21.39 | 17.07 | 17.6 | 15 | 12.7 | 43.36 | 13.2 | 23.26 | 13.67 | 34.66 |
| 69754 | 'Fbxo7' | 23.23 | 33.04 | 40.9 | 22.4 | 24 | 52.99 | 65.3 | 29.89 | 22.09 | 32.94 |
| 69757 | 'Leng1' | 9.61 | 5.06 | 8.43 | 8.73 | 5.69 | 16.87 | 4.06 | 13.5 | 3.62 | 2.96 |
| 69761 | '1600015I10Rik' | 0 | 1.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69769 | 'Tnfaip8l2' | 3.89 | 0 | 0.66 | 0 | 0 | 16.45 | 0 | 0 | 0 | 0 |
| 69770 | '1600002K03Rik' | 25.24 | 2.54 | 2.3 | 0 | 8.68 | 8.24 | 4.55 | 8.78 | 7.09 | 3.76 |
| 69772 | 'Bdh2' | 2.2 | 0 | 9.72 | 0 | 0 | 5.98 | 0 | 2.75 | 11.56 | 3.85 |
| 69773 | 'Timm29' | 19.73 | 8.05 | 8.54 | 30.4 | 12.4 | 4.84 | 15.7 | 5.66 | 38.46 | 8.67 |
| 69780 | 'Smap2' | 20.26 | 12.05 | 14.9 | 10.7 | 13.4 | 31.08 | 13 | 11.78 | 11.97 | 11.26 |
| 69784 | '1500009L16Rik' | 74.87 | 128.4 | 45.2 | 119 | 57.3 | 71 | 23.4 | 85.81 | 53.92 | 37.75 |
| 69786 | 'Tprkb' | 45.08 | 40.11 | 31.9 | 25.4 | 56 | 29.34 | 73.8 | 26.02 | 35.05 | 27.08 |
| 69787 | 'Anxa13' | 0 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69790 | 'Med30' | 37.56 | 37.67 | 59.5 | 30.3 | 38.7 | 31 | 70.7 | 29.28 | 27.74 | 18.01 |
| 69792 | 'Med6' | 23.36 | 24.83 | 11.7 | 41.7 | 14.5 | 24.66 | 20.6 | 36.89 | 32.58 | 41.3 |
| 69802 | 'Cox11' | 4.02 | 4.14 | 2.54 | 14.6 | 6.2 | 0 | 2.41 | 0.07 | 1.86 | 1.82 |
| 69804 | 'Tmem147' | 255.1 | 118.8 | 258 | 238 | 272 | 288.7 | 228 | 267.8 | 292.5 | 258.21 |
| 69806 | 'Slc39a11' | 14.26 | 18.89 | 15.9 | 18.3 | 22.9 | 13.24 | 19.1 | 11.83 | 19.88 | 54.52 |
| 69807 | 'Trim32' | 88.74 | 91.52 | 70.6 | 38.9 | 71.1 | 59.97 | 136 | 109 | 65.05 | 71.37 |
| 69814 | 'Prss32' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 |
| 69815 | 'Krtcap3' | 12.99 | 3.49 | 1.84 | 9.14 | 14.6 | 0 | 0 | 0.74 | 2.99 | 7.68 |
| 69821 | 'Mterf4' | 16.16 | 12.93 | 12.1 | 24.1 | 9.24 | 33.31 | 17.2 | 10.97 | 7.11 | 0.75 |
| 69823 | 'Fyttd1' | 53.32 | 52.93 | 56.6 | 82.9 | 50.8 | 27.67 | 48.1 | 53.56 | 69.19 | 47.8 |
| 69824 | 'Glod5' | 0 | 0 | 6.98 | 0 | 0 | 0 | 0 | 0 | 4.28 | 3.97 |
| 69833 | 'Polr2f' | 154.5 | 128.5 | 152 | 174 | 116 | 120.6 | 110 | 119.9 | 147.6 | 134.78 |
| 69834 | 'Rab43' | 0.36 | 1.31 | 2.06 | 0.19 | 0.05 | 0.09 | 0 | 0.62 | 0.36 | 0.03 |
| 69837 | 'Pcgf1' | 30.48 | 30.69 | 10.3 | 12.2 | 61.6 | 56.81 | 30.7 | 37.21 | 43.71 | 37.94 |
| 69847 | 'Wnk4' | 0 | 0.07 | 0.58 | 0 | 0.88 | 0.18 | 0.57 | 0.13 | 0 | 0.04 |
| 69852 | 'Tcf23' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69860 | 'Eif1ad' | 5.18 | 12.26 | 29.2 | 26.2 | 15.2 | 20.37 | 25.8 | 30.2 | 33.28 | 12.17 |
| 69863 | 'Ttc39b' | 1.3 | 0.77 | 2.79 | 0.86 | 1.35 | 0.15 | 2.4 | 1.9 | 0.01 | 2.14 |
| 69865 | 'A1cf' | 0 | 0.03 | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 0 |
| 69870 | 'Polr3gl' | 22.82 | 23.79 | 24 | 38.7 | 52.6 | 37.59 | 39.3 | 20.55 | 39.1 | 46.85 |
| 69871 | 'Ppp1r35' | 12.16 | 8.59 | 12.4 | 29.1 | 13.4 | 3.31 | 8.49 | 8.52 | 9.51 | 4.89 |
| 69875 | 'Ndufa11' | 109.3 | 123.9 | 157 | 174 | 145 | 151.6 | 164 | 119.7 | 113.6 | 119.96 |
| 69876 | 'Thap3' | 28.12 | 36.74 | 19.1 | 42.7 | 35.6 | 50.9 | 26.8 | 17.91 | 26.87 | 53.1 |
| 69878 | 'Snrpf' | 51.22 | 56.64 | 66.3 | 55.2 | 43.3 | 79.07 | 67.1 | 36.9 | 74.81 | 71.25 |
| 69882 | 'Ints14' | 10.21 | 15.56 | 3.92 | 8.2 | 7.6 | 7.11 | 1.58 | 11.79 | 4.32 | 3 |
| 69885 | 'Aunip' | 0 | 1.51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69890 | 'Zfp219' | 10.58 | 12.97 | 18.7 | 10.5 | 13.7 | 1.57 | 12.5 | 11.1 | 14.35 | 11.08 |
| 69893 | 'Coa7' | 8.51 | 8.53 | 2.9 | 15.7 | 8.42 | 12.16 | 7.73 | 19.43 | 18.31 | 3.42 |
| 69894 | 'Fam241b' | 101.6 | 112.7 | 84 | 60 | 112 | 112.1 | 97.7 | 89.47 | 117.7 | 136.68 |
| 69900 | 'Mfsd11' | 29.91 | 31.99 | 12.7 | 27.8 | 14.6 | 15.45 | 22.3 | 33.12 | 23.8 | 27.8 |
| 69902 | 'Mrto4' | 64.05 | 39.21 | 74.4 | 20.9 | 53.2 | 69.95 | 36.5 | 54.55 | 37.05 | 27.23 |
| 69903 | 'Rasip1' | 2.96 | 1.51 | 4.8 | 1.39 | 1.05 | 2.29 | 1.49 | 2.64 | 1.65 | 5.77 |
| 69906 | 'Slc25a32' | 1.92 | 1.86 | 0.85 | 2.24 | 4.22 | 0.02 | 9.54 | 1.39 | 4.78 | 0.23 |
| 69908 | 'Rab3b' | 90.37 | 198 | 65.3 | 82.7 | 268 | 158.3 | 40.8 | 27.78 | 136.6 | 228.2 |
| 69912 | 'Nup43' | 4.68 | 0.61 | 16.2 | 11.8 | 21.9 | 8.22 | 19.2 | 5.08 | 6.97 | 26.51 |
| 69917 | 'Nabp2' | 120.6 | 118.2 | 87.4 | 103 | 66.1 | 126.4 | 111 | 133.4 | 111.1 | 96.77 |
| 69920 | 'Polr2i' | 50.05 | 49.66 | 51.6 | 42 | 31.7 | 58.04 | 56.2 | 25.95 | 38.35 | 30.19 |
| 69922 | 'Vrk2' | 0.03 | 2.42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69923 | 'Agk' | 41.9 | 26.94 | 30.8 | 19.4 | 49.1 | 35.59 | 61.5 | 48.96 | 53.85 | 23.75 |
| 69926 | 'Dnah17' | 0 | 0.27 | 0 | 0.01 | 0 | 0.25 | 0 | 0 | 0.43 | 0 |
| 69928 | 'Cenps' | 6.09 | 2.04 | 5.66 | 15.3 | 11.4 | 5.56 | 0.06 | 9.81 | 8.93 | 14.81 |
| 69930 | 'Zfp715' | 3.48 | 4.99 | 0.5 | 11 | 2.84 | 0.96 | 10.1 | 12.85 | 10.03 | 7.26 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 69934 | 'Trmt10b' | 21.13 | 17.43 | 13.9 | 0.04 | 15.9 | 18 | 9.58 | 23.48 | 21.03 | 19.65 |
| 69938 | 'Scrn1' | 80.95 | 74.23 | 90.6 | 94.1 | 63.6 | 30.24 | 73.7 | 77.94 | 104.4 | 118.94 |
| 69940 | 'Exoc1' | 11.49 | 14.35 | 29.8 | 12.8 | 15 | 9.9 | 17.9 | 22.7 | 30.18 | 15.53 |
| 69942 | 'Rnf113a1' | 8.51 | 25.02 | 7.62 | 0 | 9.2 | 8 | 21.5 | 15.34 | 14.54 | 14.15 |
| 69944 | '2810021J22Rik' | 1.65 | 0.11 | 2.7 | 0.05 | 4.72 | 4.5 | 3.39 | 3.75 | 3.67 | 2.4 |
| 69955 | 'Fars2' | 20.47 | 19.65 | 9.1 | 11.9 | 21.3 | 23.44 | 13 | 20.16 | 13.93 | 28.56 |
| 69956 | 'Ptdc3' | 41.59 | 49.24 | 45.1 | 31.8 | 40.9 | 32.12 | 49.9 | 32.83 | 33.56 | 61.42 |
| 69957 | 'Cdc16' | 54.96 | 21.41 | 48.3 | 76.1 | 30.6 | 5.87 | 54.6 | 32.1 | 54.63 | 7.38 |
| 69961 | 'Rpp25l' | 26.83 | 49.3 | 29.2 | 51.7 | 28.7 | 29.3 | 46.1 | 38.65 | 53.53 | 52.32 |
| 69962 | 'Mettl18' | 8 | 8.35 | 4.32 | 0 | 3.74 | 1.91 | 5.78 | 1.67 | 8.52 | 5.97 |
| 69976 | 'Galk2' | 34.85 | 52.26 | 57.2 | 32.9 | 44.9 | 56.45 | 21.1 | 43.38 | 37.28 | 50.6 |
| 69981 | 'Tmem30a' | 88.98 | 51.54 | 83.2 | 117 | 55.4 | 26.96 | 83.7 | 56.03 | 89.29 | 41.11 |
| 69987 | 'Spaca9' | 5.25 | 0.08 | 0.08 | 0 | 0 | 8.92 | 6.39 | 7.21 | 0 | 1.58 |
| 69993 | 'Chn2' | 20.47 | 2.46 | 5.02 | 0 | 4.73 | 9.55 | 17.1 | 2.3 | 38.06 | 12.47 |
| 69994 | 'Rsc1a1' | 0 | 0 | 4.4 | 0 | 0 | 0.04 | 1.73 | 1.04 | 0.06 | 3.79 |
| 70009 | 'Ssty2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.12 | 0 |
| 70012 | 'Cep85' | 2.33 | 1.5 | 5.21 | 0 | 4.3 | 0.44 | 0.4 | 6.58 | 0 | 2.23 |
| 70020 | 'Ino80b' | 0.09 | 1.1 | 0 | 2.22 | 0 | 2.92 | 0 | 1.72 | 4.16 | 2.85 |
| 70021 | 'Nt5dc2' | 0 | 0 | 0.03 | 0.04 | 2.02 | 0 | 6.46 | 0.03 | 0 | 0 |
| 70024 | 'Mcm10' | 0.02 | 0.02 | 0.05 | 0.02 | 0 | 0 | 0 | 0.03 | 0.04 | 0.63 |
| 70025 | 'Acot7' | 691.9 | 565.4 | 546 | 588 | 571 | 735.9 | 629 | 570.8 | 521.6 | 640.45 |
| 70028 | 'Dop1b' | 11.13 | 4.97 | 15.8 | 8.34 | 3.99 | 3.7 | 6.04 | 2.08 | 8.45 | 4.59 |
| 70031 | 'Cmtm8' | 0.64 | 12.85 | 0.06 | 0.8 | 3.01 | 0 | 0.05 | 1.56 | 0.11 | 6.63 |
| 70044 | 'Tut1' | 13.79 | 12.23 | 12.9 | 12.6 | 24.1 | 10.46 | 8.46 | 18.51 | 16.05 | 18.65 |
| 70045 | '2610528A11Rik' | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 3.94 | 4.51 |
| 70047 | 'Trnt1' | 24.97 | 50.99 | 18.6 | 35.5 | 26.1 | 23.23 | 34.4 | 39.4 | 28.12 | 25.45 |
| 70052 | 'Prpf4' | 8.39 | 12.4 | 5.64 | 0.7 | 11.7 | 13.71 | 9.15 | 5.6 | 10.44 | 4.1 |
| 70054 | 'Ccadc89' | 0 | 2.2 | 0 | 0 | 0 | 0.54 | 0 | 0 | 3.05 | 2.07 |
| 70059 | 'Degs2' | 0 | 1.2 | 0.27 | 2.18 | 4.73 | 8.38 | 0 | 0.47 | 2.56 | 1.93 |
| 70062 | 'Ctag2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 |
| 70078 | 'Nol7' | 23.55 | 19.68 | 25.9 | 18.7 | 9.44 | 20.88 | 19.5 | 18.47 | 17.27 | 6.12 |
| 70080 | 'lgsf23' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0.34 | 0 |
| 70081 | 'Zfp995' | 1.15 | 1.29 | 9.92 | 3.76 | 0.26 | 1.35 | 4.73 | 4.01 | 12.08 | 2.32 |
| 70082 | 'Lysmd2' | 88.04 | 51.02 | 43 | 80.1 | 38 | 39.53 | 42.3 | 54.23 | 60.43 | 38.35 |
| 70083 | 'Metrn' | 16.01 | 10.58 | 9.55 | 1.28 | 20.3 | 6.18 | 1.46 | 6.68 | 3.53 | 0.7 |
| 70088 | 'Meaf6' | 80.21 | 79.19 | 77.2 | 38.2 | 72.5 | 68.73 | 78.8 | 64 | 82.83 | 92.67 |
| 70093 | 'Ube2q1' | 6.5 | 9.57 | 2.94 | 7.23 | 8.02 | 1.52 | 12.4 | 3.81 | 4.14 | 6.65 |
| 70097 | 'Sash1' | 0.38 | 0.14 | 0.35 | 0.62 | 0.38 | 1.09 | 0.32 | 0.08 | 0.65 | 0.34 |
| 70099 | 'Smc4' | 1.04 | 0.68 | 0.5 | 0.01 | 0.05 | 1.36 | 2.73 | 0.62 | 0.98 | 0.71 |
| 70101 | 'Cyp4f16' | 2.4 | 0 | 7.21 | 8.9 | 2.79 | 0 | 0 | 0 | 4.15 | 3.26 |
| 70103 | 'Znhit1' | 169.6 | 117 | 92.3 | 166 | 193 | 177.4 | 114 | 176.5 | 164.6 | 140.58 |
| 70110 | 'lfi35' | 1.52 | 2.98 | 0 | 42.9 | 4.82 | 0 | 0.07 | 0.03 | 0 | 2.81 |
| 70113 | 'Odf3b' | 5.42 | 2.48 | 10.5 | 0 | 6.52 | 0 | 10.3 | 0.04 | 4.81 | 2.38 |
| 70118 | 'Srrd' | 0 | 1.47 | 6.45 | 4.37 | 14.1 | 11.47 | 6.15 | 4.73 | 0.21 | 0 |
| 70120 | 'Yars2' | 9.01 | 4.4 | 0.67 | 8.82 | 5.27 | 17.9 | 0 | 4.95 | 5.66 | 7.66 |
| 70122 | 'MlIt3' | 2.98 | 1.08 | 4.26 | 0.07 | 3.19 | 3 | 8.26 | 3.01 | 7.95 | 1.68 |
| 70123 | 'Nbdy' | 136.9 | 171.2 | 169 | 238 | 204 | 312.3 | 221 | 170.9 | 143.9 | 231.32 |
| 70127 | 'Dpf3' | 2.91 | 0.26 | 1.8 | 0 | 0 | 0.31 | 0.19 | 0 | 6.82 | 0.77 |
| 70129 | 'Slc44a4' | 0 | 0 | 1.34 | 0 | 4.29 | 0.02 | 0 | 0 | 0 | 0 |
| 70134 | '2210011C24Rik' | 0 | 0 | 3.43 | 0 | 2.38 | 0 | 3.34 | 0 | 0 | 0 |
| 70144 | 'Lrch3' | 10.36 | 6.5 | 11.8 | 11.4 | 8.17 | 1.38 | 10.9 | 5.89 | 7.54 | 7.38 |
| 70152 | 'Mettl7a1' | 4.13 | 14.24 | 9 | 7.5 | 7.12 | 13.86 | 7.18 | 8.77 | 9.41 | 10.99 |
| 70153 | '2210016F16Rik' | 26.67 | 16.55 | 15.8 | 22.7 | 11.2 | 27.38 | 8.87 | 35.73 | 35.3 | 31.98 |
| 70155 | 'Ogfrl1' | 5.25 | 3.08 | 2.8 | 8.08 | 1.51 | 2.62 | 3.52 | 1.31 | 6.18 | 0.43 |
| 70160 | 'Vps36' | 9.95 | 7.14 | 6.31 | 21.8 | 18.7 | 48.35 | 10.7 | 12.74 | 12.27 | 7.44 |
| 70178 | 'Abhd17c' | 2.1 | 0 | 2.53 | 6.55 | 0 | 5.49 | 0 | 0.02 | 0 | 0 |
| 70186 | 'Fam162a' | 72.97 | 60.96 | 95.6 | 61.9 | 65.1 | 51.95 | 118 | 89.99 | 106.2 | 83.27 |
| 70190 | '2610036A22Rik' | 0 | 0.02 | 0.05 | 0 | 0.45 | 0 | 0 | 0 | 0 | 0.6 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 70394 | 'Kptn' | 35.44 | 26.8 | 30.8 | 41.4 | 34.5 | 35.65 | 25.9 | 10.52 | 10.48 | 29.48 |
| 70396 | 'Asnsd1' | 10.1 | 12.36 | 7 | 21.6 | 9.22 | 16.79 | 3.55 | 11.34 | 3.98 | 27.75 |
| 70397 | 'Tmem70' | 47.86 | 65.58 | 46 | 31.8 | 38.4 | 59.39 | 34.2 | 60.71 | 43.48 | 67.84 |
| 70408 | 'Polr3f' | 4.39 | 1.02 | 0.43 | 4.4 | 5.68 | 0.3 | 3.02 | 0.5 | 5.71 | 2.67 |
| 70415 | 'Stk26' | 2.66 | 3.94 | 1.35 | 0 | 2.63 | 2.84 | 0.89 | 1.19 | 1.67 | 3.24 |
| 70417 | 'Megf10' | 1.06 | 0.06 | 0 | 2.57 | 2.69 | 0 | 0.01 | 0 | 0 | 0.27 |
| 70420 | 'Arpin' | 14.52 | 8.5 | 6.44 | 18 | 6.35 | 12.67 | 18.2 | 4.75 | 6.27 | 10.87 |
| 70422 | 'Ints2' | 4.17 | 3.48 | 1.41 | 4.62 | 1.4 | 0.93 | 2.42 | 3.13 | 1.22 | 2.75 |
| 70423 | 'Tspan15' | 15.62 | 4.86 | 10.6 | 4.5 | 6.82 | 0.14 | 13.2 | 6.75 | 0.18 | 0.06 |
| 70425 | 'Csnk1g3' | 1.99 | 3.18 | 1.31 | 4.84 | 6.61 | 2.17 | 5.25 | 1.38 | 0.64 | 2.35 |
| 70426 | 'Tekt5' | 6 | 13.75 | 7.34 | 0 | 9.71 | 0 | 6.05 | 34.87 | 7.37 | 2.39 |
| 70427 | 'Mier2' | 7.67 | 11.7 | 17.4 | 7.19 | 3.67 | 2.84 | 13 | 8.87 | 19.41 | 9.33 |
| 70428 | 'Polr3b' | 5.14 | 5.65 | 3.33 | 6.81 | 1.03 | 2.19 | 0.18 | 3.07 | 6.57 | 1.49 |
| 70430 | 'Tbce' | 47.48 | 53.97 | 41.5 | 48.5 | 61.4 | 58.98 | 42.6 | 71.08 | 61.84 | 30.36 |
| 70432 | 'Rufy2' | 21.98 | 24.35 | 36.1 | 17.9 | 36.2 | 34.87 | 11.6 | 31.99 | 54.43 | 32.67 |
| 70433 | 'Draxin' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.13 |
| 70435 | 'Inf2' | 0.84 | 1.5 | 0.8 | 0.05 | 1.36 | 3.4 | 0.04 | 0.05 | 0.75 | 0.01 |
| 70439 | 'Taf15' | 17.1 | 6.72 | 7.02 | 3.05 | 16 | 13.81 | 1.4 | 16.93 | 9.9 | 16.5 |
| 70445 | 'Cd248' | 0 | 0 | 0 | 0 | 1.39 | 0.02 | 2.31 | 0 | 0 | 0 |
| 70450 | 'Unc13d' | 0 | 0.94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.35 |
| 70451 | 'Dhrs13' | 13.16 | 15.8 | 8.33 | 0.36 | 9.69 | 6.14 | 15.3 | 18.52 | 6.96 | 9.47 |
| 70454 | 'Cenpl' | 0 | 0.48 | 0 | 0.07 | 0 | 0.02 | 0 | 0 | 0 | 0.46 |
| 70456 | 'Mpc2' | 219.9 | 172.2 | 250 | 202 | 253 | 172.1 | 196 | 163.7 | 219.3 | 168.19 |
| 70458 | '2610318N02Rik' | 3.92 | 2.36 | 11.1 | 0 | 4.02 | 0 | 0 | 1.83 | 6.31 | 7.73 |
| 70461 | 'Crtc3' | 2.86 | 2.47 | 1.61 | 6.96 | 2.79 | 3.97 | 2.38 | 1.03 | 1.48 | 2.5 |
| 70465 | 'Wdr77' | 39.64 | 23.06 | 19.5 | 18.6 | 43.8 | 29.24 | 19.1 | 31.96 | 47.13 | 32.72 |
| 70470 | 'Rprd1b' | 8.36 | 6.91 | 12.5 | 16.3 | 16.2 | 5.21 | 22.1 | 6.29 | 11.59 | 6.07 |
| 70472 | 'Atad2' | 1.99 | 0.75 | 2.45 | 0.18 | 0.69 | 1.52 | 1.98 | 0.07 | 0.13 | 3.09 |
| 70478 | 'Mipep' | 1.11 | 1.37 | 2.51 | 3.58 | 3.53 | 0.68 | 5.33 | 4.08 | 3.73 | 0.02 |
| 70481 | 'Pnma1' | 12.52 | 11.81 | 23.5 | 22.2 | 18.7 | 7.3 | 13.3 | 16.82 | 3.19 | 9.82 |
| 70484 | 'Slc35d2' | 0.02 | 0.04 | 0.18 | 0.18 | 4.18 | 0.04 | 0.3 | 0.17 | 0.26 | 0.15 |
| 70495 | 'Atp6ap2' | 262.4 | 372.9 | 313 | 274 | 228 | 298.6 | 247 | 327.6 | 245.8 | 355.96 |
| 70497 | 'Arhgap17' | 0.02 | 4.52 | 1.11 | 0 | 0.5 | 1.84 | 0 | 2.23 | 2.51 | 0.55 |
| 70503 | 'Ddo' | 12.72 | 13.68 | 1.85 | 3.62 | 12.2 | 13.15 | 27.5 | 13.06 | 3.06 | 19.34 |
| 70508 | 'Bbx' | 9.47 | 10.95 | 11.2 | 11.9 | 5.57 | 3.25 | 13.2 | 5.51 | 10.13 | 18.54 |
| 70510 | 'Rnf167' | 84.17 | 78.92 | 117 | 79.7 | 80.2 | 113.2 | 127 | 89.82 | 98.4 | 88.07 |
| 70511 | 'Eef2kmt' | 1.64 | 2.93 | 2.11 | 0 | 6.24 | 0.05 | 0.93 | 4.74 | 5.52 | 3.28 |
| 70527 | 'Stambp' | 41.84 | 44.66 | 47 | 45.6 | 31.7 | 39.15 | 37.2 | 49.52 | 47.52 | 41.82 |
| 70530 | 'Lrln2' | 5.31 | 4.27 | 11.7 | 0.79 | 3.59 | 2.59 | 3.96 | 9.57 | 8.67 | 0 |
| 70533 | 'Btf3l4' | 41.75 | 35.04 | 34.2 | 14.1 | 37.8 | 37.76 | 26.1 | 50 | 27.6 | 40.74 |
| 70536 | 'Qpct' | 34.55 | 74.46 | 44.9 | 48.1 | 31.6 | 50.48 | 33.3 | 47.83 | 57.19 | 69.48 |
| 70544 | 'Tmem242' | 118.2 | 55.34 | 99.8 | 145 | 98.8 | 134.4 | 93.2 | 112.9 | 112.7 | 103.15 |
| 70546 | 'Zdhhc2' | 9.58 | 4.71 | 5.41 | 15.2 | 11.2 | 6.06 | 6.57 | 6.9 | 5.45 | 5.54 |
| 70549 | 'Tln2' | 4.19 | 3.82 | 3.32 | 1.3 | 2.84 | 4.38 | 5.11 | 3 | 2.52 | 3.14 |
| 70551 | 'Tmtc4' | 4.68 | 4.68 | 8.44 | 1.43 | 4.49 | 1.49 | 6.85 | 7.56 | 5.44 | 5.8 |
| 70552 | 'Lrrc56' | 8.35 | 0.71 | 1.71 | 2.37 | 6.39 | 0.02 | 0 | 2.09 | 0 | 3.11 |
| 70556 | 'Slc25a33' | 3.56 | 16.78 | 4.48 | 2.56 | 5.42 | 6.67 | 7.33 | 2.04 | 13.9 | 0.07 |
| 70560 | 'Wars2' | 1.89 | 1.72 | 0.03 | 0.05 | 3.07 | 5.9 | 0 | 3.1 | 0.93 | 3.36 |
| 70561 | 'Txndc16' | 18.57 | 24.15 | 24.7 | 29.6 | 11.6 | 16.98 | 24 | 19.73 | 25.55 | 21.01 |
| 70564 | 'Fam213a' | 155 | 113.2 | 110 | 141 | 125 | 151.7 | 106 | 121.3 | 142.8 | 132.58 |
| 70567 | 'Fra10ac1' | 30.64 | 19.55 | 33.6 | 17 | 24.5 | 20.49 | 26.7 | 16.17 | 24.89 | 8.87 |
| 70568 | 'Cpne3' | 1.53 | 2.04 | 4.54 | 0 | 3.23 | 0.8 | 0.49 | 1.29 | 2 | 1.35 |
| 70571 | 'Tcerg1l' | 1.93 | 9.76 | 1.88 | 18.3 | 1.52 | 3.18 | 6.12 | 6.56 | 0 | 2.08 |
| 70572 | 'Ipo5' | 19.32 | 25.41 | 23.5 | 41.5 | 14 | 5.94 | 9.84 | 18.18 | 6.87 | 15.1 |
| 70573 | 'Tbccd1' | 5.13 | 14.42 | 5.97 | 2.95 | 4.7 | 7.71 | 5.92 | 2.4 | 12.03 | 5.82 |
| 70574 | 'Cpm' | 0.34 | 0.28 | 2.22 | 1.43 | 1.07 | 2.36 | 0 | 0.76 | 0.12 | 1.07 |
| 70575 | 'Gfod2' | 45.55 | 39.33 | 27 | 9.81 | 38.5 | 24.81 | 23.2 | 39.93 | 42.54 | 23.35 |
| 70579 | 'Zc3h11a' | 31.87 | 24.86 | 19.7 | 26 | 23 | 10.51 | 27.8 | 26.6 | 19.36 | 33.7 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 70584 | 'Pak4' | 3.15 | 4.01 | 0.72 | 0 | 1.72 | 2.42 | 0 | 7.66 | 2.44 | 0 |
| 70591 | '5730455P16Rik' | 34.22 | 33.43 | 24.7 | 13.7 | 34.8 | 30.86 | 47.7 | 31.97 | 35.75 | 35.34 |
| 70598 | 'Filip1' | 0.01 | 1.07 | 0 | 1.96 | 0 | 1.04 | 0.9 | 3.46 | 0 | 0 |
| 70599 | 'Itprid2' | 0.89 | 0.92 | 0.01 | 5.69 | 0.3 | 2.24 | 0.47 | 1.75 | 1.58 | 1.51 |
| 70601 | 'Ecd' | 39.91 | 34.85 | 19.8 | 37.6 | 34.2 | 39.37 | 25.7 | 34.89 | 19.05 | 52.11 |
| 70603 | 'Mutyh' | 3.34 | 1.77 | 0 | 0 | 5.38 | 0 | 0 | 1.4 | 0.58 | 0.25 |
| 70604 | 'Dnajb14' | 15.62 | 15.23 | 14 | 30.1 | 13.3 | 22.17 | 18.7 | 14.41 | 12.16 | 17.69 |
| 70605 | 'Zdhhc24' | 18.38 | 6.69 | 7.09 | 0 | 9.79 | 16 | 24.3 | 12.15 | 0.25 | 6.93 |
| 70611 | 'Fbxo33' | 3.52 | 6.56 | 2.86 | 13.7 | 8.67 | 6.35 | 3.27 | 4.02 | 5.94 | 3.96 |
| 70612 | 'Tmem230' | 33.99 | 37.7 | 27.4 | 32.8 | 45.5 | 49.31 | 73.5 | 30.65 | 41.74 | 36.53 |
| 70615 | 'Ankrd24' | 9.35 | 8.44 | 14 | 13.9 | 9.48 | 12.35 | 8.05 | 9.37 | 17.51 | 14.41 |
| 70616 | 'Sugp1' | 25.41 | 39.33 | 39.6 | 39.2 | 48.6 | 11.6 | 36.9 | 18.24 | 38.81 | 31.62 |
| 70617 | 'Fam241a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.81 | 0 | 0 |
| 70620 | 'Ube2v2' | 47.34 | 45.5 | 47.6 | 45.2 | 35.5 | 47.92 | 45.9 | 50.46 | 47.63 | 51.43 |
| 70625 | 'Med26' | 3.31 | 11.79 | 4.92 | 14.3 | 3.24 | 4.23 | 8.76 | 2.13 | 7.97 | 3.27 |
| 70638 | 'Fam189a1' | 0.01 | 0.93 | 6.17 | 2.52 | 2.65 | 0.02 | 0.01 | 0.77 | 6.81 | 2.66 |
| 70640 | 'Dcp2' | 0.95 | 2.15 | 1.96 | 3.57 | 1.95 | 0.68 | 0.68 | 0.58 | 1.19 | 0.14 |
| 70645 | 'Oip5' | 0 | 0 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70646 | 'Naa30' | 1.09 | 0.47 | 1.03 | 0.32 | 1.06 | 0 | 0.01 | 1.79 | 0.09 | 0.04 |
| 70650 | 'Zcchc8' | 3.54 | 13.92 | 5.06 | 6.35 | 2.69 | 7.62 | 10.7 | 8.2 | 4.98 | 3.39 |
| 70652 | 'Tmem144' | 2.14 | 1.99 | 3.58 | 0.03 | 2.64 | 3.42 | 5.44 | 0 | 1.06 | 7.55 |
| 70661 | 'Sik3' | 3.67 | 3.65 | 3.53 | 5.47 | 3.16 | 6.01 | 2.51 | 3.15 | 2.2 | 0.8 |
| 70673 | 'Prdm16' | 3.05 | 5.06 | 4.34 | 2.19 | 0.83 | 1.49 | 3.55 | 3.68 | 0.04 | 3.12 |
| 70675 | 'Vcpip1' | 5.71 | 3.54 | 6.32 | 2.88 | 3.59 | 6.06 | 2.17 | 4.29 | 2.86 | 4.99 |
| 70676 | 'Gulp1' | 1.22 | 1.42 | 1.19 | 0 | 1.08 | 0 | 0.05 | 1.33 | 3.86 | 2.86 |
| 70681 | 'Abraxas1' | 4.15 | 3.54 | 2.85 | 5.07 | 2.02 | 7.51 | 0.08 | 5.12 | 4.39 | 5.95 |
| 70683 | 'Utp20' | 0.34 | 0.95 | 0.5 | 2.48 | 0.32 | 0.02 | 0.69 | 1.35 | 0.5 | 1.18 |
| 70686 | 'Dusp16' | 0.2 | 0.68 | 5.49 | 3.31 | 0.5 | 0.05 | 2.01 | 1.42 | 1.54 | 4.47 |
| 70691 | '3830403N18Rik' | 0 | 0.44 | 0 | 0.12 | 0 | 0 | 0 | 0.04 | 0 | 0 |
| 70693 | 'Adgra3' | 1.86 | 1.16 | 2.1 | 4.56 | 0.01 | 0 | 0 | 0.01 | 3.05 | 0.1 |
| 70699 | 'Nup205' | 4.29 | 1.65 | 1.01 | 13.1 | 3.11 | 4.07 | 5.34 | 0.52 | 1.86 | 1.88 |
| 70713 | 'Gpr137c' | 4.3 | 2.31 | 8.24 | 0.31 | 3.56 | 3.04 | 3.97 | 5.73 | 1.64 | 1.39 |
| 70717 | 'Medag' | 7.75 | 10.52 | 0.63 | 0.07 | 2.08 | 1.64 | 11.2 | 5.35 | 4.03 | 8.24 |
| 70719 | 'Arhgap45' | 1.67 | 0 | 0.02 | 0 | 0 | 0.95 | 0 | 0 | 0 | 0 |
| 70726 | 'Angptl6' | 12.77 | 19.92 | 15.3 | 14.4 | 20.1 | 8.4 | 12.1 | 13.74 | 13.84 | 27.51 |
| 70727 | 'Rasgef1a' | 14.43 | 20.02 | 11 | 39.1 | 36.3 | 18.78 | 15.6 | 15.08 | 22.21 | 25.68 |
| 70729 | 'Nos1ap' | 22.48 | 11.23 | 16.4 | 26.2 | 7.51 | 4.37 | 19 | 4.96 | 5.46 | 1.85 |
| 70730 | '6330409D20Rik' | 0.32 | 0 | 0.22 | 0 | 3.62 | 2.74 | 0 | 1.7 | 0 | 0 |
| 70737 | 'Cgn' | 10.67 | 8.3 | 14.2 | 18.8 | 8.31 | 8.21 | 5.75 | 9.33 | 21.61 | 12.44 |
| 70747 | 'Tspan2' | 11.07 | 6.32 | 8.51 | 5.01 | 6.83 | 6.98 | 9.03 | 6.55 | 10.26 | 4.04 |
| 70750 | 'Kdsr' | 7.28 | 13.91 | 20.6 | 6.04 | 11.1 | 8.12 | 21.1 | 11.76 | 19.99 | 14.21 |
| 70757 | 'Hacd2' | 9.02 | 5.92 | 4.33 | 17.5 | 4.67 | 1.63 | 6.99 | 4.71 | 5.77 | 0.05 |
| 70762 | 'Dclk2' | 7.66 | 5.34 | 12.4 | 11.4 | 4.89 | 3.73 | 12.4 | 3.32 | 9.74 | 1.8 |
| 70767 | 'Prpf3' | 21.75 | 11.64 | 5.47 | 16.4 | 16.2 | 7.34 | 20.2 | 3.1 | 4.68 | 7.24 |
| 70769 | 'Nolc1' | 28.7 | 22.75 | 27.8 | 38.7 | 27.2 | 26.76 | 37.3 | 20.24 | 26.69 | 23.7 |
| 70771 | 'Gpr173' | 0.35 | 0 | 0.01 | 0.41 | 1.67 | 0.27 | 2.27 | 0.49 | 0.57 | 2.1 |
| 70772 | 'Ggnbp1' | 0 | 1.58 | 0 | 10.3 | 0 | 0.35 | 0 | 1.6 | 0 | 0.19 |
| 70779 | 'Prdm5' | 3.06 | 2.86 | 0.07 | 0 | 0 | 1.23 | 0 | 0.53 | 0.98 | 1.87 |
| 70784 | 'Rasl12' | 0.22 | 0.07 | 2.29 | 0 | 3.11 | 0 | 0 | 3.22 | 0.02 | 0 |
| 70785 | 'Dennd1c' | 0 | 0 | 1.9 | 0.02 | 0 | 2.47 | 1 | 0.34 | 0.66 | 0.78 |
| 70788 | 'Klhl30' | 0 | 0.02 | 0 | 0.02 | 0 | 0.01 | 0 | 0 | 0 | 0.03 |
| 70789 | 'Kynu' | 2.14 | 0 | 0 | 0 | 0 | 4.43 | 0 | 0 | 0 | 2.6 |
| 70790 | 'Ubr5' | 5.65 | 4.58 | 1.06 | 15.6 | 4.98 | 2.44 | 2.04 | 2.78 | 1.4 | 5.19 |
| 70791 | 'Hars2' | 19.67 | 19.44 | 10.7 | 9.54 | 18.4 | 14.26 | 12 | 2.37 | 17.55 | 31.57 |
| 70796 | 'Zdhhc1' | 26.08 | 24.25 | 38.7 | 30.4 | 15.4 | 16.38 | 31.7 | 7.7 | 23.12 | 11.1 |
| 70797 | 'Ankib1' | 0.97 | 2.31 | 2.42 | 3 | 3.61 | 1.01 | 2.65 | 0.87 | 5.25 | 0.82 |
| 70799 | 'Cep192' | 0.11 | 0.67 | 0.42 | 2.25 | 0.89 | 0.01 | 0 | 1.18 | 0.55 | 0.24 |
| 70802 | 'Pwwp2a' | 5.43 | 3.46 | 5.48 | 9.19 | 6.73 | 2.83 | 4.52 | 2.38 | 3.51 | 5.44 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 70804 | 'Pgrmc2' | 6.52 | 6.92 | 7.19 | 12.3 | 3.46 | 4.88 | 15.4 | 6.78 | 7.22 | 3.91 |
| 70807 | 'Arrdc2' | 0.17 | 6.07 | 3.05 | 2.14 | 3.83 | 1.95 | 2.19 | 5.09 | 1.9 | 3.75 |
| 70810 | 'Krt25' | 0.03 | 0.68 | 0.08 | 0 | 5.32 | 7.63 | 0 | 1.37 | 0 | 0 |
| 70821 | '4921507P07Rik' | 2.74 | 0.03 | 0.79 | 0 | 2.1 | 1.83 | 5.27 | 0 | 0.07 | 2.6 |
| 70823 | 'Hmgxb4' | 1 | 2.07 | 2.29 | 3.24 | 5.69 | 3.26 | 1.3 | 4.33 | 4.13 | 1.44 |
| 70827 | 'Trak2' | 0.26 | 1.78 | 2.32 | 2.67 | 9.78 | 0.03 | 0.85 | 1.33 | 0.7 | 1.84 |
| 70829 | 'Ccadc93' | 2.29 | 2.69 | 2.03 | 1.74 | 0.01 | 0.06 | 1.26 | 0.67 | 1.08 | 0.67 |
| 70834 | 'Spag9' | 14.39 | 15.34 | 14.7 | 15.1 | 14.5 | 11.06 | 6.28 | 10.44 | 10.85 | 9.88 |
| 70835 | 'Prss22' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 |
| 70839 | 'P2ry12' | 8.57 | 6.89 | 0.38 | 18.9 | 9.39 | 31.74 | 0 | 6.14 | 0 | 0 |
| 70843 | 'Krt28' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.5 | 0 |
| 70853 | 'Vwa3b' | 0.38 | 2.77 | 0.72 | 1.93 | 0 | 1.14 | 1.47 | 0.06 | 0.3 | 2.17 |
| 70859 | 'Lrrc63' | 0 | 0.05 | 0 | 0 | 0.13 | 0 | 0 | 0.04 | 0.02 | 0 |
| 70866 | 'Slco6d1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.35 |
| 70873 | 'Cnbd2' | 8.31 | 5.41 | 9.76 | 5.55 | 5.62 | 14.05 | 3.16 | 4.4 | 5.11 | 12.36 |
| 70881 | 'Nt5c1b' | 0 | 0.29 | 0 | 0 | 0.27 | 0 | 0 | 0 | 0 | 0 |
| 70882 | 'Armc3' | 0 | 0 | 1.5 | 0.02 | 0 | 0 | 0 | 2.31 | 0 | 1.24 |
| 70884 | 'Ccadc81' | 2.61 | 0.14 | 0.09 | 0.13 | 0 | 0 | 0 | 0.09 | 1.73 | 0.02 |
| 70885 | 'Ints10' | 19.81 | 20.53 | 24.5 | 13.7 | 9.01 | 9.35 | 11 | 10.1 | 17.81 | 20.46 |
| 70887 | 'Dmrtc1a' | 39.7 | 61.21 | 39.4 | 54.4 | 15.2 | 21.3 | 7.62 | 32.95 | 15.87 | 15.43 |
| 70891 | 'Spdya' | 4.47 | 6.13 | 14.9 | 13.5 | 5.54 | 22.42 | 6.99 | 1.33 | 6.39 | 3.05 |
| 70892 | 'Tll7' | 11.05 | 5.99 | 8.96 | 8.96 | 20.1 | 23.26 | 11.5 | 7.13 | 13.67 | 7.8 |
| 70894 | 'Efcab3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.15 |
| 70896 | 'Speer1' | 0 | 0 | 0.04 | 0 | 0 | 0 | 0.63 | 0 | 0 | 0 |
| 70897 | 'Fam71d' | 0.02 | 0.18 | 0.12 | 0.08 | 0 | 0.04 | 0 | 0.86 | 0.04 | 0.12 |
| 70900 | '4921517D22Rik' | 0 | 0.03 | 0 | 0 | 0.02 | 0.01 | 0 | 0 | 0 | 0 |
| 70901 | '4921524L21Rik' | 0.18 | 0.26 | 0.22 | 0.41 | 0.1 | 0.2 | 0.29 | 0.09 | 0.04 | 0.12 |
| 70909 | '4921504E06Rik' | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70911 | 'Phyhip1' | 308.8 | 377.8 | 221 | 396 | 210 | 278.3 | 311 | 357.6 | 199.8 | 145.66 |
| 70918 | 'Nsun7' | 0.45 | 2.32 | 1.68 | 9.02 | 6.36 | 4.09 | 1.8 | 2.46 | 4.7 | 6.86 |
| 70920 | 'Tex47' | 0.02 | 0 | 0.05 | 0 | 0 | 0.23 | 0 | 0 | 0 | 0 |
| 70925 | 'Cdkn2aip' | 6.74 | 12.25 | 6.81 | 31 | 3.66 | 1.55 | 3.32 | 8.46 | 7.42 | 8.8 |
| 70930 | 'Nol8' | 3.56 | 5.14 | 1.28 | 2.16 | 0.87 | 4.47 | 3.16 | 3.35 | 2.09 | 4.53 |
| 70945 | 'Mmrrn1' | 0 | 0.35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70948 | 'Wdr20rt' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70951 | 'Spata1' | 0 | 0.03 | 0 | 0 | 2.5 | 0 | 0.6 | 0 | 4.23 | 1.45 |
| 70967 | 'Eva1c' | 0 | 2.65 | 5.82 | 0.7 | 0 | 0 | 0.04 | 1.31 | 0 | 0 |
| 70974 | 'Pgm2l1' | 5.09 | 7.22 | 4.83 | 4.97 | 6.5 | 15.01 | 6.46 | 4.02 | 2.94 | 3.08 |
| 70976 | 'Ccadc105' | 0 | 0.34 | 1.61 | 0 | 0.17 | 0.03 | 0.06 | 0.12 | 0 | 0.52 |
| 70981 | '4931423N10Rik' | 0 | 0.23 | 0 | 4.53 | 0 | 0 | 0.27 | 0.01 | 0 | 0.02 |
| 70984 | '4931406C07Rik' | 5.45 | 2.15 | 4.68 | 3.8 | 2.89 | 9.66 | 3.11 | 0.39 | 3.98 | 3.31 |
| 70989 | 'Jhy' | 0 | 0 | 0 | 0 | 3.45 | 0 | 0 | 0 | 0 | 0 |
| 70997 | 'Spef1' | 0 | 1.78 | 1.76 | 5.55 | 3.32 | 0 | 4.52 | 5 | 0 | 5.01 |
| 70998 | 'Phf6' | 6.52 | 7.61 | 6.68 | 4.42 | 4.86 | 2.93 | 0.93 | 6.2 | 9.15 | 4.72 |
| 70999 | 'Naa40' | 8.88 | 3.37 | 4.66 | 7.23 | 8.98 | 2.09 | 4.77 | 3.49 | 7.18 | 8.76 |
| 71003 | 'Prss41' | 0 | 3.27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 71007 | 'D7Ert443e' | 0.03 | 0 | 0 | 0 | 1.48 | 3.19 | 0 | 1.65 | 0 | 0 |
| 71020 | 'Spats1' | 4.18 | 3.97 | 0 | 8.84 | 3.24 | 1.49 | 0 | 2.65 | 0.53 | 3.97 |
| 71030 | '4933403O08Rik' | 0.39 | 0.15 | 0.21 | 1.02 | 0 | 0 | 0 | 1.2 | 0 | 1.4 |
| 71041 | 'Pcgf6' | 5.83 | 2.2 | 4.84 | 23 | 5.47 | 3.13 | 2.35 | 5.46 | 4.65 | 3.23 |
| 71046 | '4933405L10Rik' | 3.25 | 0 | 0.53 | 0 | 4.27 | 0 | 0 | 1.28 | 0.3 | 0 |
| 71059 | 'Hexim2' | 43.13 | 55.7 | 26.7 | 10.7 | 23.1 | 12.24 | 73.9 | 56.28 | 26.09 | 46.62 |
| 71063 | 'Zfp597' | 0.67 | 0.04 | 0.25 | 4.23 | 0.61 | 0.16 | 2.63 | 1.19 | 2.33 | 2.7 |
| 71069 | 'Stox2' | 3.8 | 2.37 | 3.29 | 0.9 | 2.65 | 2.36 | 1.2 | 2.5 | 1.69 | 1.64 |
| 71085 | 'Arhgap19' | 0.82 | 0.09 | 4.05 | 0 | 1.05 | 0.06 | 0.07 | 1 | 0.26 | 0 |
| 71089 | 'Sept12' | 0 | 0 | 0.65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71091 | 'Cdkl1' | 12.73 | 12.64 | 9.54 | 10.9 | 17.2 | 17.46 | 4.56 | 13.57 | 5.06 | 22.35 |
| 71093 | 'Atoh8' | 0 | 0 | 0 | 0 | 2.31 | 0 | 0 | 0 | 0 | 0 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 71096 | 'Sntg1' | 5.06 | 13.69 | 15.4 | 6.03 | 8.98 | 5.48 | 9.33 | 3.6 | 5.81 | 8.69 |
| 71099 | 'Tssk4' | 0.33 | 0 | 0.56 | 0 | 0 | 0 | 0 | 0 | 0 | 0.21 |
| 71101 | 'Uvssa' | 2.98 | 3.2 | 3.07 | 1.85 | 4.01 | 2.44 | 1.44 | 2.42 | 4.35 | 1.86 |
| 71111 | 'Gpr39' | 3.76 | 15.92 | 25.2 | 5.11 | 3.42 | 7.95 | 22.3 | 13.61 | 21.15 | 11.53 |
| 71116 | 'Stx18' | 35.9 | 38.68 | 47.4 | 37.7 | 19.4 | 14.78 | 31.3 | 20.07 | 27.75 | 40.36 |
| 71130 | 'Sh2d6' | 4.84 | 1.66 | 0 | 0 | 3.31 | 9.48 | 3.28 | 0 | 0 | 0 |
| 71131 | 'Zfp689' | 5.35 | 5.29 | 4 | 11.5 | 2.73 | 0.01 | 7.68 | 5.36 | 0.03 | 12.88 |
| 71132 | 'Cabyr' | 0.82 | 2.53 | 2.65 | 7.05 | 2.43 | 0 | 0 | 1.41 | 3.63 | 1.04 |
| 71137 | 'Rfx4' | 1.81 | 4.4 | 3.01 | 1.09 | 0.43 | 0.09 | 0.02 | 0.57 | 0.27 | 1 |
| 71145 | 'Scara5' | 0 | 3.77 | 0 | 0 | 0.13 | 2.3 | 0 | 0 | 0.05 | 0 |
| 71146 | 'Golga7b' | 23.49 | 24.6 | 71.6 | 83.6 | 34.6 | 23.11 | 20.9 | 36.13 | 71.83 | 44.9 |
| 71147 | 'Oxsm' | 1.45 | 0.87 | 0.9 | 0.02 | 0.34 | 0.01 | 0.01 | 3.42 | 4.49 | 4.19 |
| 71148 | 'Mier1' | 5.74 | 4.21 | 3.74 | 9.22 | 2.95 | 5.56 | 3.6 | 2.02 | 3.29 | 0.88 |
| 71149 | 'Tex52' | 3.21 | 0 | 0 | 0 | 2.55 | 0 | 0 | 0 | 0 | 1.37 |
| 71151 | 'Eri2' | 1.56 | 2.09 | 0.64 | 0 | 2.78 | 2.1 | 2.45 | 0.96 | 6.9 | 2.7 |
| 71156 | 'Lrrc72' | 0 | 0 | 0.08 | 0 | 0 | 0.15 | 0 | 0 | 0 | 0 |
| 71159 | '4933416I08Rik' | 0 | 0 | 1.94 | 0 | 0 | 0 | 0 | 1.01 | 0 | 0 |
| 71163 | 'Zfp626' | 1.02 | 1.79 | 0.08 | 2.25 | 2.69 | 0.04 | 1.56 | 0.31 | 0.56 | 0.28 |
| 71164 | 'Zdhhc11' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71169 | 'Nbas' | 1.67 | 0.93 | 3.95 | 0.05 | 3.37 | 2.35 | 0.4 | 2.06 | 1.21 | 3.25 |
| 71175 | 'Nipbl' | 4.37 | 3.48 | 2.31 | 4.55 | 2.91 | 1.53 | 4.89 | 1.61 | 4.6 | 2.42 |
| 71176 | 'Fbxo24' | 0 | 0 | 0 | 0 | 0.28 | 0 | 0 | 0.79 | 0 | 0.6 |
| 71177 | 'Ints13' | 15.71 | 10.96 | 14.1 | 16.1 | 4.66 | 20.48 | 13.1 | 10.72 | 12.3 | 8.2 |
| 71198 | 'Otud1' | 0.42 | 0.28 | 2.08 | 0.29 | 0 | 0 | 0 | 1.31 | 0 | 0.05 |
| 71200 | 'Dydc2' | 3.8 | 0 | 2.37 | 0.07 | 8.38 | 13.78 | 5.85 | 0 | 1.7 | 3.3 |
| 71206 | 'Katnal2' | 11.78 | 9.26 | 13.1 | 8.81 | 9.22 | 7.41 | 11.9 | 9.43 | 6.12 | 13.96 |
| 71207 | 'Nudt4' | 7.74 | 3.45 | 16.6 | 4.21 | 10.8 | 2.61 | 10.1 | 2.06 | 3.63 | 3.67 |
| 71213 | 'Cage1' | 3.27 | 1.71 | 0.39 | 5.26 | 1.09 | 2.85 | 0 | 1.68 | 2.87 | 0.22 |
| 71227 | 'Daw1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.13 | 0 | 0.67 |
| 71228 | 'Dlg5' | 2.48 | 1.1 | 2.72 | 1.14 | 2.89 | 0.65 | 0.03 | 0.16 | 5.29 | 0.6 |
| 71233 | 'Enkur' | 7.62 | 10.01 | 0 | 16.8 | 1.3 | 24.54 | 0 | 3.4 | 6.28 | 7.52 |
| 71236 | 'Rsph14' | 0 | 5.04 | 2.16 | 1.73 | 4.85 | 0 | 0 | 1.52 | 1.71 | 1.57 |
| 71238 | 'Sdhaf3' | 25.14 | 18.47 | 24.3 | 24.8 | 34 | 30.42 | 20.1 | 22.22 | 17.25 | 29.81 |
| 71240 | 'Osbsp17' | 1.66 | 7.11 | 1.67 | 0 | 4.11 | 3.8 | 3.79 | 3.23 | 2.55 | 0 |
| 71242 | 'Spata24' | 0 | 12.63 | 3.36 | 19.4 | 3.22 | 11.14 | 6.68 | 12.41 | 2.87 | 9.65 |
| 71254 | 'Naif1' | 1.03 | 1.59 | 1.09 | 0 | 2.81 | 1.16 | 3.36 | 1.21 | 2.64 | 3.21 |
| 71263 | 'Mro' | 2.61 | 3.65 | 1.31 | 6.86 | 4.11 | 6.85 | 4.36 | 3.93 | 0.84 | 0.02 |
| 71268 | 'Lrrfip2' | 16.74 | 10.37 | 18.4 | 25.8 | 5.26 | 1.9 | 11.8 | 2.81 | 12.21 | 2.78 |
| 71275 | 'Noxred1' | 0 | 0 | 0 | 0 | 0.35 | 0 | 0.11 | 0 | 0 | 0 |
| 71276 | 'Ccadc57' | 3.9 | 8.87 | 1.84 | 12.2 | 0.51 | 2.24 | 1.36 | 8.23 | 3.38 | 8.78 |
| 71279 | 'Slc29a3' | 2.45 | 0.22 | 0.07 | 0 | 1.05 | 2.54 | 0.05 | 0.13 | 0.96 | 3.36 |
| 71281 | 'Apobec4' | 0 | 0 | 0.71 | 0 | 0.13 | 0 | 0.03 | 0 | 0 | 0.03 |
| 71287 | 'Cpvl' | 0 | 0 | 1.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71302 | 'Arhgap26' | 17.78 | 14.47 | 21.7 | 22.7 | 20.7 | 7.74 | 26.8 | 21.85 | 25.99 | 18.7 |
| 71306 | 'Mfap3l' | 0.88 | 0.1 | 1.66 | 0 | 0.59 | 1.96 | 0 | 0.85 | 1.81 | 0.01 |
| 71310 | 'Tbc1d9' | 4.45 | 6.01 | 0.97 | 4.97 | 3.2 | 3.79 | 5.02 | 3.11 | 5.76 | 4.51 |
| 71313 | 'Fsip1' | 2.52 | 0 | 0.03 | 0.1 | 0 | 3.86 | 0 | 2.45 | 2.95 | 1.35 |
| 71323 | 'Rassf8' | 1.67 | 2.21 | 3.1 | 0.91 | 3.37 | 2.58 | 10.2 | 1.74 | 3.22 | 2.07 |
| 71330 | 'Rcbtb1' | 10.62 | 7.44 | 5.35 | 12.8 | 5.74 | 5.61 | 0 | 6.3 | 13.29 | 6.93 |
| 71336 | 'Rbks' | 0.05 | 0.05 | 4.25 | 19.6 | 9.18 | 7.59 | 1.21 | 2.79 | 0.72 | 0 |
| 71338 | 'Tprg' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.03 | 0 | 0 |
| 71340 | 'Riok1' | 11.34 | 7.08 | 13.5 | 13 | 7.51 | 23.7 | 4.72 | 6.26 | 9.92 | 5.07 |
| 71354 | 'Wdr31' | 40.5 | 28.44 | 40 | 48.2 | 57.4 | 40 | 27.8 | 36.63 | 48.93 | 42.36 |
| 71355 | 'Col24a1' | 0 | 0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71361 | 'Aifm2' | 13.64 | 9.72 | 4.61 | 0.04 | 7.39 | 7.33 | 11.5 | 8.06 | 12.62 | 7.87 |
| 71365 | 'Pdss2' | 12.64 | 12.23 | 6.78 | 30.7 | 20.8 | 19.22 | 5.7 | 2.8 | 7.29 | 5.72 |
| 71367 | 'Chst9' | 0 | 0 | 3.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71371 | 'Arid5b' | 9.42 | 4.65 | 4.05 | 8.69 | 8.58 | 4.02 | 5.69 | 3.36 | 5.16 | 1.2 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 71373 | 'Prr16' | 3.64 | 0 | 1.49 | 0 | 0 | 5.43 | 0 | 0 | 0 | 1.19 |
| 71375 | 'Foxn3' | 3.45 | 5.32 | 8.51 | 3.26 | 2.83 | 6.01 | 8.72 | 1.84 | 4.4 | 1.59 |
| 71382 | 'Pex1' | 7.62 | 6.6 | 4.71 | 4.02 | 6.65 | 8.56 | 2.78 | 5.36 | 14.3 | 6.12 |
| 71386 | 'Krtap28-13' | 0 | 0 | 2.76 | 0 | 0 | 0 | 0 | 0 | 0 | 1.79 |
| 71389 | 'Chd6' | 4.99 | 4.66 | 5.48 | 4.97 | 5.44 | 5.18 | 5.63 | 6.87 | 3.15 | 5.07 |
| 71393 | 'Kctd6' | 4.27 | 0.89 | 2.12 | 2.67 | 0 | 0.03 | 6.75 | 4.59 | 3.62 | 7.92 |
| 71395 | '5430419D17Rik' | 0 | 0.34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71398 | '5430427O19Rik' | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0.01 | 0.01 |
| 71405 | 'Fam83c' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71409 | 'Fmnl2' | 0.52 | 1.5 | 1.72 | 0.33 | 0.67 | 1.82 | 0 | 1.7 | 0.28 | 2 |
| 71412 | 'Dhrs2' | 0.04 | 0.26 | 0 | 0 | 10.7 | 0 | 0 | 0 | 0 | 0 |
| 71435 | 'Arhgap21' | 3.93 | 3.37 | 4.24 | 6.78 | 2.58 | 3.4 | 5.23 | 4.09 | 4.94 | 5.44 |
| 71436 | 'Flrt3' | 23.28 | 9.33 | 23.7 | 12.8 | 7.83 | 23.39 | 32.1 | 23.72 | 12.1 | 24.34 |
| 71446 | 'Wrb' | 147.7 | 184.6 | 171 | 72.8 | 160 | 174.7 | 176 | 201 | 240 | 214.21 |
| 71448 | 'Tmem80' | 36.3 | 35.81 | 14.7 | 11.6 | 21 | 42.57 | 21.7 | 20.5 | 10.76 | 31.72 |
| 71449 | 'Mettl13' | 6.54 | 5.02 | 0.02 | 11 | 3.87 | 0.37 | 7.81 | 4.33 | 3.53 | 2.33 |
| 71452 | 'Ankrd40' | 3.15 | 6.96 | 4.62 | 3.76 | 11.8 | 4.22 | 4.51 | 11.99 | 4.9 | 1.49 |
| 71458 | 'Bcor' | 0.59 | 1.59 | 0.03 | 0.06 | 0.13 | 0.01 | 0.01 | 0.71 | 0.05 | 0.57 |
| 71461 | 'Ptk7' | 0.97 | 0.66 | 3.43 | 1.36 | 3.49 | 1.2 | 2.2 | 5.22 | 4.24 | 3.45 |
| 71472 | 'Usp19' | 10.98 | 15.33 | 19.4 | 14 | 12.3 | 5.43 | 14 | 14.66 | 14.08 | 9.77 |
| 71474 | 'Ppp6r2' | 21.2 | 22.08 | 28.5 | 38.3 | 30.9 | 9.71 | 17.8 | 16.58 | 40.3 | 29.89 |
| 71481 | 'Alpk1' | 0 | 0 | 0 | 0 | 0.07 | 0 | 0.92 | 0 | 0 | 0 |
| 71492 | 'Bbs7' | 7.52 | 22.02 | 12.9 | 43.3 | 16.8 | 8.83 | 9.58 | 21.87 | 14.21 | 19.75 |
| 71508 | 'Zfp935' | 3.43 | 7.35 | 4.87 | 15.3 | 7.02 | 2.08 | 4.21 | 1.95 | 13.35 | 3.3 |
| 71514 | 'Sfpq' | 11.71 | 10.83 | 6.99 | 20.3 | 15.7 | 7.11 | 7.8 | 6.64 | 9.16 | 10.36 |
| 71517 | 'Vsp35l' | 32.73 | 31.05 | 31.4 | 44.7 | 42.9 | 28.99 | 28.4 | 43.46 | 26.58 | 41.98 |
| 71519 | 'Cyp2u1' | 3.78 | 2.88 | 6.26 | 0 | 6.01 | 8.09 | 2.25 | 3.12 | 0.03 | 4.56 |
| 71520 | 'Grap' | 0 | 3.16 | 0 | 0 | 4.07 | 0 | 0 | 0 | 0 | 3.8 |
| 71521 | 'Pds5a' | 0.64 | 0.21 | 1.34 | 6.79 | 2.01 | 6.06 | 1.86 | 1.96 | 0.99 | 0.76 |
| 71529 | 'Kazn' | 9.53 | 3.54 | 4.76 | 2.55 | 10.3 | 6 | 2.02 | 7.1 | 10.23 | 3.7 |
| 71532 | 'Fam217b' | 8.21 | 8.49 | 4.17 | 0 | 10.4 | 1.72 | 13 | 6.23 | 7.76 | 1.14 |
| 71538 | 'Fbxo9' | 107.9 | 104.7 | 119 | 65.9 | 86.5 | 88.3 | 93.8 | 60.11 | 84.69 | 27.75 |
| 71544 | 'Arhgap42' | 0.18 | 0.43 | 1.81 | 0 | 0.13 | 0 | 0.45 | 2.72 | 0 | 0 |
| 71562 | 'Afmid' | 2.24 | 5.21 | 8.47 | 11 | 7.17 | 9.63 | 12.3 | 0.74 | 19.55 | 4.35 |
| 71564 | 'Izumo4' | 92.76 | 101.8 | 114 | 107 | 130 | 168.8 | 137 | 109.3 | 155 | 193.32 |
| 71566 | 'Clmp' | 12.66 | 11.65 | 3.34 | 9.01 | 2.88 | 1.83 | 0.02 | 2.74 | 5.1 | 7.09 |
| 71567 | 'Mcm9' | 1.36 | 0.17 | 0 | 0.63 | 0.08 | 0 | 0 | 0.04 | 0.04 | 0.09 |
| 71583 | '9130008F23Rik' | 0 | 0 | 0.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71584 | 'Gdprd2' | 29.84 | 87.16 | 14 | 7.42 | 60.3 | 32.3 | 40.6 | 31.87 | 47.55 | 65.27 |
| 71586 | 'Ifih1' | 0 | 2.05 | 1.66 | 0.28 | 0.03 | 0 | 0 | 0.61 | 2.29 | 3.28 |
| 71591 | 'Zfp251' | 21.69 | 3.87 | 8.13 | 5.58 | 9.07 | 3.55 | 9.19 | 7.47 | 13.23 | 15.58 |
| 71592 | 'Pogk' | 1.91 | 1.16 | 4.28 | 0 | 2.36 | 2.05 | 0.27 | 0.88 | 1.41 | 2.96 |
| 71599 | 'Senp8' | 6.46 | 11.21 | 6.09 | 4.57 | 1.76 | 5.05 | 5.23 | 5.56 | 7.27 | 3.38 |
| 71602 | 'Myo1e' | 1.03 | 0.14 | 0.33 | 0.22 | 0.17 | 0.3 | 0.09 | 0.06 | 0.17 | 0.08 |
| 71607 | 'Snx20' | 0.84 | 0.59 | 0 | 0 | 2.47 | 0.55 | 0.5 | 0.31 | 2.52 | 0.51 |
| 71609 | 'Tradd' | 0 | 2.29 | 2.22 | 0 | 11.5 | 0.54 | 5.33 | 6.69 | 2.46 | 3.26 |
| 71617 | 'Armh3' | 4.88 | 9.98 | 9.41 | 7.11 | 14.2 | 6.01 | 7.54 | 6.29 | 11.31 | 10.23 |
| 71640 | 'Zfp949' | 7.87 | 2.14 | 17.9 | 0.24 | 12.8 | 8.03 | 6.69 | 3.52 | 4.69 | 10.31 |
| 71643 | 'Zgrf1' | 0 | 0.86 | 0.01 | 0 | 0 | 0.09 | 1 | 0 | 0.49 | 0.34 |
| 71648 | 'Optn' | 15.31 | 15.83 | 12.6 | 6.82 | 25.8 | 35.36 | 17.9 | 22.44 | 4.61 | 30.86 |
| 71653 | 'Shtn1' | 4.47 | 2.8 | 8.52 | 1.24 | 9.75 | 3.6 | 1.34 | 7.08 | 4.62 | 4.83 |
| 71660 | 'Rarres2' | 1.4 | 7.23 | 7.93 | 0.09 | 18 | 0 | 0 | 30.14 | 4.05 | 6.78 |
| 71665 | 'Fuca1' | 36.79 | 59.21 | 59.6 | 51.6 | 35.9 | 37.36 | 58.6 | 31.34 | 76.11 | 67.64 |
| 71667 | 'Tmem248' | 9.23 | 9.3 | 13.1 | 26.8 | 13.3 | 2.15 | 15.6 | 4.38 | 11.13 | 8.58 |
| 71670 | 'Acy3' | 0 | 3.2 | 0 | 0 | 0.05 | 0 | 8.02 | 2.78 | 5.19 | 0 |
| 71673 | 'Rnf215' | 4.69 | 10.64 | 6.92 | 0.19 | 10 | 7.16 | 11.6 | 10.68 | 20.45 | 6.3 |
| 71675 | '0610010F05Rik' | 17.98 | 6.86 | 7.24 | 20.3 | 10.3 | 2.91 | 9.52 | 2.67 | 13.76 | 7.47 |
| 71678 | 'Brox' | 27.42 | 20.8 | 14.1 | 29.5 | 31.3 | 4.38 | 18.9 | 21.94 | 26.63 | 26.29 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 71679 | 'Atp5h' | 885 | 705.9 | 914 | 801 | 938 | 999.5 | 836 | 816.5 | 781.6 | 910.3 |
| 71682 | 'Wdr27' | 0.09 | 0.05 | 0 | 0 | 1.93 | 0 | 0.04 | 0 | 0 | 0.83 |
| 71683 | 'Gypc' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 |
| 71684 | 'Rbm43' | 8.06 | 17.78 | 20.5 | 16.5 | 17.9 | 18.19 | 11.4 | 23.83 | 25.15 | 7.19 |
| 71685 | 'Galnt14' | 42.96 | 19.49 | 5.62 | 46.7 | 0 | 1.45 | 0.03 | 63.78 | 13.14 | 1.74 |
| 71687 | 'Tmem25' | 49.07 | 50.92 | 46.4 | 10.1 | 66.4 | 56.48 | 63.6 | 80.17 | 68.44 | 60.8 |
| 71690 | 'Esm1' | 0.4 | 0 | 0.09 | 5.53 | 0 | 0 | 0 | 0.19 | 0 | 0.81 |
| 71691 | 'Pnmal1' | 194.4 | 207.3 | 156 | 153 | 241 | 204 | 142 | 162.1 | 190.8 | 257.97 |
| 71693 | 'Colec11' | 0 | 2.67 | 0 | 0 | 1.07 | 0 | 0 | 0 | 0 | 0 |
| 71699 | 'Slc41a3' | 6.25 | 18.03 | 22.5 | 9.04 | 7.2 | 0.04 | 0.02 | 26.32 | 27.79 | 30.1 |
| 71701 | 'Pnpt1' | 9.7 | 12.65 | 13.1 | 37.3 | 7.99 | 4.24 | 16.8 | 18.82 | 12.62 | 26.26 |
| 71702 | 'Cdc5l' | 23.48 | 37.06 | 28.6 | 43.4 | 24.5 | 38.45 | 44.3 | 31.15 | 26.44 | 36.65 |
| 71703 | 'Armcx3' | 40.95 | 25.4 | 32 | 16 | 14.6 | 6.81 | 42.7 | 27.33 | 27.03 | 33.08 |
| 71704 | 'Arhgef3' | 5.07 | 7.27 | 2.78 | 4.76 | 8.33 | 1.01 | 3.36 | 2.24 | 1.89 | 11.77 |
| 71706 | 'Slc46a3' | 1.32 | 4.47 | 0.34 | 9.49 | 11.7 | 4.25 | 0 | 3.42 | 11.67 | 4.4 |
| 71707 | 'Ubiad1' | 0.85 | 8.59 | 0 | 2.77 | 1.74 | 14.46 | 0 | 2.69 | 7.84 | 0.01 |
| 71709 | 'Syde1' | 0 | 0.6 | 0 | 0 | 0.05 | 0 | 0 | 0.26 | 0 | 0.03 |
| 71710 | 'Lrrcc1' | 1.89 | 6.59 | 9.47 | 1.23 | 4.32 | 3.91 | 3.23 | 3.23 | 7.69 | 4.23 |
| 71711 | 'Mus81' | 13.09 | 28.43 | 14.7 | 40.3 | 27.1 | 16.41 | 11.7 | 14.87 | 28.7 | 18.74 |
| 71712 | 'Dram1' | 0.07 | 1.88 | 1.62 | 0 | 4.63 | 0 | 0 | 0.54 | 0 | 1.62 |
| 71713 | 'Cdc40' | 2.84 | 3.7 | 8.56 | 3.88 | 8.19 | 8.63 | 11 | 6.22 | 3.95 | 4.18 |
| 71715 | 'Dhx35' | 7.42 | 6.07 | 5.98 | 17.7 | 6.41 | 12.31 | 2.6 | 2.16 | 6.65 | 9.91 |
| 71718 | 'Telo2' | 4.97 | 14.34 | 5.94 | 21.8 | 8.71 | 6.91 | 7.78 | 6.76 | 9.69 | 13.37 |
| 71720 | 'Osbp13' | 0.18 | 0 | 0.4 | 0 | 0 | 3.17 | 0 | 0.58 | 0.08 | 2.71 |
| 71721 | 'Fam13c' | 12.29 | 8.07 | 5.06 | 11 | 6.46 | 2.57 | 18.3 | 9.66 | 9.87 | 4.93 |
| 71722 | 'Cic' | 3.27 | 2.2 | 2.26 | 1.46 | 4.91 | 2.66 | 2.93 | 0.22 | 4.83 | 1.93 |
| 71723 | 'Dhx34' | 0 | 7.05 | 0 | 0 | 3.84 | 2.01 | 0 | 0.43 | 7.47 | 5.64 |
| 71724 | 'Aox3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.66 |
| 71726 | 'Smug1' | 0.21 | 4.69 | 2.41 | 0 | 4.96 | 3.66 | 4.72 | 1.11 | 0 | 3.66 |
| 71728 | 'Stk11ip' | 5.11 | 6.86 | 4.65 | 0.1 | 4.46 | 2.08 | 0 | 2.41 | 3.28 | 6.59 |
| 71729 | 'Rgs12' | 1.24 | 4.69 | 2.3 | 2.96 | 1.89 | 2.23 | 1.06 | 5.05 | 7.26 | 3.77 |
| 71732 | 'Vps11' | 24.92 | 50.49 | 49.4 | 32.5 | 36.2 | 20.58 | 35.6 | 42 | 46.28 | 54.73 |
| 71733 | 'Susd2' | 19.85 | 35.77 | 28 | 7.62 | 12.1 | 23.09 | 19.9 | 46.39 | 23.89 | 14.53 |
| 71735 | 'Lrwd1' | 5.07 | 2.75 | 19.3 | 0 | 1.44 | 6.38 | 16.4 | 7.75 | 0.59 | 7.34 |
| 71738 | 'Mamdc2' | 0 | 0 | 0.6 | 0.34 | 0 | 0 | 0 | 2.05 | 0 | 0 |
| 71740 | 'Nectin4' | 0 | 0.69 | 1.73 | 0 | 0 | 0 | 0 | 0.18 | 0.58 | 0 |
| 71742 | 'Ulk3' | 8.74 | 7.9 | 8.68 | 0.09 | 2.55 | 9.63 | 3.91 | 4.6 | 6.8 | 6.21 |
| 71743 | 'Coasy' | 46 | 40.11 | 30.4 | 25.8 | 48.8 | 55.17 | 30.9 | 37.16 | 30.43 | 22.9 |
| 71745 | 'Cul2' | 55 | 53.17 | 44.4 | 23.5 | 48.2 | 28.98 | 55.9 | 56.64 | 68.6 | 35.49 |
| 71746 | 'Rgl3' | 0 | 2.81 | 0.06 | 0.02 | 0 | 0.02 | 1.4 | 0 | 0 | 0 |
| 71750 | 'R3hdm2' | 4.03 | 4.2 | 5.55 | 11.1 | 15.6 | 8.93 | 7.44 | 7.15 | 10.17 | 17.3 |
| 71751 | 'Map3k13' | 2.07 | 0.58 | 2.04 | 0.71 | 0.91 | 1.53 | 3.1 | 0.58 | 0.53 | 2.53 |
| 71752 | 'Gtf3c2' | 12.78 | 12.78 | 14.3 | 15.4 | 10.4 | 4.18 | 4.79 | 5.79 | 12.12 | 7.43 |
| 71753 | 'Tmprss6' | 0 | 0.15 | 0 | 0 | 9.54 | 0 | 3.12 | 1.07 | 0 | 2.43 |
| 71754 | 'Cyp2d40' | 0.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71755 | 'Dhdh' | 0 | 3.31 | 0 | 7.66 | 6.03 | 2.19 | 0 | 0 | 4.08 | 10.53 |
| 71760 | 'Etnppl' | 11.58 | 7.52 | 5.84 | 5.23 | 1.64 | 15.88 | 0 | 6.81 | 6.59 | 3.93 |
| 71761 | 'Amdhd1' | 0 | 1.03 | 0 | 0 | 0 | 1.06 | 0 | 0 | 0 | 3.42 |
| 71764 | 'C2cd2l' | 14.03 | 12.84 | 17.8 | 18.8 | 20.1 | 11.48 | 13.7 | 8.55 | 2.68 | 15.02 |
| 71765 | 'Klhdc3' | 84.88 | 68.18 | 115 | 51.1 | 62.6 | 102.7 | 128 | 91.43 | 94.76 | 54.78 |
| 71766 | 'Raver1' | 7.08 | 5.72 | 8.36 | 6 | 8.35 | 4.49 | 6.11 | 6.11 | 8 | 11.82 |
| 71767 | 'Tysnd1' | 4.15 | 2.58 | 13.8 | 0.03 | 0.02 | 3.62 | 12.4 | 1.77 | 2.77 | 0.26 |
| 71768 | 'Vwce' | 1.89 | 0 | 0 | 0 | 2.24 | 0.05 | 0 | 0 | 0 | 0.84 |
| 71769 | 'Bbs10' | 4.68 | 6.24 | 0.02 | 19.3 | 0.05 | 0.03 | 0 | 1.46 | 6.13 | 0 |
| 71770 | 'Ap2b1' | 21.33 | 11.62 | 43.6 | 7.92 | 29.4 | 7.99 | 18.2 | 16.88 | 49.75 | 32.6 |
| 71772 | 'Plbd2' | 23.15 | 21.4 | 56.2 | 48.3 | 13.5 | 17.01 | 30.7 | 13.71 | 33.33 | 13.64 |
| 71774 | 'Shroom1' | 0 | 0 | 2.51 | 4.69 | 2.31 | 0.41 | 0 | 0.13 | 0 | 0 |
| 71775 | '1300017J02Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.12 | 0 | 0 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 71776 | 'Tha1' | 11.33 | 9.76 | 8.02 | 10.9 | 2.45 | 5.45 | 0.03 | 2.73 | 14.64 | 3.13 |
| 71777 | 'Ing3' | 6.63 | 6.22 | 9.69 | 14.7 | 14.3 | 5.97 | 4.06 | 7.21 | 0.11 | 9.46 |
| 71778 | 'Klhl5' | 8.15 | 5 | 5.36 | 13.6 | 2.72 | 4.46 | 11.3 | 0.65 | 0.13 | 0.14 |
| 71779 | 'March8' | 2.8 | 2.8 | 10.3 | 1.58 | 3.5 | 4.02 | 7.93 | 4.11 | 5.61 | 3.46 |
| 71780 | 'Isyna1' | 84.83 | 108 | 49.1 | 99.2 | 86.5 | 110.9 | 103 | 99.34 | 101.1 | 98.5 |
| 71781 | 'Slc16a14' | 7.31 | 0 | 5.43 | 0 | 4.63 | 7.19 | 0.02 | 1.71 | 4.37 | 10.12 |
| 71782 | 'Ankle2' | 5.44 | 3.31 | 4.7 | 2.39 | 2.56 | 1.84 | 0.07 | 3.47 | 3.76 | 1.53 |
| 71785 | 'Pdgfd' | 0 | 1.19 | 0 | 0 | 6.15 | 0.19 | 4.78 | 1.87 | 0 | 0 |
| 71787 | 'Trnau1ap' | 55.28 | 38.15 | 40 | 66.6 | 37 | 38.51 | 30.5 | 35.07 | 40.72 | 29.96 |
| 71790 | 'Anxa9' | 1.74 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 | 0.47 | 0 |
| 71791 | 'Cpa4' | 2.42 | 0 | 6.98 | 0 | 0 | 4.83 | 0 | 0.02 | 4.5 | 0 |
| 71793 | 'Ints12' | 5.32 | 3.87 | 7.51 | 8.58 | 1.41 | 8.54 | 5.65 | 8.03 | 8.31 | 3.96 |
| 71795 | 'Pitpnc1' | 10.23 | 13.18 | 11.6 | 13.7 | 8.68 | 5.61 | 9.68 | 12 | 9.61 | 5.44 |
| 71799 | 'Ptcd1' | 17.72 | 14.39 | 18 | 3.53 | 15.4 | 5.67 | 13.3 | 9.96 | 18.86 | 14.5 |
| 71801 | 'Plekhf2' | 3.45 | 0 | 0.41 | 0.17 | 0 | 1.56 | 0 | 0 | 0 | 0 |
| 71803 | 'Slc25a18' | 29.52 | 20.77 | 4.57 | 23.8 | 1.51 | 39.35 | 16.5 | 23.75 | 11.87 | 4.82 |
| 71804 | 'Mfr2' | 0.27 | 0.19 | 0.54 | 5.98 | 0.02 | 0.06 | 0.52 | 0.47 | 0.22 | 0.29 |
| 71805 | 'Nup93' | 8.83 | 7.8 | 14.7 | 16.2 | 8.69 | 7.01 | 25.6 | 10.43 | 6.35 | 5.66 |
| 71807 | 'Tars2' | 34.78 | 28.24 | 17 | 24.5 | 17.8 | 27.99 | 23.2 | 21.84 | 10.85 | 24.34 |
| 71810 | 'Ranbp3' | 85.13 | 68.85 | 70.7 | 68.7 | 68.3 | 92.2 | 130 | 68.77 | 94.31 | 79.54 |
| 71816 | 'Rnf180' | 10.49 | 10.55 | 15.1 | 12.2 | 6.43 | 0.07 | 9.65 | 14.44 | 8.16 | 13.67 |
| 71817 | 'Tmem50a' | 263.4 | 262.3 | 164 | 306 | 206 | 285.5 | 133 | 267.1 | 241.6 | 298.97 |
| 71819 | 'Kif23' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 71820 | 'Wdr34' | 73.53 | 67.58 | 46.1 | 71.8 | 50 | 62.91 | 55.7 | 53.93 | 27.69 | 95.5 |
| 71827 | 'Lrrc34' | 0.12 | 0 | 0.63 | 0 | 2.34 | 0 | 0.11 | 1.6 | 0 | 0 |
| 71828 | 'Gtf2a1l' | 0 | 1.31 | 0 | 0 | 0.64 | 0 | 0 | 0 | 0 | 0 |
| 71829 | 'Ddi1' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71833 | 'Dcaf7' | 29.57 | 30.02 | 55.2 | 23.5 | 21.5 | 21.59 | 32.8 | 28.47 | 48.63 | 42.17 |
| 71834 | 'Zbtb43' | 2.21 | 1.5 | 1.9 | 4.02 | 0.3 | 6.28 | 1.88 | 2.48 | 2.54 | 3.37 |
| 71835 | 'Lancl2' | 21.96 | 13.69 | 17.2 | 21.1 | 8.88 | 9.65 | 22.6 | 25.41 | 18.12 | 14.03 |
| 71836 | 'Shcbp1l' | 1.17 | 0.31 | 3.06 | 4.51 | 1.35 | 3.57 | 0.47 | 0 | 2.74 | 0 |
| 71837 | '1700003E16Rik' | 9.31 | 21.76 | 9.51 | 11.8 | 29.6 | 23.73 | 8.94 | 8.71 | 16.91 | 23.19 |
| 71838 | 'Phf7' | 0 | 4.26 | 2.84 | 8.03 | 10.6 | 3.46 | 5.22 | 4.04 | 0.88 | 7.44 |
| 71839 | 'Osgin1' | 0 | 0 | 0 | 0 | 0 | 0 | 2.25 | 0 | 0 | 0 |
| 71840 | 'Tekt4' | 1.49 | 5.04 | 0.1 | 0 | 0 | 1.12 | 0 | 1.38 | 0 | 0 |
| 71843 | 'R3hcc1' | 12.24 | 16.43 | 26.4 | 5.57 | 28.9 | 17.91 | 14.4 | 15.48 | 13.35 | 26.42 |
| 71844 | 'Nup11' | 13.74 | 11.47 | 5.08 | 5.02 | 11.4 | 2.71 | 15.4 | 9.29 | 4.39 | 14.96 |
| 71846 | 'Syce2' | 5.62 | 6.76 | 8.57 | 17.5 | 0.34 | 9.63 | 8.94 | 3.64 | 26.59 | 9.31 |
| 71853 | 'Pdia6' | 263 | 323.3 | 129 | 185 | 176 | 310.7 | 108 | 206.5 | 257.2 | 290.13 |
| 71856 | 'Wfdc3' | 0 | 0 | 0 | 0 | 0.08 | 4.02 | 0 | 0.89 | 0 | 0 |
| 71860 | 'Cfap52' | 0 | 0 | 0 | 0.19 | 0 | 3.74 | 0 | 0 | 0.09 | 4.58 |
| 71862 | 'Gpr160' | 0 | 0 | 0 | 0.03 | 0 | 9.06 | 0 | 0 | 0 | 0 |
| 71865 | 'Fbxo30' | 1.12 | 0.99 | 1.08 | 5.27 | 0.82 | 0 | 0.04 | 0 | 0.01 | 0.76 |
| 71868 | 'Thegl' | 0 | 0 | 1.63 | 3.54 | 0 | 0 | 0.03 | 0.03 | 0.15 | 1.62 |
| 71870 | 'Cfap45' | 12.32 | 5.38 | 3.32 | 0 | 0.03 | 0.38 | 19.3 | 1.61 | 1.4 | 4.65 |
| 71872 | 'Aox4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.77 | 0 | 0 |
| 71874 | '2310007B03Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.73 |
| 71876 | 'Cenpu' | 2.71 | 0 | 0 | 0 | 0.89 | 0 | 4.64 | 5.24 | 0.04 | 1.23 |
| 71877 | 'Efhc1' | 0.02 | 1.91 | 0 | 0.42 | 0 | 2.81 | 0 | 7.38 | 0.02 | 0 |
| 71878 | 'Fam83d' | 0 | 1.59 | 0 | 0.22 | 0.03 | 0 | 0 | 1.13 | 0 | 0 |
| 71881 | 'Apmap' | 78 | 94.62 | 97.9 | 95.1 | 69.8 | 104.2 | 105 | 114.7 | 74.11 | 88.36 |
| 71883 | 'Coq2' | 15.69 | 6.87 | 6.08 | 42.8 | 22.7 | 4.33 | 18.6 | 14.32 | 12.68 | 11.16 |
| 71885 | 'Faap100' | 0.56 | 10.72 | 1.81 | 8.09 | 3.15 | 3.98 | 12.8 | 7.42 | 6.12 | 0.21 |
| 71886 | '2310002L09Rik' | 0 | 0 | 0.05 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 71887 | 'Ppm1j' | 0 | 0.37 | 0 | 17.4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71889 | 'Epn3' | 0 | 0.04 | 3.97 | 0 | 0.46 | 0.2 | 0.03 | 0 | 0 | 3.14 |
| 71890 | 'Mad2l2' | 49.12 | 46.76 | 17.8 | 66.3 | 6.34 | 23.87 | 39.8 | 24.84 | 29.49 | 29.4 |
| 71891 | 'Cdadcl1' | 76.1 | 49.23 | 33.9 | 76.6 | 44 | 72.5 | 30.8 | 42.55 | 64.98 | 72.35 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 71893 | 'Noxo1' | 0 | 1.81 | 0 | 0 | 5.56 | 0.09 | 0 | 0.71 | 1.05 | 0.03 |
| 71897 | 'Lypd6b' | 5.4 | 0 | 0 | 0 | 12.2 | 14.61 | 0.34 | 6.31 | 12.72 | 8.48 |
| 71900 | 'Tmem106b' | 9.85 | 5.58 | 8.92 | 13.5 | 10.5 | 3.99 | 11.7 | 9.35 | 5.78 | 7.35 |
| 71901 | 'Fam219a' | 12.6 | 7.87 | 12 | 2.23 | 8.01 | 11.25 | 14.1 | 6.55 | 11.62 | 7.03 |
| 71902 | 'Cand1' | 11.49 | 7.5 | 14.6 | 1.31 | 5.87 | 3.71 | 19.8 | 3.98 | 12.55 | 10.8 |
| 71903 | 'Ces2f' | 0.29 | 0.29 | 0.29 | 0.21 | 0.25 | 0.25 | 0.32 | 0.1 | 0.37 | 0.3 |
| 71904 | 'Paqr7' | 39.62 | 23.98 | 22.2 | 18.9 | 21.3 | 35.72 | 25.4 | 25.73 | 23.78 | 33.11 |
| 71907 | 'Serpina9' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.53 | 0 | 0 |
| 71908 | 'Cldn23' | 2.89 | 2.95 | 0 | 3.37 | 0 | 0 | 0 | 0 | 0 | 4.9 |
| 71909 | 'Haus5' | 5.27 | 2.97 | 3.83 | 14.5 | 0.04 | 7.78 | 0 | 2.86 | 7.41 | 7.48 |
| 71910 | 'Plpp5' | 25.76 | 19.35 | 16.2 | 0.94 | 19.9 | 19.75 | 12.2 | 21.76 | 16.68 | 18.51 |
| 71911 | 'Bdh1' | 17.04 | 18.05 | 32 | 26.2 | 27.3 | 18.69 | 19.5 | 31.16 | 16.39 | 18.91 |
| 71912 | 'Jsrp1' | 2.04 | 0.4 | 2.22 | 0 | 3.99 | 0 | 3.23 | 2.55 | 0 | 0 |
| 71913 | 'Tmem79' | 0.9 | 0 | 3.13 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 |
| 71914 | 'Antxr2' | 0.01 | 0 | 0.01 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 |
| 71916 | 'Dus4l' | 0 | 0 | 1.79 | 0 | 0 | 5.7 | 0.03 | 0.28 | 4.05 | 4.83 |
| 71918 | 'Zcchc24' | 2.17 | 1.92 | 2.14 | 5.9 | 3.2 | 0.28 | 12.9 | 1.32 | 0.32 | 1.21 |
| 71919 | 'Rpap3' | 23.41 | 20.46 | 28.9 | 13.8 | 14.5 | 24.01 | 10.9 | 31.72 | 31.92 | 9.99 |
| 71923 | 'Borcs6' | 9.59 | 9.97 | 5.63 | 5.12 | 4.64 | 3.39 | 4.22 | 1.14 | 3.97 | 5.61 |
| 71924 | 'Tube1' | 5.31 | 1.45 | 3.57 | 0.54 | 0.29 | 1.63 | 0.03 | 2.63 | 1.94 | 2.43 |
| 71927 | 'Itfg1' | 142.7 | 161.2 | 174 | 167 | 87.3 | 95.18 | 151 | 118.5 | 176.2 | 105.51 |
| 71929 | 'Tmem123' | 0.05 | 1.36 | 0 | 0 | 1.21 | 0.02 | 0 | 0 | 0 | 0 |
| 71932 | 'Ephx3' | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0 |
| 71934 | 'Car13' | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71939 | 'Apol6' | 0.04 | 0.02 | 2.32 | 0.08 | 2.7 | 0.09 | 0.63 | 1.86 | 0.02 | 0.23 |
| 71941 | 'Cars2' | 7.69 | 22.74 | 17.5 | 10.2 | 12.2 | 8.75 | 13.8 | 9.88 | 6.66 | 0.23 |
| 71943 | 'Tom11l1' | 0.24 | 7.68 | 2.21 | 0.2 | 0.14 | 0.85 | 8.62 | 4.89 | 1.5 | 2.77 |
| 71946 | 'Endod1' | 26.3 | 17.53 | 33.4 | 14.2 | 31.2 | 18.8 | 28 | 20.81 | 44.29 | 19.95 |
| 71947 | 'Tmem94' | 8.94 | 3.69 | 4.06 | 0 | 5.1 | 0.72 | 9.6 | 1.82 | 4.9 | 5.46 |
| 71949 | 'Cers5' | 30.42 | 27.17 | 33.5 | 74.6 | 36.1 | 9.32 | 38.4 | 29.59 | 41.58 | 28.83 |
| 71950 | 'Nanog' | 0.49 | 0.28 | 0.65 | 0.56 | 0.65 | 0.41 | 0.12 | 0.1 | 0.95 | 0.32 |
| 71951 | 'Gpc2' | 2.72 | 1.44 | 0.89 | 0 | 0.19 | 0 | 0 | 0 | 0 | 0 |
| 71952 | 'Riox1' | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0.9 | 2.57 | 0 |
| 71954 | 'Suds3' | 2.58 | 4.95 | 2.87 | 12.7 | 7.01 | 10.28 | 4.47 | 2.06 | 4.78 | 2 |
| 71955 | 'Ist1' | 61.34 | 60.33 | 37.9 | 51.8 | 44.3 | 62.67 | 59.6 | 63.16 | 51.02 | 38.68 |
| 71956 | 'Rnf135' | 3.9 | 6.46 | 2.53 | 0 | 2.95 | 5.56 | 0 | 1.91 | 2.57 | 6.06 |
| 71957 | 'Ints11' | 28.33 | 32.36 | 30.8 | 18.2 | 49.6 | 57.65 | 20.9 | 53.26 | 29.06 | 25.5 |
| 71960 | 'Myh14' | 2.3 | 0.29 | 1.06 | 0.01 | 2.3 | 0 | 0 | 0.93 | 0 | 0.02 |
| 71962 | 'Castor1' | 1.7 | 0 | 0 | 2.5 | 0 | 0 | 11.2 | 2.96 | 0 | 1.9 |
| 71963 | 'Cdca4' | 0 | 4.24 | 0 | 17.8 | 7.3 | 4.2 | 0.02 | 2.79 | 8.79 | 7.82 |
| 71966 | 'Nkiras2' | 9.23 | 9.61 | 11.7 | 0.02 | 3.18 | 7.58 | 20.1 | 4.83 | 3.98 | 3.69 |
| 71967 | 'Mageb16' | 0 | 0 | 0 | 0 | 1.12 | 0 | 0 | 0.05 | 0.5 | 0 |
| 71968 | 'Wdr73' | 13.54 | 34.57 | 19.8 | 8.71 | 28.9 | 7.07 | 15.4 | 20.85 | 32.83 | 14.4 |
| 71970 | 'Zbed5' | 9.57 | 7.24 | 4.24 | 8.01 | 1.63 | 5.52 | 14.1 | 8.95 | 1.49 | 7.94 |
| 71971 | 'Zswim1' | 40.68 | 19.36 | 39.3 | 16.3 | 28.2 | 26.31 | 27.1 | 37.52 | 33.68 | 54.54 |
| 71972 | 'Dnmbp' | 2.25 | 1.42 | 1.68 | 2.18 | 0.22 | 0.34 | 2.39 | 1.64 | 0.01 | 3.23 |
| 71973 | 'Rbpms2' | 3.26 | 0 | 2.04 | 0 | 2.1 | 0 | 0 | 2.43 | 0 | 0.03 |
| 71974 | 'Prmt3' | 9.11 | 16.75 | 7.43 | 13.5 | 9.17 | 1.86 | 5.59 | 3.66 | 13.17 | 2.72 |
| 71978 | 'Ppp2r2a' | 37.09 | 47.67 | 48.3 | 45.2 | 36.9 | 41.53 | 62 | 40.23 | 36.94 | 30.37 |
| 71981 | 'Tdrd12' | 0.76 | 0.01 | 0 | 0 | 0 | 0 | 2.96 | 0 | 0 | 0.76 |
| 71982 | 'Snx10' | 106.9 | 112.8 | 103 | 80.7 | 112 | 65.03 | 98.6 | 87.37 | 114.2 | 97.23 |
| 71983 | 'Tmco6' | 8.47 | 4.52 | 3.9 | 9.53 | 8.1 | 11.24 | 5.74 | 0.27 | 6.02 | 5.34 |
| 71984 | 'Sars2' | 17.3 | 14.94 | 26.9 | 6.02 | 18.1 | 24.11 | 23.7 | 10.59 | 29.16 | 25.02 |
| 71985 | 'Acad10' | 0 | 0.66 | 0.73 | 0 | 0 | 2.79 | 0 | 0.04 | 0.09 | 0.09 |
| 71986 | 'Ddx28' | 20.74 | 5.83 | 18.9 | 8.01 | 4.73 | 11.66 | 5.88 | 22.99 | 19.84 | 6.27 |
| 71989 | 'Rpusd4' | 12.62 | 1.24 | 5.22 | 10.9 | 6.8 | 1.3 | 1.12 | 1.64 | 13.99 | 9.44 |
| 71990 | 'Ddx54' | 17.39 | 10.75 | 2.74 | 2.32 | 11.9 | 0.02 | 3.34 | 7.92 | 23.67 | 7.55 |
| 71991 | 'Ercc8' | 7.12 | 6.73 | 3.45 | 0.46 | 10 | 0 | 9 | 14.82 | 9.65 | 2.35 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 71994 | 'Cnn3' | 14.78 | 43.53 | 44.4 | 41.7 | 27.4 | 31.73 | 54.4 | 27.78 | 16.58 | 17.83 |
| 71997 | 'Smg9' | 20.36 | 17.93 | 17.7 | 29.5 | 30.5 | 11.87 | 3.18 | 16.19 | 39.21 | 18.76 |
| 71998 | 'Slc25a35' | 2.42 | 0 | 0 | 0 | 1.5 | 0 | 0.03 | 0.05 | 4.93 | 0 |
| 71999 | 'Fbxo22' | 55.76 | 36.82 | 68.6 | 53.7 | 42.6 | 19.92 | 40.4 | 38.11 | 45.96 | 47.5 |
| 72002 | 'Slc39a5' | 0 | 0 | 0 | 0 | 0 | 0.95 | 0 | 0 | 0 | 0 |
| 72003 | 'Synpr' | 14.95 | 48.46 | 119 | 45.7 | 3.5 | 12.41 | 115 | 52.22 | 0.05 | 41.91 |
| 72007 | 'Fndc3b' | 0.54 | 1.33 | 0.57 | 0.66 | 1.47 | 0.01 | 0 | 1.43 | 1.14 | 3.71 |
| 72008 | 'Zfyve19' | 27.11 | 29.27 | 20.2 | 82.6 | 24.8 | 41.1 | 24.2 | 20.87 | 37.48 | 39.86 |
| 72014 | 'Btbd17' | 5.76 | 9.44 | 1.65 | 0.07 | 12.4 | 3.31 | 6.53 | 7.57 | 13.33 | 0.18 |
| 72016 | 'Tedc2' | 4.03 | 1.65 | 3.64 | 0.16 | 2.17 | 4.44 | 0.5 | 0.6 | 9.05 | 4.66 |
| 72017 | 'Cyb5r1' | 19.96 | 22.28 | 12.2 | 18.2 | 34.4 | 28.13 | 9.42 | 31.44 | 42.84 | 31.03 |
| 72018 | 'Fundc1' | 62.81 | 37.92 | 67.1 | 56.5 | 54.3 | 89.86 | 62.2 | 73.52 | 56.26 | 73.21 |
| 72020 | 'Zfp654' | 1.51 | 0.16 | 0.18 | 2.79 | 0.2 | 0.01 | 3.01 | 3.36 | 0.03 | 0.29 |
| 72022 | 'Slc35f2' | 0 | 2.2 | 0 | 0 | 0.02 | 4.95 | 5.29 | 3.95 | 0 | 0 |
| 72023 | 'Cyb561d1' | 1.36 | 1.19 | 1.86 | 0 | 8.22 | 1.8 | 0 | 3.69 | 3.41 | 4.09 |
| 72026 | 'Trmu' | 51.24 | 34.57 | 41.3 | 2.51 | 39.5 | 48.64 | 46.7 | 17.29 | 45.09 | 41.66 |
| 72029 | 'Cnpy3' | 49.69 | 82.06 | 71.9 | 46.4 | 59.9 | 78.64 | 72.4 | 65.63 | 97.06 | 95.75 |
| 72033 | 'Tsc22d2' | 2.2 | 2.03 | 7.49 | 2.7 | 2.54 | 1.54 | 0 | 1.95 | 1.87 | 2.68 |
| 72039 | 'Mccc1' | 10.22 | 18.14 | 22.5 | 4.65 | 37.9 | 12.59 | 23.3 | 20.63 | 12.12 | 15.92 |
| 72041 | 'Alkbh4' | 5.98 | 2.92 | 6.37 | 0 | 6.5 | 12.24 | 11 | 4.63 | 4.8 | 4.44 |
| 72042 | 'Cotl1' | 103.7 | 79.1 | 98.7 | 41.4 | 104 | 116.9 | 105 | 118 | 61.5 | 146.29 |
| 72043 | 'Sulf2' | 2.68 | 5.8 | 20.5 | 0 | 13.1 | 8.6 | 21.6 | 13.65 | 9.56 | 13.3 |
| 72046 | 'Urgcp' | 35.82 | 24.8 | 33.5 | 1.36 | 27.9 | 14 | 24.2 | 43.08 | 26.07 | 22.44 |
| 72047 | 'Ddx42' | 23.44 | 21.87 | 27.4 | 40.8 | 25.6 | 12.68 | 23.4 | 30.05 | 32.51 | 35.13 |
| 72049 | 'Tnfrsf13c' | 0 | 0.53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72050 | 'Kdelc1' | 10.49 | 5.23 | 5.52 | 0 | 7.9 | 11.46 | 8.51 | 8.53 | 6.06 | 14.07 |
| 72053 | 'Tmub2' | 54.14 | 50.34 | 65.9 | 29.9 | 55.7 | 89.75 | 50.4 | 56.9 | 29.09 | 52.44 |
| 72054 | 'Cyp4f18' | 0 | 0 | 0.08 | 0 | 0 | 0 | 0 | 0.19 | 0 | 0.45 |
| 72055 | 'Slc38a10' | 34.31 | 26.87 | 40.4 | 19.1 | 29.8 | 39.46 | 19.6 | 46.11 | 58.44 | 78.37 |
| 72056 | '1810055G02Rik' | 0.1 | 5.33 | 7.75 | 22.8 | 6.22 | 6.41 | 20.8 | 2.78 | 0.02 | 7.38 |
| 72057 | 'Phf10' | 6.78 | 2.98 | 1.34 | 1.12 | 0.31 | 4.27 | 0 | 1.1 | 0.94 | 0 |
| 72061 | '2010111101Rik' | 2.11 | 2.81 | 5.14 | 0.02 | 3.54 | 6.09 | 4.1 | 4.23 | 8.42 | 2.86 |
| 72065 | 'Rap2c' | 0.88 | 1.67 | 2.45 | 0 | 0.27 | 0.05 | 1.91 | 2.99 | 0 | 0.24 |
| 72068 | 'Cnot2' | 10.8 | 23.6 | 22.3 | 16.3 | 14.9 | 19.79 | 8.78 | 20.03 | 24.84 | 25.37 |
| 72075 | 'Ogfr' | 10.53 | 10.64 | 27.3 | 16.8 | 14.2 | 15.35 | 9.18 | 16.35 | 17.11 | 7.55 |
| 72077 | 'Gcnt3' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 72080 | 'Sapcd2' | 0 | 0 | 8.72 | 0 | 0.39 | 0 | 10.6 | 0 | 0 | 0 |
| 72083 | 'Mzt2' | 31.03 | 34.91 | 15 | 50.9 | 11.4 | 50.9 | 32.8 | 35.37 | 31.67 | 23.22 |
| 72084 | 'Pigx' | 35.78 | 30.51 | 25.9 | 53 | 36.1 | 29.36 | 18.5 | 36.72 | 27.89 | 25.48 |
| 72085 | 'Osgepl1' | 16.65 | 17.47 | 7.1 | 13.7 | 12.9 | 15.36 | 10.8 | 17.92 | 5.07 | 10.02 |
| 72088 | 'Ush1c' | 0 | 4.56 | 0.02 | 0 | 0 | 0 | 0 | 1.94 | 0 | 0.75 |
| 72096 | 'Eef1akmt2' | 25.84 | 14.79 | 17.9 | 6.71 | 31.7 | 42.77 | 22.5 | 21.51 | 21.97 | 26.49 |
| 72097 | '2010300C02Rik' | 3.16 | 3.42 | 1.93 | 2.98 | 4.55 | 0.13 | 8.28 | 0.25 | 5.13 | 1.73 |
| 72098 | 'Tmem68' | 23.43 | 24.33 | 15.4 | 20.4 | 7.42 | 13.95 | 10.1 | 18.63 | 12.25 | 22.94 |
| 72102 | 'Dusp11' | 5.98 | 4.68 | 2.89 | 3.19 | 3.28 | 5.43 | 6.45 | 3.7 | 2.21 | 4.73 |
| 72103 | 'Aplf' | 0.63 | 1.02 | 0.49 | 0.41 | 1.74 | 1.42 | 0.27 | 2.1 | 0.09 | 1.5 |
| 72106 | 'Jmjd8' | 65.31 | 60.65 | 66.6 | 24.4 | 33.2 | 58.62 | 33 | 41.58 | 35.6 | 44.76 |
| 72108 | 'Ddhd2' | 32.41 | 33.44 | 30.9 | 34.5 | 39.5 | 52.89 | 49.2 | 25.68 | 39.2 | 42.78 |
| 72112 | 'Ppp1r14d' | 0 | 0 | 0 | 0 | 4.96 | 0 | 0 | 0 | 0 | 0 |
| 72113 | 'Adck1' | 8.78 | 6.29 | 43.1 | 21.9 | 20.3 | 2.72 | 35.6 | 25 | 15.86 | 20.79 |
| 72114 | 'Zbed3' | 1.54 | 3.59 | 8.67 | 4.18 | 10.7 | 0.35 | 2.83 | 5.64 | 14.93 | 8.93 |
| 72117 | 'Naa50' | 13.55 | 21.37 | 16.1 | 32.8 | 10.9 | 11.31 | 27 | 8.39 | 21.98 | 9.41 |
| 72119 | 'Tpx2' | 0 | 0 | 0 | 4.69 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 72121 | 'Dennd2d' | 0 | 0.04 | 0 | 2.05 | 2.68 | 0 | 1.49 | 0.06 | 1.68 | 2.94 |
| 72123 | 'Ccadc71l' | 0 | 0.14 | 0.11 | 0 | 1.17 | 0 | 1.39 | 0.16 | 0.21 | 0.26 |
| 72124 | 'Seh1l' | 43.85 | 30.53 | 22.2 | 33.6 | 27.1 | 23.63 | 51.4 | 47.97 | 25.42 | 27.07 |
| 72125 | 'Amer2' | 3.83 | 1.77 | 6.77 | 2.91 | 2.29 | 8.68 | 1.42 | 1.19 | 0.95 | 2.13 |
| 72128 | '2610008E11Rik' | 6.67 | 2.43 | 7.96 | 2.8 | 2.97 | 2.73 | 3.06 | 3.36 | 2.4 | 5.6 |

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|-------|------------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 72129 | 'Pex13' | 9.45 | 5.42 | 12.1 | 10.6 | 12.2 | 14.45 | 13.4 | 11.8 | 7.98 | 9.62 |
| 72133 | 'Trub1' | 11.8 | 4.37 | 15.5 | 6.15 | 10.7 | 8.66 | 6.93 | 13.75 | 6.24 | 5.78 |
| 72135 | 'Pygo1' | 2.49 | 0 | 1.78 | 2.66 | 0.45 | 0 | 3.58 | 0 | 0 | 0 |
| 72136 | 'Chst14' | 2.7 | 2.9 | 0 | 0 | 0.02 | 0 | 3.67 | 0.02 | 0 | 0 |
| 72137 | 'Wdsub1' | 9.29 | 5.97 | 9.95 | 18.4 | 10.5 | 2.1 | 9.14 | 10.66 | 20.61 | 4 |
| 72139 | '2610044O15Rik8' | 16.06 | 12.82 | 9.94 | 22.2 | 7.94 | 27.79 | 4.14 | 15.64 | 8.72 | 14.35 |
| 72140 | 'Cep89' | 9.82 | 7.53 | 15 | 11 | 6.83 | 10.46 | 1.14 | 5.07 | 10.09 | 19.33 |
| 72141 | 'Adpgk' | 29.59 | 26.85 | 36.7 | 32.4 | 15.3 | 40.31 | 65.5 | 35.41 | 48.5 | 16.7 |
| 72144 | 'Slc37a3' | 11.86 | 13.39 | 7.4 | 9.24 | 4.79 | 4.51 | 6.71 | 8.92 | 24.49 | 26.23 |
| 72145 | 'Wdfy3' | 7.45 | 11.38 | 8.46 | 11.3 | 9.85 | 7.29 | 5.52 | 7.05 | 9.72 | 9.08 |
| 72147 | 'Zbtb46' | 0.94 | 3.04 | 0.5 | 1.73 | 4.14 | 6.04 | 11.2 | 5.79 | 3.45 | 0.01 |
| 72148 | 'Tdrp' | 17.56 | 28.08 | 15 | 24.2 | 4.7 | 10.14 | 14.6 | 13.72 | 17.02 | 5.8 |
| 72149 | 'Strada' | 4.09 | 6.49 | 8.77 | 9.83 | 19.3 | 13.23 | 3.84 | 9.53 | 1.24 | 6.48 |
| 72151 | 'Rfc5' | 0.54 | 10.9 | 0 | 1.26 | 2.29 | 5.29 | 0.03 | 8.59 | 3.42 | 6.3 |
| 72154 | 'Zfp157' | 4.42 | 3 | 8.57 | 7.51 | 1.25 | 1.25 | 7.71 | 5.15 | 3.1 | 2.92 |
| 72155 | 'Cenpn' | 4.49 | 0.03 | 0 | 4.45 | 0.77 | 0 | 0 | 3.81 | 0 | 0 |
| 72157 | 'Pgm2' | 97.11 | 124.8 | 107 | 105 | 70.5 | 126.6 | 114 | 97.87 | 94.96 | 147.01 |
| 72160 | 'Tmem163' | 0.6 | 10.67 | 18.5 | 25.4 | 0.06 | 12.39 | 12.1 | 12.61 | 25.82 | 17.09 |
| 72162 | 'Dhx36' | 5.83 | 3.35 | 4.2 | 7.27 | 8.67 | 4.69 | 7 | 5.5 | 5.03 | 6.28 |
| 72167 | 'Thumpd2' | 1.49 | 4.99 | 5.59 | 0.39 | 2.77 | 4.77 | 7 | 6.62 | 10.26 | 1.14 |
| 72168 | 'Aifm3' | 29.78 | 43.81 | 14.8 | 26.7 | 63.5 | 66.11 | 14.5 | 17.65 | 27.4 | 92.1 |
| 72169 | 'Trim29' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.05 | 0 | 0 |
| 72170 | 'Chchd4' | 122.5 | 95.66 | 136 | 222 | 95.5 | 78.22 | 80.8 | 99.89 | 140.6 | 64.77 |
| 72171 | 'Shq1' | 4.94 | 3.02 | 5.7 | 5.47 | 4.09 | 6.18 | 14.6 | 4.81 | 3.92 | 2.3 |
| 72175 | 'Mfsd8' | 7.9 | 1.92 | 1.79 | 7.5 | 0 | 2.12 | 3.65 | 4.21 | 6.33 | 6.7 |
| 72179 | 'Fbxl2' | 67.96 | 57.39 | 38.6 | 34 | 39.2 | 14.74 | 33.8 | 30.24 | 53.87 | 84.19 |
| 72180 | 'Zfp661' | 4.94 | 2.37 | 0.02 | 0 | 0.35 | 0.11 | 2.7 | 4 | 0 | 1.66 |
| 72181 | 'Nsun4' | 3.9 | 10.89 | 17.1 | 0.02 | 7.34 | 10.96 | 9.57 | 5.47 | 15.13 | 9.03 |
| 72183 | 'Snx6' | 48.65 | 56.35 | 38.6 | 55.8 | 43.1 | 35.52 | 30.3 | 45.19 | 40.04 | 49.45 |
| 72184 | 'Klhl35' | 0 | 0.61 | 0.17 | 0 | 0.17 | 0 | 0.03 | 0 | 0.64 | 0.83 |
| 72185 | 'Dbnnd1' | 41.85 | 35.95 | 24.4 | 33.3 | 45.7 | 67.7 | 32.2 | 50.65 | 58.72 | 29.7 |
| 72190 | '2510009E07Rik' | 3.72 | 4.21 | 5.85 | 2.23 | 3.55 | 1.96 | 3.84 | 1.2 | 2.54 | 1.15 |
| 72193 | 'Scaf11' | 4.75 | 5.41 | 4.28 | 5.16 | 4.32 | 1.9 | 0.68 | 3.42 | 3.73 | 2.67 |
| 72194 | 'Fbxl20' | 0.56 | 1.44 | 2.13 | 9.01 | 1.78 | 1.41 | 0.83 | 1.6 | 1.23 | 1.92 |
| 72195 | 'Supt7l' | 6.87 | 9.13 | 5.74 | 8.61 | 4.05 | 0.07 | 3.11 | 10.82 | 25.34 | 11.73 |
| 72198 | 'Mtrex' | 18.91 | 19.66 | 9.17 | 10.8 | 15.5 | 14.29 | 25.2 | 21.75 | 20.05 | 26.32 |
| 72199 | 'Mms19' | 12.64 | 5.53 | 21.3 | 5.46 | 10.9 | 10.2 | 15.7 | 0.25 | 6.92 | 17.8 |
| 72201 | 'Otud6b' | 22.65 | 24.89 | 23.3 | 10.8 | 27.8 | 19.95 | 24.6 | 25.35 | 10.26 | 31 |
| 72205 | 'Eml2' | 11.29 | 11.86 | 5.45 | 1.91 | 27.3 | 16.32 | 19.9 | 14.96 | 16.31 | 9.46 |
| 72215 | '1700001P01Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.53 | 0 |
| 72230 | 'Zfp558' | 0.56 | 2.08 | 1.63 | 0 | 2.47 | 0.01 | 6.01 | 3.06 | 2.87 | 0.06 |
| 72236 | 'Tsnaxip1' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0.18 | 0.02 | 0 |
| 72238 | 'Tbc1d5' | 0.94 | 3.14 | 4.64 | 0 | 3.12 | 1.05 | 1.48 | 0.97 | 4.45 | 4.05 |
| 72244 | '1600014C10Rik' | 24.05 | 11.58 | 17.9 | 26 | 21.1 | 28.27 | 12.9 | 11.84 | 21.51 | 19.38 |
| 72254 | '1700030K09Rik' | 12.46 | 8.85 | 5.19 | 2.52 | 10.5 | 10.83 | 21.3 | 4.12 | 13.53 | 7.49 |
| 72258 | 'Kcnk10' | 0.01 | 1.75 | 4.54 | 0 | 2.11 | 0 | 5.27 | 0.44 | 1.57 | 0.16 |
| 72265 | 'Tram1' | 8.21 | 10.34 | 3.14 | 19.7 | 9.62 | 13.38 | 11 | 6.16 | 24.31 | 13.04 |
| 72267 | 'Lrrc8e' | 0.09 | 0.1 | 0.11 | 0.03 | 0.1 | 0.08 | 0.03 | 0.06 | 0.15 | 0.08 |
| 72269 | 'Cda' | 4.84 | 6.38 | 10.5 | 41.3 | 11.4 | 20.41 | 44.7 | 20.51 | 8.66 | 0 |
| 72273 | 'Smim24' | 4.22 | 1.73 | 11.3 | 9.17 | 0 | 0 | 6.26 | 8.49 | 26.28 | 4.41 |
| 72275 | '2200002D01Rik' | 0 | 1.26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72278 | 'Ccpq1' | 69.59 | 74.82 | 51.1 | 45.1 | 42.1 | 54.52 | 52.4 | 49.48 | 50.28 | 71.87 |
| 72281 | 'Sh2d4a' | 0 | 0 | 0 | 0 | 0.02 | 0 | 5.98 | 0 | 0 | 0 |
| 72284 | 'LTO1' | 15.78 | 13.38 | 14.9 | 13.8 | 10.9 | 16.15 | 29.7 | 17.68 | 23.89 | 18.35 |
| 72287 | 'Plekhf1' | 3.63 | 2.87 | 5.37 | 0 | 0 | 0 | 0 | 2.76 | 0 | 0 |
| 72290 | 'Lsm11' | 0.05 | 0.13 | 1.16 | 2.58 | 0.4 | 0.06 | 1.04 | 0.12 | 0.48 | 0.17 |
| 72293 | 'Nkd2' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 2.45 | 8.34 | 0.01 |
| 72296 | 'Rusc1' | 33.69 | 28.25 | 53.7 | 12.7 | 30.6 | 20.55 | 45.6 | 28.38 | 36.58 | 14.1 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 72297 | 'B3gnt3' | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 72301 | 'Shisal1' | 3.02 | 3.02 | 8.72 | 5.33 | 14.5 | 4.02 | 12.1 | 5.93 | 8.94 | 2.13 |
| 72303 | 'Cyp2c65' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72306 | 'Zfp777' | 3.38 | 3.82 | 8.95 | 2.17 | 7.11 | 3.34 | 4.37 | 9.04 | 8.13 | 8.85 |
| 72307 | '2510002D24Rik' | 34.39 | 33.41 | 57.8 | 69.6 | 60.1 | 74.27 | 70.4 | 47.09 | 49.99 | 49.96 |
| 72308 | 'Brf1' | 2.8 | 7.87 | 2.83 | 4.12 | 1.66 | 3 | 5.36 | 4.08 | 11.29 | 7.16 |
| 72309 | 'Tmem158' | 12.55 | 7.37 | 10.5 | 54.6 | 13.2 | 4.22 | 6.8 | 2.8 | 5.71 | 7.88 |
| 72310 | 'Nkg7' | 0 | 3.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72313 | 'Fryl' | 1.53 | 3.14 | 2.07 | 2.33 | 3.73 | 1.71 | 4.51 | 1.67 | 4.41 | 1.37 |
| 72315 | 'Ccdc74a' | 3.42 | 3.91 | 3.65 | 27.7 | 3.69 | 6.07 | 0 | 5.79 | 0.43 | 3.58 |
| 72318 | 'Cyth4' | 0.02 | 1.69 | 0 | 0 | 0.25 | 1.05 | 0 | 0 | 0.02 | 2.29 |
| 72320 | 'Kif1bp' | 20.01 | 17.1 | 22.1 | 13.9 | 11.3 | 20.91 | 40.9 | 43.1 | 40.8 | 16.69 |
| 72322 | 'Xpo5' | 3.91 | 9.94 | 17.9 | 6.17 | 3.22 | 3.59 | 6.27 | 9.73 | 10.48 | 9.56 |
| 72323 | 'Asb6' | 23.79 | 29.54 | 6.64 | 17.7 | 17.8 | 13.94 | 23.6 | 33.17 | 25.49 | 32.94 |
| 72324 | 'Plxdc1' | 8.83 | 8.34 | 20.4 | 0.02 | 7.52 | 2.23 | 12.5 | 5.69 | 3.58 | 8.4 |
| 72325 | 'Vps9d1' | 7.5 | 6.25 | 11.9 | 2.76 | 7.89 | 6.77 | 16.9 | 10.55 | 10.18 | 13.61 |
| 72330 | 'Klhl40' | 0.07 | 0 | 0.02 | 0.07 | 0 | 0.02 | 0.02 | 0 | 8.36 | 0 |
| 72333 | 'Pald' | 1.66 | 8.01 | 6.71 | 4.77 | 0.9 | 1.93 | 5.44 | 5.51 | 6.71 | 3.12 |
| 72338 | 'Wdr89' | 4.18 | 3.96 | 4.84 | 0.31 | 0.28 | 1.8 | 7.74 | 1.29 | 3.98 | 4.96 |
| 72341 | 'Elp6' | 30.46 | 32.13 | 36.4 | 35.8 | 15.1 | 18.48 | 27.6 | 17.03 | 10.33 | 15.49 |
| 72344 | 'Usp36' | 4.66 | 5.24 | 7.77 | 13.9 | 5.6 | 3.68 | 9.22 | 2.52 | 7.83 | 6.85 |
| 72345 | 'Amer1' | 2.55 | 0.95 | 1.56 | 2.34 | 2.02 | 3.62 | 1.07 | 1.55 | 0.71 | 0.9 |
| 72349 | 'Dusp3' | 57.13 | 44.92 | 34.8 | 72.4 | 103 | 72.74 | 34.2 | 67.44 | 75.27 | 85.97 |
| 72350 | 'Zc2hc1c' | 3.42 | 3.36 | 7.55 | 4.98 | 2.01 | 2.01 | 1.66 | 0 | 4.62 | 1.1 |
| 72351 | 'Ptar1' | 1.19 | 0.53 | 2.18 | 0 | 3.13 | 4.37 | 0 | 0.58 | 0.82 | 0.26 |
| 72354 | 'Ttc4' | 39.99 | 47.35 | 58.3 | 34.8 | 81.6 | 50.63 | 41.3 | 68.08 | 55.73 | 55.05 |
| 72355 | 'Cdpf1' | 34.16 | 26.27 | 27.5 | 17.2 | 38.1 | 72.96 | 30.3 | 12.15 | 41.06 | 11.95 |
| 72357 | '2210016L21Rik' | 260.4 | 179.8 | 257 | 246 | 252 | 300.9 | 313 | 267.7 | 289.5 | 239.69 |
| 72368 | 'Borcs8' | 78.74 | 64.86 | 28.1 | 39.2 | 46.9 | 87.39 | 49.8 | 67.12 | 73.8 | 93.06 |
| 72371 | '2210408I21Rik' | 4.59 | 6.4 | 6.45 | 0 | 5.36 | 8.61 | 4.72 | 6.27 | 4.05 | 5.37 |
| 72388 | 'Ripk4' | 0 | 0 | 0 | 0 | 1.05 | 0 | 0 | 0 | 0 | 0 |
| 72391 | 'Cdkn3' | 7.85 | 0 | 0 | 0 | 0.94 | 0 | 0 | 1.01 | 0 | 0 |
| 72392 | 'Tmem175' | 35.9 | 52.38 | 33.6 | 42.9 | 38.9 | 73.12 | 51.5 | 79.25 | 64.94 | 68.3 |
| 72393 | 'Faim2' | 333.5 | 330.1 | 297 | 189 | 318 | 390 | 386 | 377 | 365.6 | 327.64 |
| 72397 | 'Rbm12b1' | 3.06 | 2.17 | 1.36 | 6.31 | 1.01 | 5.12 | 8.04 | 0.99 | 3.29 | 5.51 |
| 72399 | 'Brap' | 6.27 | 5.19 | 10.3 | 13.8 | 18.9 | 3.74 | 1.66 | 1.87 | 4.51 | 4.4 |
| 72400 | 'Pinx1' | 6.92 | 5.49 | 2.28 | 12.6 | 3.76 | 0 | 5.41 | 4.71 | 2.42 | 0 |
| 72404 | 'Wdr44' | 1.84 | 1.66 | 0.59 | 6.01 | 1.75 | 3.35 | 3.13 | 2.2 | 1.36 | 3.81 |
| 72413 | 'Kcnmb2' | 0 | 2.02 | 0 | 0 | 23.1 | 0 | 3.82 | 0 | 0 | 0 |
| 72415 | 'Sgo1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.36 | 0.63 |
| 72416 | 'Lrpprc' | 6.96 | 12.4 | 33.2 | 28.8 | 13.5 | 8.88 | 32.3 | 16.39 | 26.79 | 28.12 |
| 72421 | 'Ttc30b' | 40.31 | 29.32 | 24.1 | 27.4 | 20.8 | 12.12 | 14.9 | 29.33 | 17.61 | 18.66 |
| 72425 | 'Katnbl1' | 7.91 | 8.82 | 2.86 | 0.02 | 1.59 | 0.5 | 0.06 | 11.26 | 4.2 | 6.5 |
| 72429 | 'Dnajc25' | 0.7 | 0.03 | 0.06 | 3.04 | 0.82 | 0 | 0 | 0.71 | 1.25 | 1.97 |
| 72433 | 'Rab38' | 1.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.61 |
| 72434 | 'Lypd3' | 0 | 0 | 1.79 | 0 | 0 | 6.68 | 0 | 0.99 | 1.7 | 4.62 |
| 72440 | 'Rhno1' | 19.79 | 6.31 | 5.49 | 27.2 | 14.3 | 21.96 | 18.2 | 8.91 | 18.77 | 27.03 |
| 72446 | 'Prr5l' | 1.2 | 1.87 | 0.06 | 0.06 | 0.06 | 0.42 | 0.02 | 0 | 0 | 2.06 |
| 72454 | 'Ccdc71' | 35.38 | 15.91 | 14 | 6.21 | 7.44 | 15.66 | 10 | 22.56 | 24.86 | 15.89 |
| 72459 | 'Htatsf1' | 41.98 | 31.93 | 30.5 | 25.6 | 27 | 23.99 | 28.1 | 33.53 | 32.6 | 5.24 |
| 72461 | 'Prpc' | 3.9 | 3.97 | 5.79 | 0 | 4.15 | 2.62 | 11.7 | 2.88 | 2.58 | 3.87 |
| 72462 | 'Rrp1b' | 6.79 | 19.33 | 9.48 | 0.39 | 5.66 | 22.23 | 15.7 | 11.01 | 4.99 | 9.23 |
| 72465 | 'Zfp131' | 8.46 | 7.99 | 5.82 | 21.5 | 3.25 | 0.46 | 1.83 | 10.3 | 7.04 | 5.79 |
| 72469 | 'Plcd3' | 0 | 6.24 | 2.42 | 0.17 | 2.34 | 0.19 | 1.61 | 3.04 | 0.28 | 0.07 |
| 72472 | 'Slc16a10' | 0.8 | 0.1 | 0.25 | 0.64 | 1.51 | 0.04 | 0.19 | 0.14 | 0.31 | 1 |
| 72475 | 'Ssbp3' | 28.49 | 30.26 | 30.3 | 81.2 | 24 | 23.75 | 29.6 | 17.26 | 11.05 | 31.56 |
| 72477 | 'Tmem87b' | 16.16 | 8.73 | 10.4 | 6.69 | 12.8 | 12.68 | 10.5 | 8.39 | 8.49 | 11.72 |
| 72479 | 'Hsd12' | 9.9 | 8.9 | 16.2 | 5.86 | 15.2 | 7.5 | 14 | 13.47 | 4.44 | 6.58 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 72480 | 'Tspyl4' | 214.4 | 185.1 | 247 | 113 | 154 | 91.06 | 210 | 245.5 | 234.8 | 151.06 |
| 72482 | 'Acbd6' | 27.43 | 11.25 | 30.5 | 45 | 20.8 | 15.36 | 23.1 | 15.51 | 21.86 | 4.99 |
| 72486 | 'Rnf219' | 3.85 | 6.97 | 3 | 1.58 | 9.54 | 7.52 | 8.12 | 5.43 | 0.7 | 1.44 |
| 72500 | 'Ier5l' | 0.03 | 0 | 2.6 | 0 | 1.62 | 0 | 2.55 | 0 | 0 | 0 |
| 72502 | 'Cwf19l1' | 0.03 | 3.83 | 5.08 | 4.68 | 3.83 | 0.79 | 16.3 | 9.36 | 7.89 | 2.21 |
| 72503 | '2610507B11Rik' | 3.76 | 8.78 | 15.5 | 5.58 | 6 | 4.24 | 7.59 | 9.71 | 6.42 | 5.05 |
| 72504 | 'Taf4b' | 0.48 | 0 | 0 | 0 | 0.7 | 0 | 0.02 | 1.75 | 0 | 0 |
| 72507 | 'Dzip1l' | 3.72 | 2.31 | 3.89 | 0 | 4.43 | 2.51 | 1.5 | 3.19 | 1.8 | 1.78 |
| 72508 | 'Rps6kb1' | 13.81 | 25.19 | 20.5 | 16.6 | 21.2 | 10.94 | 16.6 | 24.29 | 9.96 | 28.66 |
| 72512 | 'Tmem173' | 0 | 0 | 0 | 0 | 0.02 | 26.37 | 0 | 0 | 0.02 | 0 |
| 72514 | 'Fgfbp3' | 1.84 | 0 | 0 | 0 | 0.99 | 1.41 | 4.22 | 0.34 | 0 | 0 |
| 72515 | 'Wdr43' | 20.14 | 14 | 9.25 | 9.94 | 12.3 | 7.51 | 9.02 | 12.44 | 11.84 | 16.3 |
| 72519 | 'Pip4p2' | 30.63 | 36.59 | 24.3 | 19.5 | 15.3 | 15.59 | 9.09 | 26.08 | 26.46 | 23.01 |
| 72522 | 'Atxn7l2' | 6.15 | 7.39 | 5.72 | 0.02 | 4.08 | 0.13 | 8.82 | 10.32 | 1.45 | 4.6 |
| 72535 | 'Aldh1b1' | 11.81 | 4.77 | 2.98 | 4.81 | 7.62 | 28.02 | 20.3 | 12.06 | 24.43 | 17.69 |
| 72536 | 'Tagap' | 0.06 | 0.4 | 0.06 | 0 | 0.41 | 0.89 | 0.02 | 0.36 | 0.04 | 1.98 |
| 72542 | 'Pgam5' | 28.38 | 36.38 | 34.9 | 68.1 | 26.8 | 24.04 | 32.1 | 28.06 | 24.78 | 54.97 |
| 72543 | 'Mvb12b' | 5.55 | 6.75 | 2.72 | 3.57 | 4.41 | 0.23 | 7.27 | 4.68 | 4.6 | 1.44 |
| 72544 | 'Exosc6' | 1.9 | 0.26 | 0 | 18.9 | 0.49 | 0 | 11 | 0.62 | 0 | 0 |
| 72549 | 'Reep4' | 5.84 | 0.06 | 2.99 | 0 | 0 | 4.75 | 0.03 | 2.36 | 4.95 | 0 |
| 72552 | 'Hsd1l' | 70.7 | 57.94 | 80.1 | 24.8 | 109 | 48.91 | 78.4 | 67.35 | 76.47 | 83.36 |
| 72554 | 'Utp14a' | 4.86 | 6.53 | 2.5 | 3.02 | 6.68 | 0.04 | 2.42 | 8.01 | 2.74 | 9.21 |
| 72555 | 'Shisa9' | 4.14 | 4.85 | 7.35 | 13.6 | 3.72 | 3.71 | 25 | 7 | 7.17 | 5.65 |
| 72556 | 'Zfp566' | 2.15 | 4.63 | 0.63 | 15 | 10.2 | 9.06 | 0 | 5.01 | 8.59 | 4.77 |
| 72560 | 'Naalad2' | 0 | 0 | 0.71 | 0 | 0.28 | 0 | 0.02 | 0 | 0 | 0.54 |
| 72562 | 'Pcbd2' | 8.87 | 10.17 | 20 | 58.1 | 8.71 | 9.34 | 6.23 | 9.8 | 41.32 | 15.87 |
| 72565 | 'Uaca' | 0 | 2.02 | 0.01 | 1.68 | 1.16 | 0.87 | 4.24 | 1.1 | 0.01 | 2.1 |
| 72567 | 'Bclaf1' | 39.38 | 32.49 | 35.8 | 41.8 | 34.9 | 39.41 | 29.3 | 36.89 | 33.06 | 31.36 |
| 72568 | 'Lin9' | 4.44 | 1.56 | 1.04 | 8.16 | 0.02 | 3.15 | 5.83 | 3.5 | 1.96 | 1.36 |
| 72569 | 'Bbs5' | 25.81 | 30.22 | 12.9 | 11.6 | 26.7 | 31.92 | 7.58 | 20.55 | 15.78 | 16.21 |
| 72572 | 'Spats2' | 2.57 | 0.52 | 0.15 | 0.2 | 2.62 | 1.27 | 3.98 | 4.06 | 3.33 | 2.75 |
| 72580 | 'Zup1' | 2.02 | 5.05 | 8.28 | 6.66 | 15.6 | 21.94 | 17.7 | 7.36 | 15.59 | 4.66 |
| 72584 | 'Cul4b' | 7.96 | 3.48 | 6.03 | 4.12 | 1.53 | 0.8 | 3.98 | 1.03 | 5.73 | 6.48 |
| 72585 | 'Lypd1' | 4.4 | 13.37 | 24.4 | 24.7 | 2.98 | 4.37 | 18.1 | 9.73 | 14.86 | 8.1 |
| 72587 | 'Pan3' | 7.7 | 5.91 | 13.1 | 9.87 | 10.5 | 4.5 | 6.3 | 6.55 | 20.28 | 11.35 |
| 72590 | 'Ppme1' | 192 | 180.5 | 188 | 116 | 214 | 154.4 | 207 | 186.3 | 214.7 | 204 |
| 72599 | 'Pdia5' | 1.72 | 2.56 | 0 | 0 | 0.07 | 0.38 | 3.07 | 0.03 | 10.51 | 2.93 |
| 72605 | 'Car10' | 6.67 | 20.95 | 26.9 | 10.3 | 32.3 | 27.88 | 72.5 | 26.99 | 43.63 | 48.38 |
| 72607 | 'Usp13' | 6.92 | 9.15 | 6.39 | 6.67 | 3.79 | 2.57 | 4.04 | 9.13 | 9.01 | 3.86 |
| 72611 | 'Zfp655' | 22.05 | 24.07 | 20.8 | 21.4 | 7.9 | 13.31 | 17.8 | 20.69 | 21.08 | 15.23 |
| 72612 | 'Hpf1' | 63.64 | 59.86 | 35 | 99 | 86.6 | 76.79 | 90.2 | 70.36 | 59.08 | 57.9 |
| 72614 | 'Pih1d2' | 3.35 | 3.71 | 0.69 | 0.88 | 2.54 | 1.93 | 1.19 | 1.29 | 0.7 | 4.75 |
| 72615 | 'Anks3' | 31.39 | 30.54 | 17.5 | 14.5 | 37.8 | 50.98 | 28.6 | 40.73 | 51.74 | 50.91 |
| 72621 | 'Pdzd11' | 70.13 | 75.21 | 67.7 | 79.1 | 99.5 | 162.9 | 107 | 104.9 | 111.9 | 62.89 |
| 72630 | 'Hspa12b' | 0.47 | 0.44 | 1.5 | 0.03 | 0.08 | 0 | 8.1 | 1.55 | 1.09 | 4.12 |
| 72632 | 'Smim18' | 81.48 | 108.2 | 93.8 | 106 | 77.5 | 123.1 | 55.9 | 102.3 | 69.68 | 87.42 |
| 72634 | 'Tdrkh' | 14.56 | 16.34 | 10.2 | 7.26 | 11.2 | 11.2 | 10.9 | 19.06 | 14.19 | 11.47 |
| 72635 | 'Lins1' | 2.82 | 4.25 | 6.25 | 9.08 | 7.75 | 2.31 | 8.5 | 1.99 | 1.73 | 4.86 |
| 72640 | 'Mex3a' | 0.48 | 0.01 | 0.17 | 0 | 0.5 | 0.75 | 0.37 | 1.7 | 0 | 0.42 |
| 72649 | 'Tmem209' | 15.64 | 19.25 | 6.28 | 32.4 | 15.5 | 4.95 | 9.59 | 12.01 | 18.28 | 36.79 |
| 72650 | '2810006K23Rik' | 9.34 | 5.61 | 17.9 | 0.55 | 5.5 | 9.22 | 12.5 | 5.34 | 8.14 | 3.93 |
| 72654 | 'Ccdc12' | 94.15 | 84.07 | 63 | 90.3 | 138 | 136.6 | 81.6 | 91.2 | 107.2 | 106.21 |
| 72656 | 'Ints8' | 3.59 | 3.62 | 2.56 | 7.99 | 2.62 | 1.02 | 8.09 | 5.37 | 2.19 | 6.26 |
| 72657 | 'Selenoh' | 96.76 | 84.71 | 150 | 57.8 | 50.7 | 103.9 | 111 | 106.6 | 77.84 | 98 |
| 72658 | '2700097O09Rik' | 15.84 | 30.14 | 9.88 | 47.4 | 23.5 | 18.07 | 20.1 | 14.67 | 10.99 | 19.83 |
| 72661 | 'Serp2' | 174.8 | 117.7 | 217 | 127 | 157 | 124.4 | 170 | 149.1 | 155.3 | 123.36 |
| 72662 | 'Dis3' | 2.92 | 2.01 | 7.8 | 3.32 | 0.24 | 1.89 | 1.11 | 1.43 | 2.36 | 0.41 |
| 72667 | 'Zfp444' | 22.38 | 32.09 | 35.3 | 19.1 | 25.3 | 19.96 | 42.9 | 50.36 | 39.84 | 33.47 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|---------|
| 72668 | 'Skida1' | 0.07 | 0.01 | 0.56 | 0 | 1.46 | 0.33 | 0.03 | 1.65 | 1.81 | 0.16 |
| 72672 | 'Zfp518a' | 0.01 | 0.18 | 0 | 0 | 1.63 | 0.35 | 0.06 | 0.01 | 0.24 | 1.33 |
| 72674 | 'Adipor1' | 23.22 | 16.48 | 17.1 | 18.6 | 14.8 | 31.97 | 11.7 | 14.15 | 8.5 | 9.18 |
| 72685 | 'Dnajc6' | 19.69 | 27.62 | 31.1 | 30.3 | 25.5 | 9.72 | 29.4 | 19 | 40.3 | 31.16 |
| 72690 | 'Grp1' | 0.15 | 0 | 0.22 | 0 | 0.62 | 0 | 0 | 0 | 4.99 | 0.07 |
| 72691 | 'Calhm2' | 0 | 0 | 3.29 | 0 | 3.61 | 0 | 0 | 0 | 0 | 0 |
| 72692 | 'Hnrnp1l' | 5.9 | 2.78 | 5.2 | 21.4 | 3.92 | 0.01 | 6.6 | 8.79 | 5.67 | 2.27 |
| 72693 | 'Zcchc12' | 982.1 | 1034 | 757 | 1033 | 641 | 706.2 | 635 | 1311 | 775.3 | 809.67 |
| 72699 | 'Lime1' | 12.71 | 14.87 | 23.7 | 3.18 | 19.6 | 8.41 | 21.5 | 12.76 | 12.71 | 13.37 |
| 72701 | 'Zfp618' | 1.9 | 2.27 | 2.91 | 0.18 | 5.55 | 0 | 10.1 | 1.37 | 0.98 | 0 |
| 72709 | 'C1qtnf6' | 0 | 0 | 0.59 | 0 | 2.06 | 0 | 0.81 | 0 | 0.06 | 0 |
| 72713 | 'Angptl1' | 0.04 | 0 | 1.4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72720 | 'Zfp248' | 7.21 | 3.55 | 3.6 | 1.49 | 4.65 | 0.09 | 5.71 | 5.44 | 2.91 | 8.83 |
| 72722 | 'Fam98a' | 8.18 | 7.09 | 8.28 | 1.45 | 13.2 | 9.83 | 1.83 | 10.46 | 5.34 | 10.72 |
| 72723 | 'Zfp74' | 7.46 | 4.06 | 4.25 | 0 | 4.98 | 4.99 | 0 | 5.72 | 4.95 | 5.44 |
| 72726 | 'Tbcc' | 41.89 | 24.69 | 21.3 | 50.6 | 27 | 51.3 | 50.7 | 24.67 | 38.65 | 9.85 |
| 72727 | 'B3gat3' | 30.18 | 20.16 | 11.9 | 24.6 | 34.2 | 52.08 | 18.2 | 23.25 | 48.83 | 29.39 |
| 72729 | 'Cdc42se2' | 47.4 | 54.09 | 56.3 | 60.8 | 40.2 | 36.5 | 65.6 | 65.26 | 42.2 | 56.35 |
| 72736 | 'Tmx1' | 82.14 | 98.05 | 82.2 | 98.7 | 42.8 | 60.3 | 38.4 | 91.21 | 128.1 | 123.33 |
| 72739 | 'Zkscan3' | 10.04 | 18.65 | 15.6 | 5.05 | 1.89 | 10.69 | 7.3 | 6.53 | 10.35 | 21.21 |
| 72745 | 'Tmem161b' | 8.28 | 3.8 | 6.78 | 5.85 | 3.09 | 3.15 | 4.62 | 10.68 | 9.03 | 8.22 |
| 72747 | 'Ttc39c' | 6.53 | 4.31 | 4.06 | 9.09 | 1.67 | 10.06 | 0.02 | 1.07 | 0.36 | 3.43 |
| 72748 | 'Hdhd3' | 7.78 | 3.43 | 0.09 | 10.9 | 38.2 | 25.05 | 6.81 | 16.78 | 27.82 | 15.17 |
| 72749 | 'Tonsl' | 1.82 | 2.65 | 4.06 | 0.01 | 1.18 | 7.81 | 7.09 | 2.51 | 8.88 | 4.3 |
| 72750 | 'Fam117b' | 1.73 | 8.59 | 4.11 | 14.6 | 2.24 | 2.11 | 4.94 | 4.04 | 4.56 | 4.48 |
| 72754 | 'Arhgef10l' | 0.72 | 2.16 | 6.75 | 0.03 | 5.56 | 1.11 | 4.85 | 1.49 | 1.63 | 2.96 |
| 72759 | 'Tmem135' | 12.63 | 22.87 | 29.6 | 7.44 | 19.1 | 14.52 | 23.4 | 16.21 | 24.85 | 32.26 |
| 72772 | 'Rint1' | 12.36 | 5.89 | 12.6 | 6.36 | 6.65 | 6.41 | 10 | 4.41 | 5.57 | 7.82 |
| 72774 | 'Neil1' | 0.04 | 11.46 | 3.22 | 8.38 | 4.34 | 11.22 | 10.8 | 8.44 | 11.06 | 5.91 |
| 72775 | 'Fance' | 6.85 | 4.81 | 10.4 | 4.09 | 1.96 | 7.08 | 4.54 | 1.97 | 2.28 | 3.98 |
| 72776 | 'Sass6' | 1.98 | 0.9 | 0.36 | 2.04 | 3.07 | 1.3 | 0.41 | 0.79 | 1.25 | 1.25 |
| 72780 | 'Rspo3' | 0 | 8.29 | 1.18 | 0 | 0.31 | 0.82 | 0 | 0 | 5.48 | 7.13 |
| 72787 | 'Ndc1' | 1.06 | 8.65 | 1.56 | 5.85 | 2.41 | 7.64 | 6.53 | 5.33 | 0.07 | 4.59 |
| 72789 | 'Veph1' | 0.05 | 0.23 | 0.19 | 0.3 | 0.2 | 0.16 | 0.13 | 0.12 | 0.23 | 0.16 |
| 72792 | '2810459M11Rik' | 0.81 | 3.07 | 2.41 | 5.9 | 0.25 | 0 | 2.6 | 2.33 | 3.54 | 0 |
| 72795 | 'Ttc19' | 7.91 | 17.8 | 3.38 | 10.8 | 9.12 | 2.73 | 10.1 | 10.5 | 12.63 | 5.75 |
| 72805 | 'Zfp839' | 0.43 | 0.3 | 0.2 | 0.03 | 1.23 | 0.03 | 0 | 1.69 | 1.03 | 0.95 |
| 72807 | 'Zfp429' | 0 | 0 | 3.3 | 0 | 0 | 0 | 0 | 0 | 3.99 | 0 |
| 72821 | 'Scn2b' | 105.3 | 98.01 | 88.4 | 68.8 | 100 | 98.61 | 110 | 113.5 | 95.41 | 74.6 |
| 72823 | 'Pard3b' | 0.03 | 0.45 | 0.01 | 0 | 1.83 | 0 | 0 | 0 | 1.07 | 0 |
| 72825 | 'Mon1a' | 17.17 | 6.44 | 7.01 | 4.15 | 13.5 | 12.29 | 13.5 | 11.72 | 10.97 | 6.82 |
| 72826 | 'Fam76b' | 2.66 | 2.46 | 2.87 | 3.45 | 0.37 | 0.48 | 3.22 | 0.63 | 8.32 | 1.06 |
| 72828 | 'Ubash3b' | 3.47 | 0.54 | 0.41 | 0.02 | 7.31 | 2.27 | 2.02 | 8.64 | 3.13 | 2.86 |
| 72831 | 'Dhx30' | 28.8 | 42.35 | 46.4 | 21 | 14.7 | 20.13 | 27.6 | 28 | 27.98 | 34.22 |
| 72832 | 'Crtac1' | 36.42 | 11 | 15 | 30 | 9.87 | 19.45 | 36.2 | 13.47 | 12.9 | 9.38 |
| 72836 | 'Pot1b' | 0.8 | 1.71 | 1.02 | 3.4 | 2.43 | 0.76 | 1.43 | 0.8 | 1.28 | 2.26 |
| 72843 | 'Prdm4' | 1.97 | 3.67 | 2.87 | 2.55 | 0.01 | 0.02 | 8.25 | 6.16 | 1.04 | 0 |
| 72844 | 'Kctd17' | 10.4 | 13.2 | 21.2 | 8.89 | 35.2 | 20.75 | 9.79 | 15.63 | 15.9 | 9.01 |
| 72852 | 'Mblac2' | 29.27 | 30.5 | 35.2 | 25 | 13.8 | 27.18 | 37.8 | 30.58 | 28.48 | 18.22 |
| 72865 | 'Rtl8c' | 966.9 | 781.4 | 881 | 1009 | 839 | 1254 | 1041 | 1126 | 920.1 | 1326.96 |
| 72873 | 'Bbof1' | 0.93 | 4.51 | 4.2 | 3.48 | 5.2 | 12.43 | 2.9 | 2.9 | 4.98 | 2.28 |
| 72881 | 'Zdhhc4' | 28.81 | 12.15 | 51.7 | 14.5 | 29.1 | 30.9 | 55.7 | 31.73 | 16.2 | 26.81 |
| 72886 | 'Yju2' | 12.95 | 14.53 | 9.08 | 20.3 | 6.8 | 20.32 | 5.61 | 15.12 | 0.7 | 8.64 |
| 72895 | 'Setd5' | 8.43 | 7.41 | 5.24 | 5.25 | 7.06 | 4.92 | 8.89 | 6.24 | 4.97 | 8.15 |
| 72898 | 'Asphd2' | 20.94 | 20.26 | 6.06 | 11 | 15.8 | 28.17 | 12.3 | 20.13 | 13.41 | 3.62 |
| 72899 | 'Macrod2' | 7.1 | 9.93 | 9.61 | 12.8 | 10.6 | 5.67 | 10.9 | 15.77 | 5.55 | 3.16 |
| 72900 | 'Ndufv2' | 318.6 | 272.5 | 303 | 271 | 324 | 393.7 | 372 | 366 | 312.1 | 329.87 |
| 72902 | 'Spock3' | 179.1 | 60.34 | 52.4 | 49.5 | 42 | 42.9 | 39.5 | 117.5 | 46.4 | 95.85 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 72925 | 'March1' | 22.52 | 19.83 | 15.3 | 9.79 | 11.7 | 5.46 | 7.36 | 5.66 | 11.94 | 13.6 |
| 72927 | 'Hepacam' | 23.18 | 15.43 | 33.7 | 7.28 | 9.38 | 23.74 | 10 | 11.09 | 8.1 | 7.04 |
| 72930 | 'Ppp2r2b' | 63.05 | 75.86 | 48.5 | 64.9 | 49.6 | 64.43 | 85.3 | 101.2 | 97.23 | 85.75 |
| 72931 | 'Swi5' | 545.4 | 476.8 | 470 | 730 | 515 | 701.9 | 602 | 539.6 | 496.5 | 512.6 |
| 72935 | 'Ddx41' | 43.53 | 17.19 | 7.38 | 16.9 | 19.5 | 22.85 | 17.4 | 19.8 | 21.9 | 14.37 |
| 72938 | 'Hspb11' | 29.06 | 27.15 | 22.6 | 39.7 | 34.9 | 53.22 | 37.3 | 30.42 | 35.71 | 40.75 |
| 72946 | 'Lrrc47' | 0.23 | 2.32 | 3.32 | 4.89 | 0.48 | 0 | 5.53 | 1.34 | 12.55 | 0.02 |
| 72947 | 'Phykp1' | 5.72 | 1.75 | 3.54 | 11.8 | 4.98 | 22.71 | 0 | 9.9 | 3.99 | 12.65 |
| 72948 | 'Tppp' | 35.68 | 28.95 | 52.3 | 32.1 | 25.7 | 8.75 | 79.2 | 17.59 | 35.76 | 46.04 |
| 72949 | 'Ccmt2' | 7.27 | 12.85 | 9 | 6.36 | 9.27 | 4.75 | 11.1 | 7.64 | 6.89 | 12.89 |
| 72958 | 'Zfp493' | 0.29 | 0.01 | 0.32 | 0 | 0 | 0.45 | 0.26 | 1.56 | 0.13 | 0.76 |
| 72960 | 'Top1mt' | 14.21 | 30.54 | 21 | 18.6 | 17.5 | 23.58 | 30.3 | 21.09 | 15 | 33.01 |
| 72961 | 'Slc17a7' | 0 | 0 | 0.02 | 0.44 | 0 | 0 | 0 | 0.46 | 0.19 | 0.01 |
| 72962 | 'Tymp' | 2.21 | 1.26 | 1.9 | 1.66 | 1.72 | 2.46 | 1.33 | 1.3 | 3.23 | 1.25 |
| 72972 | 'Ccser2' | 6.61 | 11.97 | 11.6 | 7.23 | 11.5 | 8.81 | 6.89 | 8.21 | 5.83 | 5.41 |
| 72973 | 'Fbxo47' | 0 | 0 | 0 | 0.19 | 0 | 0 | 0 | 0 | 1.11 | 1.85 |
| 72978 | 'Cnih3' | 6.43 | 0 | 0 | 0 | 0.42 | 0 | 0 | 1.42 | 5.99 | 0 |
| 72981 | 'Thap12' | 2.34 | 1.51 | 5.44 | 5.75 | 1.13 | 4.61 | 3.61 | 3.72 | 1.39 | 2.85 |
| 72982 | 'Tmem138' | 29.79 | 32.52 | 21 | 35.5 | 18.8 | 38.8 | 22.3 | 29.7 | 24.75 | 41.69 |
| 72993 | 'Appl1' | 33.14 | 21.38 | 21 | 14.7 | 25.8 | 20.84 | 28.2 | 19.69 | 25.17 | 20.88 |
| 72999 | 'Insig2' | 41.54 | 38.25 | 32.6 | 37.3 | 40.2 | 60.7 | 26.8 | 47.45 | 49.08 | 54.8 |
| 73010 | 'Gpr22' | 5.33 | 4.42 | 5.76 | 0 | 5.96 | 2.12 | 4.58 | 5.59 | 3.08 | 11.47 |
| 73016 | 'Kremen2' | 0 | 3.32 | 7.56 | 1.92 | 0 | 8.73 | 0 | 1.45 | 3.63 | 0.92 |
| 73024 | 'Emc7' | 207.8 | 242.2 | 188 | 148 | 172 | 218.2 | 188 | 233.1 | 226.8 | 278.96 |
| 73032 | 'Ttc9b' | 38.78 | 16.74 | 57.4 | 90 | 80.2 | 14.17 | 46.2 | 29.05 | 63.04 | 33.9 |
| 73046 | 'Glrx5' | 20.57 | 16.73 | 28 | 48.3 | 12.8 | 17.51 | 28.5 | 16.32 | 50.69 | 14.37 |
| 73047 | 'Camk2n2' | 8.58 | 8.99 | 7.54 | 3.41 | 13.2 | 7.04 | 11.4 | 5.5 | 8.28 | 5.71 |
| 73061 | 'Cldn34c1' | 1.5 | 0.17 | 0.22 | 3.18 | 5.73 | 1.41 | 1.91 | 1.41 | 1.04 | 0.32 |
| 73062 | 'Ppp1r16a' | 31.47 | 9.98 | 43.7 | 6.45 | 24.3 | 9.8 | 16.3 | 15.17 | 29.81 | 13.46 |
| 73067 | 'Tmem192' | 29.74 | 9.04 | 19.9 | 54.1 | 37 | 28.88 | 21.8 | 44.98 | 65.17 | 19.26 |
| 73068 | 'Fut11' | 6.12 | 5.33 | 8.88 | 10.2 | 4.83 | 2.29 | 9.44 | 5.04 | 10.01 | 6.04 |
| 73072 | 'Prr36' | 6.16 | 4.4 | 9.46 | 20.9 | 6.4 | 8.91 | 8.06 | 6.53 | 2.35 | 2.64 |
| 73075 | 'Ppil6' | 1.86 | 14.51 | 3.62 | 0.05 | 10.8 | 8.29 | 7.28 | 7.2 | 5.22 | 6.32 |
| 73078 | 'Pmpcb' | 56.26 | 49.55 | 42.4 | 77.3 | 62.3 | 48.69 | 35.3 | 61.07 | 33.8 | 39.06 |
| 73086 | 'Rps6ka5' | 1.41 | 0.1 | 0.09 | 0 | 1.36 | 0.12 | 0.28 | 0.74 | 0.36 | 0.02 |
| 73094 | 'Sgip1' | 14.58 | 13.36 | 15.1 | 7.47 | 16.7 | 10.43 | 15.9 | 11.7 | 25.18 | 13.69 |
| 73095 | 'Slc25a42' | 10.34 | 5.62 | 9.17 | 4.42 | 11.4 | 5.61 | 8.79 | 14.32 | 8.72 | 6.15 |
| 73102 | 'Slc22a23' | 1.34 | 1.53 | 1.44 | 0.03 | 1.64 | 2.66 | 2.3 | 1.5 | 2.58 | 0.77 |
| 73103 | '3110009E18Rik' | 2.96 | 9.9 | 4.61 | 3.67 | 0.1 | 12.98 | 4.88 | 1.57 | 8.33 | 8.8 |
| 73106 | 'Prss57' | 0 | 0 | 0 | 1.29 | 4.33 | 0 | 0 | 0.53 | 0 | 1.62 |
| 73112 | 'Abracl' | 8.58 | 6.05 | 5.21 | 7.15 | 12.1 | 20.45 | 12 | 12.86 | 13.37 | 15 |
| 73121 | 'Rflna' | 0 | 0 | 3.09 | 3.73 | 2.05 | 0 | 0 | 0 | 0 | 0 |
| 73122 | 'Tgfbrap1' | 2.15 | 0.88 | 0.3 | 1.26 | 2.86 | 1.1 | 0.56 | 0.42 | 1.71 | 0.26 |
| 73124 | 'Golim4' | 0.07 | 2.08 | 3.73 | 0 | 1.58 | 1.48 | 2.79 | 0.7 | 0.44 | 1.4 |
| 73130 | 'Tmed5' | 21.24 | 33.28 | 11.1 | 8.98 | 9.9 | 22.66 | 24.8 | 12.11 | 18.01 | 27.27 |
| 73132 | 'Slc25a16' | 0.1 | 0 | 0 | 10.7 | 2.64 | 0.08 | 1.97 | 0.07 | 6.22 | 0.2 |
| 73137 | 'Prrc1' | 5.87 | 4.42 | 6.88 | 8.59 | 3.11 | 4.11 | 1.86 | 5.4 | 10.34 | 5.75 |
| 73139 | 'Cenpv' | 9.98 | 3.5 | 1.97 | 8.59 | 3.81 | 4.95 | 0.05 | 1.86 | 1.42 | 2.65 |
| 73149 | 'Clec4a3' | 0 | 0 | 0 | 0 | 0 | 3.54 | 0 | 0 | 0 | 0 |
| 73158 | 'Larp1' | 7.15 | 3.32 | 3.73 | 4.57 | 6.11 | 2.57 | 5.25 | 3.49 | 4.78 | 3.39 |
| 73162 | 'Otud3' | 0 | 0.14 | 1.68 | 4.99 | 0 | 0 | 0 | 0 | 0.03 | 0 |
| 73166 | 'Tm7sf2' | 7.83 | 6.45 | 15.2 | 0.04 | 20.2 | 8.43 | 22.5 | 24.24 | 5.06 | 13.83 |
| 73167 | 'Arhgap8' | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 3.63 | 0 |
| 73172 | 'Exo5' | 3.64 | 6.25 | 1.45 | 0 | 5.19 | 8.41 | 13.6 | 2.02 | 9.05 | 12.21 |
| 73173 | 'Pcdh18' | 0.03 | 6.45 | 2.3 | 0.01 | 2.48 | 0 | 13.1 | 3.79 | 3.43 | 2.14 |
| 73174 | 'Tbkbp1' | 3.43 | 0.53 | 1.58 | 5.23 | 0.5 | 1.46 | 3.62 | 0.75 | 3.58 | 1.16 |
| 73176 | '3110040M04Rik' | 0 | 0 | 0 | 4.36 | 0 | 0 | 0.26 | 0 | 0 | 1.13 |
| 73178 | 'Wasl' | 19.01 | 19.27 | 23.6 | 26.4 | 20.1 | 31.55 | 12.7 | 12.14 | 16.43 | 7.38 |

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|--------|-------------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 73181 | 'Nfatc4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.77 |
| 73182 | 'Pear1' | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73191 | 'Fezf1' | 22.34 | 7.21 | 0.02 | 0.02 | 23.6 | 38.29 | 33.7 | 0.11 | 3.36 | 11.82 |
| 73192 | 'Xpot' | 8.99 | 10.39 | 9.2 | 2.71 | 4.94 | 3.45 | 6.36 | 5.68 | 7.56 | 8.69 |
| 73205 | 'C9orf72' | 7.45 | 8.49 | 8.05 | 3.79 | 14.6 | 9.74 | 22.4 | 18.74 | 10.51 | 14.58 |
| 73212 | '3110082I17Rik' | 46.88 | 23.93 | 21.4 | 28.5 | 31.5 | 29.65 | 20.3 | 21.03 | 25.22 | 20.92 |
| 73218 | 'Sppl2b' | 15.32 | 8.59 | 23 | 10.1 | 8.04 | 12.96 | 18.2 | 13.34 | 0.21 | 4.18 |
| 73225 | 'Fam118a' | 22.31 | 20.66 | 9.86 | 59.9 | 34.2 | 15.78 | 21.7 | 24.2 | 12.88 | 23.58 |
| 73229 | 'Zfp983' | 8.57 | 5.35 | 10.1 | 0.01 | 11.2 | 10.27 | 5.98 | 10.88 | 11.02 | 13.13 |
| 73230 | 'Bmper' | 0.19 | 0 | 8.33 | 0 | 0.01 | 0.4 | 2.88 | 2.36 | 5.86 | 0 |
| 73233 | 'Zfp942' | 2.93 | 3.44 | 4.47 | 5.91 | 3.38 | 0.8 | 7.67 | 5.55 | 9.69 | 8.28 |
| 73234 | 'Snorc' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.21 |
| 73242 | 'Atat1' | 54.01 | 35.76 | 57 | 68.5 | 54 | 57.38 | 43.4 | 56.51 | 40.17 | 40.15 |
| 73246 | 'Rassf6' | 0 | 0 | 0 | 0 | 4.54 | 7.1 | 0 | 0 | 2.24 | 0.84 |
| 73247 | 'Mrgbp' | 5.44 | 0.97 | 10.8 | 9.49 | 1.73 | 0.68 | 0.11 | 7.84 | 4.94 | 0.02 |
| 73251 | 'Setd7' | 0.98 | 0.96 | 1.05 | 2.21 | 1.68 | 0.07 | 0.16 | 0.4 | 0.73 | 0.41 |
| 732521 | 'Gt(pU21)140Imeg' | 0 | 0.04 | 0.01 | 0.06 | 0.01 | 1.28 | 0 | 0 | 0.02 | 0.06 |
| 73254 | 'Ccdc18' | 0 | 0 | 0.37 | 0 | 1.34 | 0 | 0 | 0 | 0 | 0 |
| 73259 | 'Cib4' | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73261 | '1700037C18Rik' | 8.09 | 7.21 | 12.9 | 9.01 | 10 | 24.35 | 10.7 | 9.53 | 20.65 | 26.18 |
| 73274 | 'Gbbp1' | 32.01 | 41.33 | 18.8 | 23.5 | 20.9 | 14.39 | 41.5 | 25.51 | 29.72 | 28.22 |
| 73284 | 'Ddit4l' | 1.67 | 2.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| 73287 | 'Cabco1' | 6.68 | 2.58 | 0 | 0.05 | 3.54 | 0 | 4.84 | 2.32 | 0 | 2.4 |
| 73288 | 'Vps50' | 15.71 | 23.1 | 22.2 | 22.8 | 19.9 | 6.92 | 33.4 | 15.47 | 20.77 | 30.69 |
| 73293 | 'Ccdc103' | 1.87 | 2.55 | 4.3 | 2.39 | 5.66 | 4.92 | 4.7 | 4.59 | 7 | 3.26 |
| 73296 | 'Rhobtb3' | 1.58 | 0.74 | 1.88 | 1.61 | 3.86 | 1.19 | 2.77 | 2.13 | 3.33 | 1.14 |
| 73314 | 'Lrrc69' | 1.02 | 1.39 | 1.14 | 1.78 | 1.51 | 1.17 | 0.46 | 0.89 | 1.57 | 0.86 |
| 73316 | 'Calr3' | 4.81 | 3.07 | 4.35 | 0 | 0.92 | 0.81 | 0 | 2.02 | 2.3 | 6.93 |
| 73318 | 'Ube2d2b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.13 |
| 73324 | 'Clhc1' | 0 | 0.02 | 0.13 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73327 | 'Pradc1' | 0 | 9.15 | 7.49 | 0 | 16.9 | 0 | 15.8 | 6.66 | 0 | 0.05 |
| 73332 | 'Ccdc30' | 19.22 | 20.75 | 23.7 | 17.1 | 14.1 | 32.67 | 8.07 | 12.31 | 8.53 | 13.23 |
| 73338 | 'Itpril1' | 0 | 0 | 10.6 | 2.46 | 1.02 | 3.73 | 0 | 2.19 | 4.18 | 1.36 |
| 73340 | 'Nptxr' | 1.81 | 0.6 | 0 | 0 | 0.64 | 1.42 | 0.1 | 0.55 | 0.07 | 0 |
| 73341 | 'Arhgef6' | 0 | 0.85 | 4.93 | 3.2 | 1.42 | 0.15 | 3.13 | 2.21 | 0.01 | 1.6 |
| 73363 | '1700056E22Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 4.78 | 0 | 0 | 0 |
| 73368 | 'Col20a1' | 0 | 0 | 0 | 0.22 | 0.01 | 0.03 | 1.26 | 0 | 0 | 0.01 |
| 73373 | 'Phospho2' | 20.07 | 39.03 | 13.5 | 36.9 | 17.1 | 23.66 | 12.9 | 22.98 | 24.66 | 39.56 |
| 73379 | 'Dcbl2' | 1.38 | 1.86 | 0.03 | 1.49 | 1.86 | 1.28 | 4.45 | 0.39 | 0.3 | 0.1 |
| 73381 | 'Cmtm2a' | 0.17 | 0 | 0 | 0 | 0.8 | 0 | 0 | 0 | 0 | 0.41 |
| 73385 | 'Fam177a' | 37.37 | 39.97 | 30.8 | 25.4 | 27 | 26.81 | 25.2 | 28.63 | 27.96 | 16.73 |
| 73389 | 'Hbp1' | 14.69 | 17.74 | 16.7 | 31.5 | 15.6 | 18.85 | 24.9 | 9.37 | 14.94 | 36.15 |
| 73390 | 'Msl3l2' | 1.46 | 3.14 | 3.37 | 10.7 | 5.61 | 0.23 | 7.67 | 3.56 | 3.26 | 9.57 |
| 73398 | 'Nipsnap3a' | 0 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73407 | 'Tepp' | 5.28 | 1.11 | 5.43 | 3.88 | 1.63 | 6.54 | 0 | 3.63 | 0 | 0.08 |
| 73410 | '1700065D16Rik' | 0 | 0.1 | 0 | 0 | 0.1 | 1.68 | 0 | 0 | 0.28 | 0 |
| 73419 | 'Armt1' | 6.14 | 5.84 | 9.9 | 6.87 | 0.09 | 11.43 | 32.6 | 6.93 | 4.16 | 3.11 |
| 73420 | 'Ccsap' | 1.95 | 3.11 | 1.95 | 2.43 | 1.34 | 0.51 | 0.71 | 1.35 | 0.45 | 0.21 |
| 73422 | 'Prox2' | 0.05 | 0.04 | 0 | 0 | 0.53 | 0 | 0 | 0 | 0.03 | 1.29 |
| 73430 | 'Zfp974' | 1 | 0.14 | 0.1 | 2.49 | 1.45 | 1.96 | 0.3 | 1.53 | 1.71 | 2.29 |
| 73442 | 'Hspa12a' | 6.78 | 7.88 | 18.2 | 10.9 | 8.01 | 7.64 | 28.4 | 15.33 | 6.55 | 7.42 |
| 73447 | 'Wdr13' | 7.85 | 14.11 | 16.8 | 20.1 | 14.1 | 5.13 | 11.8 | 7.55 | 24.68 | 17.27 |
| 73449 | '1700066B19Rik' | 0 | 0 | 0.04 | 0 | 3.09 | 4.06 | 0 | 0.49 | 1.31 | 3.05 |
| 73451 | 'Zfp763' | 8 | 1.53 | 8.48 | 10.4 | 7.49 | 1.42 | 0.03 | 14.05 | 5.55 | 5.28 |
| 73453 | '1700067K01Rik' | 0 | 0.4 | 0 | 0 | 0 | 0.04 | 0 | 0.08 | 0 | 0 |
| 73458 | 'Aldh3b3' | 0 | 0.42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73467 | '1700066M21Rik' | 9.53 | 8.59 | 8.68 | 4.56 | 4.67 | 4.21 | 24.8 | 4.01 | 14.57 | 2.66 |
| 73469 | 'Rnf38' | 2.45 | 1.97 | 2.97 | 1.08 | 4.49 | 1.12 | 0.77 | 1.91 | 5.07 | 5.05 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 73470 | 'Kif2b' | 0 | 0 | 1.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73473 | 'lws1' | 13.39 | 7.86 | 9.62 | 23.4 | 7.36 | 18.31 | 7.76 | 8.77 | 8.9 | 5.88 |
| 73490 | 'Mipol1' | 2.07 | 2.74 | 5.18 | 0 | 6.89 | 1.7 | 3.2 | 3.97 | 5.6 | 0.33 |
| 73523 | 'Pebp4' | 1.67 | 0 | 0 | 0 | 0 | 0.3 | 0 | 0 | 2.23 | 0 |
| 73526 | 'Speer4b' | 0 | 0.2 | 0 | 0 | 1.3 | 0.09 | 0 | 0.32 | 0.02 | 0.16 |
| 73533 | '1700080G18Rik' | 0 | 0.6 | 0 | 0 | 2.11 | 0 | 0 | 0 | 0.6 | 0 |
| 73545 | '1700094D03Rik' | 2.83 | 5.21 | 3.26 | 0.1 | 0.64 | 3.66 | 2.28 | 1.72 | 6.08 | 0.55 |
| 73569 | 'Vgll3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.69 | 0 | 0.01 |
| 73582 | 'Camkmt' | 21.39 | 28.27 | 21.7 | 3.55 | 20.1 | 17.31 | 10.2 | 19.2 | 31.71 | 42.63 |
| 73598 | '1700001O22Rik' | 0 | 0 | 2.41 | 0 | 1.1 | 4.62 | 3.03 | 3.01 | 6.31 | 4.32 |
| 73603 | 'Trp53tg5' | 0 | 0.32 | 0 | 0 | 1.53 | 0 | 0.02 | 0 | 0.71 | 0 |
| 73608 | 'Marveld3' | 0 | 2.23 | 0 | 0 | 1.94 | 0 | 1.87 | 0.65 | 4.78 | 0 |
| 73610 | 'Zfp433' | 5.28 | 1.98 | 0 | 8.28 | 9.65 | 0 | 0 | 6.82 | 0.7 | 4.44 |
| 73634 | '1700125H20Rik' | 0.01 | 0 | 1.3 | 0.04 | 0.02 | 0.03 | 0.86 | 0.01 | 0.04 | 0.02 |
| 73635 | 'Ptges3l' | 2.94 | 1.5 | 0.38 | 1.66 | 0.03 | 2.69 | 8.51 | 3.88 | 4.17 | 4.62 |
| 73647 | 'Capn9' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 |
| 73649 | 'Cybrd1' | 0.21 | 0.43 | 0.42 | 0.72 | 0.26 | 0.4 | 0.38 | 0.15 | 0.3 | 0.26 |
| 73656 | 'Ms4a6c' | 4.29 | 1.72 | 3.59 | 3.45 | 3.03 | 1.89 | 0.8 | 0.82 | 1.95 | 1.1 |
| 73658 | 'Spns1' | 22.33 | 33.36 | 48.4 | 6.4 | 27.8 | 36.31 | 29.7 | 34.64 | 24.61 | 24.49 |
| 73660 | 'Cabp4' | 0 | 2.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 |
| 73666 | 'Thoc3' | 63.62 | 40.17 | 37.1 | 89.5 | 49 | 54.14 | 50.5 | 40.37 | 39.73 | 44.43 |
| 73667 | '2410004P03Rik' | 0.03 | 13.66 | 3.54 | 6.12 | 3.25 | 0 | 0.06 | 5.72 | 0.02 | 2.35 |
| 73668 | 'Ttc21b' | 5.32 | 4.17 | 5.31 | 0 | 6.67 | 5.38 | 0.4 | 4.33 | 2.98 | 2.4 |
| 73671 | 'Sult6b1' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0.02 | 0 |
| 73673 | 'Rec114' | 0 | 0 | 6.09 | 2.07 | 2.27 | 0 | 5.22 | 0 | 0 | 0 |
| 73674 | 'Wdr75' | 13.3 | 10.97 | 17.7 | 17.9 | 24 | 21.51 | 8.79 | 32.23 | 35.28 | 19.11 |
| 73677 | 'Psm8' | 0.34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73680 | 'Zbtb8a' | 3.16 | 0 | 0.94 | 0.08 | 1.23 | 0 | 0.29 | 0.05 | 2.44 | 4.07 |
| 73681 | 'Trmt11' | 11.07 | 5.91 | 5.47 | 10.4 | 8.23 | 9.64 | 4.87 | 11.48 | 14.11 | 8.66 |
| 73683 | 'Atg16l2' | 10.98 | 14.08 | 29.4 | 18.5 | 12 | 33.6 | 20.1 | 21.06 | 10.42 | 27.55 |
| 73689 | 'Bloc1s2' | 125.7 | 95.81 | 90 | 53.4 | 63.1 | 114.6 | 108 | 113.8 | 78.94 | 91.24 |
| 73690 | 'Glipr1' | 0 | 0.1 | 0 | 0 | 0.06 | 7.37 | 0 | 1.51 | 0 | 0 |
| 73692 | 'Cplane1' | 2.57 | 3.07 | 3.48 | 9.88 | 4.11 | 2.87 | 0.58 | 3.35 | 3.09 | 5.39 |
| 73694 | 'Ndufaf7' | 39.85 | 54.37 | 36.5 | 33.6 | 34 | 47.78 | 58.6 | 54.88 | 61.02 | 46.58 |
| 73699 | 'Ppp2r1b' | 4.24 | 2.56 | 13.6 | 6.46 | 0 | 0.06 | 2.97 | 1.26 | 11.97 | 1.1 |
| 73703 | 'Dppa2' | 0 | 0 | 0 | 0 | 0 | 1.08 | 0 | 0 | 0 | 0 |
| 73707 | 'Gucy2g' | 0 | 0.61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73710 | 'Tubb2b' | 46.45 | 32.9 | 47.4 | 14.1 | 39.3 | 48.42 | 37.1 | 48.16 | 44.26 | 44.09 |
| 73711 | 'Mvb12a' | 71.26 | 33.68 | 63.9 | 54.8 | 46.2 | 66.05 | 44 | 44.27 | 47.07 | 43.71 |
| 73712 | 'Dmkn' | 0 | 6.14 | 0 | 10 | 0 | 0 | 0 | 5.36 | 0 | 0 |
| 73713 | 'Rbm20' | 1.75 | 0.17 | 0.04 | 0.02 | 0.94 | 0.01 | 0 | 0.01 | 0.01 | 0.01 |
| 73720 | 'Cst6' | 3.16 | 2.53 | 2.82 | 0 | 2.09 | 2.35 | 5.12 | 0.56 | 3.51 | 4.67 |
| 73721 | '1110017D15Rik' | 31.57 | 24.05 | 2.88 | 61.7 | 10.4 | 42.12 | 10.5 | 14.95 | 26.77 | 13.1 |
| 73723 | 'Sh3bgrl3' | 291 | 276.5 | 263 | 249 | 372 | 530.3 | 386 | 345.9 | 241.2 | 270.67 |
| 73724 | 'Mcee' | 67.43 | 54.14 | 59.1 | 121 | 58.1 | 48.09 | 11.2 | 53.78 | 22.79 | 41.3 |
| 73728 | 'Psd' | 31.92 | 26.03 | 20.5 | 24.8 | 19.5 | 20.07 | 34.4 | 11.99 | 22.56 | 4.66 |
| 73729 | 'Zfp383' | 7.2 | 1.55 | 5.72 | 0 | 3.36 | 3.41 | 3.63 | 5.13 | 7.26 | 6.14 |
| 73730 | 'Lce1l' | 0 | 1.84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73736 | 'Fcf1' | 35.1 | 51.25 | 36.8 | 117 | 63.4 | 84.5 | 42.7 | 47.42 | 55.59 | 66.95 |
| 73737 | '1110008P14Rik' | 142.7 | 121.5 | 117 | 144 | 106 | 103.6 | 66.8 | 154 | 127.9 | 175.6 |
| 73738 | 'Haus7' | 13.57 | 13.95 | 16.9 | 24.4 | 10.9 | 1.45 | 6.64 | 30.73 | 11.35 | 24.03 |
| 73739 | 'Cby1' | 97.63 | 53.33 | 43.9 | 51.3 | 80.7 | 93.33 | 59.4 | 94.78 | 44.62 | 59.62 |
| 73744 | 'Man2c1' | 8.65 | 22.91 | 25.6 | 33.4 | 23.3 | 2.84 | 16.3 | 8.65 | 20.18 | 14.08 |
| 73747 | 'Shld1' | 6.34 | 6.48 | 4.85 | 0 | 10.6 | 4.17 | 25.9 | 0.04 | 24.34 | 7.92 |
| 73750 | 'Whrn' | 8.66 | 0.35 | 1.12 | 0 | 8.98 | 0.01 | 4.16 | 5.86 | 3.32 | 0.51 |
| 73754 | 'Thap1' | 8.93 | 1.95 | 1.9 | 2.6 | 7.76 | 6.99 | 6.75 | 7.71 | 3.56 | 2.1 |
| 73804 | 'Kif2c' | 0 | 0 | 0.46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73813 | 'Fam83e' | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 1.53 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 73822 | 'Mfsd12' | 5.81 | 5.72 | 7.45 | 0.2 | 2.71 | 1.69 | 8.07 | 8.27 | 7.06 | 2.14 |
| 73825 | 'Ppp1r21' | 9.28 | 6.83 | 8.94 | 24.7 | 3.13 | 4.86 | 9.77 | 12.19 | 11.3 | 7.39 |
| 73826 | 'Poldip3' | 26.43 | 24.66 | 33.9 | 21.9 | 21.7 | 21.66 | 23.6 | 19.96 | 23.82 | 19.73 |
| 73827 | 'Tmem198b' | 2.82 | 0.34 | 7.72 | 2.47 | 2.01 | 4.56 | 5.32 | 5.18 | 4.19 | 0.14 |
| 73828 | 'Dcaf4' | 11.51 | 24.38 | 29.5 | 18.4 | 23.1 | 37.39 | 33.6 | 32 | 18.16 | 16.07 |
| 73830 | 'Eif3k' | 155.6 | 192.9 | 182 | 261 | 226 | 280.4 | 163 | 186.1 | 184 | 187.03 |
| 73833 | 'Fam98c' | 15.74 | 24.64 | 29.7 | 0 | 23.1 | 20.74 | 16 | 12.54 | 10.07 | 2.82 |
| 73834 | 'Atp6v1d' | 299.4 | 316.8 | 325 | 295 | 327 | 296.7 | 294 | 391.5 | 349.1 | 343.79 |
| 73836 | 'Slc35b2' | 30.63 | 21.59 | 46.6 | 9.68 | 20.9 | 15.01 | 45.8 | 20.21 | 30.16 | 13.68 |
| 73844 | 'Ankrd45' | 11.26 | 18.39 | 8.21 | 6.9 | 8.69 | 5.78 | 4.65 | 6.77 | 8.22 | 9.26 |
| 73845 | 'Ankrd42' | 6.82 | 4.69 | 7.77 | 8.63 | 10.3 | 11.22 | 23.9 | 7.63 | 12.09 | 20.66 |
| 73847 | 'Fam110a' | 17.83 | 25.07 | 28.2 | 10.9 | 4.01 | 28.14 | 24.2 | 22.26 | 22.35 | 23.17 |
| 73852 | 'D3Ert751e' | 11.99 | 14.21 | 21.4 | 0.96 | 21 | 11.43 | 22.1 | 14.26 | 15.61 | 27.09 |
| 73863 | '4930415O20Rik' | 0 | 0.28 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0.08 | 0 |
| 73873 | 'Fam161a' | 3.94 | 3.87 | 0.73 | 1.17 | 0.71 | 3.62 | 5.13 | 1.46 | 1.9 | 3.6 |
| 73884 | 'Zdbf2' | 3.11 | 2.24 | 2.41 | 3.38 | 1.34 | 3.46 | 2.7 | 0.98 | 5.54 | 2.76 |
| 73893 | 'Tmem202' | 3.95 | 6.34 | 0 | 10.1 | 0 | 14.44 | 7.89 | 4.44 | 4.72 | 1.51 |
| 73902 | 'Psemb11' | 0.01 | 0.01 | 0.09 | 0.2 | 0.06 | 0.1 | 0.03 | 0.03 | 0.1 | 0.05 |
| 73910 | 'Arhgap18' | 0.07 | 5.34 | 0.88 | 7.4 | 0.51 | 1.49 | 2.33 | 4.53 | 0.32 | 3.05 |
| 73916 | 'Ift57' | 11.6 | 4.21 | 4.35 | 17.3 | 9.62 | 7.98 | 3.57 | 9.1 | 10.42 | 3.37 |
| 73919 | 'Lymr1' | 28.33 | 17.31 | 17.6 | 14.1 | 35 | 9.46 | 24.4 | 30.88 | 30.91 | 18.68 |
| 73936 | 'Ccdc175' | 0 | 0 | 0 | 0 | 2.49 | 0 | 0 | 0 | 0 | 0 |
| 73940 | 'Hapl2' | 3.65 | 6.19 | 2.3 | 0.03 | 10.1 | 25.88 | 2.93 | 0 | 1.48 | 1.87 |
| 73942 | 'Fam151b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 73945 | 'Otud4' | 2.38 | 1.39 | 2.43 | 3.99 | 4.72 | 0.77 | 3.24 | 1.34 | 1.64 | 0.65 |
| 73991 | 'Atf1' | 91.09 | 80.86 | 69.1 | 27.5 | 49.1 | 54.25 | 48.1 | 72.27 | 70.3 | 47.14 |
| 73998 | 'Herc3' | 11.58 | 8.67 | 3.05 | 13.5 | 14.2 | 7.48 | 8.42 | 10.84 | 6.84 | 12.77 |
| 74002 | 'Psd2' | 7.97 | 11.21 | 19.5 | 17.5 | 15.7 | 7.45 | 9.65 | 5.84 | 10.77 | 3.45 |
| 74004 | 'Jakmp3' | 1.06 | 5.06 | 1.55 | 0.07 | 0.67 | 3.1 | 3.31 | 1.72 | 2.05 | 2.64 |
| 74006 | 'Dnm1l' | 65.41 | 40.27 | 77 | 80.3 | 34.7 | 42.1 | 65.7 | 54.89 | 73.04 | 72.2 |
| 74007 | 'Btbd11' | 13.33 | 7.25 | 5.22 | 6.09 | 5.82 | 0.58 | 12.8 | 7.53 | 15.88 | 8.01 |
| 74008 | 'Arsg' | 0 | 8.95 | 4 | 7.69 | 4.05 | 9.36 | 4.63 | 0.38 | 6.57 | 1.14 |
| 74011 | 'Slc25a27' | 14.36 | 20.44 | 24.9 | 9.13 | 17.8 | 9.41 | 11.8 | 20.89 | 35.05 | 2.65 |
| 74012 | 'Rap2b' | 10.86 | 10.55 | 9.1 | 14.8 | 13.5 | 9.74 | 10.4 | 10.6 | 4.22 | 5.34 |
| 74013 | 'Rftn2' | 5.65 | 0 | 4.26 | 6.5 | 0.02 | 3.53 | 10 | 6.09 | 6.39 | 0.13 |
| 74015 | 'Fcho1' | 33.02 | 24.32 | 18.8 | 4.61 | 35.9 | 21.91 | 35.2 | 32.24 | 50.69 | 21.02 |
| 74016 | 'Phf19' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74018 | 'Als2' | 1.47 | 4.24 | 4.69 | 8.95 | 1.9 | 3.37 | 4.56 | 0.72 | 3.02 | 1.3 |
| 74019 | 'Traf3ip1' | 1.58 | 5.31 | 1.9 | 9.54 | 2.4 | 0.02 | 1.4 | 3.08 | 4.92 | 0.92 |
| 74020 | 'Cpne4' | 11.04 | 5.48 | 18.9 | 6.45 | 8.78 | 7.59 | 0 | 4.84 | 0.01 | 2.55 |
| 74022 | 'Glyr1' | 61.84 | 52.97 | 86.3 | 36.3 | 35.5 | 29.75 | 72.2 | 49.78 | 54.54 | 59.57 |
| 74023 | 'Rd3' | 0 | 1.56 | 0 | 0 | 24.3 | 0 | 0 | 0.12 | 0 | 0 |
| 74025 | 'Nphp3' | 0.86 | 0.05 | 0.58 | 3.32 | 2.27 | 4.01 | 0.77 | 0.38 | 1.36 | 0.76 |
| 74026 | 'Msl1' | 5.01 | 13.57 | 5.53 | 12.1 | 8.94 | 13.99 | 3.42 | 5.18 | 9.84 | 5.76 |
| 74030 | 'Rin2' | 2.85 | 1.53 | 2.62 | 3.03 | 4.09 | 0.8 | 17.6 | 2.03 | 0.28 | 0 |
| 74032 | 'Sdr42e1' | 0 | 13.66 | 9.28 | 0 | 4.81 | 11.45 | 10 | 16.82 | 0 | 6.3 |
| 74035 | 'Nol9' | 3.24 | 1.51 | 3.03 | 0.07 | 0.11 | 8.37 | 3.47 | 2.61 | 4.86 | 1.56 |
| 74039 | 'Nfam1' | 0.02 | 0 | 0.04 | 0.04 | 0 | 1.55 | 0 | 0 | 0 | 0.01 |
| 74041 | 'Ddias' | 0 | 0 | 0 | 0 | 0 | 0.63 | 0 | 0 | 0 | 0 |
| 74043 | 'Pex26' | 1.67 | 4.84 | 1.89 | 0.02 | 2.09 | 0 | 4.42 | 3.33 | 5.24 | 1.66 |
| 74044 | 'Ttf2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.64 | 1.89 | 0 |
| 74048 | 'Vsir' | 0 | 0.83 | 3.07 | 0 | 1.19 | 4.31 | 0 | 0 | 1.07 | 0 |
| 74051 | 'Steap2' | 1.13 | 0.29 | 5.5 | 2.27 | 0.09 | 0.51 | 1.82 | 2.08 | 0.48 | 1.46 |
| 74052 | 'Ttc21a' | 1.14 | 0 | 0 | 2.17 | 0 | 0.97 | 0.19 | 0.34 | 0 | 0 |
| 74053 | 'Grip1' | 1.74 | 2.81 | 3.5 | 0.72 | 4.54 | 2.94 | 4.59 | 4.44 | 4.96 | 0.89 |
| 74055 | 'Plce1' | 0.02 | 0.83 | 0 | 0 | 0 | 0 | 0.82 | 0 | 0 | 0.32 |
| 74071 | 'Lmntd1' | 0.02 | 0.03 | 1.81 | 0 | 0 | 0 | 0 | 0 | 0 | 1.29 |
| 74075 | 'Syce1' | 0 | 0 | 0 | 8.63 | 0 | 0.41 | 0 | 0 | 0 | 0 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 74080 | 'Nmnat3' | 10.86 | 3.14 | 0 | 0.39 | 0 | 4.21 | 0 | 5.25 | 6.45 | 2.6 |
| 74081 | 'Cep350' | 0 | 1.26 | 1.28 | 3.14 | 1.66 | 0.12 | 1.23 | 0.85 | 1.06 | 0.8 |
| 74090 | 'Paqr5' | 0 | 0 | 0 | 5.97 | 0 | 0 | 0 | 0 | 0.79 | 0.41 |
| 74091 | 'Npl' | 2.78 | 6.02 | 0 | 1.32 | 0 | 5.24 | 3.84 | 3.81 | 0 | 3.4 |
| 74094 | 'Tjap1' | 7.22 | 5.78 | 5.53 | 0.02 | 2.3 | 7.35 | 9.11 | 8.04 | 4.36 | 0.77 |
| 74096 | 'Hvcn1' | 0.02 | 0.21 | 0 | 0 | 1.46 | 4.75 | 0 | 0 | 0.09 | 0 |
| 74097 | 'Pop7' | 54.96 | 55.5 | 47.4 | 41.1 | 75 | 46.67 | 49.3 | 62.38 | 25.67 | 68.69 |
| 74098 | '0610037L13Rik' | 45.06 | 40.53 | 53.8 | 41.8 | 60.9 | 34.79 | 76.9 | 50.49 | 33.62 | 68.28 |
| 74100 | 'Arpp21' | 15.07 | 13.95 | 8.48 | 18.1 | 56 | 28.35 | 23.4 | 29.72 | 8.24 | 4.62 |
| 74102 | 'Slc35a5' | 8.95 | 6.67 | 6.91 | 4.56 | 5.46 | 6.75 | 7.64 | 13.26 | 17.49 | 16.03 |
| 74103 | 'Nebi' | 18.23 | 8.37 | 20.2 | 20.8 | 8.45 | 6.07 | 14.4 | 5.61 | 11.7 | 4.67 |
| 74104 | 'Abcb6' | 5.96 | 14.88 | 17.7 | 0 | 11.2 | 19.36 | 8.22 | 13.42 | 8.14 | 16.91 |
| 74105 | 'Gga2' | 2.16 | 3.44 | 1.39 | 4.96 | 4.98 | 4.45 | 5.09 | 7.12 | 7.01 | 3.99 |
| 74106 | 'Dcaf6' | 5.97 | 8.05 | 4.95 | 0.56 | 6.17 | 1.59 | 4.51 | 6.73 | 1.09 | 1.23 |
| 74107 | 'Cep55' | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74108 | 'Parn' | 8.24 | 24.36 | 24.1 | 19.1 | 14.3 | 10.43 | 20.7 | 16.5 | 19.53 | 24.61 |
| 74111 | 'Rbm19' | 1.6 | 2.46 | 1.21 | 4.37 | 3.39 | 2.01 | 7.36 | 1.48 | 9.77 | 4.02 |
| 74112 | 'Usp16' | 6.73 | 4.5 | 5.22 | 13.2 | 5.71 | 5.74 | 9.77 | 5.54 | 7.3 | 12.65 |
| 74114 | 'Crot' | 10.06 | 5.24 | 15.9 | 0 | 3.07 | 14.84 | 10.9 | 9.9 | 20.49 | 10.55 |
| 74116 | 'Pi16' | 19.56 | 21.69 | 14.5 | 11.3 | 12.5 | 32.12 | 3.45 | 12.38 | 14.06 | 32.65 |
| 74117 | 'Actr3' | 52.62 | 44.93 | 46.7 | 53.7 | 49 | 32.24 | 45.6 | 58.19 | 50.22 | 74.21 |
| 74120 | 'Zfp263' | 6.52 | 22.86 | 18.5 | 5.76 | 30.3 | 7.55 | 5.02 | 16.61 | 23.99 | 11.58 |
| 74121 | 'Acox1' | 0 | 0 | 0 | 0.43 | 0 | 0 | 0 | 0.31 | 0 | 0 |
| 74122 | 'Tmem43' | 21.79 | 34.84 | 31.6 | 33.7 | 20.5 | 17.91 | 25.4 | 39.05 | 30.68 | 52 |
| 74123 | 'Foxp4' | 6.73 | 10.18 | 16.6 | 5 | 4.44 | 4.29 | 7.6 | 10.2 | 23.87 | 1.5 |
| 74125 | 'Armc8' | 53.13 | 45.82 | 37.1 | 42.2 | 18.1 | 34.65 | 16.3 | 39.41 | 55.52 | 43.86 |
| 74126 | 'Syvn1' | 7.24 | 11.05 | 9.24 | 10.8 | 13.4 | 6.17 | 9.46 | 13.49 | 18.87 | 15.97 |
| 74129 | 'Dmgdh' | 0 | 1.37 | 0 | 0 | 0 | 0 | 0.27 | 0.11 | 0 | 0.2 |
| 74131 | 'Sash3' | 1.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74132 | 'Rnf6' | 33.95 | 47.21 | 28.8 | 28.5 | 27.6 | 54.66 | 35 | 42.74 | 34.47 | 37.64 |
| 74133 | 'Smg8' | 1.82 | 6.15 | 5.26 | 0 | 4.73 | 4.53 | 7.07 | 3.37 | 3.5 | 8.22 |
| 74134 | 'Cyp2s1' | 2.84 | 0 | 8.41 | 0.02 | 0 | 6.05 | 0 | 1.97 | 0 | 0 |
| 74136 | 'Sec14l1' | 4.61 | 8.25 | 4.5 | 3.85 | 1.5 | 5.68 | 7.81 | 7.26 | 2.2 | 7.04 |
| 74137 | 'Nuak2' | 0 | 1.78 | 0 | 0 | 0 | 2.15 | 0 | 1.93 | 5.49 | 0 |
| 74140 | 'Tm9sf1' | 15.54 | 22.94 | 39 | 4.77 | 26.5 | 19.88 | 21.3 | 18.28 | 33.69 | 22.8 |
| 74142 | 'Lonp1' | 8.83 | 9.47 | 6.39 | 21.4 | 24.6 | 8.2 | 8.39 | 10.54 | 7.26 | 17.3 |
| 74143 | 'Opa1' | 9.5 | 6.54 | 13.7 | 2.45 | 4.6 | 2.37 | 12.9 | 7.48 | 7.92 | 14.08 |
| 74147 | 'Ehhadh' | 0.02 | 0 | 0 | 0 | 0 | 0.02 | 4.85 | 0 | 0 | 0.94 |
| 74148 | 'Cluh' | 8.02 | 5.34 | 19.8 | 8.66 | 6.82 | 5.07 | 0.44 | 5.16 | 7.8 | 2.95 |
| 74149 | 'Zfp946' | 6.7 | 6.14 | 7.84 | 0 | 6.46 | 3.16 | 6.78 | 13.38 | 2.14 | 8.06 |
| 74150 | 'Slc35f5' | 19.36 | 15.54 | 9.64 | 10.4 | 4.2 | 13.02 | 16.1 | 22.47 | 4.57 | 18.57 |
| 74152 | 'Stra6l' | 0 | 0 | 0 | 0.02 | 0 | 0 | 8.23 | 0 | 0 | 0.01 |
| 74153 | 'Uba7' | 0 | 0 | 0 | 0 | 0 | 10.29 | 0.2 | 0 | 0 | 2.62 |
| 74154 | 'Unkl' | 20.31 | 10.23 | 11.4 | 5.86 | 14.5 | 3.2 | 10.9 | 13.71 | 19.42 | 26.12 |
| 74155 | 'Errfi1' | 10.79 | 15.55 | 16.1 | 10.4 | 14.5 | 15.12 | 19.4 | 11.04 | 3.23 | 5.48 |
| 74156 | 'Acot12' | 0 | 1.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74157 | 'Cmtr1' | 42.06 | 44.58 | 52.6 | 42.7 | 26.9 | 23.29 | 42.3 | 36.34 | 54.36 | 47.28 |
| 74158 | 'Josd1' | 4.66 | 1.92 | 1.29 | 4.36 | 7.92 | 1.01 | 5.26 | 5.41 | 5.38 | 10.01 |
| 74159 | 'Acbd5' | 15.31 | 12.64 | 16.8 | 5.12 | 13.4 | 9.76 | 12.7 | 7.53 | 11.26 | 14.18 |
| 74164 | 'Nfx1' | 30.45 | 37.69 | 38.4 | 32.7 | 23.6 | 22.01 | 50.9 | 25.63 | 32 | 31.74 |
| 74165 | 'Fbxl22' | 3.01 | 0.36 | 0.06 | 0 | 3.61 | 0.04 | 0.03 | 0.5 | 0.01 | 0.5 |
| 74166 | 'Tmem38a' | 16.94 | 42.04 | 70.9 | 6.78 | 26 | 36.14 | 37 | 42.78 | 36.3 | 40.4 |
| 74167 | 'Nudt9' | 39.6 | 22.03 | 19 | 40.8 | 18.1 | 12.81 | 17.7 | 17.32 | 26.79 | 25.15 |
| 74168 | 'Zdhhc16' | 27.48 | 14.94 | 15.8 | 25.8 | 24.8 | 21.55 | 42.7 | 29.54 | 9.31 | 34.85 |
| 74174 | 'Gtsf1' | 0 | 0 | 0.29 | 0 | 0 | 0 | 3.4 | 0 | 0 | 0 |
| 74178 | 'Stk40' | 0.14 | 3.4 | 4.26 | 5.34 | 1.9 | 0 | 1.45 | 0.31 | 0.01 | 0.19 |
| 74180 | 'Muc5b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74182 | 'Gpcpd1' | 13.99 | 15.19 | 22.2 | 8.95 | 18.5 | 11.69 | 5.22 | 22.29 | 21.33 | 31.03 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 74183 | 'Perm1' | 0.3 | 0.22 | 1.19 | 0.01 | 1.55 | 0.24 | 0.08 | 0 | 0.46 | 1.15 |
| 74185 | 'Gbe1' | 1.88 | 7.33 | 4.83 | 0 | 2.35 | 0.8 | 2.74 | 4.69 | 2.21 | 9.5 |
| 74186 | 'Ccadc3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.96 | 0 | 0.02 |
| 74187 | 'Katnb1' | 36.72 | 24.3 | 46.9 | 44 | 17.2 | 22.62 | 36.5 | 32.1 | 57.47 | 44.83 |
| 74189 | 'Phactr3' | 11.95 | 17.94 | 12.5 | 26 | 10.7 | 9.97 | 10.7 | 18.99 | 13.13 | 10.65 |
| 74190 | 'Exoc3l4' | 1.54 | 2.88 | 0 | 2.77 | 0 | 2.82 | 2.4 | 1.01 | 0.38 | 5.08 |
| 74191 | 'P2ry13' | 0 | 0 | 0 | 0 | 0 | 17.05 | 0 | 0 | 0 | 0 |
| 74192 | 'Arpc5l' | 123.2 | 143.9 | 122 | 195 | 215 | 237.5 | 164 | 206.6 | 175.3 | 188.6 |
| 74194 | 'Rnd3' | 9.85 | 10.18 | 9.87 | 36 | 2.33 | 6.57 | 7.01 | 11.61 | 10.07 | 3.9 |
| 74195 | 'Elp3' | 45.42 | 51.88 | 53.6 | 43.6 | 40.7 | 38.36 | 49.5 | 46.23 | 52.6 | 46.16 |
| 74196 | 'Ttc27' | 2.14 | 12.9 | 8.6 | 0.71 | 12.1 | 7.08 | 4.69 | 9.72 | 0.03 | 7.21 |
| 74197 | 'Gtf2e1' | 2.58 | 9.69 | 7.36 | 13.3 | 14.9 | 1.26 | 7.2 | 3.83 | 8.7 | 7.67 |
| 74198 | 'Dtx2' | 3.23 | 1.05 | 6.53 | 6.74 | 0 | 0.32 | 0 | 0 | 0 | 0.73 |
| 74199 | 'Vit' | 2.25 | 1.58 | 0.01 | 0.04 | 0 | 0 | 4.24 | 0 | 0.59 | 0 |
| 74200 | 'Khdc4' | 18.12 | 19.74 | 16 | 6.63 | 6.94 | 8.89 | 15 | 23.68 | 23.26 | 29.2 |
| 74201 | 'Cep97' | 3.49 | 0.68 | 1.02 | 0.51 | 2.8 | 0 | 0.46 | 1.8 | 0 | 1.13 |
| 74202 | 'Fblim1' | 0.03 | 0.19 | 0.03 | 0.02 | 0.02 | 0.01 | 0.02 | 0 | 0.91 | 0.01 |
| 74203 | 'Eif4enif1' | 6.43 | 9.03 | 4.11 | 4.91 | 13.8 | 2.83 | 4.98 | 6.68 | 9.75 | 6.65 |
| 74204 | 'Xpo6' | 30.17 | 98.04 | 9.7 | 41.1 | 90.4 | 16.55 | 7.34 | 10.61 | 10.86 | 23.16 |
| 74205 | 'Acsl3' | 10.8 | 19.52 | 7.47 | 22.4 | 11.4 | 13.54 | 9.27 | 17.72 | 22.16 | 7.51 |
| 74206 | 'Sipa1l3' | 0.02 | 0.82 | 0.2 | 3.4 | 0.97 | 0.01 | 0.02 | 0.51 | 1.09 | 0.22 |
| 74211 | '1700017B05Rik' | 3.13 | 1.13 | 0.08 | 0 | 5.24 | 6.69 | 5.47 | 3.04 | 2.12 | 7.24 |
| 74213 | 'Rbm26' | 10.59 | 19.42 | 10.2 | 15.7 | 21.2 | 8.79 | 7.67 | 10.01 | 17.4 | 12.64 |
| 74229 | 'Paqr8' | 10.83 | 6.3 | 3.79 | 6.27 | 5.72 | 4.66 | 5.17 | 2.89 | 3.03 | 2.76 |
| 74230 | '1700016K19Rik' | 0 | 0.06 | 0 | 5.57 | 1.39 | 5.87 | 0 | 0.38 | 0 | 4.6 |
| 74237 | 'Tubgcp2' | 22.72 | 27.89 | 30.1 | 29.6 | 24 | 20.33 | 17.9 | 20.14 | 22.32 | 23.77 |
| 74238 | 'Mterf2' | 12.58 | 18.88 | 14.2 | 29.2 | 10.7 | 7.66 | 14.5 | 26.57 | 12.35 | 8.2 |
| 74239 | 'Iqce' | 4.27 | 9.83 | 11.4 | 2.49 | 12.5 | 10.5 | 11.8 | 3.89 | 8.78 | 13.14 |
| 74241 | 'Chpf' | 13.34 | 14.09 | 12.9 | 5.65 | 23.6 | 13.49 | 8.78 | 8.85 | 23.89 | 4.56 |
| 74243 | 'Slx4ip' | 4.04 | 5.12 | 0.46 | 1.97 | 7.83 | 2.43 | 0.35 | 1.65 | 1.12 | 1.63 |
| 74244 | 'Atg7' | 9.84 | 9.82 | 20.2 | 4.94 | 2.28 | 0.95 | 4.47 | 6.58 | 10.6 | 9.15 |
| 74245 | 'Ctbs' | 1.84 | 0.05 | 1.05 | 5.92 | 1.85 | 1.51 | 1.97 | 0.01 | 0 | 1.29 |
| 74246 | 'Gale' | 18.26 | 28.25 | 21.1 | 8.64 | 17.8 | 19.8 | 11.9 | 29.39 | 25.47 | 23.87 |
| 74249 | 'Lrrc2' | 1.62 | 0.48 | 0.16 | 0.14 | 0.2 | 0.07 | 2.81 | 0.01 | 0.1 | 1.17 |
| 74251 | 'Ankrd9' | 4.81 | 7.13 | 10.3 | 0.04 | 6.39 | 22.56 | 14.3 | 7.87 | 8.57 | 9.1 |
| 74252 | 'Armc1' | 44.6 | 38.11 | 37.2 | 20 | 24.5 | 46.13 | 28.2 | 36.6 | 40.4 | 28.27 |
| 74253 | 'Klrg2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.45 |
| 74254 | 'Gpn1' | 46.58 | 65.42 | 68.5 | 69.4 | 38.1 | 67.61 | 60.1 | 64.77 | 52.25 | 86.26 |
| 74255 | 'Smu1' | 62 | 68.8 | 54.8 | 74.1 | 36.5 | 22.42 | 48.6 | 49.07 | 46.61 | 76.02 |
| 74256 | 'Cylid' | 13.47 | 14.36 | 13.8 | 13.4 | 11.3 | 6.83 | 21.9 | 8.09 | 13.69 | 12.21 |
| 74257 | 'Tspan17' | 35.61 | 20.44 | 31 | 54.6 | 28.9 | 22.16 | 17.9 | 30.18 | 44.02 | 19.52 |
| 74264 | 'Rnf138rt1' | 12.51 | 9.89 | 10.7 | 78.1 | 5.32 | 16.63 | 19 | 11.26 | 12.51 | 31.53 |
| 74268 | 'Aven' | 0.34 | 0.1 | 0 | 0 | 3.18 | 3.79 | 0 | 3.32 | 0.98 | 0 |
| 74270 | 'Usp20' | 37.43 | 42.2 | 48.8 | 6.31 | 32.4 | 15.27 | 29.7 | 46.02 | 44.69 | 26.3 |
| 74277 | 'Chic2' | 0 | 0.3 | 0.47 | 9.37 | 0 | 0.07 | 1.5 | 0.61 | 0 | 0 |
| 74281 | 'Spatc1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.08 |
| 74286 | 'Tbc1d21' | 0 | 0 | 0 | 0 | 0 | 0.22 | 0 | 0 | 0 | 0 |
| 74287 | 'Kcmf1' | 4.53 | 2.21 | 4.43 | 7.73 | 9.99 | 1.34 | 6.88 | 1.99 | 3.55 | 5.43 |
| 74302 | 'Mtmr3' | 1.05 | 4.72 | 7.1 | 11 | 8.64 | 9.02 | 3.96 | 0.34 | 2.35 | 5.64 |
| 74307 | '1700092M07Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.06 |
| 74309 | 'Osbp2' | 0.65 | 3.72 | 11.4 | 3.72 | 2.86 | 0.01 | 6.31 | 7.22 | 4.34 | 2.52 |
| 74315 | 'Rnf145' | 17.45 | 13.99 | 5.35 | 32.3 | 20.5 | 6.69 | 13.5 | 17.33 | 21.59 | 7.05 |
| 74316 | 'Isca2' | 132.6 | 81.39 | 99.6 | 105 | 147 | 197.1 | 48.7 | 145.3 | 113.8 | 102.07 |
| 74318 | 'Hopx' | 0 | 0 | 1.24 | 0 | 4.17 | 0.09 | 1.68 | 0 | 0.07 | 0.84 |
| 74319 | 'Mettl23' | 21.59 | 21.01 | 12.6 | 23.4 | 6.44 | 11.55 | 30.8 | 6.79 | 9.68 | 22.29 |
| 74320 | 'Wdr33' | 20.86 | 37.56 | 29.9 | 43.5 | 30.2 | 23.37 | 20.1 | 16.72 | 27.63 | 43.25 |
| 74322 | 'Cxxc1' | 26.81 | 16.19 | 22.1 | 13 | 20.5 | 8.73 | 8.2 | 17.54 | 31.12 | 14.97 |
| 74325 | 'Cltb' | 183.1 | 155.4 | 179 | 124 | 190 | 154.6 | 182 | 166.5 | 229.8 | 130.73 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 74326 | 'Hnrnr' | 74.48 | 84.17 | 76.5 | 80.3 | 54.7 | 56.17 | 54.8 | 71.97 | 46.76 | 74.07 |
| 74330 | 'Dnajc14' | 14.06 | 10.54 | 17.3 | 6.2 | 8.4 | 10.92 | 4.8 | 16.4 | 13.43 | 31.44 |
| 74334 | 'Ranbp10' | 8.4 | 4.84 | 1.5 | 5.97 | 0.6 | 2.26 | 3.32 | 0.35 | 2.62 | 1.18 |
| 74335 | 'Xrcc3' | 14.72 | 6.28 | 16.2 | 0.02 | 26.3 | 0 | 0.04 | 35.34 | 11.42 | 0 |
| 74337 | 'Palm3' | 0 | 1.5 | 0.66 | 0 | 0 | 1.5 | 0 | 1.32 | 0 | 1.51 |
| 74338 | 'Slc6a19' | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| 74340 | 'Ahcyl2' | 9.87 | 4.88 | 2.66 | 9.96 | 2.94 | 0.99 | 9.75 | 2.39 | 1.1 | 4.85 |
| 74342 | 'Lrrtm1' | 20.48 | 24.17 | 47.9 | 7.43 | 58.8 | 41.26 | 43.4 | 56.65 | 41.73 | 13.56 |
| 74343 | 'Crtc2' | 10.22 | 6.79 | 16.4 | 17.4 | 4.48 | 5.44 | 6.2 | 6.89 | 8.29 | 0.12 |
| 74347 | 'Tlhc1' | 4.34 | 4.75 | 1.06 | 2.62 | 0 | 0.02 | 0 | 1.07 | 2.55 | 0.02 |
| 74349 | 'Fam160a2' | 3.64 | 3.8 | 3 | 2.59 | 3.28 | 1.94 | 6.51 | 2.23 | 3.74 | 3.73 |
| 74351 | 'Ddx23' | 7.66 | 9.09 | 4.75 | 2.01 | 0.88 | 0.9 | 5.02 | 4.32 | 4.34 | 10.65 |
| 74352 | 'Zfp84' | 1.03 | 0 | 1.5 | 4.15 | 3.01 | 2.98 | 1.87 | 1.39 | 3.43 | 3.97 |
| 74354 | 'Lrguk' | 2.05 | 1.89 | 3.44 | 4.77 | 0.37 | 1.62 | 0 | 0.49 | 0.26 | 0.6 |
| 74355 | 'Smchd1' | 2.77 | 2.88 | 5.32 | 10.1 | 1.92 | 5.77 | 2.01 | 1 | 3.31 | 2.64 |
| 74356 | '4931428F04Rik' | 12.86 | 6.19 | 12.5 | 3.76 | 2.34 | 4.86 | 18.4 | 13.15 | 20.7 | 10.67 |
| 74359 | '4931414P19Rik' | 0.87 | 1.29 | 3.36 | 2.99 | 1.76 | 1.99 | 0.52 | 0.45 | 4 | 0.45 |
| 74360 | 'Cep57' | 13.9 | 6.19 | 14.1 | 12.1 | 5.06 | 11.57 | 17.1 | 8.86 | 13.81 | 12.67 |
| 74361 | '4931429L15Rik' | 0 | 0 | 0 | 0.24 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74362 | 'Spag17' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0.21 | 0 |
| 74365 | 'Lonrf3' | 0.64 | 0.99 | 1.06 | 2.96 | 1.77 | 0.92 | 2.1 | 0.01 | 0.01 | 0 |
| 74369 | 'Mei1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.03 |
| 74370 | 'Rptor' | 1.75 | 2.28 | 6.49 | 0.43 | 9.23 | 1.96 | 5.82 | 3.71 | 2.5 | 8.74 |
| 74374 | 'Clec16a' | 38.13 | 46.62 | 51.8 | 60.9 | 24.3 | 28.74 | 33 | 40.79 | 30.68 | 39.45 |
| 74375 | 'Gcc1' | 2.65 | 10.16 | 5.21 | 9.22 | 8.9 | 2.71 | 11.1 | 4.85 | 2.27 | 1.93 |
| 74376 | 'Myo18b' | 1.03 | 0 | 0.41 | 1.56 | 0 | 0.02 | 1.6 | 0 | 0.01 | 0.01 |
| 74377 | 'Hsf2bp' | 0 | 4.7 | 0.06 | 0 | 0 | 0 | 3.28 | 0 | 0 | 0 |
| 74383 | 'Ubap2l' | 32.28 | 25.84 | 26 | 33.4 | 39.4 | 20.09 | 29.3 | 42.15 | 33.81 | 44.63 |
| 74385 | 'Ap5m1' | 6.32 | 4.81 | 7.11 | 5.69 | 7.28 | 1.95 | 12.6 | 10.23 | 14.84 | 6.57 |
| 74386 | 'Rmi1' | 9.04 | 6.21 | 10.3 | 0.62 | 6.86 | 3.16 | 0.01 | 6.11 | 7.1 | 7.05 |
| 74387 | '4932438H23Rik' | 1.55 | 4.7 | 0.08 | 1.72 | 0 | 0.02 | 0.98 | 0.02 | 1.84 | 5.56 |
| 74388 | 'Dpp8' | 5.61 | 1.31 | 2.41 | 5.88 | 1.72 | 0.47 | 12.6 | 3.87 | 3.97 | 3.57 |
| 74392 | 'Specc1l' | 0.91 | 1.6 | 5.49 | 3.69 | 7.59 | 3.63 | 3.85 | 5.25 | 8.42 | 0.76 |
| 74393 | 'Map10' | 2.97 | 3.29 | 3.91 | 0.35 | 0 | 0.01 | 1.1 | 1.48 | 5.05 | 2 |
| 74400 | 'Zfp819' | 0 | 7.02 | 0.05 | 0 | 0.02 | 4.95 | 0 | 0 | 0 | 3.64 |
| 74405 | 'Efhc2' | 0.08 | 2.14 | 0.28 | 4.96 | 1.7 | 1.22 | 0 | 2.1 | 3.75 | 7.27 |
| 74407 | 'Ttc25' | 0 | 0 | 0 | 0.19 | 0.7 | 2.5 | 0.17 | 0 | 5.93 | 2.37 |
| 74410 | 'Tll11' | 1.53 | 1.83 | 4.2 | 0 | 3.76 | 0.01 | 4.19 | 0.05 | 4.45 | 0.73 |
| 74411 | 'Plpp6' | 2.83 | 3.34 | 2.83 | 1.65 | 3.34 | 1.74 | 6.2 | 1.94 | 3.09 | 5.33 |
| 74412 | 'Gle1' | 35.84 | 20.64 | 33.6 | 23.6 | 26.2 | 12.57 | 17.6 | 18.68 | 29.15 | 29.52 |
| 74413 | 'Tc2n' | 0.23 | 0.03 | 0.04 | 0.13 | 0.14 | 0.34 | 0.2 | 0.25 | 0.16 | 0.46 |
| 74414 | 'Polr3c' | 26.49 | 19.44 | 18.5 | 25 | 9.35 | 5.39 | 28.1 | 12.7 | 12.73 | 22.32 |
| 74419 | 'Tktl2' | 0.01 | 0 | 0 | 1.69 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74426 | '4933402D24Rik' | 0 | 0.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74427 | 'Eaf1' | 3.36 | 0.85 | 6.38 | 0.22 | 0.07 | 0.3 | 2.02 | 1.92 | 8.13 | 3.39 |
| 74430 | '4930452B06Rik' | 0.64 | 3.37 | 0.7 | 0 | 0 | 0.44 | 4.84 | 7.4 | 0 | 0 |
| 74435 | 'Lrriq3' | 0 | 0 | 0.31 | 0 | 2.05 | 0.04 | 0 | 0 | 0 | 0 |
| 74438 | 'Clvs1' | 12.32 | 13.73 | 15.2 | 1.89 | 18.8 | 7.75 | 0.07 | 19.62 | 24.89 | 14.6 |
| 74440 | 'Cmip' | 87.64 | 118.9 | 66.5 | 89 | 84.9 | 112.8 | 117 | 92.12 | 83.02 | 91.35 |
| 74442 | 'Sgms2' | 0.25 | 1.15 | 0.64 | 0.29 | 0.01 | 0 | 0 | 0.01 | 0 | 0.13 |
| 74443 | 'P4htm' | 99.26 | 74.91 | 124 | 91.6 | 87.5 | 86.76 | 96.4 | 76.4 | 74.41 | 82.06 |
| 74446 | 'Slc9b1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.19 |
| 74448 | 'Arl13a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| 74450 | 'Pank2' | 0.6 | 2.27 | 0.06 | 3.04 | 4.31 | 3.15 | 1.06 | 5.26 | 0 | 0.48 |
| 74451 | 'Pgs1' | 19.1 | 25.14 | 32.3 | 44.3 | 31 | 25.54 | 38.2 | 13.41 | 27.12 | 10.08 |
| 74453 | 'Cfap53' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.55 | 0 | 0 |
| 74455 | 'Nsun6' | 6.12 | 6.9 | 3.97 | 0.49 | 2.65 | 3.7 | 0 | 4.92 | 6.8 | 0.4 |
| 74464 | 'Zswim5' | 0 | 0.09 | 2.33 | 2.92 | 0 | 1.22 | 0 | 0.33 | 0 | 0.11 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 74466 | 'Mfsd13b' | 0 | 1.91 | 0 | 0 | 0 | 1.27 | 0 | 0 | 0 | 0 |
| 74467 | 'Pus10' | 1.08 | 3.32 | 2.67 | 3 | 4.78 | 1.44 | 1.14 | 2.4 | 6.48 | 8.02 |
| 74469 | 'Taf7l' | 0.1 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74470 | 'Cep72' | 0 | 0.63 | 0 | 6.76 | 0 | 0 | 0.2 | 0 | 0 | 0.24 |
| 74471 | '4933440N22Rik' | 0 | 0.22 | 0.05 | 0 | 0 | 1.24 | 0 | 0 | 0.28 | 0 |
| 74477 | '4933427D14Rik' | 8.89 | 6.74 | 5.54 | 13 | 2.36 | 6.22 | 14.5 | 4.2 | 4.93 | 15.37 |
| 74478 | 'Snx29' | 2.05 | 2.79 | 2.47 | 4.61 | 5.88 | 10.78 | 6.91 | 5 | 5.78 | 3.46 |
| 74479 | 'Snx11' | 16.14 | 5.61 | 8.54 | 7.62 | 9.41 | 6.94 | 3.73 | 19.79 | 14.61 | 6.97 |
| 74480 | 'Samd4' | 3.87 | 2.06 | 4.44 | 7.26 | 6.9 | 6.65 | 4.46 | 2.52 | 8.21 | 3.31 |
| 74482 | 'Ifitm7' | 1.87 | 1.86 | 3.64 | 13 | 2.78 | 5.22 | 2.2 | 2.76 | 2.74 | 2.59 |
| 74485 | 'Lrrc71' | 2.23 | 0.72 | 0 | 0 | 0.73 | 0 | 0 | 0.2 | 1.8 | 0 |
| 74486 | 'Osbp110' | 0.57 | 0 | 5.55 | 4.74 | 6 | 0.79 | 0.02 | 4.38 | 7.18 | 3.23 |
| 74490 | 'Mamstr' | 0 | 0 | 1.28 | 2.97 | 0 | 0 | 0 | 0 | 0 | 1.74 |
| 74492 | 'Kbtbd13' | 0 | 0 | 0.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74493 | 'Tnks2' | 3.61 | 2.42 | 0.66 | 2.27 | 2.82 | 1.39 | 2.09 | 0.59 | 2.72 | 2.93 |
| 74498 | 'Gorasp1' | 13.97 | 27.48 | 29 | 1.82 | 11.7 | 22.43 | 29.5 | 28.03 | 19.22 | 17.05 |
| 74504 | 'Fam53a' | 19.23 | 30.08 | 27.3 | 13.7 | 22.1 | 11.49 | 25.4 | 28.3 | 27 | 25.6 |
| 74513 | 'Neto2' | 3.39 | 1.15 | 0.74 | 3.95 | 3.06 | 1.7 | 0.55 | 0.97 | 0.65 | 1.07 |
| 74519 | 'Cyp2j9' | 14.74 | 14.15 | 17.7 | 28.9 | 5.64 | 36.32 | 10.8 | 11.68 | 7.79 | 7.01 |
| 74521 | 'Ppp4r4' | 1.44 | 4.17 | 2.27 | 7.21 | 2.01 | 2.15 | 0 | 3.01 | 3.14 | 4.64 |
| 74522 | 'Morc2a' | 1.48 | 4.72 | 6.6 | 10.9 | 1.07 | 1.17 | 9.38 | 2.88 | 1.33 | 4.12 |
| 74525 | 'Fam234b' | 60.1 | 61.98 | 93 | 10 | 62.8 | 66.48 | 79 | 75.52 | 88.89 | 104.66 |
| 74528 | 'Mgme1' | 2.23 | 7.64 | 0 | 6.75 | 3.26 | 5.87 | 3.56 | 5.38 | 7.49 | 3.42 |
| 74533 | 'Gzf1' | 14.85 | 5.39 | 8.2 | 0 | 4.08 | 17.64 | 15.5 | 8.44 | 3.47 | 10.19 |
| 74548 | 'Gsdmc4' | 0 | 0.02 | 0.02 | 0 | 0 | 2.19 | 0 | 0 | 0 | 0.1 |
| 74549 | 'Mau2' | 24.98 | 29.31 | 35.1 | 20.7 | 14.8 | 18.37 | 42.7 | 25.96 | 10.78 | 43.81 |
| 74551 | 'Pck2' | 6.66 | 13.73 | 13.2 | 9.1 | 12.6 | 22.46 | 23.6 | 23.74 | 24.22 | 13.97 |
| 74552 | 'Nipal3' | 6.83 | 11.15 | 6.89 | 2.66 | 10.7 | 8.49 | 16 | 9.22 | 10.91 | 6.07 |
| 74558 | 'Gvin1' | 0 | 0 | 0 | 0 | 0.36 | 0.21 | 0 | 0 | 0 | 0 |
| 74559 | 'Elovl7' | 0 | 1.26 | 0.03 | 0 | 0.94 | 2.89 | 0 | 0.65 | 0 | 0.31 |
| 74561 | 'Nkx6-3' | 0 | 0 | 0 | 0.33 | 0 | 0 | 0 | 0 | 0 | 1.12 |
| 74563 | 'Rasgef1c' | 9.94 | 5.17 | 3.19 | 3.22 | 1.68 | 0 | 9.55 | 3.97 | 0.02 | 3.43 |
| 74568 | 'Mlkl' | 0 | 0 | 0 | 0 | 0 | 0.16 | 0 | 0 | 0 | 0 |
| 74569 | 'Ttc17' | 3.97 | 2.61 | 12.2 | 2.52 | 6.11 | 12.5 | 9 | 6.71 | 7.32 | 12.75 |
| 74570 | 'Zkscan1' | 3.43 | 3.48 | 4.21 | 1.86 | 3.68 | 5.16 | 2.5 | 2.04 | 6.31 | 1.92 |
| 74577 | 'Glb1l' | 6.3 | 1.95 | 2.55 | 2.86 | 0.81 | 1.05 | 0.62 | 1.37 | 5.52 | 0.03 |
| 74580 | 'Pyroxd2' | 0 | 0 | 0 | 0 | 0 | 0.96 | 0 | 0 | 0.12 | 1.3 |
| 74585 | 'Sppl3' | 7.13 | 5.02 | 7.45 | 6.66 | 4.46 | 1.11 | 18.4 | 5.39 | 17.41 | 7.97 |
| 74589 | 'Kbtbd12' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 1.63 | 0.46 | 1.84 |
| 74596 | 'Cds1' | 1.4 | 0 | 0.43 | 7.33 | 3.46 | 0.98 | 1.57 | 3.82 | 6.44 | 5.48 |
| 74600 | 'Mrpl47' | 21.95 | 36.76 | 39.8 | 0.21 | 33.5 | 55.68 | 32.4 | 28.81 | 18.59 | 23.28 |
| 74610 | 'Abcb8' | 32.75 | 21.07 | 23.3 | 14.3 | 39.3 | 33.74 | 27.7 | 26.96 | 23.44 | 33.38 |
| 74616 | 'Scrn3' | 5.88 | 6.2 | 4.47 | 3.31 | 3.72 | 5.22 | 14.2 | 2.09 | 5.81 | 2.29 |
| 74617 | 'Scpep1' | 24.65 | 29.85 | 22.5 | 21.6 | 16.8 | 16.89 | 32.3 | 26.66 | 57.85 | 65.09 |
| 74637 | 'Shpk' | 0.25 | 0 | 0 | 0 | 2.48 | 0 | 9 | 4.99 | 0.02 | 3.29 |
| 74644 | '4930426D05Rik' | 0 | 0 | 0.95 | 0 | 0 | 0.8 | 0 | 0 | 0 | 0 |
| 74645 | 'Tent5c' | 0 | 2.94 | 0 | 8.46 | 0 | 1.76 | 0 | 0 | 0 | 0 |
| 74646 | 'Spsb1' | 1.17 | 1.23 | 1.82 | 15 | 0.08 | 0.3 | 0 | 2.15 | 0 | 0.01 |
| 74648 | 'S100pbbp' | 7.51 | 6.26 | 4.71 | 10.6 | 7.96 | 4.19 | 7.91 | 2.92 | 7.53 | 11.78 |
| 74649 | 'Cpa5' | 0 | 0 | 3.2 | 0 | 0 | 4.66 | 0 | 0 | 0 | 0 |
| 74653 | 'Pomk' | 29.33 | 24.24 | 24.4 | 25.5 | 20.9 | 33.74 | 39.9 | 22.7 | 23.14 | 24.71 |
| 74665 | 'Drc3' | 18.96 | 5.83 | 13.4 | 0 | 19.3 | 13.15 | 6.83 | 6.24 | 1.23 | 5.28 |
| 74666 | '4930432K21Rik' | 7.47 | 5.21 | 3.83 | 0 | 0.02 | 1.62 | 7.56 | 2.91 | 0.06 | 18.18 |
| 74670 | 'Zfp943' | 2.72 | 7.59 | 3.14 | 2.07 | 8.85 | 6.01 | 3.51 | 5.54 | 4.84 | 5.05 |
| 74682 | 'Wdr35' | 26.93 | 18.25 | 18.7 | 12.8 | 17.6 | 3.92 | 13 | 26.01 | 21.78 | 17.71 |
| 74685 | 'Lrrc74b' | 0 | 0 | 0.07 | 0.25 | 0 | 0 | 0 | 0.02 | 0.04 | 0 |
| 74691 | 'Tdrd9' | 0 | 0 | 0.98 | 0 | 0.31 | 0 | 0 | 0 | 0 | 0 |
| 74694 | 'Tbc1d30' | 3.03 | 6.14 | 4.41 | 1 | 0.19 | 2.36 | 0 | 0.64 | 4.37 | 1.48 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 74711 | 'Ttl9' | 2.34 | 4.96 | 2.4 | 8.95 | 5.22 | 11.98 | 0.03 | 2.84 | 2.51 | 3.6 |
| 74717 | 'Spata17' | 0.38 | 0 | 0 | 0 | 0.54 | 0.14 | 0 | 0.66 | 0 | 0 |
| 74718 | 'Snx16' | 39.56 | 22.04 | 17.9 | 33.9 | 18.8 | 32.64 | 27.6 | 39.71 | 15.83 | 20.12 |
| 74720 | 'Tmem114' | 0 | 0 | 0 | 0 | 3.31 | 0 | 0 | 2.52 | 0 | 0 |
| 74729 | 'Setmar' | 3.3 | 2.55 | 0 | 0 | 4.27 | 2.74 | 0.03 | 4.78 | 0 | 7.08 |
| 74732 | 'Stx11' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38 |
| 74734 | 'Rhh' | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 7.51 | 0 | 0 | 0.67 | 2.36 |
| 74735 | 'Trim14' | 0.26 | 3.46 | 0.03 | 0.03 | 0.03 | 0 | 0.02 | 0 | 2.27 | 0 |
| 74737 | 'Pcf11' | 3.63 | 1.46 | 1.25 | 3.95 | 1.71 | 1.09 | 0.32 | 2.75 | 2.4 | 0.98 |
| 74741 | 'C2cd5' | 11.31 | 11.21 | 15.8 | 5.95 | 5.07 | 7.9 | 11 | 6 | 8.22 | 25.83 |
| 74747 | 'Ddit4' | 1.58 | 1.44 | 5.61 | 2.39 | 3.21 | 1.2 | 3.62 | 2.09 | 0 | 1.96 |
| 74748 | 'Slamf8' | 0 | 0.05 | 0.07 | 0.08 | 0.04 | 0.02 | 0 | 0.04 | 0 | 0 |
| 74753 | 'Trmo' | 5.31 | 0.34 | 0.24 | 0.54 | 0.15 | 0.07 | 3.89 | 4.11 | 1.17 | 2.41 |
| 74754 | 'Dhcr24' | 3.63 | 8.35 | 8.83 | 2.74 | 8.6 | 12.11 | 12.6 | 9.86 | 3.57 | 5.49 |
| 74760 | 'Rab3il1' | 11.7 | 8.22 | 16.6 | 27.7 | 7.92 | 23.51 | 9.96 | 4.37 | 13 | 9.68 |
| 74761 | 'Mxra8' | 8.48 | 7.76 | 0.06 | 4.97 | 10.7 | 30.3 | 53.5 | 0 | 35.45 | 8.07 |
| 74762 | 'Mdga1' | 3.98 | 3.23 | 13.8 | 0 | 7.87 | 0.87 | 5 | 2.92 | 0.7 | 4.98 |
| 74763 | 'Naa60' | 35.98 | 32.58 | 58.5 | 36.8 | 38.6 | 19.51 | 34.4 | 33.72 | 33.14 | 32.1 |
| 74764 | 'Klc4' | 17.57 | 34.89 | 20.1 | 7.61 | 20.7 | 24.09 | 30.1 | 17.57 | 36.46 | 32.76 |
| 74766 | 'Yipf2' | 20.77 | 25.52 | 16.4 | 6.06 | 59.1 | 34.96 | 33.5 | 36.79 | 42.86 | 30.87 |
| 74769 | 'Pik3cb' | 0 | 0.34 | 1.38 | 1.46 | 0.05 | 0 | 0.85 | 0.33 | 0.15 | 0.06 |
| 74770 | 'Hhat1' | 15.09 | 0.02 | 0.08 | 0 | 5.36 | 0.03 | 0 | 0 | 3.76 | 1.13 |
| 74772 | 'Atp13a2' | 14.15 | 8.56 | 13.3 | 7.39 | 6.55 | 6.51 | 8.21 | 13.3 | 18.03 | 5.79 |
| 74775 | 'Lmbr1l' | 0 | 1.53 | 0.02 | 2.97 | 6.81 | 0 | 0.69 | 2.57 | 0.1 | 2.61 |
| 74776 | 'Ppa2' | 31.74 | 57.7 | 48 | 45.4 | 31.4 | 25.63 | 50.2 | 57.55 | 76.65 | 17.57 |
| 74777 | 'Selenon' | 2.32 | 5.15 | 0.81 | 7.93 | 3.16 | 0.01 | 0.46 | 1.01 | 2.21 | 2.67 |
| 74778 | 'Rrp7a' | 89.37 | 71.28 | 59.4 | 74.4 | 74.7 | 87.48 | 50.3 | 81.11 | 110 | 88.24 |
| 74781 | 'Wipi2' | 38.39 | 34.14 | 44.2 | 31.8 | 15.2 | 19.28 | 57 | 29.78 | 33.84 | 11.39 |
| 74782 | 'Glt8d2' | 3.21 | 0 | 9.98 | 0.03 | 6.99 | 0.25 | 0.16 | 2.77 | 0 | 0 |
| 74838 | 'Naa15' | 7.61 | 2.38 | 3.74 | 2.42 | 4.83 | 0.5 | 0.78 | 1.36 | 4.08 | 1.83 |
| 74840 | 'Manf' | 57.49 | 78.2 | 37.4 | 87.7 | 39.7 | 53.08 | 38.6 | 44.6 | 57.97 | 51.94 |
| 74841 | 'Usp38' | 2.57 | 3.03 | 2.83 | 8.92 | 1.06 | 0.32 | 10.5 | 1.64 | 2.58 | 5.16 |
| 74843 | 'Mss51' | 0 | 0.11 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0.49 | 0 |
| 74854 | '4930402F06Rik' | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74855 | 'Fam228a' | 1.02 | 0.25 | 0 | 0.3 | 0.19 | 0 | 0 | 1.33 | 0.06 | 0.23 |
| 74868 | 'Tmem65' | 1.26 | 0.61 | 3.41 | 4.95 | 7.24 | 0.48 | 9.29 | 0.74 | 1.39 | 0.39 |
| 74890 | 'Morn3' | 2.95 | 0 | 0.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74892 | '4930447A16Rik' | 0 | 0.18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74895 | 'Ccdc181' | 19.05 | 13.12 | 7.97 | 15.8 | 23.4 | 38.28 | 14.7 | 17.52 | 14.19 | 19.78 |
| 74901 | 'Kbtbd11' | 8.65 | 3.45 | 4.92 | 2.39 | 5.36 | 7.62 | 8.2 | 2.27 | 5.3 | 3.37 |
| 74918 | 'Iqca' | 0.3 | 0 | 0 | 0.21 | 0 | 0 | 0.19 | 0.3 | 0 | 0.09 |
| 74919 | 'Slc35f6' | 25.08 | 23.19 | 17.6 | 6.02 | 13.6 | 8.43 | 9.68 | 14.22 | 22.16 | 25.44 |
| 74934 | 'Armc4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.18 | 0 | 0 |
| 74978 | 'Lrriq1' | 4.32 | 2.32 | 3.46 | 11 | 0.46 | 4.34 | 0 | 1.25 | 1.28 | 1.33 |
| 74989 | 'Csm2os' | 0 | 0 | 0 | 0 | 0.06 | 0 | 0.02 | 1.47 | 1.73 | 0.01 |
| 74996 | 'Usp47' | 5.53 | 7.46 | 13.9 | 22.1 | 11.1 | 6.93 | 17.4 | 7.78 | 16.18 | 9.97 |
| 74998 | 'Rab11fip2' | 2.66 | 1.59 | 5.16 | 6.18 | 3.53 | 3.47 | 0 | 4.07 | 2.79 | 2.89 |
| 75007 | 'Mindy1' | 7.96 | 7.13 | 6.94 | 8.13 | 6.74 | 1.97 | 10.6 | 1.52 | 14.33 | 16.01 |
| 75011 | '4930488N24Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 75013 | '4930502E18Rik' | 1.23 | 0 | 1.31 | 0 | 0 | 0 | 0 | 4.63 | 0 | 0 |
| 75015 | '4930503B20Rik' | 0.41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.05 |
| 75029 | 'Purg' | 0.25 | 0 | 4.86 | 4.7 | 2.73 | 0 | 0 | 1.26 | 1.97 | 0.06 |
| 75033 | 'Mei4' | 3.5 | 0 | 1.18 | 0.15 | 0 | 0.88 | 0 | 3.72 | 0 | 0.18 |
| 75040 | 'Efcab10' | 32.62 | 40.37 | 37.3 | 74.5 | 28.7 | 82.2 | 17 | 43.02 | 68.52 | 65.49 |
| 75050 | 'Kif27' | 0.52 | 0.26 | 1.5 | 0.06 | 0.06 | 2.38 | 0.01 | 0.7 | 0.02 | 0.04 |
| 75051 | 'Ccdc173' | 7.55 | 3.96 | 0.2 | 0.83 | 0.47 | 0.17 | 1.73 | 0.63 | 2.46 | 0.35 |
| 75062 | 'Sf3a3' | 52.37 | 44.1 | 56.6 | 68.9 | 35.6 | 47.5 | 45.5 | 61.77 | 49.08 | 49.79 |
| 75079 | 'Zbtb49' | 1.69 | 2.58 | 1.46 | 0 | 2.73 | 6.47 | 0 | 0.98 | 7.24 | 2.83 |

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|--------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 75083 | 'Usp50' | 0 | 0 | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75087 | '4930505A04Rik' | 0 | 0 | 0 | 0 | 1.83 | 0 | 0.06 | 0 | 0.15 | 0 |
| 75089 | 'Uhrf1bp1l' | 5.72 | 8.93 | 18.2 | 7.14 | 4.35 | 4.52 | 3.57 | 5.78 | 9.79 | 9.03 |
| 75099 | 'Lysmd4' | 9.54 | 5.59 | 11.9 | 3.09 | 17.2 | 14.63 | 23.9 | 14.7 | 23.96 | 8.74 |
| 75104 | 'Mmd2' | 91.38 | 85.63 | 74 | 68.1 | 40.1 | 87.5 | 57.8 | 38.21 | 40.79 | 47.38 |
| 75106 | '4930519F16Rik' | 0 | 0.4 | 0.25 | 0 | 0.36 | 0 | 0.09 | 0 | 0 | 0 |
| 75124 | 'Nxn12' | 4.1 | 2.27 | 0 | 4.55 | 3.05 | 0 | 0 | 1.83 | 3.73 | 0.04 |
| 75137 | 'Rprd2' | 1.27 | 2.4 | 3.91 | 1.41 | 3.96 | 1.85 | 1.9 | 2.45 | 2.14 | 3.95 |
| 75141 | 'Rasd2' | 17.14 | 24.27 | 10.8 | 10.2 | 12.2 | 5.92 | 3.06 | 15.54 | 17.55 | 14.37 |
| 75146 | 'Mfsd13a' | 44.76 | 18.52 | 21.3 | 4.71 | 20.7 | 11.2 | 28.1 | 23.01 | 11.72 | 14.17 |
| 75172 | 'Ccdc146' | 0.01 | 0 | 0 | 0 | 0.42 | 0.01 | 0 | 0.71 | 0 | 1.44 |
| 75173 | 'Tex38' | 0 | 0.92 | 0 | 0 | 0 | 3.3 | 0 | 0 | 0 | 0 |
| 75178 | 'Meiob' | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.31 | 0 |
| 75180 | 'Tmem269' | 0 | 0 | 6.45 | 4.89 | 2.46 | 5.21 | 0 | 5.05 | 2.01 | 0.62 |
| 751865 | 'Sap25' | 1.41 | 2.23 | 4.94 | 0 | 8.2 | 0 | 6.11 | 1.09 | 2.92 | 0 |
| 75196 | 'Ankrd7' | 0.44 | 0.26 | 0.25 | 0.01 | 0.52 | 0.04 | 0.02 | 0.55 | 0.01 | 0.43 |
| 75202 | 'Spaca6' | 5.23 | 3.69 | 1.64 | 12.6 | 3.94 | 5.05 | 0.44 | 5.2 | 4.36 | 5.44 |
| 75209 | 'Sv2c' | 5.45 | 5.91 | 3.12 | 0.95 | 0 | 0 | 1.39 | 4.4 | 1.14 | 2.12 |
| 75210 | 'Prr3' | 35.31 | 27.35 | 32.4 | 34.8 | 15.3 | 18.43 | 33.9 | 52.53 | 29.68 | 21.63 |
| 75212 | 'Rnf121' | 23.81 | 23.91 | 30.5 | 2.46 | 19.6 | 24.12 | 44.1 | 35.18 | 35.09 | 32.59 |
| 75216 | 'Cep128' | 0.01 | 0.93 | 0.03 | 0 | 0 | 4.51 | 0 | 0 | 0 | 0.01 |
| 75219 | 'Dusp18' | 1.22 | 6.89 | 15.8 | 7.28 | 3.81 | 7.35 | 7.42 | 2.06 | 0 | 9.49 |
| 75221 | 'Dpp3' | 34.24 | 13.59 | 25.2 | 20.7 | 34.6 | 40.57 | 16.2 | 33.52 | 35.07 | 37.82 |
| 75234 | 'Rnf19b' | 4.05 | 5.87 | 3.55 | 0.07 | 0.15 | 0.14 | 2.48 | 5.2 | 0.05 | 3.08 |
| 75258 | '4930563M21Rik' | 0 | 0.98 | 0.71 | 1.44 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75266 | 'Tomm20l' | 0 | 3.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75273 | 'Pelp1' | 8.32 | 6.07 | 5.52 | 0.18 | 5.98 | 4.08 | 6.56 | 1.78 | 10.8 | 7.94 |
| 75275 | 'Tmco5b' | 0 | 0 | 0 | 0 | 0 | 2.74 | 0 | 0 | 0 | 0 |
| 75284 | 'Bcdin3d' | 19.65 | 13.89 | 8.27 | 7.75 | 7.67 | 6.25 | 6.71 | 3.29 | 10.92 | 17.53 |
| 75288 | 'Slc35f4' | 25.63 | 14.23 | 4.03 | 10.9 | 6.83 | 27.66 | 21.4 | 21.37 | 24.81 | 15.49 |
| 75291 | 'Zbtb3' | 6.76 | 3.07 | 2.66 | 0 | 0.03 | 0 | 4.4 | 3.33 | 1.89 | 0 |
| 75292 | 'Prkd3' | 0.45 | 0 | 1.9 | 2.71 | 0.66 | 0 | 0 | 0 | 1.57 | 0.21 |
| 75296 | 'Fgfr1op' | 13.09 | 7.75 | 6.67 | 6.77 | 16.9 | 4.9 | 11.9 | 11.1 | 4.09 | 13.11 |
| 75302 | 'Asxl2' | 1.39 | 3.28 | 2.16 | 2.92 | 2.76 | 2.89 | 3.38 | 0.92 | 0.99 | 3.44 |
| 75304 | '4930563E22Rik' | 4.04 | 5.95 | 4.56 | 5.68 | 5.59 | 4.95 | 1.75 | 5.71 | 9.35 | 5.86 |
| 75305 | 'Ankrd53' | 0.51 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75311 | '4930550C14Rik' | 0.72 | 0.12 | 0 | 0 | 0.3 | 0 | 0.47 | 0.83 | 1.28 | 0 |
| 75316 | 'Taf1d' | 17.19 | 8.61 | 17.5 | 32.4 | 11.8 | 12.37 | 12.3 | 7.06 | 17.25 | 6.8 |
| 75317 | 'Parpbp' | 0 | 0 | 1.29 | 0 | 1.21 | 0 | 0 | 1.39 | 0 | 0 |
| 75320 | 'Etnk1' | 10.18 | 4.4 | 12.2 | 20.9 | 10.1 | 12.92 | 23.9 | 4.28 | 6.7 | 13.14 |
| 75329 | 'Atf7ip2' | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0.55 | 0 | 0 |
| 75339 | 'Mphosph8' | 20.45 | 10.06 | 14.9 | 26.4 | 29.9 | 32.01 | 24.9 | 13.66 | 19.28 | 24.91 |
| 75345 | 'Slamf7' | 0 | 0 | 0 | 2.26 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75368 | '4930558K02Rik' | 0 | 0 | 0.03 | 0 | 1.67 | 0 | 0.03 | 0.04 | 0 | 0 |
| 75387 | 'Sirt4' | 15.42 | 17.7 | 17.4 | 13.4 | 9.22 | 40.87 | 16.6 | 10.55 | 13.7 | 23.73 |
| 75396 | 'Spp2' | 0 | 0 | 0.1 | 0 | 9.32 | 0 | 0 | 0 | 0 | 2.49 |
| 75398 | 'Mrpl32' | 55.39 | 63.54 | 38.8 | 45.5 | 79.4 | 38.58 | 65.7 | 65.68 | 45.37 | 76.25 |
| 75404 | 'Arhgap36' | 187 | 304.2 | 39.9 | 5.16 | 31.8 | 50.14 | 10 | 162.4 | 48.14 | 124.27 |
| 75406 | 'Ndufs7' | 560.6 | 471.1 | 596 | 520 | 676 | 976.1 | 528 | 550.3 | 535.9 | 564.25 |
| 75409 | 'Slitrk5' | 10.49 | 3.12 | 0.23 | 2.42 | 7.82 | 0.81 | 0.7 | 7.8 | 4.92 | 4.77 |
| 75410 | 'Kmt2b' | 1.37 | 0.82 | 0.67 | 2.15 | 0.84 | 0.03 | 4.48 | 0.58 | 2.2 | 0.31 |
| 75415 | 'Arhgap12' | 12.87 | 9.54 | 14.7 | 14.1 | 9.17 | 12.84 | 17.8 | 10.65 | 19.34 | 16.37 |
| 75416 | 'Nop14' | 5.32 | 17.9 | 10.1 | 10.6 | 18 | 6.95 | 16.4 | 13.78 | 14.1 | 14.42 |
| 75420 | 'Secisbp2' | 14.82 | 9.3 | 12.3 | 16.9 | 5.12 | 10.51 | 19.6 | 8.8 | 14.63 | 7.04 |
| 75422 | 'Mettl5' | 32.78 | 17.79 | 24.3 | 48.5 | 39.5 | 49.88 | 32.8 | 33.31 | 36.93 | 34.13 |
| 75423 | 'Arl5a' | 2.13 | 2.23 | 7.43 | 0.22 | 4.17 | 3.11 | 1.46 | 3.6 | 0.99 | 0.83 |
| 75424 | 'Zfp820' | 0.08 | 0.17 | 0.11 | 0.06 | 0.07 | 0.19 | 0.2 | 0.16 | 0.03 | 1.11 |
| 75425 | 'Tti1' | 2.91 | 3.42 | 7.9 | 3.82 | 5.8 | 3.88 | 0.6 | 5.87 | 5.56 | 8.06 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 75426 | 'Igfbp11' | 0 | 7.46 | 0 | 0 | 2.9 | 1.06 | 5.12 | 0 | 0 | 0 |
| 75429 | 'Fam183b' | 214.1 | 152.5 | 32.5 | 234 | 104 | 181.9 | 59.5 | 53.72 | 60.63 | 186.83 |
| 75430 | 'Anapc15' | 13.46 | 12.79 | 33.6 | 29.8 | 4.85 | 5.23 | 18.6 | 12.83 | 6.46 | 8.07 |
| 75434 | '1700001C02Rik' | 0 | 0 | 0 | 0 | 2.83 | 0 | 0 | 4.48 | 0 | 0 |
| 75444 | 'Ccdc192' | 0 | 0 | 0.06 | 6.87 | 0 | 0 | 0 | 0.24 | 2.41 | 0 |
| 75452 | 'Ascc2' | 6.86 | 7.93 | 5.11 | 7.33 | 2.45 | 8.45 | 11.2 | 6.48 | 3.45 | 4.13 |
| 75454 | 'Phpt1' | 141.6 | 114 | 186 | 202 | 96.2 | 126.2 | 154 | 133.3 | 109.4 | 177.39 |
| 75458 | 'Cklf' | 4.2 | 4.22 | 6.72 | 9.6 | 8.42 | 0.02 | 3.86 | 2.82 | 0 | 4.93 |
| 75459 | 'Syce3' | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75465 | 'Dynlrb2' | 0 | 0 | 0 | 9.9 | 16.8 | 26.05 | 0 | 2.6 | 6.36 | 12.23 |
| 75469 | 'Spata19' | 0 | 0 | 0.08 | 0 | 0 | 5.18 | 0 | 1.32 | 0 | 2.89 |
| 75470 | 'Iqcf5' | 0 | 0 | 0 | 0 | 4.16 | 0 | 0 | 0 | 0 | 0 |
| 75472 | 'Cfap126' | 0.1 | 14.53 | 0 | 17.7 | 4.24 | 14.21 | 0 | 5.75 | 0 | 7.16 |
| 75475 | 'Oplah' | 3.58 | 4.65 | 7.82 | 0 | 0.98 | 0 | 5.67 | 5.11 | 2.64 | 2.11 |
| 75477 | 'Pfn3' | 0 | 0 | 3.1 | 0 | 0 | 8.04 | 0 | 3.25 | 0 | 2.69 |
| 75480 | '1700003F12Rik' | 0 | 1.6 | 6.6 | 0 | 2.41 | 3.63 | 3.04 | 3.55 | 28.07 | 12.77 |
| 75495 | 'Morn5' | 0 | 9.29 | 0 | 0 | 0 | 0.29 | 0 | 6.43 | 0 | 2.86 |
| 75497 | 'Fabp12' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.06 | 0 |
| 75504 | '1700013F07Rik' | 8.98 | 3.26 | 3.18 | 7.6 | 1.98 | 1.02 | 6.34 | 4.89 | 2.63 | 9.08 |
| 75507 | 'Pou5f2' | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.91 | 0 |
| 75516 | 'Ttc32' | 4.38 | 1.39 | 3.91 | 0 | 2.29 | 7.42 | 4.42 | 3.85 | 5.49 | 10.18 |
| 75526 | 'Eppin' | 0 | 5.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75528 | 'Tex29' | 0 | 0.12 | 0.16 | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 |
| 75530 | 'Lymr7' | 11.05 | 10.07 | 8.33 | 6.03 | 9.3 | 8.78 | 11.8 | 9.15 | 13.78 | 4.93 |
| 75533 | 'Nme5' | 35.52 | 19.88 | 26.2 | 101 | 46.9 | 69.19 | 8.3 | 31.53 | 6.86 | 35.31 |
| 75538 | 'Fam71e1' | 12.74 | 6.78 | 11.2 | 19.7 | 14.4 | 9.05 | 5.43 | 11.77 | 9.59 | 5.41 |
| 75540 | 'Fpgt' | 3.77 | 2.11 | 2.99 | 8.77 | 0.71 | 0.26 | 18.9 | 7.44 | 0.43 | 2.21 |
| 75541 | 'Nat8f4' | 1.76 | 8.33 | 3.58 | 0 | 9.65 | 7.78 | 0.02 | 1.79 | 0.01 | 8.13 |
| 75547 | 'Akap13' | 0.47 | 1.08 | 0.69 | 0.21 | 1.3 | 0.73 | 0 | 0.88 | 1.9 | 1.79 |
| 75552 | 'Paqr9' | 4.34 | 10.29 | 5.26 | 3.62 | 4.45 | 6.91 | 11 | 0.88 | 1.5 | 3.24 |
| 75553 | 'Zc3h14' | 10.6 | 10.3 | 8.16 | 16.7 | 6.04 | 8.36 | 11.6 | 11.14 | 7.06 | 15.84 |
| 75555 | '1700020D05Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 | 0 | 0 |
| 75556 | 'Cfap161' | 17.16 | 12.04 | 2.37 | 16.5 | 1.05 | 21.08 | 6.81 | 8.92 | 5.08 | 3.3 |
| 75558 | 'Spata45' | 0 | 0 | 0 | 0 | 0.65 | 0 | 0 | 0 | 0 | 0 |
| 75560 | 'Ep400' | 6.06 | 4.21 | 6.13 | 4.21 | 9.06 | 3.38 | 7.6 | 3.79 | 3.51 | 8.64 |
| 75563 | 'Dnali1' | 0 | 0 | 0 | 0 | 3.78 | 0 | 0 | 0.02 | 0.53 | 3.72 |
| 75564 | 'Rsph9' | 121.1 | 154.7 | 142 | 155 | 194 | 140 | 78.4 | 98.3 | 104.4 | 193.05 |
| 75565 | 'Sgf29' | 13.6 | 12.32 | 28.1 | 50.7 | 29.3 | 25.12 | 31.5 | 23.13 | 57.96 | 28.33 |
| 75568 | 'Capsl' | 2.58 | 3.78 | 2.7 | 6.73 | 0.22 | 16.3 | 0 | 5.61 | 0 | 4.08 |
| 75570 | 'Nhej1' | 2.99 | 6.9 | 1.78 | 0 | 2.23 | 0.24 | 5.71 | 8.66 | 4.87 | 9.58 |
| 75571 | 'Spata9' | 0.98 | 3.47 | 0.46 | 0.91 | 0 | 13.57 | 0.15 | 0 | 2.48 | 0.25 |
| 75572 | 'Acyp2' | 40.64 | 59.65 | 44.4 | 57.3 | 66.3 | 105.5 | 64.5 | 80.64 | 74.95 | 67.36 |
| 75578 | 'Fgyy' | 13.4 | 12.85 | 18.4 | 31.4 | 14.5 | 27.35 | 28.6 | 29.93 | 40.79 | 14.63 |
| 75580 | 'Zbtb4' | 3.23 | 1.09 | 3.57 | 1.37 | 3.47 | 4.71 | 1.95 | 4.02 | 2.41 | 2.88 |
| 75581 | 'Yipf7' | 0.04 | 0 | 0.44 | 0 | 0.08 | 0.15 | 0.04 | 0.03 | 0.04 | 0.07 |
| 75590 | 'Dusp9' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.38 | 0 | 0 |
| 75593 | 'Malsu1' | 23.48 | 23.19 | 13.3 | 17 | 20.2 | 16.92 | 25.5 | 16.22 | 13.69 | 25.06 |
| 75597 | 'Ndufaf2' | 67.01 | 43.62 | 77.3 | 23 | 35.3 | 26.7 | 61.6 | 26.01 | 50.72 | 56.02 |
| 75599 | 'Pcdh1' | 3.91 | 0.46 | 2.05 | 2.69 | 2.38 | 3.82 | 0.27 | 0 | 1.1 | 0.48 |
| 75600 | 'Calm14' | 0.2 | 0 | 0 | 0 | 0.21 | 0 | 0 | 0.6 | 0 | 0 |
| 75604 | 'Tm4sf5' | 22.36 | 3.32 | 2.46 | 24.2 | 8.22 | 15.64 | 3.78 | 10.48 | 13.99 | 6.92 |
| 75605 | 'Kdm5b' | 4.89 | 2.83 | 8.44 | 10.5 | 9.04 | 3.21 | 4.71 | 3.38 | 2.24 | 1.62 |
| 75607 | 'Wnk2' | 1.53 | 2.55 | 3.39 | 7.06 | 1.62 | 1.68 | 6.69 | 4.2 | 5.42 | 1.81 |
| 75608 | 'Chmp4b' | 6.85 | 7.07 | 3.63 | 9.97 | 5.79 | 13.94 | 11.9 | 3.96 | 8.13 | 6.62 |
| 75610 | '2010109A12Rik' | 0.27 | 0.38 | 0 | 0 | 0 | 4.74 | 0 | 0 | 0 | 0 |
| 75612 | 'Gns' | 12.9 | 16.12 | 23 | 23.4 | 19.8 | 3.99 | 17.2 | 9.55 | 20.51 | 4.46 |
| 75613 | 'Med25' | 3.66 | 20.04 | 16.7 | 9.14 | 9.46 | 15.68 | 11.4 | 6.02 | 20.73 | 4.91 |
| 75616 | 'Smim15' | 12.65 | 11.41 | 6.48 | 11.3 | 9.2 | 19.89 | 19.6 | 5.2 | 11.59 | 6.48 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 75617 | 'Rps25' | 375.9 | 401.6 | 447 | 451 | 325 | 464.3 | 372 | 224.5 | 490.2 | 329.69 |
| 75619 | 'Fastkd2' | 34.59 | 12.63 | 19.6 | 7.7 | 2.51 | 1.58 | 4.81 | 14.14 | 10.38 | 9.84 |
| 75620 | 'Kxd1' | 51.82 | 40.83 | 52.2 | 60.2 | 19.4 | 15.42 | 27.9 | 43.42 | 31.1 | 45.63 |
| 75623 | 'Tex30' | 8.92 | 19.98 | 11.4 | 16.7 | 3.19 | 0.04 | 9.66 | 15.85 | 10.16 | 5.39 |
| 75624 | 'Metap1' | 24.33 | 52.41 | 39 | 41.8 | 28.3 | 17.86 | 29.5 | 17.97 | 9.69 | 17.09 |
| 75625 | 'Mageh1' | 93.46 | 96.92 | 52.6 | 17.8 | 44.4 | 49.06 | 94.7 | 78.65 | 127.5 | 97.91 |
| 75627 | 'Snapc1' | 38.85 | 28.79 | 23.4 | 31.9 | 18.5 | 22.76 | 43.7 | 36.47 | 26.23 | 59.14 |
| 75641 | '1700029I15Rik' | 0.29 | 0.15 | 0 | 0.19 | 1.58 | 0 | 0.81 | 0 | 2.27 | 0.14 |
| 75646 | 'Rai14' | 0.83 | 0 | 0 | 0 | 0 | 0 | 0.08 | 0.94 | 0 | 0.05 |
| 75647 | 'Ssmem1' | 0 | 0 | 0 | 0 | 0 | 0 | 1.03 | 0 | 0 | 0 |
| 75657 | 'Speer4a' | 0 | 0.17 | 0 | 2.31 | 0.03 | 0 | 0 | 0 | 0 | 1 |
| 75659 | 'Wdr54' | 32.88 | 30.57 | 47.8 | 38.6 | 45 | 34.78 | 35.7 | 30.78 | 29.47 | 59.3 |
| 75660 | 'Lin37' | 67.21 | 33.74 | 38.1 | 65.4 | 47.6 | 42.67 | 24.6 | 42.75 | 74.84 | 61.44 |
| 75665 | 'Bicd11' | 5.93 | 11.25 | 7.23 | 6.8 | 6.27 | 11.02 | 4.12 | 10.6 | 13.76 | 0.49 |
| 75668 | 'Rasl10a' | 0 | 1.05 | 0 | 0 | 1.23 | 0 | 0 | 6.9 | 0 | 0 |
| 75669 | 'Pik3r4' | 6.86 | 9.19 | 12.7 | 4.87 | 3.71 | 0.37 | 10.1 | 2.76 | 5.75 | 2.86 |
| 75671 | 'Tex22' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0.14 |
| 75677 | 'Cldn22' | 0 | 0 | 0.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75678 | 'lppk' | 7.72 | 9.31 | 9.69 | 9.92 | 4.49 | 8.03 | 13.3 | 16.33 | 3.13 | 3.92 |
| 75686 | 'Nudt16' | 20.88 | 19.72 | 22.4 | 15.2 | 42.1 | 33.89 | 16.6 | 45.83 | 28.16 | 39.17 |
| 75687 | 'Ripor1' | 11.54 | 14.79 | 37 | 29 | 14.9 | 6.26 | 9.96 | 13.25 | 27.6 | 16.95 |
| 75689 | 'Higd1b' | 0 | 0 | 0 | 1.94 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75690 | 'Vsig10l' | 2.4 | 6.37 | 1.07 | 0 | 4.24 | 0 | 0 | 1.5 | 5.24 | 0.89 |
| 75691 | 'Anks6' | 0.06 | 0.08 | 1.67 | 3.61 | 0 | 0.33 | 0.54 | 0 | 1 | 0.42 |
| 75692 | 'Nr2c2ap' | 28.83 | 17.88 | 29.1 | 0 | 19.9 | 27.41 | 2.94 | 40.35 | 40.54 | 69.06 |
| 75695 | 'Rilpl1' | 18.17 | 3.71 | 9.29 | 5.69 | 7.76 | 8.85 | 2.18 | 14.18 | 13.73 | 6.46 |
| 75697 | 'C2cd4b' | 0 | 1.05 | 0.23 | 9.58 | 0 | 0.37 | 0 | 0.37 | 0 | 0.14 |
| 75698 | 'Shld2' | 0 | 0 | 0 | 0 | 1.26 | 1.91 | 0 | 0.75 | 0 | 0.69 |
| 75705 | 'Eif4b' | 22.63 | 27.97 | 37.9 | 40.5 | 31.9 | 18.87 | 20.8 | 18.86 | 30.27 | 22.05 |
| 75710 | 'Rbm12' | 2.25 | 5.32 | 2.76 | 3.56 | 6.34 | 3.01 | 9.62 | 8.58 | 3.66 | 6.15 |
| 75712 | 'Tmem14a' | 53.9 | 30.57 | 33.2 | 61.8 | 38.4 | 56.05 | 48.8 | 30.78 | 22.33 | 67.02 |
| 75717 | 'Cul5' | 16.19 | 11.5 | 12.9 | 12.3 | 9.67 | 10.82 | 10.4 | 5.18 | 9.48 | 8.43 |
| 75718 | 'Vwa5b1' | 2.49 | 2.47 | 4.35 | 0.01 | 5.59 | 4 | 2.72 | 3.28 | 4.09 | 3.54 |
| 75723 | 'Amotl1' | 8.09 | 16.01 | 13.8 | 9.6 | 9.57 | 3.92 | 7.64 | 11.1 | 10.16 | 13.17 |
| 75725 | 'Phf14' | 7.7 | 6.08 | 3.31 | 10.5 | 1.37 | 0.39 | 9.97 | 6.36 | 5.37 | 2.86 |
| 75729 | 'Fam227a' | 1.61 | 3.37 | 3.9 | 8 | 5.05 | 4.19 | 6.05 | 0.66 | 0.47 | 0 |
| 75731 | 'ldnk' | 33.19 | 48.2 | 25.6 | 28.3 | 17.5 | 52.26 | 11.2 | 37.08 | 41.42 | 39.33 |
| 75732 | 'lqcd' | 0 | 0.61 | 1.08 | 2.38 | 0 | 2.18 | 0 | 1.31 | 0.28 | 0.01 |
| 75734 | 'Mff' | 249 | 260.1 | 245 | 296 | 192 | 237.7 | 295 | 290.9 | 223.8 | 234.55 |
| 75735 | 'Pank1' | 1.82 | 0.46 | 0.94 | 1.8 | 2.19 | 0.04 | 1.99 | 0.98 | 0.63 | 2.54 |
| 75736 | 'Bcl2l12' | 5.77 | 0 | 3.25 | 0 | 0 | 0 | 5.23 | 0 | 0 | 0.9 |
| 75739 | 'Mpp7' | 2.89 | 5.15 | 0.35 | 0.1 | 0.12 | 0.08 | 0.02 | 2.21 | 0.11 | 2.88 |
| 75740 | 'Egfem1' | 7.48 | 4.05 | 0.3 | 9.63 | 12.5 | 2.28 | 8.11 | 6.12 | 1.47 | 2.7 |
| 75744 | 'Svip' | 14.68 | 19.97 | 9.48 | 8.8 | 27.8 | 6 | 11.9 | 9.7 | 11.88 | 11.94 |
| 75746 | 'Morc4' | 1.74 | 0.04 | 0.35 | 0 | 1.58 | 1.29 | 0.82 | 1.14 | 0.87 | 0 |
| 75747 | 'Sesn3' | 9.2 | 2.27 | 4.94 | 0.82 | 6.02 | 3.42 | 7.69 | 5.44 | 2.22 | 0.1 |
| 75750 | 'Slc10a6' | 0 | 0.43 | 0 | 0 | 0 | 0 | 1.01 | 0 | 0 | 0 |
| 75751 | 'lpo4' | 29.31 | 41.53 | 44.3 | 32 | 38.4 | 23.07 | 55.7 | 39.18 | 25.64 | 46.27 |
| 75758 | '9130401M01Rik' | 33.73 | 21.17 | 31 | 28.5 | 50.9 | 50.6 | 68.9 | 28.13 | 30.44 | 38.71 |
| 75763 | 'Dcaf17' | 8.71 | 8.06 | 4.67 | 7.75 | 13.9 | 9.1 | 8.16 | 1.5 | 13.91 | 14.11 |
| 75764 | 'Slx1b' | 3.71 | 4.67 | 5.68 | 6.56 | 4.83 | 11.85 | 13 | 5.41 | 4.98 | 2.26 |
| 75766 | 'Dcstamp' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| 75767 | 'Rab11fip1' | 0.04 | 0.01 | 0.09 | 0.06 | 0.75 | 0.01 | 0.06 | 0.01 | 0.55 | 0.06 |
| 75769 | 'Plppr5' | 4.17 | 1.52 | 3.49 | 1.25 | 0.65 | 0.08 | 0 | 2.76 | 2.5 | 0.38 |
| 75770 | 'Brsk2' | 1.05 | 3.08 | 7.44 | 5.1 | 4.51 | 4.39 | 7.01 | 3.94 | 1.7 | 3.51 |
| 75778 | 'Them4' | 47.85 | 25.93 | 30.8 | 19.5 | 17.4 | 11.45 | 15.8 | 23.31 | 42.56 | 14.79 |
| 75782 | 'Lca5' | 1.67 | 0.98 | 3.5 | 2.75 | 1 | 0.01 | 0 | 2.05 | 0.56 | 3.35 |
| 75785 | 'Klhl24' | 2.3 | 7.34 | 5.49 | 7.58 | 6.98 | 6.24 | 1 | 5.32 | 4.6 | 10.83 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 75786 | 'Ckap5' | 12.56 | 6.06 | 9.91 | 12.1 | 16.1 | 7.4 | 7 | 6.79 | 5.76 | 13.78 |
| 75788 | 'Smurf1' | 0.27 | 1.98 | 2.49 | 2.8 | 2.58 | 0.39 | 1.47 | 0.93 | 0.01 | 0.17 |
| 75796 | 'Cdy12' | 4.71 | 2.8 | 2.57 | 5.23 | 8.13 | 3.2 | 0.17 | 4.8 | 5.42 | 11.88 |
| 75799 | '4930444P10Rik' | 2.28 | 1.34 | 0 | 0 | 0.3 | 0 | 1.8 | 0.34 | 14.32 | 1.42 |
| 75801 | '4930447C04Rik' | 6.7 | 3.26 | 1.29 | 5.73 | 6.01 | 7.89 | 1.71 | 2.55 | 6.18 | 6.64 |
| 75805 | 'Nln' | 8.22 | 11.43 | 15.2 | 5.48 | 12.8 | 1.02 | 0.82 | 11.93 | 6.36 | 2.36 |
| 75812 | 'Tasp1' | 9.71 | 17.48 | 19.9 | 20.8 | 27.6 | 28.47 | 6.67 | 38.38 | 39.94 | 25.78 |
| 75820 | 'Wdr64' | 0.71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.71 |
| 75823 | 'Fam227b' | 0 | 0 | 0.06 | 4.17 | 0 | 0 | 0 | 0 | 0.06 | 0 |
| 75826 | 'Senp2' | 5.83 | 11.2 | 6.82 | 12 | 1.9 | 3.75 | 6.03 | 9.47 | 10.74 | 7.52 |
| 75841 | 'Rnf139' | 3.77 | 9.34 | 8.26 | 7.84 | 1.73 | 4.02 | 0.13 | 1.14 | 3.48 | 3.96 |
| 75847 | 'Ispd' | 6.86 | 15.83 | 12 | 12.3 | 4.08 | 13.41 | 4.92 | 16.23 | 17.5 | 4.13 |
| 75860 | 'Tex26' | 3.93 | 0 | 5.01 | 0 | 4.46 | 0 | 0.03 | 0 | 0 | 4.31 |
| 75869 | 'Arl5b' | 3.06 | 1.72 | 3.17 | 0.02 | 0.45 | 0.73 | 0.88 | 1.15 | 0.73 | 0.16 |
| 75870 | 'Tcam1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 |
| 75871 | 'Zfp821' | 2.33 | 5.84 | 2.85 | 41.6 | 14.4 | 15.15 | 7.4 | 12.68 | 7.98 | 5.54 |
| 75894 | 'Adal' | 15.21 | 5.39 | 12.2 | 7.44 | 20.5 | 9.56 | 21.5 | 15.97 | 9.25 | 9.82 |
| 75901 | 'Dcp1a' | 0 | 2.91 | 5.39 | 4.36 | 1.29 | 3.38 | 0.01 | 1.86 | 8.82 | 2.19 |
| 75906 | 'Fam184a' | 1.71 | 3.19 | 2.16 | 7.41 | 0.42 | 3.4 | 0.08 | 0.34 | 2.65 | 1.9 |
| 75909 | 'Vmp1' | 70.84 | 83.9 | 74.2 | 57.6 | 82.4 | 92.74 | 62.6 | 75.59 | 81.76 | 69.6 |
| 75914 | 'Exoc6b' | 11.55 | 8.35 | 30.8 | 19.8 | 10.3 | 5.98 | 11.8 | 7.36 | 16.51 | 20.08 |
| 75939 | '4930579G24Rik' | 0.14 | 0.24 | 0.13 | 7.09 | 0.35 | 0.21 | 0.16 | 1.31 | 0.33 | 4.39 |
| 75953 | 'Samd7' | 1.43 | 2.33 | 0 | 0 | 0 | 2.68 | 0 | 0 | 0.01 | 0 |
| 75956 | 'Srrm2' | 54.77 | 45.75 | 71.1 | 86.1 | 113 | 27.3 | 44.5 | 24.9 | 86.69 | 49.64 |
| 75964 | 'Trappc8' | 0.92 | 1.2 | 0.69 | 1.3 | 0.96 | 0 | 0.4 | 1.11 | 1.04 | 0.01 |
| 75965 | 'Zdhhc20' | 34.74 | 22.28 | 16.6 | 27 | 17 | 15.39 | 15.2 | 27.24 | 25.83 | 17.64 |
| 75973 | 'Ccdc162' | 0.04 | 0.01 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0.07 | 0 |
| 75974 | 'Dock11' | 0.59 | 2.97 | 1.68 | 1.67 | 0.72 | 0.88 | 0.01 | 0.52 | 0.05 | 4.15 |
| 75985 | 'Rab30' | 1 | 5.28 | 5.61 | 14.5 | 3.68 | 14.61 | 10.2 | 1.3 | 3.24 | 0.16 |
| 75991 | 'Slain2' | 0.02 | 0.04 | 1.17 | 0.03 | 1.43 | 0.35 | 0 | 1.4 | 0.2 | 0.65 |
| 76007 | 'Zmym2' | 5.43 | 4.77 | 6.21 | 14.2 | 4.62 | 4.98 | 5.39 | 3.15 | 11.31 | 6.26 |
| 76014 | 'Zc3h18' | 4.03 | 1.91 | 1.84 | 4.87 | 3.8 | 3.06 | 3.84 | 6.16 | 1.21 | 2.8 |
| 76022 | 'Gon4l' | 9.36 | 9.63 | 7.77 | 11.2 | 9.06 | 16.53 | 10.7 | 7.17 | 12.37 | 12.92 |
| 76025 | 'Cant1' | 19.52 | 10.88 | 26.1 | 13.3 | 20.7 | 21.57 | 36.5 | 31.53 | 29.14 | 22.06 |
| 76041 | 'Ccdc125' | 0.06 | 0.16 | 0 | 0 | 0 | 0 | 0.75 | 0 | 1.31 | 0 |
| 76044 | 'Ncapg2' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.6 |
| 76051 | 'Ganc' | 2.44 | 1.63 | 1.17 | 0 | 3.29 | 1.12 | 0 | 1.19 | 1.6 | 0.22 |
| 76055 | 'Mgea5' | 11.44 | 12 | 14.3 | 24.9 | 4.99 | 14.65 | 11.2 | 7.92 | 28.63 | 7.99 |
| 76071 | 'Jakmip1' | 38.83 | 37.24 | 43.6 | 43.3 | 32 | 31.76 | 65.1 | 23.72 | 29.91 | 22.71 |
| 76072 | 'Rnf183' | 2.69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76073 | 'Pcgf5' | 18.49 | 10.97 | 4.16 | 15.6 | 7.63 | 19.58 | 11.7 | 5.41 | 6.18 | 23.11 |
| 76074 | 'Gbp8' | 0 | 0 | 0 | 0.02 | 0.31 | 0 | 0 | 0 | 0 | 0 |
| 76080 | 'Ttpal' | 5.45 | 3.02 | 4.33 | 0.01 | 8.7 | 2.66 | 3.49 | 3.7 | 6.31 | 14.94 |
| 76088 | 'Dock8' | 0 | 0 | 0 | 0 | 0.01 | 0.02 | 0 | 0 | 2.12 | 1.52 |
| 76089 | 'Rapgef2' | 2.67 | 4.97 | 5.61 | 2.3 | 3.9 | 3.4 | 4.66 | 2.65 | 3.95 | 3.16 |
| 76108 | 'Rap2a' | 5.77 | 6.01 | 0.81 | 13.8 | 7.08 | 1.04 | 6.66 | 2.39 | 4.07 | 4.4 |
| 76113 | 'Lpo' | 3.62 | 1.07 | 0.02 | 0 | 0 | 0 | 0 | 3.54 | 0 | 2.44 |
| 76117 | 'Arhgap15' | 23.57 | 18.19 | 28.2 | 48.4 | 39 | 41.18 | 31.6 | 14.2 | 32.1 | 23.81 |
| 76123 | 'Gpsm2' | 0 | 1.35 | 0 | 5.23 | 0 | 0.05 | 0.02 | 0.03 | 0 | 1.73 |
| 76130 | 'Las1l' | 23.28 | 31.22 | 54 | 62.7 | 48.6 | 25.73 | 33.4 | 40.41 | 29.75 | 26.6 |
| 76131 | 'Depdc1a' | 0 | 0 | 0.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0.32 |
| 76132 | 'Faxc' | 1.36 | 0.98 | 1.6 | 0.47 | 0.31 | 1.76 | 0.48 | 0.58 | 2.23 | 1.52 |
| 76137 | 'Mcur1' | 4.66 | 1.33 | 2.5 | 0 | 3.38 | 0.02 | 1.93 | 0.54 | 0.04 | 0.06 |
| 76138 | 'Ccdc138' | 5.96 | 1.57 | 3.45 | 3.54 | 3.98 | 5.13 | 3.11 | 2.69 | 3.61 | 0.63 |
| 76142 | 'Ppp1r14c' | 10.78 | 15.24 | 16.3 | 24 | 4.81 | 8.24 | 27 | 11.65 | 16.88 | 9.2 |
| 76156 | 'Fam131b' | 0.18 | 0 | 0.01 | 0 | 1.09 | 3.16 | 0.2 | 0.73 | 0 | 0 |
| 76157 | 'Slc35d3' | 0 | 3.85 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 76161 | 'Lamp5' | 27.31 | 74.64 | 0.75 | 18.3 | 0.08 | 0.07 | 74.6 | 167.9 | 0.03 | 0.67 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 76166 | 'Rsg1' | 1.64 | 0 | 6.57 | 8.01 | 9.47 | 10.76 | 5.65 | 7.78 | 1.98 | 8.27 |
| 76167 | 'Snrnp35' | 10.6 | 14.97 | 9.03 | 11 | 14.6 | 1.6 | 17.6 | 12.71 | 3.73 | 19.44 |
| 76178 | 'Coa5' | 28 | 29.89 | 41.2 | 23.3 | 31.9 | 12.1 | 32.4 | 21.31 | 22.38 | 34.69 |
| 76179 | 'Usp31' | 0.86 | 2.47 | 1.38 | 1.17 | 1.88 | 1.81 | 0.7 | 0.21 | 1.12 | 0.72 |
| 76183 | 'Celf6' | 91.73 | 57.97 | 30.6 | 40.6 | 64 | 31.86 | 22 | 40.06 | 75.58 | 75.54 |
| 76184 | 'Abca6' | 0.01 | 0.25 | 2.18 | 0.38 | 0.02 | 0.01 | 0 | 0.01 | 0.04 | 0.02 |
| 76187 | 'Adhfe1' | 2.57 | 2.97 | 4.06 | 7.91 | 7.05 | 7.9 | 0 | 3.85 | 0 | 5.14 |
| 76192 | 'Abhd12' | 108.1 | 102.3 | 140 | 113 | 136 | 128.6 | 106 | 119.4 | 150.4 | 79.62 |
| 76199 | 'Med13l' | 0.89 | 1.59 | 1.24 | 2.61 | 2.48 | 0.71 | 1.22 | 0.73 | 2.65 | 1.02 |
| 76205 | 'Stard3nl' | 128.1 | 110.9 | 92.7 | 54.1 | 91.9 | 147.9 | 107 | 101.2 | 65.2 | 121.95 |
| 76206 | 'Gpr165' | 16.83 | 17.93 | 28 | 6.03 | 1.02 | 2.48 | 16.4 | 35.49 | 57.33 | 36.83 |
| 76217 | 'Jakmip2' | 25.03 | 26.45 | 17.8 | 6.16 | 30.8 | 23.98 | 15.2 | 27.72 | 26.56 | 24.64 |
| 76219 | 'Arxes1' | 138.6 | 182.9 | 70.4 | 88.7 | 75.9 | 107.9 | 90.7 | 120 | 74.47 | 76.34 |
| 76223 | 'Agbl3' | 4.99 | 6.85 | 9.96 | 9.43 | 8.57 | 18.38 | 5.57 | 1.6 | 5.34 | 5.05 |
| 76229 | 'Vmn2r29' | 0.09 | 0.76 | 0.69 | 0 | 0.78 | 0.27 | 0.47 | 0.33 | 0.12 | 0.5 |
| 76233 | 'Dnttip1' | 8.34 | 5.56 | 3.59 | 0 | 12.8 | 12.03 | 9.49 | 4.09 | 16.38 | 3.51 |
| 76237 | '6430628N08Rik' | 5.21 | 0 | 0 | 0 | 4.13 | 0 | 4.84 | 2.65 | 0 | 1.93 |
| 76238 | 'Grhpr' | 60.92 | 70.1 | 59.5 | 63.5 | 34.3 | 80.85 | 72.7 | 66.58 | 52.28 | 46.61 |
| 76246 | 'Rtf1' | 5.27 | 4.63 | 6.67 | 6.72 | 13.6 | 7.36 | 4.95 | 7.55 | 7.38 | 6.29 |
| 76251 | 'Ercc6l2' | 1.21 | 3.61 | 3.38 | 3.71 | 1.82 | 2.49 | 4.08 | 2.29 | 2.44 | 0.03 |
| 76252 | 'Atp6v0e2' | 319.4 | 300.9 | 403 | 273 | 302 | 525.4 | 419 | 466 | 407 | 367.18 |
| 76257 | 'Slc38a3' | 11.9 | 4.46 | 13.9 | 6.11 | 1.06 | 6.48 | 13 | 5.39 | 0.02 | 3.84 |
| 76260 | 'Ttc8' | 26.26 | 25.68 | 27.2 | 16.7 | 22.8 | 41.04 | 10 | 24.99 | 19.19 | 33.82 |
| 76261 | '0610040J01Rik' | 3.97 | 0 | 7.62 | 9.49 | 0 | 0 | 5.56 | 2.58 | 0 | 3.52 |
| 76263 | 'Gstk1' | 11.15 | 1.94 | 7.49 | 30.2 | 10.2 | 36.88 | 6.95 | 9.59 | 0 | 15.86 |
| 76265 | 'Tsen54' | 2.51 | 1.78 | 0 | 2.55 | 6.59 | 4.96 | 3.41 | 2.14 | 0 | 3.29 |
| 76267 | 'Fads1' | 29.03 | 32.27 | 40.4 | 7.87 | 25.7 | 20.25 | 25.1 | 22.13 | 17.36 | 16.26 |
| 76273 | 'Ndfip2' | 34.93 | 14.04 | 37.3 | 38.1 | 17.8 | 12.41 | 14.7 | 34.26 | 33.55 | 15.92 |
| 76281 | 'Tax1bp3' | 5.22 | 8.09 | 2.1 | 16 | 8.57 | 8.59 | 14.2 | 13.28 | 3.45 | 14.89 |
| 76282 | 'Gpt' | 0 | 2.08 | 0 | 0 | 0.5 | 0 | 0 | 0 | 2.87 | 0.02 |
| 76294 | 'Asb5' | 0.03 | 0 | 0.07 | 0.65 | 0 | 0 | 0 | 0.03 | 0.03 | 0 |
| 76295 | 'Atp11b' | 7.75 | 3.36 | 12.5 | 13 | 5.99 | 2.35 | 4.14 | 5.32 | 19.85 | 3.92 |
| 76299 | 'Erp44' | 43.65 | 44.29 | 19.7 | 24.6 | 27.1 | 38.97 | 19.9 | 36.68 | 47.37 | 48.58 |
| 76302 | 'Pcnp' | 184.1 | 173.9 | 166 | 176 | 174 | 169.3 | 107 | 159.8 | 213.1 | 194.25 |
| 76303 | 'Osbp' | 2.25 | 1.22 | 0.83 | 2.68 | 2.17 | 2.1 | 1.96 | 1.08 | 1.82 | 0.34 |
| 76306 | 'Slc18b1' | 12.01 | 2.31 | 6.09 | 8.33 | 6.88 | 6.22 | 3.06 | 4.14 | 13.31 | 10.45 |
| 76308 | 'Rab1b' | 146.3 | 224.9 | 145 | 161 | 175 | 217.5 | 163 | 162.9 | 139.2 | 186.67 |
| 76332 | 'Cog2' | 9.72 | 7.64 | 16.1 | 0.12 | 9.91 | 4.11 | 12.2 | 7.8 | 26.59 | 7.26 |
| 76338 | 'Rab2b' | 37.02 | 20.43 | 29.9 | 4.37 | 10.9 | 18.98 | 49.6 | 34.46 | 20.34 | 34.2 |
| 76355 | 'Tgds' | 8.32 | 2.2 | 7.16 | 7.38 | 3.47 | 4.8 | 5.95 | 1.61 | 9.4 | 5.93 |
| 76357 | 'Trmt5' | 3.99 | 16.05 | 9.69 | 0 | 3.1 | 0.08 | 11.9 | 14 | 0 | 15.02 |
| 76366 | 'Mtif3' | 13.3 | 9.35 | 12.5 | 23.7 | 16.2 | 7.49 | 17 | 13.23 | 6.8 | 18.13 |
| 76367 | 'Trp53rkb' | 0.27 | 1.55 | 0.19 | 3.11 | 3.18 | 2.88 | 6.02 | 1.41 | 0.02 | 0 |
| 76373 | 'Zfp773' | 0.1 | 0.03 | 2.52 | 2.67 | 0.05 | 0.04 | 0.13 | 0 | 2.73 | 0 |
| 76375 | 'Det1' | 0 | 1.74 | 0 | 0 | 5.75 | 0.76 | 0 | 0.08 | 0 | 3.59 |
| 76376 | 'Slc24a2' | 4.59 | 0.88 | 6.26 | 2.01 | 5.83 | 3.37 | 3.12 | 2.64 | 1.54 | 1.12 |
| 76380 | 'Cep112' | 4.88 | 4.03 | 2.5 | 9.7 | 5.13 | 6.3 | 5.14 | 2.7 | 3.67 | 10.18 |
| 76405 | '1700018B08Rik' | 0 | 0 | 0 | 0 | 1.9 | 0 | 0 | 0 | 0 | 0 |
| 76406 | 'Tex45' | 0 | 2.64 | 0 | 4.18 | 0 | 0 | 0 | 0 | 2.32 | 0 |
| 76408 | 'Abcc3' | 0 | 0 | 0 | 0 | 0 | 0.73 | 0 | 0.49 | 0.24 | 0 |
| 76411 | 'lft43' | 23.76 | 14.39 | 12 | 25.4 | 51.7 | 22.16 | 15.8 | 31.78 | 30.7 | 25.18 |
| 76413 | '1700016D06Rik' | 0.11 | 0.23 | 0 | 0 | 0 | 0 | 0.52 | 0.03 | 0 | 0 |
| 76415 | 'Fam187b' | 0 | 0 | 0 | 0 | 3.77 | 0 | 0 | 0 | 0 | 0 |
| 76416 | 'Znrd1as' | 15.6 | 10.86 | 4.6 | 9.42 | 7.31 | 7.75 | 0 | 0.17 | 0 | 16.36 |
| 76421 | '1700028K03Rik' | 0.21 | 0.19 | 1.65 | 0 | 0.26 | 0 | 1.26 | 0.01 | 0 | 0.22 |
| 76425 | 'Gid8' | 27.07 | 37.28 | 34.6 | 25.6 | 51.7 | 39.37 | 31.8 | 48.05 | 39.42 | 23.05 |
| 76426 | 'Fam209' | 0 | 0.16 | 0 | 3.33 | 0 | 0.31 | 0 | 0 | 0 | 1.28 |
| 76429 | 'Lhpp' | 6.59 | 2.65 | 11.2 | 0.04 | 13.9 | 12.24 | 24 | 13.65 | 0 | 13.43 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 76438 | 'Rftn1' | 15.58 | 20.56 | 4.08 | 23.6 | 17 | 29.01 | 13.8 | 11.14 | 26.52 | 19.37 |
| 76441 | 'Daam2' | 2.04 | 0.56 | 0.01 | 3.27 | 5.81 | 0 | 1.75 | 0 | 0.06 | 1.42 |
| 76448 | 'Ppp1r18' | 0.02 | 4.45 | 0.25 | 0 | 0.04 | 0 | 0 | 1.52 | 0 | 3.28 |
| 76453 | 'Prss23' | 3.24 | 0 | 0 | 0 | 19.3 | 0 | 0 | 3.66 | 0 | 0 |
| 76454 | 'Fbxo31' | 8.17 | 2.43 | 6.13 | 8.43 | 7.87 | 4.54 | 15.7 | 4.53 | 4.62 | 0.33 |
| 76457 | 'Ccdc134' | 3.22 | 0.55 | 11.6 | 8.89 | 4.05 | 0 | 2 | 3.86 | 0 | 1.95 |
| 76459 | 'Car12' | 1.25 | 0 | 6.42 | 0 | 0 | 0.12 | 0.01 | 2.56 | 0.05 | 0 |
| 76464 | 'Knl1' | 0 | 0 | 0.01 | 0.01 | 0 | 0.01 | 0 | 0 | 0.01 | 0 |
| 76467 | 'Msr2' | 64.04 | 21.37 | 23.3 | 52.2 | 21.2 | 25.85 | 20.2 | 29.14 | 19.37 | 26.46 |
| 76469 | 'Cmya5' | 0 | 0.23 | 0.02 | 0.22 | 0.01 | 0.01 | 0.02 | 0.01 | 0 | 0.02 |
| 76477 | 'Pcolce2' | 3.49 | 24.3 | 1.81 | 4.05 | 5.38 | 0 | 16.2 | 1.53 | 1.34 | 2.91 |
| 76478 | 'Haus8' | 24.01 | 13.47 | 29.8 | 0.04 | 23 | 46.77 | 9.61 | 21.32 | 8.16 | 27.44 |
| 76479 | 'Smndc1' | 21.59 | 22 | 17.2 | 23.6 | 14.1 | 6.82 | 17.9 | 19.35 | 17.01 | 13.18 |
| 76482 | 'Rmc1' | 24.39 | 18.79 | 32.2 | 26.6 | 19.2 | 63.03 | 30.7 | 33.61 | 14.81 | 40.39 |
| 76483 | 'Lmf1' | 11.22 | 30.23 | 13.6 | 49.8 | 13.4 | 0.46 | 13.4 | 14.37 | 13.36 | 28.42 |
| 76484 | 'Kndc1' | 1.93 | 3.36 | 2.93 | 7.59 | 3.48 | 1.23 | 3.79 | 4.95 | 3.07 | 4.02 |
| 76485 | 'Glt8d1' | 19.22 | 24.84 | 10.5 | 20.5 | 37.8 | 20.11 | 21.6 | 8.12 | 27.29 | 20.84 |
| 76487 | 'Ppp1r3g' | 0 | 2.12 | 0 | 0 | 0 | 0 | 0 | 2.43 | 0 | 0 |
| 76491 | 'Abhd14b' | 9.49 | 19.2 | 19.3 | 11 | 56.7 | 37.39 | 26.2 | 8.66 | 29.48 | 22.1 |
| 76497 | 'Ppp1r11' | 122 | 103.9 | 109 | 111 | 146 | 112.1 | 96 | 110.1 | 116.1 | 111.11 |
| 76498 | 'Paqr4' | 23.76 | 9.2 | 36.6 | 26.4 | 18.7 | 3.31 | 18.4 | 13.3 | 18.92 | 10.63 |
| 76499 | 'Clasp2' | 30.52 | 29.19 | 32.9 | 39.4 | 23 | 21.81 | 32.3 | 25.04 | 53.43 | 42.01 |
| 76500 | 'Ip6k2' | 56.97 | 86.41 | 96.9 | 147 | 61.9 | 87.35 | 92.6 | 124.3 | 97.69 | 67.66 |
| 76501 | 'Commd9' | 98.39 | 68.2 | 81.6 | 157 | 86.5 | 167.7 | 53 | 108.4 | 122.4 | 91.29 |
| 76507 | 'Aoc1' | 0 | 1.82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76509 | 'Plet1' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 1.46 | 0 | 0 |
| 76510 | 'Trappc9' | 27.2 | 38.32 | 48.2 | 29.4 | 24.1 | 25.84 | 27.9 | 38.18 | 40.25 | 29.28 |
| 76522 | 'Lsm8' | 42.19 | 45.26 | 27.1 | 13.1 | 27 | 46.7 | 25.6 | 28.96 | 34.96 | 38.19 |
| 76524 | 'Cln6' | 3.19 | 0 | 0 | 0 | 0.65 | 4.4 | 0 | 2.33 | 0 | 0 |
| 76527 | 'Il34' | 41.45 | 39.65 | 44.2 | 11.1 | 20.6 | 62.17 | 34.1 | 39.09 | 18.51 | 26.45 |
| 76539 | 'Fam204a' | 15.74 | 12.02 | 16 | 36.6 | 27.2 | 25.74 | 16.4 | 16.29 | 23.31 | 16.23 |
| 76547 | 'Tmem101' | 14.37 | 20.12 | 18.6 | 24.3 | 25 | 26.94 | 41.3 | 31.55 | 38.87 | 34.08 |
| 76551 | 'Ccdc6' | 7.55 | 15.14 | 8.7 | 5.63 | 9.87 | 12.14 | 6.05 | 7.93 | 12.28 | 12.11 |
| 76559 | 'Atg2b' | 4.13 | 4.48 | 8.91 | 7 | 4.53 | 3.53 | 5.56 | 7.62 | 6.95 | 4.48 |
| 76560 | 'Prss8' | 0 | 2.96 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 |
| 76561 | 'Snx7' | 10.91 | 13.04 | 7.5 | 9.83 | 12.5 | 8.29 | 17.2 | 8.92 | 11.06 | 1.35 |
| 76563 | 'Qrs11' | 11.18 | 12.83 | 5.05 | 1.2 | 1.04 | 16.57 | 8.43 | 9.52 | 12.76 | 18.95 |
| 76566 | 'Rflnb' | 2.4 | 1.72 | 0.16 | 0 | 3.64 | 0.86 | 1.51 | 0.87 | 3.35 | 0.44 |
| 76568 | 'Ift46' | 30.11 | 52.27 | 37.8 | 46 | 34.3 | 47.33 | 59.6 | 33.52 | 44.7 | 64.72 |
| 76571 | 'Styx11' | 0 | 1.04 | 0.03 | 0 | 3.83 | 0 | 1.38 | 4.19 | 0.49 | 0.62 |
| 76574 | 'Mfsd2a' | 0 | 3.01 | 30.7 | 0 | 0.75 | 8.69 | 23.1 | 9.14 | 0 | 0 |
| 76577 | 'Faf2' | 21.5 | 17.33 | 25.1 | 16.8 | 13.8 | 26.01 | 14.3 | 22.82 | 24.33 | 28.41 |
| 76580 | 'Mib2' | 7.33 | 16.03 | 38.1 | 21.2 | 22.7 | 11.4 | 44.9 | 14.54 | 45.36 | 16.6 |
| 76582 | 'lpo11' | 7 | 2.83 | 8.64 | 7.39 | 3.76 | 4.12 | 6.03 | 3.85 | 3.93 | 5.93 |
| 76589 | 'Unc5cl' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.38 | 0 |
| 76594 | 'Dnajc18' | 17.75 | 20.38 | 19.3 | 4.48 | 23.1 | 19.23 | 11.5 | 20.78 | 21.33 | 16.56 |
| 76608 | 'Hectd3' | 10.15 | 10.56 | 17.4 | 3.98 | 3.71 | 0.08 | 16.8 | 3.92 | 13.02 | 4.22 |
| 76612 | 'Lrrc27' | 7.36 | 12.31 | 3.63 | 4.91 | 6.2 | 8 | 6.8 | 8.12 | 10.08 | 11.1 |
| 76614 | 'Immt' | 67.98 | 91.35 | 108 | 73 | 79.7 | 53.31 | 63.8 | 75.56 | 72.16 | 93.86 |
| 76615 | 'Got111' | 0 | 0 | 9.06 | 0 | 3.79 | 4.88 | 20.7 | 7.18 | 8.18 | 0 |
| 76626 | 'Msi2' | 5.35 | 5.39 | 4.67 | 10.1 | 3.58 | 1.96 | 3.13 | 0.86 | 2.22 | 1.99 |
| 76630 | 'Stambpl1' | 30.52 | 39.54 | 36.5 | 40.8 | 14.5 | 21.65 | 18.1 | 19.55 | 24.73 | 31.18 |
| 76645 | 'Pkd1l2' | 0 | 0 | 0 | 0.04 | 0 | 0 | 0.15 | 1.38 | 0 | 0.15 |
| 76650 | 'Srxn1' | 21.95 | 23.76 | 19.4 | 5.95 | 20.5 | 12.04 | 6.48 | 27.99 | 17.28 | 24.34 |
| 76652 | 'Actrt3' | 2.2 | 1.02 | 2.45 | 0 | 0 | 0 | 0 | 3.38 | 7.6 | 0 |
| 76654 | 'Upp2' | 0 | 0.3 | 1.16 | 0.76 | 3.4 | 4.05 | 5.33 | 1.85 | 0.06 | 2.91 |
| 76658 | '1700123K08Rik' | 0 | 0 | 0.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76668 | 'Mdh1b' | 1.45 | 1.1 | 0 | 7.99 | 5.22 | 0 | 5.42 | 2.2 | 0 | 13.13 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 76670 | 'Cfap70' | 0.07 | 2.11 | 1.16 | 2.73 | 0.1 | 0 | 0 | 0.43 | 0 | 2.37 |
| 76681 | 'Trim12a' | 0 | 0 | 0 | 0 | 0 | 0 | 6.1 | 0 | 0 | 0 |
| 76686 | 'Clip3' | 34.95 | 35.22 | 110 | 31.6 | 48 | 24.46 | 40.8 | 62.35 | 35.68 | 32.29 |
| 76687 | 'Spes3' | 25.56 | 27.17 | 7.81 | 16.1 | 20.6 | 8.87 | 12.4 | 17.88 | 28.73 | 49.96 |
| 76688 | 'Arfrp1' | 34.1 | 50.67 | 43.7 | 52 | 33.3 | 41.36 | 49.6 | 50.35 | 57.89 | 53.74 |
| 76707 | 'Clasp1' | 6.59 | 6.01 | 12.3 | 3.17 | 4.28 | 11.11 | 4.58 | 3.98 | 4.07 | 7.4 |
| 76709 | 'Arpc2' | 122.1 | 118.6 | 101 | 125 | 107 | 99.69 | 120 | 110.9 | 174.8 | 88.48 |
| 76718 | 'Catsperg2' | 0 | 0.85 | 0.11 | 0 | 3.44 | 0 | 0.03 | 0 | 0 | 0 |
| 76719 | 'Kansl1' | 10.02 | 4.75 | 12.3 | 8.25 | 4.57 | 8.53 | 12 | 7.37 | 15.32 | 6.84 |
| 76722 | 'Ckmt2' | 1.55 | 3.16 | 3.84 | 0.74 | 0.82 | 1.41 | 0.75 | 0.45 | 1.05 | 1.34 |
| 76737 | 'Creld2' | 59.97 | 60.54 | 41.9 | 38.8 | 32.9 | 43.45 | 46.1 | 26.67 | 35.45 | 67.12 |
| 76740 | 'Efr3a' | 22.87 | 16.39 | 27.8 | 3.28 | 14 | 9.76 | 20.1 | 16.57 | 20.6 | 24.61 |
| 76742 | 'Snx27' | 9.73 | 10.1 | 4.43 | 7.5 | 5.18 | 3.49 | 8.45 | 5.56 | 7.04 | 5.42 |
| 76743 | 'Gje1' | 0.06 | 0.19 | 0.39 | 0.55 | 0.46 | 0.1 | 0.39 | 0.07 | 0.4 | 0.16 |
| 76757 | 'Trdn' | 0.02 | 0 | 0.15 | 0.05 | 0.04 | 0.06 | 0.01 | 0.01 | 0.03 | 0.03 |
| 76758 | 'Gsdma2' | 0 | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76763 | 'Mospd2' | 4.65 | 0.6 | 0.27 | 0.16 | 0.22 | 1.57 | 0.78 | 1.59 | 0.19 | 0 |
| 76768 | 'Alpi' | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76770 | '2010005H15Rik' | 22.69 | 0.78 | 16.3 | 148 | 0 | 4.43 | 6.06 | 37.75 | 26.34 | 0.99 |
| 76773 | 'Wdyhv1' | 19.5 | 24.06 | 15.2 | 42.8 | 12.5 | 38.25 | 0 | 35.69 | 21.01 | 57.57 |
| 76775 | 'Slc10a7' | 2.08 | 0.67 | 1.5 | 5.4 | 3.86 | 0.2 | 6.75 | 4.11 | 2.69 | 3.64 |
| 76779 | 'Cluap1' | 23.79 | 31.42 | 44.2 | 25.5 | 33.9 | 28.19 | 26.1 | 21.05 | 8.35 | 46.5 |
| 76781 | 'Mettl4' | 6.13 | 1.67 | 1.26 | 1.56 | 0.01 | 0.44 | 4.78 | 1.65 | 4.26 | 1.53 |
| 76784 | 'Mtif2' | 19.59 | 9.22 | 6.05 | 10.7 | 18.7 | 9.75 | 18.4 | 12.51 | 16.99 | 10.38 |
| 76787 | 'Ppfia3' | 6.69 | 3.37 | 6.8 | 9.44 | 7.35 | 3.71 | 12.1 | 7.27 | 2.34 | 5.4 |
| 76788 | 'Klhdc10' | 4.38 | 4.2 | 4.9 | 9.22 | 3.98 | 1.87 | 5.37 | 5.47 | 5.76 | 4.39 |
| 76789 | 'Mzt1' | 41.19 | 38.67 | 49.2 | 34.5 | 28.1 | 40.65 | 41.4 | 42.34 | 24.36 | 39.75 |
| 76792 | '2410131K14Rik' | 21.22 | 22.36 | 25.8 | 15.4 | 17.8 | 27.56 | 18.4 | 28.13 | 26.29 | 27.99 |
| 76793 | 'Snip1' | 12.99 | 8.84 | 6.75 | 24.5 | 6.5 | 7.4 | 8.46 | 6.1 | 19.69 | 2.42 |
| 76795 | 'Tbc1d9b' | 11.47 | 18.51 | 20.7 | 7.07 | 23.1 | 6.73 | 15.5 | 11.37 | 8.26 | 11.22 |
| 76797 | '2410137M14Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 1.58 | 1.51 | 0 | 0 |
| 76799 | 'Tmem234' | 62.59 | 60.12 | 50.3 | 39.6 | 95.9 | 81.6 | 89.8 | 73.45 | 70.75 | 43.46 |
| 76800 | 'Usp42' | 2.99 | 1.25 | 4.75 | 7.73 | 3.71 | 1.59 | 0.24 | 1.86 | 1.67 | 4.33 |
| 76803 | '2410141K09Rik' | 0.1 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76804 | 'Kdm4c' | 3.31 | 5.51 | 0.79 | 10.3 | 4.29 | 0.69 | 1.91 | 1.89 | 5.91 | 12.77 |
| 76808 | 'Rpl18a' | 238.7 | 276.7 | 291 | 423 | 224 | 310.4 | 278 | 227.7 | 290.5 | 233.64 |
| 76809 | 'Bri3bp' | 5.57 | 4.15 | 6.76 | 3.43 | 3.34 | 2.98 | 12 | 4.84 | 5.03 | 4.1 |
| 76813 | 'Armc6' | 30.12 | 43.57 | 30.6 | 2.6 | 26.2 | 24.45 | 17.5 | 43.53 | 37.67 | 13.56 |
| 76815 | 'Calcoco2' | 0 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0.23 | 0.02 |
| 76816 | 'Sdccag8' | 11.27 | 17.96 | 1.98 | 11.5 | 18.7 | 5.45 | 7.68 | 10.07 | 6.8 | 11.18 |
| 76820 | 'Fam49a' | 17.62 | 9.06 | 10.1 | 11.4 | 23.4 | 17.22 | 26.2 | 18.52 | 7.96 | 14.77 |
| 76824 | 'Mtfr1l' | 97.96 | 82.15 | 66.5 | 114 | 57.8 | 117.1 | 82.5 | 34.8 | 93.2 | 45.95 |
| 76826 | 'Nubpl' | 0.3 | 2.27 | 6.16 | 0 | 12.3 | 13.18 | 3.27 | 7.38 | 0 | 11.81 |
| 76829 | 'Dok5' | 0.65 | 4.17 | 6.87 | 7.95 | 12.4 | 20.31 | 9.08 | 3.36 | 3.6 | 10.9 |
| 76832 | 'Hyls1' | 3.33 | 8.49 | 6.47 | 0 | 0 | 0.81 | 0 | 2.86 | 8.94 | 5.08 |
| 76843 | 'Dtl' | 0 | 0 | 0.01 | 0.09 | 0 | 0.03 | 0 | 0.91 | 0 | 0 |
| 76846 | 'Rps9' | 421.4 | 439.6 | 335 | 536 | 361 | 387.9 | 280 | 327.8 | 249.1 | 356.03 |
| 76850 | 'Ago4' | 1.29 | 1.31 | 0 | 5.5 | 0.75 | 2.58 | 2.14 | 0.06 | 0 | 1.49 |
| 76854 | 'Gper1' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 3.89 |
| 76856 | 'Catsper3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.83 | 0 |
| 76857 | 'Spopl' | 0.28 | 0.19 | 0.1 | 0.27 | 0.64 | 1.95 | 0 | 3.02 | 5.06 | 0.27 |
| 76863 | 'Dcun1d5' | 24.91 | 17.01 | 7.84 | 26.9 | 14.3 | 22.47 | 3.4 | 19.8 | 22.57 | 9.31 |
| 76866 | 'Morn1' | 7.45 | 10.33 | 12.3 | 12.4 | 15 | 21.15 | 11.5 | 5.32 | 7.57 | 16.14 |
| 76867 | 'Rhbdd1' | 1.73 | 1.53 | 1.05 | 0 | 0.24 | 3.57 | 4 | 1.08 | 0.35 | 3.57 |
| 76872 | 'Ccadc116' | 7.53 | 0.63 | 1.9 | 7.71 | 3.97 | 0.06 | 0.31 | 3.37 | 3.3 | 5.55 |
| 76877 | 'Rab36' | 31.38 | 43.46 | 32 | 17.8 | 38.6 | 39.86 | 23.6 | 37.47 | 29.16 | 51.01 |
| 76884 | 'Cyfip2' | 40.61 | 31.76 | 78.7 | 32.9 | 20.3 | 16.4 | 62.7 | 31.82 | 37.32 | 34.01 |
| 76886 | 'Fam81a' | 21.19 | 23.31 | 5.39 | 20.1 | 47.7 | 25.81 | 22.4 | 17.05 | 7.27 | 17.8 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 76889 | 'Coq8b' | 15.72 | 27.8 | 15.1 | 14.3 | 28.7 | 14.79 | 31.9 | 25.56 | 51.56 | 35.65 |
| 76890 | 'Memo1' | 8.8 | 5.25 | 10.3 | 9.56 | 6.52 | 7.73 | 18.1 | 6.34 | 10.12 | 8.17 |
| 76892 | 'Rnft1' | 1.78 | 1.34 | 1.63 | 2.06 | 1.66 | 1.18 | 0 | 1.62 | 3.17 | 2.16 |
| 76893 | 'Cers2' | 35.21 | 38.44 | 28 | 2.52 | 38.9 | 16.57 | 17.7 | 32.66 | 26.17 | 23.06 |
| 76894 | 'Mettl15' | 8.11 | 12.79 | 3 | 0 | 9.41 | 6.17 | 3.55 | 2.96 | 0 | 6.96 |
| 76895 | 'Bicd2' | 4.49 | 0.85 | 2.62 | 4.68 | 2.6 | 1.38 | 1.2 | 2.76 | 1.49 | 0.02 |
| 76897 | 'Raly1' | 99.42 | 80.23 | 72.3 | 121 | 162 | 209 | 79.2 | 99.28 | 194.2 | 101.24 |
| 76898 | 'B3gat1' | 1.01 | 0.73 | 2.51 | 1.03 | 1.95 | 1.33 | 1.3 | 1.38 | 2.04 | 0.53 |
| 76899 | 'Golga1' | 3.54 | 2.57 | 3.98 | 0.21 | 8.27 | 5.14 | 9.96 | 5.79 | 1.18 | 9.31 |
| 76900 | 'Ssbp4' | 69.16 | 63.31 | 92.2 | 72.1 | 68.4 | 52.27 | 68.5 | 54.85 | 106.6 | 36.92 |
| 76901 | 'Jade2' | 1.43 | 1.31 | 3.97 | 1.86 | 2.25 | 1.41 | 5.89 | 0.57 | 3.56 | 2.9 |
| 76905 | 'Lrg1' | 1.59 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0.03 | 0.03 | 0 |
| 76915 | 'Mnd1' | 2.6 | 0 | 2.82 | 0 | 3.59 | 0 | 4.37 | 1.93 | 0 | 3.9 |
| 76916 | 'Timmdc1' | 31.36 | 26.1 | 29.7 | 33.3 | 18.6 | 22.1 | 4.68 | 16.14 | 19.72 | 37.29 |
| 76917 | 'Flywch2' | 82.62 | 58.66 | 71.1 | 139 | 84.8 | 163.3 | 101 | 79.41 | 149.4 | 135.86 |
| 76925 | 'Spata46' | 1.79 | 2.01 | 0 | 0 | 2.35 | 0 | 0 | 0 | 0 | 0 |
| 76927 | 'Tsacc' | 5.27 | 1.32 | 3.68 | 6.34 | 3.54 | 0.17 | 7.98 | 2.85 | 0.31 | 0.5 |
| 76932 | 'Arfp2' | 37.07 | 29.43 | 52 | 23.9 | 36.8 | 27.03 | 51.1 | 35 | 34.33 | 25.27 |
| 76933 | 'lfi27l2a' | 6.91 | 9.71 | 0.08 | 36.9 | 8.2 | 0 | 0 | 0 | 12.16 | 10.26 |
| 76936 | 'Hnrnpm' | 41.18 | 53.36 | 43.7 | 39.6 | 46.5 | 47.98 | 76.6 | 52.39 | 56.13 | 46.71 |
| 76938 | 'Rbm17' | 25.22 | 24.08 | 45.1 | 39.3 | 17 | 6.21 | 49.9 | 24.34 | 41.02 | 7.43 |
| 76947 | 'Ndufaf6' | 21.42 | 39.05 | 31.3 | 51.6 | 34.1 | 19.02 | 15.3 | 28.79 | 23.37 | 6.29 |
| 76952 | 'Nt5c2' | 21.83 | 26.38 | 23.8 | 27.3 | 14.2 | 25.76 | 12.8 | 18.37 | 27.76 | 22.03 |
| 76954 | 'St5' | 2.22 | 3.39 | 9.3 | 19.3 | 0.76 | 5.1 | 2.22 | 0.95 | 6.57 | 2.01 |
| 76959 | 'Chmp5' | 117.8 | 131.9 | 103 | 51.2 | 104 | 121 | 71.4 | 93.43 | 159.6 | 115.02 |
| 76960 | 'Bcas1' | 3.83 | 2.58 | 8.89 | 0 | 200 | 16.83 | 17.5 | 0 | 5.29 | 2.22 |
| 76964 | '2610028H24Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.42 | 0 |
| 76965 | 'Slitrk1' | 21.35 | 6.7 | 12.7 | 6.91 | 19.2 | 7.37 | 14.6 | 20.86 | 5.51 | 3.65 |
| 76967 | '2700049A03Rik' | 2.86 | 1.81 | 1.99 | 6.15 | 3.02 | 3.59 | 0 | 1.64 | 0.33 | 1.93 |
| 76969 | 'Chst1' | 51.41 | 46.5 | 43.1 | 37.6 | 58.6 | 62.52 | 29.3 | 32.37 | 41.4 | 29.47 |
| 76974 | 'Urah' | 0 | 0.7 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76976 | 'Arxes2' | 362.3 | 505.4 | 240 | 268 | 263 | 444.8 | 312 | 450.2 | 258.5 | 378.34 |
| 76980 | 'Ube2q11' | 6.6 | 18.61 | 9.6 | 14.7 | 19 | 13.69 | 19.8 | 17.35 | 9.52 | 9.62 |
| 76982 | 'Vxn' | 0.04 | 6.65 | 10.8 | 0.12 | 0.9 | 0.01 | 8.48 | 15.31 | 4.74 | 7.74 |
| 76983 | 'Scfd1' | 56.73 | 53.66 | 46.4 | 82.5 | 51.5 | 64.09 | 47.6 | 70.12 | 48.37 | 75.88 |
| 76987 | 'Hdhd2' | 95.96 | 75.66 | 144 | 69.9 | 78 | 99.28 | 47.9 | 98.76 | 84.97 | 81.3 |
| 77006 | 'Ddrgk1' | 83.43 | 88.88 | 91.2 | 122 | 105 | 133.8 | 94.7 | 102.7 | 119.4 | 121.59 |
| 77015 | 'Mpped2' | 10.93 | 9.67 | 9.63 | 7.39 | 16.1 | 19.94 | 7.09 | 1.65 | 5.07 | 5.75 |
| 77018 | 'Col25a1' | 5.91 | 6.31 | 7.53 | 0.96 | 3.48 | 4.4 | 6.98 | 6.17 | 5.07 | 3.36 |
| 77031 | 'Slc9a8' | 13.65 | 8.65 | 21.2 | 3.46 | 5.16 | 2.97 | 20.9 | 17.43 | 5.65 | 21.14 |
| 77032 | 'Tstd3' | 28.84 | 37.05 | 14.3 | 0.04 | 16.5 | 6.6 | 9.02 | 15.58 | 25.18 | 13.46 |
| 77034 | '2510039O18Rik' | 3.22 | 0.51 | 0.33 | 4.02 | 0.02 | 0.61 | 0 | 3.17 | 5.11 | 0.53 |
| 77035 | 'Kdm8' | 0.48 | 2.67 | 2.72 | 0 | 0.4 | 0 | 4.04 | 0 | 3.37 | 3.14 |
| 77036 | '1700109H08Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 | 0 | 0.19 |
| 77037 | 'Mrap' | 0 | 2.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77038 | 'Arfgap2' | 32.89 | 38.34 | 35.2 | 24.4 | 18.4 | 39.04 | 32.2 | 32.08 | 53.49 | 21.17 |
| 77040 | 'Atg16l1' | 30.07 | 27.02 | 27.3 | 33.9 | 27.6 | 19.05 | 17.8 | 30.77 | 26.55 | 32.13 |
| 77041 | 'Arsk' | 3.01 | 0.39 | 0.21 | 0.34 | 2.16 | 1.62 | 0.7 | 0.14 | 0.95 | 2.23 |
| 77044 | 'Arid2' | 2.63 | 1.96 | 0.95 | 3.95 | 0.53 | 0.56 | 3.02 | 0.86 | 1.45 | 1.92 |
| 77045 | 'Bcl7a' | 2.15 | 3.46 | 5.63 | 2.59 | 10 | 5.92 | 3.07 | 7.46 | 6.09 | 7.6 |
| 77048 | 'Cep83' | 0.62 | 1.7 | 0 | 4.66 | 0.25 | 0.18 | 0 | 1.38 | 0.53 | 0.9 |
| 77053 | 'Sun1' | 20.62 | 29.54 | 30.4 | 17.8 | 16.2 | 1.54 | 17.8 | 17.86 | 20.69 | 26.65 |
| 77056 | 'Tmco4' | 0 | 0 | 0 | 0 | 0.13 | 0 | 0 | 0.4 | 1.35 | 0 |
| 77058 | 'Ccgc183' | 0.1 | 0.17 | 0.03 | 0 | 0.09 | 0.11 | 0 | 0.12 | 0 | 0 |
| 77065 | 'Ints7' | 8.37 | 6.51 | 4 | 4.66 | 3.55 | 5.9 | 1.33 | 5.37 | 4.22 | 9.6 |
| 77087 | 'Ankrd11' | 4.23 | 5.75 | 5.05 | 10.9 | 9.56 | 5.69 | 6.62 | 6.26 | 3.68 | 7.13 |
| 77090 | 'Ocel1' | 0 | 0 | 0.46 | 2.61 | 0 | 0.37 | 0 | 1.15 | 0 | 2.47 |
| 77097 | 'Tanc2' | 7.16 | 5.77 | 5.8 | 11.7 | 11 | 6.69 | 9.95 | 4.07 | 5.1 | 9.04 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 77705 | '9230104L09Rik' | 0.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77721 | 'Mrps5' | 29.16 | 53 | 43.8 | 46.7 | 46.5 | 26.58 | 61 | 42.05 | 30.68 | 52.95 |
| 77733 | 'Rnf170' | 8.41 | 9.75 | 10.3 | 11.9 | 8.21 | 9.91 | 24 | 7.42 | 9.96 | 9.85 |
| 77739 | 'Adamtsl1' | 0 | 0.19 | 0.88 | 0 | 0 | 0.38 | 0.23 | 0 | 0 | 0 |
| 77744 | 'Bora' | 6.17 | 8.02 | 12 | 18.3 | 12.8 | 11.3 | 11.1 | 5.51 | 10.76 | 8.05 |
| 77766 | 'Elp4' | 3.35 | 1.48 | 4.62 | 3.43 | 0.11 | 2 | 3.28 | 2.7 | 3.39 | 4.43 |
| 77767 | 'Ernm' | 4.87 | 9.34 | 0.5 | 0 | 12.6 | 13.55 | 0 | 1.04 | 0.01 | 0.01 |
| 77771 | 'Csrnp3' | 11.55 | 13.41 | 7.58 | 7.76 | 5.31 | 5.63 | 13.1 | 9.08 | 6.91 | 5.99 |
| 77772 | 'Dcst1' | 0 | 0 | 0.05 | 0 | 0.15 | 0 | 0.32 | 0.05 | 0 | 0 |
| 77777 | 'Ulbp1' | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 |
| 77781 | 'Epm2aip1' | 12.69 | 19.81 | 15 | 28.1 | 9.94 | 10.2 | 14.4 | 7.37 | 8.52 | 13.21 |
| 77782 | 'Polq' | 0 | 0 | 0 | 0 | 0.01 | 0.04 | 0.05 | 0.12 | 0.17 | 0.01 |
| 77794 | 'Adamtsl2' | 1.53 | 4.47 | 0 | 7.71 | 0 | 0.01 | 0 | 0.01 | 0 | 2.86 |
| 77798 | 'A930009A15Rik' | 0 | 2.35 | 9.12 | 0 | 0 | 4.77 | 1.83 | 0 | 0 | 0 |
| 77799 | 'Sla2' | 0 | 0 | 0 | 0 | 0 | 1.35 | 0 | 0 | 0 | 0 |
| 77803 | 'Shisal2b' | 0 | 2.73 | 0 | 0 | 4.4 | 3.71 | 0 | 1.06 | 11.48 | 11.96 |
| 77805 | 'Esco1' | 4.42 | 7.59 | 7.81 | 5.39 | 9.34 | 7.53 | 2.14 | 3.5 | 5.78 | 3.73 |
| 77809 | 'Lrrc42' | 10 | 24.99 | 15 | 9.08 | 21.8 | 2.09 | 0.52 | 11.26 | 8.75 | 5.55 |
| 77827 | 'Krba1' | 9.07 | 11.97 | 13.9 | 4.71 | 10.3 | 5.54 | 13 | 7.63 | 16.09 | 9.77 |
| 77832 | 'Tchp' | 5.64 | 11.13 | 8.86 | 0.07 | 3.38 | 2.36 | 0.05 | 4.89 | 0.05 | 3.84 |
| 77836 | 'Mlana' | 0 | 0.12 | 0 | 0 | 0 | 0 | 0 | 0.48 | 0 | 0 |
| 77853 | 'Msl2' | 0.46 | 1.55 | 0.7 | 7.52 | 0.91 | 0.27 | 3.23 | 0.65 | 0.4 | 1.03 |
| 77862 | 'Thyn1' | 100.1 | 83.41 | 137 | 85.8 | 94.2 | 90.03 | 95.8 | 119 | 67.76 | 54.7 |
| 77864 | 'Ypel2' | 6.18 | 7.88 | 3.7 | 9.06 | 8.31 | 9.22 | 3.33 | 4.17 | 1.14 | 1.2 |
| 77877 | '6030458C11Rik' | 9.05 | 6.21 | 8.67 | 9.45 | 6.35 | 3.65 | 13.2 | 11.69 | 6.99 | 4.81 |
| 77883 | '6030498E09Rik' | 0 | 0 | 0 | 0 | 0 | 1.43 | 0 | 0 | 0 | 0 |
| 77889 | 'Lbh' | 6.3 | 4.53 | 4.56 | 0 | 8.54 | 4.26 | 9.87 | 12.21 | 7.16 | 7.07 |
| 77891 | 'Ube2s' | 26.27 | 33.11 | 23.7 | 15.4 | 20.8 | 29.05 | 24.2 | 47.9 | 69.47 | 32.77 |
| 77914 | 'Krtap17-1' | 0 | 19.98 | 3.54 | 31.7 | 0 | 0 | 3.54 | 4.3 | 0 | 2.56 |
| 77929 | 'Yipf6' | 4.89 | 1.44 | 5.8 | 8.16 | 3.48 | 4.62 | 1.59 | 3.27 | 2.17 | 8.21 |
| 77938 | 'Fam53b' | 2.65 | 3.24 | 0.14 | 0.01 | 0.91 | 0.33 | 1.33 | 2.4 | 1.52 | 0.99 |
| 77945 | 'Rpgr1p1' | 7.01 | 5.73 | 2.62 | 6.24 | 14.6 | 0.82 | 11 | 9.54 | 13.43 | 5.92 |
| 77951 | 'Cyp20a1' | 9.56 | 12.25 | 17.4 | 16.2 | 10.9 | 13.36 | 10.4 | 0.8 | 5.87 | 14.72 |
| 77963 | 'Hook1' | 18.2 | 15.75 | 12.7 | 8.29 | 16.4 | 21.67 | 18.4 | 21.93 | 26.97 | 11.44 |
| 77974 | 'Rdh12' | 1.38 | 0 | 3.52 | 0 | 2.25 | 10.07 | 0 | 3.42 | 10.19 | 4.76 |
| 77975 | 'Tmem50b' | 139.6 | 91.97 | 81.4 | 78.6 | 66.2 | 89.68 | 81.9 | 102.7 | 67.57 | 52.7 |
| 77976 | 'Nuak1' | 0.11 | 0 | 2.58 | 0.75 | 3.37 | 0.24 | 2.01 | 0.02 | 1.14 | 1.58 |
| 77980 | 'Sbf1' | 10.42 | 9.57 | 13.9 | 1.42 | 12.5 | 5.45 | 18.1 | 10.14 | 10.22 | 4.09 |
| 77987 | 'Ascc3' | 2.08 | 2.51 | 1.93 | 2.6 | 1.24 | 2.38 | 2.64 | 0.68 | 4.32 | 1.58 |
| 77996 | 'Cutal' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.13 | 0 |
| 77998 | 'Grifin' | 0 | 0 | 0 | 0 | 0 | 0 | 8.38 | 0 | 0 | 0 |
| 78004 | 'Prr15' | 0.06 | 0.11 | 0 | 0.84 | 0.4 | 0 | 1.14 | 0.06 | 1.3 | 0.19 |
| 78016 | 'Ccdc150' | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0.41 | 0 |
| 78038 | 'Mccc2' | 28.56 | 21.75 | 22.2 | 26.8 | 22.7 | 33.27 | 21.5 | 26.8 | 19.61 | 22.92 |
| 78070 | 'Cpt1c' | 78.15 | 98.67 | 30.6 | 48.3 | 62.5 | 49.72 | 43.7 | 84.32 | 89.32 | 81.76 |
| 78088 | 'Sowahb' | 0 | 0 | 0 | 6.04 | 0 | 0 | 0 | 0.98 | 0 | 0 |
| 78100 | 'Msantd4' | 27 | 21.31 | 30.7 | 28.1 | 30.4 | 30.82 | 25.9 | 30.52 | 22.89 | 15.84 |
| 78134 | 'Lpar4' | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 |
| 78174 | 'Cox7b2' | 2.25 | 1.65 | 1.66 | 0 | 0 | 1.69 | 0 | 0 | 2.11 | 0 |
| 78177 | 'Ninl' | 1.24 | 0.04 | 0 | 3.29 | 2.35 | 0.01 | 0 | 0 | 0.09 | 1.22 |
| 78232 | 'Trappc6b' | 78.3 | 45.24 | 87.3 | 112 | 54.6 | 55.75 | 21.6 | 49.93 | 60.36 | 48.02 |
| 78244 | 'Dnajc21' | 4.75 | 7.99 | 2.63 | 16.2 | 2.9 | 4.87 | 2.39 | 2.21 | 0.17 | 0.17 |
| 78245 | 'Acbd7' | 14.58 | 4.05 | 13.4 | 14.2 | 65.7 | 0 | 4.53 | 4.07 | 0 | 3.46 |
| 78246 | 'Phf23' | 20.13 | 35.23 | 14.9 | 24.2 | 27.4 | 10.42 | 25.7 | 28.55 | 19.99 | 20.17 |
| 78248 | 'Armxc1' | 47.87 | 51.86 | 59.5 | 64.1 | 50.9 | 57.65 | 73.9 | 61.21 | 51.1 | 68.2 |
| 78249 | 'Adgrf4' | 2.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.42 |
| 78250 | 'lqch' | 0.51 | 0.4 | 0.61 | 0.44 | 0.58 | 0.45 | 0.46 | 0.39 | 0.67 | 0.31 |
| 78251 | 'Zfp712' | 0.32 | 3.61 | 1.44 | 2.75 | 4.17 | 3.47 | 1.55 | 0.37 | 0.4 | 0.67 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 78252 | 'Nxpe2' | 0 | 0 | 0.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78255 | 'Ralgps2' | 4.28 | 11.89 | 2.47 | 6.57 | 6.39 | 4.8 | 3.28 | 5.68 | 2.98 | 4.91 |
| 78257 | 'Lrrc9' | 1.84 | 0.68 | 2.09 | 2.27 | 2.18 | 1.37 | 0 | 0.25 | 3.52 | 2.16 |
| 78266 | 'Zfp687' | 1.61 | 4.96 | 6.01 | 7.83 | 3.3 | 0.36 | 1.71 | 1.93 | 11.11 | 4.56 |
| 78267 | 'Klhdc8b' | 98.16 | 125.5 | 54.4 | 92.1 | 168 | 66.5 | 42.9 | 37.21 | 37.48 | 73.41 |
| 78283 | 'Map7d2' | 28.96 | 29.87 | 32.3 | 34.5 | 35.2 | 29.05 | 25.9 | 36.62 | 23.95 | 23.37 |
| 78284 | 'Creb3l4' | 0 | 0.04 | 0 | 7.31 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78286 | 'Nav2' | 2.24 | 4.83 | 2.41 | 6.02 | 1.09 | 1.84 | 3.32 | 2.82 | 5.12 | 2.77 |
| 78287 | 'Rbsn' | 7.35 | 8.58 | 8.27 | 22.9 | 10.1 | 1.28 | 3.01 | 11.28 | 9.39 | 8.58 |
| 78294 | 'Rps27a' | 271.2 | 315 | 342 | 366 | 310 | 344.8 | 327 | 233 | 188.3 | 283.56 |
| 78303 | 'Hist3h2ba' | 147.9 | 130.4 | 135 | 75.5 | 162 | 127.4 | 120 | 156.4 | 117.8 | 95.83 |
| 78304 | 'Naa38' | 122.4 | 158.5 | 151 | 157 | 110 | 184.7 | 164 | 76.06 | 124.2 | 118.7 |
| 78308 | 'Gpr108' | 49.14 | 18.37 | 22.9 | 34.1 | 32.2 | 37.91 | 27.4 | 36.32 | 37.85 | 28.06 |
| 78309 | 'Cul9' | 4.27 | 1.82 | 3.75 | 1.88 | 0.44 | 0.9 | 2.03 | 0.98 | 1.7 | 3.57 |
| 78317 | 'Ccdc88b' | 0.62 | 0 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0.61 |
| 78321 | 'Ankrd23' | 1.49 | 14.18 | 6.69 | 4.36 | 2.41 | 11.08 | 6.69 | 6.89 | 11.24 | 8.82 |
| 78323 | 'Fam219b' | 9.22 | 11.5 | 12.8 | 23.8 | 30.6 | 13.6 | 7.06 | 9.2 | 17.91 | 9.31 |
| 78330 | 'Ndufv3' | 384.7 | 303.3 | 429 | 510 | 328 | 570.7 | 316 | 228.5 | 400.1 | 382.97 |
| 78334 | 'Cdk19' | 2.58 | 0.3 | 3.5 | 0 | 0.11 | 0.05 | 0 | 1.44 | 0.13 | 0 |
| 78339 | 'Ttyh3' | 0.74 | 0.54 | 2.8 | 0.84 | 1.68 | 0.88 | 3 | 1.13 | 2.31 | 2.51 |
| 78369 | 'Icam4' | 0 | 0 | 0 | 0 | 3.56 | 0 | 0 | 1.16 | 2.33 | 0.49 |
| 78372 | 'Snrrp25' | 28.15 | 29.36 | 57.3 | 48 | 106 | 95.79 | 60.8 | 57.41 | 23.19 | 53.11 |
| 78373 | 'Nudt17' | 33.82 | 37.68 | 26 | 29.7 | 23.5 | 23.97 | 33.2 | 23.63 | 52.55 | 26.9 |
| 78376 | 'Sapcd1' | 0 | 0 | 1.43 | 0 | 0 | 1.1 | 0 | 0 | 0 | 0 |
| 78388 | 'Mvp' | 0 | 0.15 | 0 | 0 | 0.91 | 4.17 | 0 | 0 | 3.99 | 0 |
| 78390 | 'Pla2g4d' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.57 | 0 |
| 78394 | 'Ddx52' | 5.55 | 14.6 | 11 | 7.47 | 7.5 | 12.74 | 4.94 | 7.56 | 7.88 | 6.14 |
| 78405 | 'Ntf5' | 0.95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78408 | 'Fam131a' | 69.99 | 72.6 | 43.9 | 28.8 | 56.6 | 52.86 | 38.2 | 62.6 | 34.33 | 47.66 |
| 78412 | 'Cyren' | 3.12 | 3.19 | 0.02 | 0.05 | 1.79 | 17.43 | 0.6 | 0.54 | 1.85 | 4.04 |
| 78416 | 'Rnase6' | 11.69 | 6.64 | 0.02 | 0 | 4.99 | 0 | 4.33 | 4.75 | 7.25 | 0 |
| 78428 | 'Pym1' | 8.32 | 9.58 | 16.2 | 14.2 | 8.2 | 7.72 | 4.12 | 19.27 | 16.06 | 16.85 |
| 78444 | 'Pgpep1l' | 0 | 0.89 | 1.95 | 0 | 0.8 | 0.2 | 0 | 2.11 | 0.36 | 0.33 |
| 78455 | 'Helz' | 8.52 | 3.94 | 9.18 | 4.41 | 8.57 | 3.22 | 9.82 | 5.63 | 17.85 | 5.8 |
| 78465 | 'Ccdc190' | 0.48 | 0.71 | 1.86 | 0 | 5.06 | 0 | 5.11 | 0 | 0 | 3.16 |
| 78473 | 'Skap1' | 2.67 | 4.28 | 2.13 | 0 | 0.03 | 3.65 | 3.71 | 11 | 0.04 | 9.38 |
| 78506 | 'Micu3' | 65.78 | 72.69 | 49.6 | 110 | 63.2 | 55.23 | 64.4 | 58.44 | 59.12 | 61.85 |
| 78514 | 'Arhgap10' | 0.62 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 2.6 | 0 |
| 78521 | 'B230219D22Rik' | 6.98 | 4.73 | 4.82 | 7.37 | 4 | 1.31 | 1.26 | 5.58 | 8.56 | 5.87 |
| 78523 | 'Mrpl9' | 36.29 | 56 | 57.1 | 29.4 | 27.9 | 23.02 | 57.6 | 44.95 | 14.12 | 54.34 |
| 78541 | 'Asb8' | 41.67 | 43.67 | 49 | 40.2 | 26.9 | 56.1 | 47.7 | 36.71 | 40.65 | 54.49 |
| 78558 | 'Htra3' | 0 | 0 | 1.25 | 0.03 | 0 | 1.29 | 0 | 1.71 | 0 | 0 |
| 78560 | 'Adgra2' | 0 | 0.05 | 0.97 | 0 | 0.11 | 0 | 0.22 | 0 | 0 | 0.04 |
| 78581 | 'Utp23' | 6.1 | 7.97 | 8.38 | 11.7 | 10.9 | 2.45 | 2.95 | 8.05 | 8.76 | 6.72 |
| 78586 | 'Srbd1' | 2.61 | 2.83 | 1.91 | 0 | 3.88 | 1.63 | 1.62 | 0.86 | 4.07 | 1.48 |
| 78593 | 'Nrip3' | 20.22 | 22.26 | 39.6 | 24.8 | 47.7 | 41.44 | 58.8 | 24.38 | 72.03 | 57.66 |
| 78600 | 'Pde6h' | 0 | 2.35 | 0.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78610 | 'Uvrag' | 5.21 | 0.83 | 0.08 | 11.1 | 3.78 | 3.16 | 13.6 | 5.26 | 3.52 | 0.05 |
| 78617 | 'Cstad' | 4.68 | 8.78 | 4.15 | 0 | 4.12 | 0 | 0 | 9.48 | 0 | 7.28 |
| 78618 | 'Acap2' | 0.89 | 1.72 | 2.44 | 1.56 | 1.77 | 5.39 | 2.55 | 1.62 | 1.86 | 1.65 |
| 78619 | 'Zfp449' | 2.17 | 1.99 | 0 | 0.71 | 1.14 | 0.01 | 0.09 | 4.08 | 1.39 | 5.35 |
| 78625 | '1700061G19Rik' | 0.15 | 0 | 0.74 | 0 | 0 | 0 | 0.66 | 0 | 0.51 | 0 |
| 78651 | 'Lsm6' | 34.19 | 32.98 | 28.3 | 31.2 | 33.4 | 44.03 | 40 | 33.02 | 46.62 | 36.32 |
| 78653 | 'Bola3' | 99.04 | 76.58 | 66.5 | 112 | 83.9 | 82.19 | 65.1 | 79.37 | 79.73 | 103.64 |
| 78654 | '1700066C05Rik' | 0.78 | 0.14 | 2.5 | 3.29 | 1.84 | 0 | 0 | 0.23 | 0 | 0.38 |
| 78655 | 'Eif3j1' | 5.8 | 6.84 | 2.35 | 4.55 | 0.89 | 16.05 | 1.18 | 0.5 | 2.85 | 3.3 |
| 78656 | 'Brd8' | 42.91 | 35.85 | 38.9 | 59.5 | 56.2 | 36.13 | 32.1 | 30.86 | 46.97 | 35.72 |
| 78658 | 'Ncapd3' | 1.55 | 3.71 | 2.3 | 3.67 | 5.48 | 5.54 | 7 | 5.95 | 2.1 | 4.07 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|-------|
| 78670 | 'Plekhj1' | 48.26 | 57.69 | 39.3 | 42.5 | 56.9 | 45.65 | 46.7 | 61.02 | 46.98 | 56.62 |
| 78672 | '9530057J20Rik' | 5.88 | 4.64 | 2.83 | 15.6 | 8.61 | 3.13 | 8.99 | 4.68 | 1.27 | 2.95 |
| 78688 | 'Nol3' | 11.7 | 17.25 | 17 | 11.4 | 24.6 | 20.96 | 14 | 24.37 | 8.27 | 19.52 |
| 78689 | 'Naa35' | 19.17 | 25.77 | 21.9 | 44.6 | 20.9 | 18.86 | 41.7 | 25.67 | 23.78 | 40.08 |
| 78697 | 'Pus7' | 3.16 | 6.97 | 6.33 | 10.1 | 7.34 | 0.06 | 4.77 | 5.84 | 2.24 | 2.68 |
| 78703 | 'Zfp972' | 0.89 | 0.63 | 3.76 | 10.6 | 0.99 | 0.54 | 4.98 | 0.4 | 2.09 | 3.4 |
| 78748 | 'Rassf10' | 0.22 | 1.38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78749 | 'Filip11' | 0 | 0.53 | 0 | 1.56 | 0 | 0 | 0.02 | 0 | 0 | 0.08 |
| 78751 | 'Zc3h6' | 0.15 | 2.62 | 1.19 | 4.1 | 2.67 | 0.51 | 0.31 | 0.28 | 0.72 | 0.68 |
| 78752 | 'Csgalnact2' | 0.93 | 1.51 | 0 | 7.42 | 0 | 3.62 | 0.02 | 1.4 | 0.05 | 3.93 |
| 78754 | 'Galnt15' | 0 | 0.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78755 | 'Fam122b' | 1.25 | 2.27 | 0 | 0 | 0.01 | 0 | 2.32 | 4.01 | 0 | 3.86 |
| 78757 | 'Rictor' | 12.91 | 14.98 | 34.4 | 13.6 | 26.1 | 15 | 28.4 | 9.16 | 19.93 | 24.66 |
| 78767 | 'Efcab11' | 0 | 0 | 0 | 0 | 0 | 0 | 0.17 | 0 | 0 | 0 |
| 78771 | 'Mctp1' | 0.22 | 1.46 | 0.55 | 0 | 0.74 | 0.32 | 1.19 | 0.69 | 0.34 | 1.18 |
| 78772 | 'Hhipl2' | 1.43 | 0.86 | 0.29 | 1.41 | 0.13 | 0.25 | 0.04 | 0.81 | 0 | 0 |
| 78774 | 'Cfap61' | 2.09 | 2.3 | 0.37 | 0 | 3.95 | 0 | 0 | 0.91 | 0 | 0.3 |
| 78777 | 'Tepsin' | 5.24 | 7.25 | 16.9 | 4.84 | 2.45 | 12.71 | 14.9 | 15.09 | 5.88 | 6.78 |
| 78779 | 'Spata2l' | 14.07 | 10.6 | 13.8 | 45.3 | 11 | 6.11 | 9.59 | 13.75 | 2.44 | 4.4 |
| 78781 | 'Zc3hav1' | 2.6 | 1.08 | 4.78 | 6.21 | 1.83 | 2.64 | 2.69 | 0.87 | 0.08 | 0.07 |
| 78783 | 'Brpf1' | 3.07 | 3.37 | 5.93 | 11.5 | 0 | 4.77 | 1.39 | 1.24 | 0.42 | 0.04 |
| 78784 | 'Celf3' | 71.83 | 94.21 | 44 | 53.5 | 89.7 | 86.97 | 56.4 | 72.88 | 86.4 | 98.16 |
| 78785 | 'Clip4' | 0.04 | 5.27 | 3.92 | 0.66 | 2.71 | 1.27 | 3.62 | 0.79 | 0.72 | 0.59 |
| 78787 | 'Usp54' | 1.5 | 2.35 | 4.42 | 3.93 | 5.31 | 0.35 | 2.27 | 1.8 | 3.26 | 1.98 |
| 78789 | 'Vsig1' | 0 | 0 | 0 | 0 | 7.26 | 15.93 | 0 | 0.02 | 32.46 | 5.98 |
| 78795 | 'Armc9' | 25.14 | 21.75 | 25.8 | 25.6 | 30.9 | 16.04 | 29.5 | 40.22 | 23.06 | 41.58 |
| 78796 | 'Zcchc4' | 6.45 | 6.73 | 2.56 | 6.95 | 3.93 | 3.79 | 7.24 | 7.13 | 8.21 | 14.43 |
| 78797 | 'Ndor1' | 10.39 | 4.81 | 6.56 | 8.68 | 15.3 | 4.65 | 15.5 | 8.02 | 6.36 | 11.16 |
| 78798 | 'Eml4' | 0.62 | 1.46 | 0.28 | 4.06 | 1.62 | 2.15 | 2.22 | 0.35 | 7.53 | 0.58 |
| 78801 | 'Ak7' | 0.47 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 |
| 78802 | 'Ttc30a1' | 7.02 | 6.03 | 4.67 | 5.88 | 0 | 0 | 4 | 2.67 | 4.03 | 10.51 |
| 78803 | 'Fbxo43' | 0.05 | 0.04 | 0.07 | 0.03 | 0.08 | 0.09 | 0.06 | 0.01 | 0.07 | 0.09 |
| 78806 | 'Stpg1' | 0.27 | 0 | 0.11 | 0 | 0 | 0 | 0.77 | 1.81 | 0.64 | 0.24 |
| 78808 | 'Sixbp5' | 1.73 | 1.34 | 3.39 | 9.23 | 3.96 | 2.08 | 2.78 | 1.06 | 0.98 | 2.5 |
| 78809 | '4930562C15Rik' | 0 | 0.28 | 0 | 0.7 | 0 | 0 | 0 | 0 | 0.36 | 0 |
| 78816 | 'Gmip' | 0.96 | 6.71 | 4.88 | 8.92 | 4.9 | 5.69 | 0 | 6.33 | 9.69 | 13.36 |
| 78825 | 'Desi2' | 1.5 | 0.22 | 0.64 | 0.24 | 0.6 | 0.13 | 3.25 | 2.07 | 1.9 | 1.18 |
| 78829 | 'Tsc22d4' | 14.1 | 19.01 | 9 | 13 | 24.9 | 29.32 | 34.7 | 10.11 | 16.93 | 12.85 |
| 78830 | 'Slc25a12' | 110 | 117.7 | 152 | 87.4 | 60.5 | 62.33 | 126 | 143.7 | 89.18 | 87.4 |
| 78832 | 'Cacul1' | 9.75 | 4.3 | 11.7 | 12 | 5.17 | 7.38 | 7.98 | 7.24 | 12.39 | 2.46 |
| 78833 | 'Gins3' | 2.74 | 0 | 1.09 | 0 | 2.07 | 2.26 | 0 | 0 | 2.85 | 2.06 |
| 78834 | 'Zfp623' | 9.81 | 10.71 | 8.72 | 0.27 | 15 | 6.24 | 7.98 | 15.85 | 7.85 | 1.98 |
| 78885 | 'Coro7' | 9.69 | 8.68 | 8.8 | 13.6 | 23.5 | 14.88 | 20.2 | 23.81 | 22.48 | 12.02 |
| 78887 | 'Sfi1' | 2.42 | 9.23 | 12.1 | 0.07 | 5.84 | 11.74 | 6.79 | 8.3 | 7.8 | 2.5 |
| 78889 | 'Wsb1' | 101.7 | 134.7 | 92.5 | 113 | 103 | 69.3 | 97.4 | 101.2 | 210.1 | 116.8 |
| 78890 | 'Trmt44' | 2.25 | 3.72 | 3.51 | 7.06 | 2.04 | 0 | 0 | 3.34 | 0.83 | 0.08 |
| 78891 | 'Scyl1' | 20.31 | 44.88 | 32.5 | 21.4 | 18.8 | 25.48 | 47.3 | 45.34 | 38.41 | 29.49 |
| 78892 | 'Crispld2' | 0 | 0 | 0.01 | 0.37 | 4.02 | 0.04 | 0 | 0 | 0 | 0 |
| 78893 | 'Cnot10' | 22.44 | 27.69 | 30.6 | 61.2 | 26.7 | 34.4 | 22.5 | 41.14 | 27.36 | 40.58 |
| 78894 | 'Aacs' | 22.33 | 21.84 | 13.8 | 6.58 | 20.6 | 12.35 | 13.2 | 18.71 | 30.16 | 25.17 |
| 78895 | 'Pus7l' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 | 2.03 |
| 78896 | '1500015O10Rik' | 3.59 | 0 | 0 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 |
| 78903 | 'Wrnip1' | 14.25 | 7.41 | 11 | 17 | 10.1 | 16.92 | 6.65 | 10.54 | 15.88 | 3.83 |
| 78906 | 'Misp' | 1.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0.35 | 0 | 0 |
| 78908 | 'Igsf3' | 4.33 | 4.06 | 7.87 | 8.31 | 1.89 | 4.98 | 0.01 | 5.49 | 10.45 | 1.99 |
| 78910 | 'Asb15' | 0 | 0 | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0.02 | 0 |
| 78912 | 'Sp2' | 3.16 | 2.1 | 2.28 | 0 | 8.16 | 0.83 | 2.39 | 2.11 | 6.08 | 4.39 |
| 78913 | 'Ltn1' | 1.99 | 1.45 | 12.4 | 2.3 | 2.61 | 0.62 | 2.01 | 2.77 | 4.85 | 4.31 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 78914 | 'Nadsyn1' | 5.82 | 8.17 | 4.34 | 13.1 | 6.06 | 2.27 | 5.61 | 3.85 | 5.5 | 12.61 |
| 78919 | 'Fndc8' | 0 | 1.15 | 0 | 0 | 0.76 | 0 | 2.41 | 0 | 1.42 | 0.39 |
| 78920 | 'Dlst' | 15.86 | 18.2 | 45.8 | 12.8 | 12.3 | 8.36 | 40.2 | 26.08 | 16.08 | 17.11 |
| 78921 | '9130019O22Rik' | 2.4 | 0.12 | 3.82 | 0.01 | 4.24 | 0.22 | 0.01 | 6.95 | 1.83 | 1.58 |
| 78923 | 'Chsy3' | 1.08 | 1.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0.22 | 1.34 |
| 78925 | 'Srd5a1' | 12.79 | 6.28 | 1.46 | 5.09 | 11.2 | 2.68 | 11.7 | 15.17 | 2.22 | 0 |
| 78926 | 'Gas2l1' | 4.46 | 1.16 | 0.44 | 5.99 | 4.74 | 0.16 | 0.75 | 2.71 | 10.21 | 0.95 |
| 78928 | 'Pigt' | 31.39 | 25.22 | 46.9 | 1.12 | 14.9 | 24.43 | 48.1 | 24.9 | 40.14 | 14.04 |
| 78929 | 'Polar3h' | 60.56 | 63.74 | 65 | 45.5 | 68.1 | 51.62 | 76.9 | 78.27 | 55.1 | 20.41 |
| 78933 | 'Agbl4' | 14.51 | 10.83 | 16.4 | 19.5 | 17 | 11.01 | 5.52 | 10.98 | 3.95 | 12.8 |
| 78935 | 'Saal1' | 3.01 | 10.17 | 6.28 | 8.2 | 7.73 | 1.32 | 22.9 | 10.52 | 6.46 | 4.72 |
| 78937 | 'Avl9' | 2.2 | 1.79 | 2.05 | 2.25 | 3.3 | 1.32 | 4.17 | 2.92 | 2.08 | 3.48 |
| 78938 | 'Fbxo34' | 13.49 | 17.48 | 8.55 | 40.9 | 3.38 | 16.31 | 19 | 18.76 | 23.83 | 19.82 |
| 78943 | 'Ern1' | 0.61 | 0.05 | 0.12 | 0 | 0.18 | 0 | 1.28 | 0.07 | 0 | 0.47 |
| 78977 | 'Popdc3' | 0 | 1.93 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 | 0 |
| 79043 | 'Spsb3' | 47.74 | 41.25 | 51.4 | 9.61 | 33.4 | 49.01 | 46.9 | 46.81 | 46.23 | 32.48 |
| 79044 | 'Mrps34' | 109 | 84.36 | 119 | 155 | 121 | 119.2 | 95.5 | 115.5 | 128.5 | 100.48 |
| 79059 | 'Nme3' | 90.21 | 82.16 | 100 | 147 | 92.3 | 172.9 | 74.1 | 134.5 | 59.87 | 95.82 |
| 79196 | 'Osbp15' | 3.19 | 5.19 | 0.04 | 2.49 | 1.86 | 0.17 | 15.6 | 0.74 | 7.11 | 4.49 |
| 79202 | 'Tnfrsf22' | 2.71 | 1.63 | 6.42 | 3.33 | 4.16 | 1.73 | 2.19 | 1.91 | 2.63 | 0.98 |
| 79221 | 'Hdac9' | 1.11 | 0.79 | 0.41 | 0.07 | 2.59 | 4.87 | 0 | 1.69 | 2.25 | 0.52 |
| 79233 | 'Zfp319' | 0.81 | 3.99 | 3.04 | 0.15 | 0.83 | 0.84 | 2.7 | 1.27 | 0 | 0.92 |
| 79263 | 'Trim39' | 5.38 | 1.52 | 1.89 | 4.92 | 13 | 0.25 | 5.8 | 4.34 | 3.8 | 9.22 |
| 79264 | 'Krit1' | 7.94 | 5.52 | 5.82 | 3.5 | 3.99 | 4.69 | 7.85 | 6.73 | 11.39 | 5.81 |
| 79362 | 'Bhlhe41' | 42.43 | 24.59 | 30.4 | 59.1 | 41.4 | 17.38 | 31.2 | 28.19 | 31.23 | 39.87 |
| 79401 | 'Spz1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.87 | 0 | 0 |
| 79456 | 'Recql4' | 0 | 0 | 0 | 2.3 | 0.05 | 0 | 0 | 0 | 0 | 0.51 |
| 79464 | 'Lias' | 18.02 | 18.16 | 32.6 | 28.2 | 35.1 | 42.17 | 13.7 | 19.12 | 25.24 | 25.56 |
| 79554 | 'Cptp' | 15.01 | 21.53 | 39.3 | 33.4 | 14.5 | 29.13 | 20.2 | 43.87 | 37.15 | 10.98 |
| 79555 | 'BC005537' | 5.87 | 1.93 | 8.81 | 7.53 | 2.36 | 2.81 | 3.42 | 2.06 | 10.52 | 2.14 |
| 79560 | 'Ublcp1' | 38.99 | 16.78 | 46.9 | 18.3 | 42.5 | 47.2 | 50.9 | 35.35 | 46.63 | 32.81 |
| 79565 | 'Mettl27' | 0 | 5.32 | 5.75 | 9.65 | 6.47 | 21.39 | 4.58 | 2.25 | 0.37 | 6.46 |
| 79566 | 'Sh3bp5l' | 20.12 | 21.23 | 23.3 | 0.02 | 24.3 | 10.24 | 28.3 | 26.72 | 11.65 | 24.67 |
| 80280 | 'Cdk5rap3' | 38.18 | 43.52 | 39.7 | 32.7 | 28.4 | 65.28 | 38.1 | 44.47 | 33.54 | 47.49 |
| 80281 | 'Cttnbp2nl' | 1.12 | 0.39 | 0.94 | 3.52 | 2.87 | 0.5 | 0.01 | 1.29 | 0.63 | 3.23 |
| 80283 | 'Abtb1' | 16.79 | 11.69 | 22.8 | 21.1 | 30.8 | 22.4 | 14.4 | 17.64 | 26.14 | 10.12 |
| 80284 | 'Smim12' | 60.73 | 53.66 | 79.6 | 0 | 92.6 | 70.23 | 67.1 | 68.07 | 37.15 | 33.64 |
| 80285 | 'Parp9' | 0.02 | 0.02 | 0.11 | 0.59 | 0.69 | 1.08 | 4.76 | 0 | 0 | 0 |
| 80286 | 'Tusc3' | 281.9 | 359.9 | 227 | 318 | 253 | 286.5 | 350 | 214 | 265.4 | 223.06 |
| 80287 | 'Apobec3' | 1.33 | 0.75 | 0.91 | 0 | 1.45 | 1.37 | 4.18 | 1.98 | 0.48 | 2.88 |
| 80288 | 'Bcl9l' | 2.06 | 1.26 | 3.44 | 0.84 | 1.4 | 1.94 | 2.85 | 0.18 | 0.52 | 0.17 |
| 80289 | 'Lysmd3' | 0 | 4.41 | 0.02 | 0 | 2.07 | 0.83 | 3.51 | 2.36 | 2.93 | 4.23 |
| 80290 | 'Gpr146' | 0.74 | 2.39 | 1.76 | 3.31 | 0.01 | 1.94 | 4.85 | 1.22 | 1.34 | 2.06 |
| 80291 | 'Rilpl2' | 25.7 | 15.96 | 15.4 | 24.5 | 28.7 | 10.88 | 14 | 15.03 | 25.17 | 8.59 |
| 80292 | 'Zxdc' | 0.92 | 2.07 | 0.83 | 8.18 | 2.56 | 0.03 | 4.51 | 0.87 | 0 | 1.63 |
| 80294 | 'Pofut2' | 33.88 | 42.01 | 18.6 | 28.8 | 43.6 | 29.62 | 9.91 | 34.57 | 43.25 | 43.71 |
| 80297 | 'Sptbn4' | 0.89 | 2.48 | 0.97 | 0.45 | 4.41 | 0.2 | 3.6 | 1.83 | 3.46 | 2.11 |
| 80334 | 'Kcnp4' | 107.1 | 59.31 | 65.9 | 35.5 | 41.6 | 70.39 | 27.7 | 29.72 | 60.73 | 74.08 |
| 80384 | 'Tex21' | 0 | 0 | 0.22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80385 | 'Tusc2' | 63.22 | 38.29 | 28.4 | 71.7 | 40.4 | 30.58 | 56.3 | 41.66 | 45.32 | 4.82 |
| 80509 | 'Med8' | 16.8 | 19.54 | 27 | 13.8 | 8.73 | 16.77 | 9.78 | 29.86 | 44.98 | 21.62 |
| 80517 | 'Herpud2' | 1.5 | 4.58 | 4.14 | 6.73 | 6.89 | 6.15 | 2.61 | 4.44 | 0 | 0 |
| 80707 | 'Wwox' | 10.05 | 20.32 | 17.5 | 12.7 | 7.38 | 16.54 | 25.3 | 30.14 | 27.93 | 20.71 |
| 80708 | 'Pacsin3' | 13.8 | 4.56 | 10.7 | 0.57 | 3.54 | 5.07 | 8 | 8.7 | 0.24 | 3.62 |
| 80718 | 'Rab27b' | 9.65 | 13.85 | 6.2 | 12.4 | 39.3 | 14.84 | 9.2 | 13.45 | 28.02 | 36.34 |
| 80719 | 'Igsf6' | 1.49 | 0 | 0.71 | 0.83 | 0 | 0 | 0.13 | 0 | 0 | 0 |
| 80720 | 'Pbx4' | 20.28 | 17.7 | 21 | 15.2 | 24.1 | 21.99 | 29.5 | 12.11 | 14.95 | 36.68 |
| 80721 | 'Slc19a3' | 0 | 0 | 0 | 0 | 0.08 | 0 | 0 | 0 | 0.08 | 0 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 80732 | 'Mynn' | 4.81 | 3.81 | 0.87 | 2.58 | 2.38 | 0.45 | 2.15 | 4.42 | 7.34 | 6.16 |
| 80733 | 'Car15' | 1.91 | 0.33 | 0 | 0 | 3.57 | 0.03 | 0 | 0.11 | 1 | 1.34 |
| 80743 | 'Vps16' | 38.86 | 30.57 | 52.9 | 15.7 | 69.9 | 39.71 | 67.2 | 46.4 | 67.25 | 65.78 |
| 80744 | 'Cwc22' | 0.73 | 7.25 | 5.29 | 2.5 | 6.24 | 1.74 | 0.31 | 3.63 | 1.5 | 3.82 |
| 80748 | 'BC004004' | 91.8 | 95.78 | 63.9 | 113 | 72.7 | 115.2 | 78 | 114.5 | 82.54 | 119.29 |
| 80749 | 'Lrfn1' | 2.6 | 0 | 0.1 | 0.42 | 0.62 | 0.52 | 0.02 | 2.27 | 0.87 | 1.1 |
| 80750 | 'N4bp1' | 4.67 | 6.24 | 3.27 | 6.44 | 4.16 | 4.47 | 2.36 | 2.83 | 4.34 | 7.17 |
| 80751 | 'Rnf34' | 25.88 | 40.87 | 53.9 | 29.1 | 29 | 36.46 | 41.5 | 31.67 | 44.94 | 32.01 |
| 80752 | 'Fam20c' | 32.19 | 24.46 | 20.8 | 31.5 | 18.2 | 14.89 | 47.4 | 28.64 | 15.33 | 10.63 |
| 80794 | 'Cb1c' | 0 | 0.03 | 1.31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80795 | 'Selenok' | 400 | 464.9 | 246 | 475 | 425 | 469.8 | 323 | 363.3 | 382.9 | 481.93 |
| 80797 | 'Clca3a2' | 0 | 1.04 | 0 | 0.55 | 0.1 | 0.39 | 0 | 1.46 | 0 | 0.02 |
| 80837 | 'Rhoj' | 2.25 | 1.3 | 0.87 | 1.2 | 1.37 | 1.48 | 3.45 | 0.12 | 1.05 | 0 |
| 80859 | 'Nfkbiz' | 0 | 12.36 | 7.5 | 9.9 | 0.59 | 3.39 | 0.34 | 0.02 | 0.02 | 3.01 |
| 80860 | 'Ghdc' | 1.39 | 3.96 | 8.86 | 12.5 | 11.2 | 14.6 | 0.1 | 3.33 | 2.1 | 6.76 |
| 80861 | 'Dhx58' | 0.04 | 2.1 | 2.56 | 2 | 0 | 1.77 | 0 | 0.55 | 0 | 0.02 |
| 80876 | 'Ifitm2' | 0 | 1.24 | 0.5 | 30.1 | 0.34 | 13.61 | 0 | 1.6 | 0.9 | 5.77 |
| 80877 | 'Lrba' | 0.45 | 0.4 | 1.49 | 0.02 | 8.69 | 1.64 | 0.3 | 0.55 | 1.43 | 1.52 |
| 80879 | 'Slc16a3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.04 | 1.28 | 0 |
| 80880 | 'Kank3' | 1.38 | 6.4 | 3.12 | 1.98 | 7.26 | 2.75 | 5.74 | 4.32 | 6.4 | 9.76 |
| 80883 | 'Ntng1' | 15.3 | 6.27 | 0.44 | 14.2 | 6.56 | 2.11 | 9.7 | 4.89 | 0.03 | 0 |
| 80884 | 'Maged2' | 98.63 | 134.4 | 131 | 150 | 86.3 | 116.3 | 141 | 160.2 | 115.6 | 130.53 |
| 80886 | 'Senp3' | 23.06 | 13.55 | 15.4 | 8.52 | 24.3 | 10.23 | 6.25 | 17.22 | 14.64 | 14.64 |
| 80888 | 'Hspb8' | 3.29 | 10.34 | 19.7 | 10.7 | 25 | 1.67 | 5.29 | 2.97 | 4.16 | 43.69 |
| 80889 | 'Tlnrd1' | 1.14 | 2.23 | 0.06 | 3.78 | 0.35 | 0 | 1.21 | 0.16 | 0.78 | 1.33 |
| 80890 | 'Trim2' | 36.98 | 38.94 | 43.1 | 23.4 | 30.8 | 24.08 | 33.7 | 34.92 | 28.64 | 35.2 |
| 80891 | 'Fcr1s' | 1.44 | 5.29 | 3.78 | 5.94 | 6.89 | 18.72 | 0 | 0 | 0 | 0 |
| 80892 | 'Zfhx4' | 3.4 | 1.57 | 3.5 | 3.47 | 3.33 | 5.05 | 2.59 | 3.93 | 3.97 | 4.23 |
| 80893 | 'Tmprss5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.13 |
| 80898 | 'Erap1' | 1.24 | 0.01 | 0.83 | 0 | 0 | 0 | 1.2 | 1.55 | 8.74 | 1.74 |
| 80902 | 'Zfp202' | 3.11 | 5.74 | 0.57 | 3.05 | 1.9 | 6.31 | 1.08 | 4.53 | 0.57 | 1.48 |
| 80904 | 'Dtx3' | 81.51 | 76.86 | 78.4 | 36.6 | 135 | 55.08 | 119 | 97.9 | 128.1 | 108.51 |
| 80905 | 'Polh' | 1.64 | 1.98 | 2.71 | 0.55 | 1.48 | 0.01 | 0.94 | 0.88 | 0.48 | 0.56 |
| 80906 | 'Kcnp2' | 8 | 15.55 | 14.1 | 7.48 | 21.3 | 35.24 | 2.9 | 8.25 | 12.06 | 51.66 |
| 80907 | 'Lactb' | 0 | 1.47 | 3.91 | 1.88 | 2.07 | 0 | 2.45 | 1.83 | 1.36 | 0.18 |
| 80909 | 'Castor2' | 11.78 | 11.73 | 7.59 | 4.34 | 4.64 | 2.95 | 3.76 | 4.54 | 8.94 | 6.35 |
| 80910 | 'Gpr84' | 0 | 0.98 | 0 | 10.4 | 0 | 8.74 | 0.03 | 0 | 0 | 0 |
| 80911 | 'Acox3' | 1.74 | 4.32 | 11.1 | 3.16 | 7.41 | 1.15 | 2.54 | 8.34 | 3.51 | 2.89 |
| 80912 | 'Pum1' | 23.04 | 20.9 | 21.8 | 28.5 | 17.8 | 14.52 | 28.4 | 18.38 | 26.78 | 26.32 |
| 80913 | 'Pum2' | 9.37 | 9.55 | 6.46 | 16.2 | 11.9 | 6.2 | 5.98 | 5.77 | 7.7 | 7.88 |
| 80914 | 'Uck2' | 2.15 | 1.1 | 4.39 | 4.02 | 4.23 | 0 | 7.58 | 4.42 | 3.53 | 0.3 |
| 80915 | 'Dusp12' | 13.1 | 14.5 | 7.56 | 0 | 2.22 | 20.67 | 20.7 | 32.28 | 30.37 | 15.03 |
| 80976 | 'Sy113' | 53.51 | 30.96 | 64.7 | 17.4 | 41.7 | 16.84 | 36.3 | 34 | 61.59 | 18.39 |
| 80979 | 'Slc26a5' | 0 | 0 | 0.05 | 0 | 0 | 1.18 | 1.18 | 0 | 0 | 0.08 |
| 80981 | 'Arl4d' | 10.88 | 0 | 3.08 | 0 | 6.08 | 0 | 7.81 | 4.93 | 0.03 | 0.03 |
| 80982 | 'Cemip' | 0 | 0.45 | 0 | 0 | 0 | 1.07 | 0 | 0.89 | 0.01 | 0 |
| 80985 | 'Trim44' | 10.99 | 6 | 11.3 | 16.8 | 4.4 | 11.85 | 8.24 | 3.69 | 5.07 | 5.33 |
| 80986 | 'Ckap2' | 0 | 1.61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80987 | 'Nckip2d' | 48.8 | 26.69 | 53.3 | 23.4 | 36.9 | 41.31 | 102 | 47.09 | 42.69 | 40.72 |
| 81000 | 'Rad54l2' | 2.01 | 1.07 | 2.37 | 0.61 | 3.39 | 2.74 | 1.76 | 0.72 | 0 | 0.97 |
| 81003 | 'Trim23' | 12.06 | 13.82 | 14.5 | 18 | 8.54 | 6.48 | 6.63 | 13.95 | 10.79 | 12.93 |
| 81004 | 'Tbl1xr1' | 0.48 | 0.83 | 1.75 | 0 | 1.51 | 0.77 | 1.87 | 0.45 | 1.21 | 0.06 |
| 81011 | 'Vmn1r148' | 0 | 0 | 0.02 | 0 | 0 | 0.29 | 0 | 0 | 0 | 0 |
| 81013 | 'Vmn1r65' | 0.38 | 0.22 | 0.49 | 1.1 | 0.85 | 0.28 | 0.7 | 0.43 | 0.37 | 0.33 |
| 81014 | 'Vmn1r58' | 10.98 | 13.26 | 14.5 | 20.4 | 16.4 | 10.67 | 15.9 | 9 | 16.23 | 11.73 |
| 81018 | 'Rnf114' | 39.67 | 41.61 | 32.3 | 21.4 | 51.8 | 29.24 | 52 | 44.28 | 36.85 | 39.85 |
| 81489 | 'Dnajb1' | 72.17 | 128.2 | 118 | 227 | 36 | 60.04 | 54.8 | 44.32 | 67.91 | 114.97 |
| 81500 | 'Sil1' | 86 | 95.84 | 52.1 | 55.7 | 52.2 | 80.7 | 66.4 | 61.9 | 112 | 97.09 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 81535 | 'Sgpp1' | 1.2 | 4.8 | 4.46 | 1.96 | 5.01 | 4.67 | 2.22 | 4.85 | 1.36 | 0 |
| 81600 | 'Chia1' | 0 | 3.22 | 0.03 | 9.84 | 23.7 | 7.01 | 0.37 | 0 | 0 | 2.94 |
| 81601 | 'Kat5' | 41.97 | 34 | 30.7 | 20.9 | 27.9 | 45.2 | 33.2 | 54.23 | 35.85 | 33.52 |
| 81630 | 'Zbtb22' | 0.02 | 7.25 | 9.39 | 0 | 6.31 | 2.24 | 5.34 | 0.81 | 1.83 | 0 |
| 81701 | 'Egfl8' | 0 | 0.04 | 0.3 | 0 | 0 | 1.47 | 0.29 | 0 | 0 | 0 |
| 81702 | 'Ankrd17' | 12.98 | 15.62 | 12.7 | 13.8 | 7.79 | 7.77 | 7.58 | 9.55 | 17.69 | 8.35 |
| 81703 | 'Jdp2' | 0.9 | 0.25 | 0.19 | 2.63 | 0.47 | 1.09 | 0.13 | 0.23 | 0.96 | 0 |
| 81799 | 'C1qtnf3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.05 |
| 81840 | 'Sorcs2' | 0.63 | 1.54 | 3.35 | 0.02 | 1.47 | 4.05 | 0 | 0.85 | 5.01 | 4.48 |
| 81845 | 'Gpank1' | 9.84 | 13.47 | 24.3 | 1.43 | 26 | 15.84 | 12.1 | 35.39 | 14.62 | 23.01 |
| 81877 | 'Tnxb' | 0.9 | 1.74 | 4.06 | 6.46 | 1.18 | 0.29 | 0.71 | 0.02 | 1.54 | 0.26 |
| 81879 | 'Tfcp2l1' | 0.55 | 0 | 0 | 0 | 0 | 0.01 | 0.01 | 0.69 | 0.03 | 0 |
| 81896 | 'Ift122' | 6.56 | 5.75 | 2.96 | 14.5 | 13.3 | 6.34 | 10.2 | 8.45 | 5.2 | 14.62 |
| 81898 | 'Sf3b1' | 119.4 | 86.25 | 103 | 136 | 97.7 | 99.69 | 85.9 | 97.97 | 107.5 | 120.65 |
| 81904 | 'Cacng7' | 0 | 0.09 | 1.11 | 0.22 | 0 | 0.67 | 0 | 0 | 0 | 0.21 |
| 81905 | 'Cacng8' | 0.03 | 0.9 | 0.23 | 0.24 | 0 | 0.13 | 0 | 0.25 | 2.49 | 1.01 |
| 81906 | 'Cyp4x1' | 5.27 | 17 | 9.58 | 7.92 | 1.44 | 2.49 | 7.71 | 8.1 | 7.53 | 16.43 |
| 81907 | 'Tmem108' | 12.7 | 5.25 | 19.1 | 6.47 | 17.7 | 12.04 | 13 | 13.43 | 17.07 | 24.5 |
| 81909 | 'Zfp11' | 71.17 | 70.29 | 67.3 | 63.4 | 63.6 | 81.66 | 56.3 | 51.98 | 99 | 85.28 |
| 81910 | 'Rrbp1' | 2.48 | 5.51 | 5.15 | 25.6 | 8 | 5.55 | 4.27 | 3.66 | 6.6 | 2.41 |
| 83383 | 'Tfap4' | 0 | 1.79 | 0.05 | 0 | 0.21 | 1.79 | 2.67 | 3.96 | 1.69 | 2.72 |
| 83396 | 'Glis2' | 0.25 | 1.29 | 3.47 | 0 | 4.26 | 0.14 | 0.27 | 1.67 | 1.51 | 1.03 |
| 83397 | 'Akap12' | 0.97 | 2.4 | 4.35 | 11.4 | 4.16 | 1.88 | 1.11 | 2.23 | 2 | 5.96 |
| 83398 | 'Ndst3' | 2.13 | 0.97 | 2.83 | 3.09 | 3.49 | 6.44 | 8.58 | 3.72 | 1.74 | 2.89 |
| 83408 | 'Gimap3' | 0 | 0.02 | 0 | 0 | 0.05 | 0 | 0 | 0 | 0 | 0 |
| 83409 | 'Lamtor2' | 219 | 242 | 222 | 303 | 254 | 377.6 | 296 | 310.4 | 375.8 | 265.93 |
| 83410 | 'Cstf2t' | 36.73 | 26.28 | 40 | 22.8 | 17.1 | 4.37 | 40.6 | 28.51 | 41.78 | 35.73 |
| 83428 | 'Ucn3' | 0 | 0.03 | 0.07 | 0.04 | 0.03 | 111.8 | 0 | 0 | 207.1 | 27.12 |
| 83429 | 'Ctns' | 8.3 | 12.53 | 10.8 | 10.4 | 5.31 | 11.52 | 0.06 | 12.02 | 6.05 | 7.97 |
| 83430 | 'Il23a' | 0 | 2.01 | 0 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 83431 | 'Ndel1' | 71.49 | 78.89 | 63.5 | 102 | 41 | 42.06 | 37.9 | 65.46 | 53.81 | 63.52 |
| 83433 | 'Trem2' | 0 | 7.21 | 0.05 | 10.8 | 6 | 86.16 | 6.52 | 4.55 | 0.04 | 4.12 |
| 83434 | 'Rsph6a' | 0 | 0 | 0.47 | 0 | 0 | 0.55 | 0 | 0 | 0 | 0.19 |
| 83435 | 'Plekha3' | 7.29 | 2.98 | 0.65 | 7.03 | 1.94 | 9.13 | 2.65 | 0.92 | 2.59 | 3.18 |
| 83436 | 'Plekha2' | 0.01 | 0.04 | 0.33 | 3.53 | 0.08 | 0 | 3.31 | 0.05 | 3.67 | 0 |
| 83453 | 'Chrdl1' | 0 | 0 | 1.98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83454 | 'Nxf2' | 0 | 0 | 0 | 4.13 | 0 | 0 | 0 | 0 | 0 | 1.03 |
| 83456 | 'Mov10l1' | 0.03 | 0 | 0.09 | 0.03 | 0 | 0.03 | 0.06 | 0 | 0 | 0.08 |
| 83485 | 'Ngrn' | 44.81 | 50.42 | 62.7 | 67.2 | 64.7 | 53.32 | 55.1 | 54.08 | 50.87 | 49.47 |
| 83486 | 'Rbm5' | 68.49 | 64.06 | 61.5 | 73.7 | 49.8 | 47.98 | 48.2 | 59.88 | 49.46 | 84.65 |
| 83490 | 'Pik3ap1' | 0 | 0 | 0 | 0 | 0.22 | 0 | 0 | 0.56 | 0 | 0 |
| 83493 | 'Sacm1l' | 37.6 | 20.06 | 19.8 | 23.4 | 18 | 16.66 | 36.1 | 31.39 | 43.01 | 39.95 |
| 83553 | 'Tktl1' | 0 | 1.95 | 0.06 | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 |
| 83554 | 'Fstl3' | 0 | 9.59 | 1.41 | 0 | 4.5 | 0 | 0.31 | 0 | 0 | 1.84 |
| 83555 | 'Tex13b' | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83556 | 'Tex16' | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0.13 | 0.02 | 1.45 |
| 83557 | 'Lin28a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 |
| 83560 | 'Tex14' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 3.33 |
| 83602 | 'Gtf2a1' | 7.78 | 7.51 | 8.01 | 7 | 6.34 | 1.2 | 7.96 | 4.7 | 4.24 | 7.28 |
| 83603 | 'Elov14' | 25.68 | 29.68 | 23.1 | 9.93 | 24.5 | 10.86 | 33.1 | 35.38 | 24.72 | 21.37 |
| 83669 | 'Wdr6' | 271.5 | 223.9 | 358 | 233 | 307 | 128.2 | 235 | 291.4 | 229.5 | 310.53 |
| 83671 | 'Sytl2' | 3.28 | 0 | 0.65 | 0 | 8.46 | 5.38 | 10.8 | 6.14 | 6.63 | 2.11 |
| 83674 | 'Cnrm1' | 5 | 1.93 | 8.22 | 6.84 | 8.26 | 7.89 | 6.12 | 7.51 | 5.06 | 9.41 |
| 83675 | 'Bicc1' | 0 | 0 | 0 | 1.59 | 0.01 | 0.8 | 0 | 0.11 | 0 | 0.01 |
| 83679 | 'Pde4dip' | 12.03 | 13.1 | 19.2 | 14.2 | 10.3 | 7.61 | 4.71 | 9.99 | 8.5 | 8.24 |
| 83691 | 'Crispld1' | 0 | 2.7 | 0 | 0 | 2.69 | 0.98 | 3.11 | 0.97 | 0 | 0.33 |
| 83701 | 'Srrt' | 26.14 | 16.13 | 17.2 | 15 | 25.4 | 28.68 | 19.8 | 29.35 | 29.59 | 17.22 |
| 83703 | 'Dbr1' | 12.61 | 10.76 | 16.9 | 21.9 | 3.29 | 3.06 | 15.6 | 12.36 | 12.23 | 12.32 |

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|-------|-----------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 83704 | 'Slc12a9' | 0.73 | 11.22 | 9.68 | 5.11 | 6.13 | 1.14 | 12 | 3.6 | 0.12 | 0.79 |
| 83762 | 'Otof' | 0.01 | 2.12 | 9.94 | 2.21 | 2.23 | 1.76 | 11.6 | 2.02 | 1.34 | 0.51 |
| 83766 | 'Actl6b' | 64.08 | 82.35 | 64.3 | 74.6 | 94.2 | 51.15 | 62.6 | 75.44 | 75.02 | 104.53 |
| 83767 | 'Wasf1' | 17.55 | 12.32 | 16.3 | 25.3 | 24.9 | 2.92 | 14.4 | 12.62 | 21.3 | 6.03 |
| 83768 | 'Dpp7' | 53.01 | 35.03 | 16.1 | 45.4 | 40.5 | 62.56 | 30 | 32.42 | 20.79 | 52.93 |
| 83770 | 'Tas1r2' | 0 | 0 | 0 | 1.44 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83771 | 'Tas1r3' | 0 | 0 | 0 | 0 | 1.04 | 0 | 0.01 | 0 | 0 | 0 |
| 83796 | 'Smarcd2' | 2.39 | 4.27 | 0 | 0 | 2.26 | 0 | 2.67 | 0 | 0.8 | 0 |
| 83797 | 'Smarcd1' | 6.03 | 8.26 | 6.28 | 11.4 | 7.74 | 3.03 | 2.83 | 5.05 | 5.16 | 3.61 |
| 83813 | 'Tnk1' | 0.02 | 0 | 0 | 0 | 0 | 0 | 1.67 | 0 | 0 | 0 |
| 83814 | 'Nedd4l' | 7.77 | 7.31 | 4.73 | 8.98 | 7.94 | 8.44 | 3.83 | 6.51 | 10.87 | 6.93 |
| 83815 | 'Cenpq' | 4.63 | 1.18 | 6.19 | 0 | 3.08 | 0.39 | 0 | 2.4 | 0 | 0.81 |
| 83885 | 'Slc25a2' | 0.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.87 |
| 83921 | 'Cemip2' | 2.51 | 2.4 | 1.4 | 2 | 1.06 | 1.39 | 1.52 | 0.7 | 0.22 | 0.84 |
| 83922 | 'Cep41' | 5.68 | 8.65 | 1.06 | 0.15 | 1.71 | 2.16 | 13.1 | 3.16 | 8.54 | 17.37 |
| 83924 | 'Gpr137b' | 7.44 | 1.64 | 7.14 | 16.1 | 5.55 | 13.26 | 10.5 | 6.93 | 20.17 | 14.25 |
| 83925 | 'Trps1' | 0.51 | 4.69 | 0.14 | 4.67 | 0.84 | 0.33 | 1.47 | 0.04 | 0.88 | 0.94 |
| 83945 | 'Dnaja3' | 51.95 | 45.16 | 51.4 | 43.2 | 31.1 | 44.23 | 66 | 63.36 | 56.05 | 72.69 |
| 83946 | 'Phip' | 3.57 | 6.14 | 4.97 | 11.2 | 8.54 | 4.47 | 2.89 | 4.33 | 8.15 | 8.58 |
| 83961 | 'Nrg4' | 1.08 | 0.31 | 1.15 | 0.9 | 0 | 2.41 | 0.57 | 2.14 | 1.17 | 0 |
| 83962 | 'Btbd1' | 8.26 | 15.71 | 4.16 | 9.78 | 8.36 | 8.45 | 4.34 | 7.11 | 2.39 | 9.73 |
| 83964 | 'Jam3' | 6.05 | 15.81 | 17.9 | 0.93 | 14.9 | 15.93 | 9.96 | 9.71 | 5.74 | 7.28 |
| 83965 | 'Enpp5' | 160.9 | 154.3 | 127 | 128 | 155 | 170.1 | 113 | 171.6 | 200.6 | 181.63 |
| 83984 | 'Tssk6' | 2.47 | 6.84 | 0 | 0 | 1.84 | 6.97 | 3.88 | 0 | 4.83 | 0 |
| 83997 | 'Slmap' | 2.57 | 2.74 | 5.96 | 5.78 | 4.09 | 0.55 | 1.62 | 0.9 | 2.35 | 1.78 |
| 84004 | 'Mcam' | 0.08 | 0.1 | 6.8 | 0 | 0.07 | 0.02 | 0 | 0 | 0 | 0 |
| 84035 | 'Kremen1' | 0.01 | 0.84 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 |
| 84036 | 'Kcnn1' | 1.52 | 0.01 | 5.2 | 0 | 0 | 0 | 1.5 | 3.8 | 0 | 0.01 |
| 84092 | 'Usp8' | 31.73 | 16.34 | 28.4 | 35.5 | 17.5 | 21.83 | 42.7 | 36.16 | 35.81 | 27.01 |
| 84094 | 'Plvap' | 11.79 | 16.44 | 32.3 | 3.31 | 10.5 | 36.25 | 27.5 | 15.77 | 19.87 | 15.97 |
| 84095 | 'Pi4k2a' | 2.66 | 3.81 | 6.1 | 23.5 | 14.4 | 0.24 | 3.26 | 5.39 | 3.4 | 2.36 |
| 84111 | 'Gpr87' | 1.3 | 0 | 0.44 | 0 | 0 | 0 | 0 | 0 | 0 | 0.69 |
| 84113 | 'Ptov1' | 38.97 | 47.27 | 53.1 | 75.1 | 55.7 | 86.51 | 79.2 | 58.22 | 43.59 | 46.84 |
| 84505 | 'Setdb1' | 2.26 | 9.33 | 8.1 | 3.41 | 6.64 | 2.04 | 2.88 | 5.01 | 5.97 | 9.8 |
| 84544 | 'Cd96' | 0 | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 84585 | 'Rnf123' | 10.2 | 10.2 | 13.8 | 2.4 | 6.2 | 1.87 | 14.2 | 10.61 | 15.44 | 12.85 |
| 84652 | 'Fam126a' | 2.46 | 3.7 | 5.42 | 0.04 | 1.19 | 1.32 | 1.28 | 0.3 | 1.67 | 3.18 |
| 84653 | 'Hes7' | 0.02 | 0.05 | 0.26 | 0.06 | 0 | 0.21 | 0 | 0.04 | 0 | 0 |
| 84682 | 'Cox4i2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.32 |
| 84704 | 'Snurf' | 55.05 | 74.86 | 71.4 | 61.7 | 88.8 | 101.1 | 74 | 74.75 | 59.81 | 113.08 |
| 85031 | 'Pla1a' | 1.05 | 0.24 | 0 | 3.78 | 0 | 0 | 0 | 1.12 | 0 | 0 |
| 85305 | 'Kars' | 67.74 | 60.91 | 80.5 | 51.8 | 94.4 | 63.94 | 104 | 71.73 | 91.64 | 67.69 |
| 85308 | 'Emc9' | 187.1 | 110.4 | 128 | 139 | 161 | 301.5 | 140 | 201.3 | 111 | 143.82 |
| 93670 | 'Tac4' | 1.05 | 0 | 0.59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93671 | 'Cd163' | 0.42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93674 | 'Nat8f3' | 0 | 0 | 0 | 0 | 0.4 | 0 | 0 | 0 | 0 | 0 |
| 93675 | 'Clec2i' | 0 | 0 | 0 | 0.1 | 0 | 0 | 0.04 | 0 | 0.1 | 0 |
| 93677 | 'Lmod2' | 0.02 | 0 | 0.1 | 0.03 | 0.05 | 0.02 | 0.03 | 0 | 0.09 | 0.02 |
| 93679 | 'Trim8' | 12.82 | 14.33 | 11 | 15.6 | 9.41 | 6.53 | 16.3 | 5.63 | 10.72 | 8.31 |
| 93681 | 'Zkscan8' | 0.11 | 3.68 | 1.58 | 0 | 3.15 | 0.13 | 0 | 3.52 | 0 | 1.76 |
| 93683 | 'Glce' | 7.09 | 2.8 | 2.14 | 1.25 | 7.14 | 0.2 | 5.49 | 3.38 | 4.8 | 9.82 |
| 93684 | 'Selenof' | 271.2 | 206.8 | 238 | 318 | 291 | 289.7 | 247 | 254.2 | 176.9 | 294.92 |
| 93685 | 'Entpd7' | 2.1 | 3.58 | 3.91 | 0.9 | 1.06 | 1 | 0.84 | 0.81 | 0.12 | 2.86 |
| 93686 | 'Rbfox2' | 20.09 | 14.77 | 14.4 | 14.2 | 22.7 | 11.17 | 30.9 | 17.9 | 15.03 | 18.48 |
| 93687 | 'Csnk1a1' | 99.64 | 134.4 | 110 | 91.4 | 85.8 | 89.9 | 123 | 103.9 | 88.09 | 105.15 |
| 93688 | 'Klhl1' | 21.39 | 2.96 | 0.02 | 0.83 | 6.77 | 2.95 | 19.9 | 13.45 | 6.17 | 4.56 |
| 93689 | 'Lmod1' | 0.1 | 0.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0.14 | 0.12 |
| 93690 | 'Gpr45' | 0.89 | 1.85 | 0.01 | 0 | 0 | 0 | 1.19 | 0.97 | 2.41 | 0.82 |

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|-------|-------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 93691 | 'Klf7' | 29.81 | 18.39 | 20 | 45.9 | 15.8 | 40.58 | 2.91 | 6.87 | 28.7 | 42.85 |
| 93692 | 'Glrx' | 38.36 | 34.32 | 63.1 | 26.9 | 47.8 | 55.31 | 69.3 | 67.62 | 64.42 | 7.19 |
| 93695 | 'Gpnmb' | 1.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93696 | 'Chrac1' | 88.24 | 61.05 | 59.9 | 23.5 | 98.8 | 84.16 | 86.5 | 62.23 | 54.62 | 61.17 |
| 93697 | 'Ice2' | 5.71 | 3.71 | 1.77 | 1.32 | 2.21 | 1.48 | 1.62 | 3.28 | 4.95 | 2.49 |
| 93699 | 'Pcdhgb1' | 0 | 1.93 | 0.59 | 0 | 0 | 0.1 | 0 | 1.2 | 0 | 0.1 |
| 93700 | 'Pcdhgb2' | 0 | 0.9 | 4.4 | 15.3 | 2.27 | 0.46 | 0.02 | 2.06 | 0 | 4.31 |
| 93701 | 'Pcdhgb4' | 0.75 | 1.89 | 4 | 0.04 | 0 | 0 | 0 | 0 | 1.08 | 0 |
| 93702 | 'Pcdhgb5' | 0 | 0 | 0.74 | 0 | 0 | 0 | 0 | 0.65 | 3.06 | 0.56 |
| 93703 | 'Pcdhgb6' | 3.61 | 10.28 | 8.26 | 0 | 1.53 | 3.86 | 6.67 | 1.16 | 14.56 | 7.24 |
| 93704 | 'Pcdhgb7' | 1.87 | 0.64 | 4.79 | 0 | 3.85 | 0.88 | 6.27 | 2.96 | 0 | 2.78 |
| 93705 | 'Pcdhgb8' | 1.35 | 0.21 | 1.62 | 0 | 0 | 0 | 3.71 | 0 | 0 | 0 |
| 93706 | 'Pcdhgc3' | 1.73 | 3.65 | 5.83 | 0 | 0.13 | 0.06 | 1.85 | 0 | 0.05 | 1.65 |
| 93707 | 'Pcdhgc4' | 20.63 | 13.67 | 10.5 | 7.19 | 11.2 | 7.97 | 21.9 | 17.88 | 20.99 | 23.47 |
| 93708 | 'Pcdhgc5' | 7.02 | 0 | 4.33 | 0.86 | 3.58 | 0.03 | 0 | 0.84 | 0.02 | 6.87 |
| 93709 | 'Pcdhga1' | 0 | 2.53 | 3.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93710 | 'Pcdhga2' | 0.95 | 1.66 | 12 | 0 | 3.84 | 0 | 0.09 | 1.49 | 2.58 | 0 |
| 93711 | 'Pcdhga3' | 2.95 | 3.74 | 0.21 | 0 | 8.51 | 1.26 | 1.1 | 0.23 | 4.23 | 4.35 |
| 93712 | 'Pcdhga4' | 2 | 2.27 | 8.84 | 0 | 7.92 | 0.36 | 2.65 | 5.3 | 2.79 | 4.92 |
| 93713 | 'Pcdhga5' | 0.14 | 2.53 | 2.14 | 4.62 | 2.52 | 4.95 | 0 | 2.05 | 0 | 6.58 |
| 93714 | 'Pcdhga6' | 2.85 | 2.52 | 13.8 | 0.56 | 6.29 | 0.09 | 0.66 | 7.67 | 6.16 | 1.67 |
| 93715 | 'Pcdhga7' | 9.71 | 12.21 | 9.8 | 5.36 | 6.76 | 8.5 | 13.4 | 6.24 | 4.58 | 7.64 |
| 93716 | 'Pcdhga8' | 0.48 | 1.49 | 8.92 | 0 | 0 | 0.22 | 0 | 5.51 | 2.98 | 9.38 |
| 93717 | 'Pcdhga9' | 2.57 | 1.29 | 1.19 | 4.1 | 0 | 1.13 | 0 | 0 | 0 | 0.56 |
| 93721 | 'Cpn1' | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93722 | 'Pcdhga10' | 0.35 | 2.86 | 2.26 | 0 | 0 | 1.33 | 0 | 3.55 | 0 | 0 |
| 93723 | 'Pcdhga11' | 9.85 | 1.45 | 2.64 | 3 | 2.33 | 0.11 | 3.22 | 2.93 | 2.82 | 4.92 |
| 93724 | 'Pcdhga12' | 2.47 | 3.29 | 1.73 | 0 | 0.44 | 2.69 | 0 | 5.26 | 10.22 | 1.18 |
| 93728 | 'Pabpc5' | 0 | 0 | 2.03 | 0 | 1.93 | 4.1 | 0 | 0 | 0.14 | 0 |
| 93730 | 'Lztf11' | 9.79 | 7.05 | 9.7 | 5.5 | 10.9 | 10.63 | 8.24 | 8.38 | 3.01 | 10.2 |
| 93734 | 'Mpv17l' | 37.2 | 35.9 | 20.9 | 42.6 | 31 | 26.37 | 19.9 | 36.42 | 30.87 | 30.22 |
| 93735 | 'Wnt16' | 0 | 0 | 0 | 0 | 1.27 | 0 | 0 | 0 | 0 | 0 |
| 93736 | 'Aff4' | 9.15 | 5.39 | 7.28 | 9.78 | 5.2 | 1.11 | 5.18 | 4.16 | 2.9 | 4.88 |
| 93737 | 'Pard6g' | 0.69 | 0.47 | 1.67 | 8.24 | 0.46 | 4.03 | 0.18 | 2.59 | 2.7 | 0 |
| 93739 | 'Gabarapl2' | 541.3 | 682.7 | 555 | 653 | 498 | 714.1 | 571 | 458.3 | 530.2 | 651.81 |
| 93742 | 'Pard3' | 5.41 | 2.6 | 1.56 | 0.04 | 3.14 | 0.83 | 1.1 | 2.97 | 0.46 | 0.49 |
| 93746 | 'Gprc5d' | 0 | 0.99 | 0 | 0.22 | 0 | 0.39 | 0 | 0 | 0 | 0 |
| 93747 | 'Echs1' | 36.78 | 38.61 | 48.5 | 28.1 | 43.8 | 74.74 | 49.2 | 57.73 | 48.07 | 32.96 |
| 93757 | 'Immpt2l' | 7.04 | 2.62 | 10.5 | 6.34 | 17.1 | 13.26 | 14.9 | 1.44 | 0 | 8 |
| 93759 | 'Sirt1' | 1.09 | 0.35 | 1.53 | 0 | 0.15 | 1.49 | 2.36 | 2 | 2.17 | 1.58 |
| 93760 | 'Arid1a' | 5.25 | 8.59 | 7.6 | 10.3 | 4.66 | 5.3 | 1.54 | 3.42 | 5.99 | 2.89 |
| 93761 | 'Smarca1' | 15.19 | 16.62 | 7.61 | 23.1 | 9.3 | 7.91 | 10.9 | 15.26 | 7.88 | 20.06 |
| 93762 | 'Smarca5' | 6.15 | 7.24 | 4.39 | 14.4 | 3.12 | 1.11 | 6.45 | 5.78 | 2.89 | 3.68 |
| 93765 | 'Ube2n' | 168.2 | 136.4 | 134 | 163 | 124 | 168.6 | 168 | 203.3 | 195.5 | 176.77 |
| 93790 | 'Nipa2' | 7.93 | 10.41 | 7.84 | 20.4 | 6.17 | 4.25 | 5.74 | 5.56 | 7.63 | 5.06 |
| 93834 | 'Peli2' | 0.05 | 0.03 | 0 | 2.54 | 0 | 0 | 0.05 | 1.46 | 0 | 0 |
| 93835 | 'Amn' | 5.07 | 0.34 | 22.1 | 4.09 | 6.92 | 20.77 | 2.79 | 5.13 | 19.69 | 12.81 |
| 93836 | 'Rnf111' | 7.53 | 1.88 | 5.08 | 3.59 | 2.74 | 1.58 | 9.05 | 1.06 | 5.21 | 2.42 |
| 93837 | 'Dach2' | 0 | 0 | 0 | 0 | 0 | 2.01 | 0 | 0 | 0 | 0.01 |
| 93838 | 'Dqx1' | 0.06 | 0 | 0.05 | 0.11 | 0.03 | 0.03 | 0.02 | 0.97 | 0.01 | 0.93 |
| 93840 | 'Vangl2' | 2.21 | 7.6 | 18.3 | 0.01 | 6.04 | 13.52 | 3.88 | 19.78 | 20.51 | 11.1 |
| 93841 | 'Uchl4' | 0 | 0.26 | 0.04 | 9.1 | 0 | 2.4 | 0.05 | 0 | 0.94 | 0 |
| 93842 | 'Igsf9' | 2.47 | 3.31 | 4.87 | 0 | 2.8 | 2.83 | 0.03 | 1.99 | 2.65 | 1.23 |
| 93843 | 'Pnck' | 672 | 657.3 | 558 | 703 | 496 | 824.1 | 645 | 667.7 | 382.9 | 529.14 |
| 93871 | 'Brwd1' | 40.49 | 41.36 | 66.5 | 28.1 | 24.7 | 15.62 | 84.1 | 27.26 | 41.28 | 25.11 |
| 93873 | 'Pcdhb2' | 2.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93874 | 'Pcdhb3' | 1.24 | 2.74 | 2.02 | 0 | 0.47 | 0 | 0.01 | 0.83 | 0 | 0 |
| 93875 | 'Pcdhb4' | 0 | 0 | 0 | 1.33 | 1.35 | 0 | 0 | 1.13 | 0 | 1.13 |

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|-------|------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 93876 | 'Pcdhb5' | 0.79 | 4.98 | 5.82 | 0.03 | 1.25 | 0 | 0 | 0.74 | 2.7 | 0 |
| 93877 | 'Pcdhb6' | 0 | 1.02 | 0 | 0 | 0.02 | 0 | 0 | 0.59 | 0 | 0 |
| 93878 | 'Pcdhb7' | 5.34 | 2.29 | 3.41 | 6.92 | 0 | 0 | 0.01 | 0 | 5.03 | 10.56 |
| 93879 | 'Pcdhb8' | 0 | 4.62 | 0 | 0.02 | 0 | 0 | 0 | 1.5 | 0 | 0 |
| 93880 | 'Pcdhb9' | 20.2 | 3.06 | 20.8 | 14.8 | 33.8 | 0 | 10.9 | 36.25 | 3.64 | 0.76 |
| 93881 | 'Pcdhb10' | 1.64 | 2.5 | 0 | 0 | 0 | 0 | 0 | 4.35 | 5.31 | 0 |
| 93882 | 'Pcdhb11' | 0.38 | 0 | 0 | 1.88 | 1.68 | 0 | 0 | 0.25 | 0 | 0 |
| 93883 | 'Pcdhb12' | 9.64 | 0.94 | 15.5 | 0.02 | 1.74 | 0.36 | 23.3 | 7.29 | 0 | 0 |
| 93884 | 'Pcdhb13' | 0.63 | 0 | 2.22 | 0 | 0 | 0 | 4.25 | 0.56 | 0.03 | 0 |
| 93885 | 'Pcdhb14' | 3.48 | 6.24 | 9.2 | 6.36 | 0.57 | 6.98 | 0 | 1.08 | 1.59 | 0.76 |
| 93887 | 'Pcdhb16' | 0 | 0 | 0.27 | 3.21 | 3.53 | 0.17 | 0 | 0.01 | 0.65 | 0 |
| 93888 | 'Pcdhb17' | 10.02 | 0 | 2.86 | 2.63 | 0.13 | 1.07 | 4.34 | 12.29 | 9.15 | 2.08 |
| 93889 | 'Pcdhb18' | 0.33 | 0.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93890 | 'Pcdhb19' | 2.75 | 0 | 0.02 | 0 | 0 | 0.01 | 4.98 | 1.12 | 0 | 0.08 |
| 93891 | 'Pcdhb20' | 2.17 | 0.43 | 0.98 | 0 | 3.4 | 0.04 | 2.74 | 6.8 | 1.71 | 0 |
| 93892 | 'Pcdhb21' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 |
| 93893 | 'Pcdhb22' | 1.24 | 0 | 4.84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93896 | 'Glp2r' | 0 | 0 | 0 | 1.91 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93898 | 'Cers1' | 18.36 | 45.91 | 39.4 | 45 | 19.8 | 22.52 | 35.5 | 19.71 | 39.19 | 19.54 |
| 93960 | 'Nkd1' | 0.04 | 0 | 0.01 | 1.74 | 0 | 0.93 | 1.31 | 0.01 | 1.47 | 0 |
| 93961 | 'B3galt5' | 6.63 | 6.03 | 7.65 | 0 | 4.31 | 5.54 | 3.03 | 4.43 | 11.86 | 7.71 |
| 94040 | 'Clmn' | 0.63 | 0.82 | 1.28 | 0.01 | 0.14 | 1.24 | 1 | 1.11 | 0.92 | 0.3 |
| 94041 | 'Allc' | 0 | 5.7 | 0 | 0 | 0.67 | 0 | 0 | 0 | 0 | 0 |
| 94043 | 'Tm2d1' | 54.97 | 99.09 | 92.7 | 158 | 92.2 | 61.13 | 70.5 | 96.85 | 120.7 | 96.82 |
| 94044 | 'Bcl2l13' | 1.41 | 5.58 | 4.15 | 0.01 | 6.3 | 0.66 | 2.19 | 6.32 | 6.06 | 1.12 |
| 94045 | 'P2rx5' | 0 | 0 | 0 | 5.22 | 3.94 | 1.09 | 1.7 | 0 | 0 | 0 |
| 94047 | 'Tmem121b' | 0 | 1.83 | 1.43 | 0 | 1.71 | 0 | 0 | 0.01 | 0 | 0.56 |
| 94061 | 'Mrpl1' | 10.51 | 12.24 | 11.4 | 14.5 | 10.9 | 3.16 | 10.4 | 15.37 | 14.41 | 15.68 |
| 94062 | 'Mrpl3' | 32.68 | 30.89 | 47.3 | 26.7 | 29.7 | 49.32 | 32.6 | 48.67 | 13.6 | 14.44 |
| 94063 | 'Mrpl16' | 38.2 | 27.64 | 32.4 | 22.1 | 35.2 | 32.03 | 22.9 | 22.53 | 31.91 | 20.22 |
| 94064 | 'Mrpl27' | 217.9 | 130.6 | 158 | 125 | 251 | 293.8 | 230 | 270.8 | 159.1 | 168.83 |
| 94065 | 'Mrpl34' | 78.45 | 81.31 | 76.2 | 83.9 | 41.4 | 113.2 | 131 | 63.1 | 80.93 | 67.29 |
| 94066 | 'Mrpl36' | 50.4 | 60.12 | 36.6 | 17.6 | 61.7 | 95.2 | 48.1 | 70.85 | 32.7 | 48.55 |
| 94067 | 'Mrpl43' | 85.45 | 68.58 | 37.9 | 29.2 | 86.5 | 78.05 | 64.3 | 81.56 | 64.37 | 53.63 |
| 94088 | 'Trim6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.92 |
| 94089 | 'Trim7' | 0.02 | 0.09 | 0 | 0 | 0 | 1.15 | 0 | 0.03 | 1.52 | 0.63 |
| 94090 | 'Trim9' | 22.06 | 13.19 | 20.3 | 16.4 | 6.28 | 7.63 | 15.2 | 6.62 | 16.46 | 12.2 |
| 94091 | 'Trim11' | 14.14 | 0.93 | 7.32 | 14.2 | 4.7 | 15.94 | 6.24 | 10.58 | 19.5 | 10.7 |
| 94093 | 'Trim33' | 0.6 | 1.25 | 0.12 | 0.86 | 1.93 | 1.09 | 6.06 | 0.93 | 1.79 | 2.4 |
| 94094 | 'Trim34a' | 0 | 0.82 | 0 | 0 | 0 | 0 | 0 | 2.95 | 0 | 0.54 |
| 94109 | 'Csmd1' | 0.23 | 0.98 | 2.79 | 0.29 | 1.44 | 1.45 | 1.82 | 0.44 | 0.39 | 0.78 |
| 94112 | 'Med15' | 9.86 | 10.99 | 5.69 | 16.3 | 8.75 | 3.39 | 28.9 | 12.22 | 22.92 | 15.11 |
| 94176 | 'Dock2' | 0 | 0.66 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0.31 |
| 94178 | 'Mcoln1' | 62.95 | 25.13 | 93.6 | 40.8 | 37.3 | 43.1 | 79.5 | 26.61 | 82.49 | 20.54 |
| 94180 | 'Acsbg1' | 39.64 | 36.95 | 28.5 | 44 | 19.2 | 53.03 | 57.8 | 25.38 | 26.11 | 22.19 |
| 94181 | 'Nans' | 6.41 | 24.86 | 11 | 7.99 | 6.28 | 31.38 | 20.8 | 28.83 | 37.25 | 18.82 |
| 94184 | 'Pdxdc1' | 27.16 | 31.27 | 35.2 | 8.11 | 28.8 | 24.05 | 35.7 | 31.32 | 34.45 | 21.55 |
| 94185 | 'Tnfrsf21' | 60.57 | 35.82 | 55.6 | 28.4 | 21.8 | 18.65 | 57.9 | 76.3 | 47.54 | 42.24 |
| 94186 | 'Strn3' | 5.87 | 13.42 | 12.8 | 28.6 | 6.81 | 11.79 | 3.48 | 3.69 | 5.35 | 9.34 |
| 94187 | 'Zfp423' | 5.29 | 9.68 | 0.07 | 0.72 | 2.18 | 5.24 | 10.1 | 2.79 | 1.85 | 7.43 |
| 94190 | 'Ophn1' | 3.47 | 8.54 | 9.07 | 2.36 | 11 | 1.72 | 5.15 | 6.53 | 2.33 | 3.97 |
| 94191 | 'Adarb2' | 19.02 | 2.7 | 4.63 | 0.68 | 0.86 | 1.39 | 3.54 | 0.66 | 1.36 | 1.37 |
| 94212 | 'Pag1' | 0.05 | 2.28 | 0.07 | 0 | 0.48 | 0.13 | 0.47 | 0.18 | 0.05 | 0.56 |
| 94213 | 'Ddx50' | 40.96 | 52.7 | 28.9 | 33.6 | 25.3 | 29.85 | 17.9 | 29.95 | 35.07 | 35.65 |
| 94214 | 'Spock2' | 46.12 | 55.98 | 51.3 | 18.2 | 47.8 | 35.04 | 60.4 | 51.93 | 53.14 | 52.33 |
| 94216 | 'Col4a6' | 0 | 0.01 | 0 | 0 | 0.49 | 0 | 0 | 0 | 0 | 0.07 |
| 94217 | 'Lrp1b' | 5.08 | 6.56 | 2.49 | 11.5 | 0.86 | 5.63 | 7.22 | 5.4 | 3.61 | 3.92 |
| 94218 | 'Cnrm3' | 3.84 | 1.2 | 1.36 | 0.12 | 1.01 | 0.01 | 1.65 | 0.99 | 0.21 | 3.81 |

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|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 94219 | 'Cnnm2' | 6.18 | 6.48 | 12.1 | 28.9 | 4.78 | 3.79 | 5.95 | 4.77 | 3.59 | 3.71 |
| 94220 | 'Cnnm4' | 6.2 | 6.46 | 4.82 | 3.17 | 9.86 | 1.57 | 1.53 | 1.73 | 3.61 | 3.31 |
| 94221 | 'Gopc' | 2.64 | 1.11 | 3.99 | 11 | 1.73 | 1.44 | 0 | 2.29 | 0.8 | 2.81 |
| 94223 | 'Dgcr8' | 9.98 | 7.24 | 4.34 | 3.21 | 8.52 | 1.74 | 11.7 | 4.62 | 14.9 | 2.48 |
| 94226 | 'S1pr5' | 5.6 | 3.47 | 3.91 | 0 | 12.9 | 11.02 | 4.95 | 0.3 | 3.02 | 0.07 |
| 94227 | 'Pi15' | 0.17 | 0.33 | 0.29 | 0.37 | 0.35 | 0.22 | 0.35 | 0.16 | 0.18 | 0.14 |
| 94229 | 'Slc4a10' | 7.51 | 7.46 | 23.3 | 16.9 | 7.2 | 5.2 | 19.2 | 9.92 | 23.6 | 16.68 |
| 94230 | 'Cpsf1' | 8.8 | 12.79 | 22 | 11.7 | 16.1 | 12.76 | 36.7 | 11.77 | 6.57 | 11.87 |
| 94232 | 'Ubqln4' | 11.19 | 5.28 | 6.27 | 7.49 | 6.28 | 1.8 | 5.49 | 4.32 | 8.77 | 2.81 |
| 94242 | 'Tinagl1' | 0 | 3.52 | 0 | 0 | 0 | 0 | 0 | 0 | 4.2 | 0 |
| 94245 | 'Dtnbp1' | 21.13 | 29.87 | 38.4 | 24.4 | 30.1 | 86.23 | 16.7 | 38.48 | 19.4 | 29.48 |
| 94246 | 'Arid4b' | 23.01 | 20.2 | 16.8 | 32 | 19.7 | 17.83 | 16 | 20.08 | 31.07 | 28.36 |
| 94249 | 'Slc24a3' | 7.34 | 6.31 | 11.1 | 4.67 | 22.8 | 14.29 | 17.1 | 6.46 | 5.92 | 2.02 |
| 94253 | 'Hecw1' | 2.52 | 0.8 | 2.41 | 5.81 | 2.47 | 3.39 | 1.32 | 4.23 | 2.28 | 1.24 |
| 94254 | 'Rcc1l' | 8.23 | 16.43 | 7.8 | 10.4 | 13.7 | 12.02 | 11.2 | 5.07 | 9.83 | 2.76 |
| 94275 | 'Maged1' | 1211 | 1051 | 893 | 955 | 608 | 553.1 | 835 | 1415 | 912.9 | 942.94 |
| 94279 | 'Sfxn2' | 1.54 | 1.11 | 0.47 | 0.02 | 1.29 | 1.98 | 1.34 | 0.81 | 0.2 | 0.05 |
| 94280 | 'Sfxn3' | 32.55 | 23 | 43.4 | 6.57 | 33.9 | 10.18 | 25.1 | 26.69 | 31.2 | 18.57 |
| 94281 | 'Sfxn4' | 13.51 | 14.53 | 17.6 | 35.8 | 8.09 | 42.07 | 6.45 | 18.93 | 30.28 | 18.56 |
| 94282 | 'Sfxn5' | 64.76 | 45.46 | 37.8 | 35 | 77.8 | 74.15 | 75.9 | 54.31 | 56.16 | 50.09 |
| 94284 | 'Ugt1a6a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.22 | 0 | 2.08 |
| 94315 | 'Prcc' | 0.64 | 2.44 | 2.93 | 2.11 | 3.91 | 0.38 | 0.15 | 4.47 | 10.47 | 1.37 |
| 94332 | 'Cadm3' | 56.75 | 43.82 | 64.1 | 16.1 | 49.3 | 20.23 | 62.1 | 77.46 | 173.7 | 57.75 |
| 94346 | 'Tmem40' | 3.05 | 0 | 2.8 | 0.05 | 0 | 0 | 0 | 0 | 0 | 0 |
| 94352 | 'Loxl2' | 0.8 | 3.68 | 3.82 | 16.1 | 2.62 | 2.2 | 0.77 | 0.92 | 1.15 | 2.99 |
| 94353 | 'Hmgn3' | 75.05 | 90.61 | 49.5 | 122 | 112 | 85.23 | 60.7 | 82.03 | 61.08 | 80.9 |
| 96875 | 'Prg4' | 0 | 0 | 0 | 0.03 | 0 | 0.05 | 0.7 | 0 | 0.14 | 0 |
| 96935 | 'Susd4' | 96.5 | 108.1 | 155 | 55.2 | 52.4 | 99.83 | 71.6 | 117.3 | 100.3 | 131.14 |
| 96957 | 'Tmem62' | 9.89 | 11.39 | 9.15 | 19.3 | 10.5 | 10.97 | 3.19 | 10.44 | 32.45 | 8.7 |
| 96979 | 'Ptges2' | 15.16 | 0.15 | 13.7 | 3.42 | 12.8 | 9.59 | 18.3 | 23.55 | 9.14 | 15.12 |
| 97031 | 'Tprn' | 9.3 | 5.86 | 4.88 | 1.79 | 5.19 | 10.5 | 20.4 | 0.03 | 0 | 0 |
| 97064 | 'Wwtr1' | 0.01 | 0.32 | 0.06 | 0.07 | 0.18 | 0.01 | 0 | 0 | 0 | 1.76 |
| 97086 | 'Slc9b2' | 4.06 | 5.19 | 0.72 | 2.65 | 1.6 | 0 | 0 | 4.67 | 2.57 | 2.06 |
| 97112 | 'Nmd3' | 23.17 | 18.69 | 33.8 | 52.5 | 20 | 51.78 | 13.7 | 33.65 | 32.39 | 36.16 |
| 97114 | 'Hist2h3c2' | 0 | 0 | 1.06 | 0 | 1.82 | 0.15 | 0.25 | 1.24 | 0 | 0 |
| 97122 | 'Hist2h4' | 2.04 | 8.41 | 4.11 | 0 | 3.56 | 5.81 | 8.02 | 4.29 | 5.31 | 0 |
| 97130 | 'C77080' | 0.01 | 1.63 | 0.84 | 0.7 | 0.02 | 0.01 | 3.49 | 1.76 | 0 | 2.71 |
| 97159 | 'A430005L14Rik' | 15.75 | 51.06 | 32.4 | 29.1 | 31.3 | 77.58 | 46.5 | 60.26 | 50.73 | 42.73 |
| 97165 | 'Hmgb2' | 0.89 | 22.91 | 12.7 | 32 | 8.69 | 7.53 | 10 | 6.56 | 3.25 | 0.37 |
| 97212 | 'Hadha' | 12.53 | 21.11 | 15.1 | 10.6 | 8.38 | 14.8 | 21.3 | 11.1 | 12.71 | 16.16 |
| 97287 | 'Mtmr14' | 12.69 | 14.34 | 9.39 | 9 | 7.02 | 0.02 | 5.68 | 10.21 | 15.28 | 7.01 |
| 97387 | 'Strn4' | 7.55 | 6.68 | 5.12 | 18.9 | 5.69 | 5.08 | 28.6 | 6.54 | 8.52 | 5.74 |
| 97440 | 'B3gnt9' | 0 | 1.73 | 4.48 | 0 | 1.81 | 0.76 | 3.52 | 0 | 3.15 | 6.12 |
| 97484 | 'Cog8' | 22.59 | 18.47 | 14.6 | 27.5 | 16.8 | 22.17 | 13.1 | 25.41 | 11.35 | 28.41 |
| 97487 | 'Cmtm4' | 2.89 | 2.19 | 2.99 | 0.38 | 1.66 | 4.05 | 3.98 | 0.42 | 2.18 | 1.16 |
| 97541 | 'Qars' | 5.36 | 7.93 | 20.2 | 23.8 | 11.6 | 16.16 | 6.11 | 15.73 | 29.88 | 25.29 |
| 97761 | 'Sgsm2' | 10.12 | 9.22 | 8.03 | 10.2 | 7.13 | 2.05 | 2.32 | 5.78 | 1.77 | 5.86 |
| 97820 | '4833439L19Rik' | 151.1 | 114.1 | 102 | 138 | 96.8 | 109.4 | 157 | 160.6 | 126.1 | 109.54 |
| 97827 | 'Exd2' | 13.04 | 14.15 | 12.7 | 15.2 | 12.7 | 12.64 | 17.7 | 7.35 | 18.34 | 13.85 |
| 97848 | 'Serpib6c' | 0 | 0 | 0 | 0 | 0 | 0 | 2.35 | 0 | 0 | 0 |
| 97863 | 'Fam8a1' | 9.16 | 6.29 | 3.38 | 14.2 | 4.91 | 4 | 9.35 | 2.79 | 4.49 | 1.16 |
| 97884 | 'B3galnt2' | 3.26 | 1.23 | 0.82 | 0.48 | 5.58 | 4 | 1.66 | 4.07 | 1.03 | 0 |
| 97895 | 'Nlrp4f' | 0.01 | 0.11 | 0.15 | 0 | 0.04 | 0.06 | 0.13 | 0.07 | 0 | 0 |
| 97908 | 'Hist1h3g' | 1.5 | 0 | 0.89 | 0 | 0 | 0 | 0 | 1.74 | 3.15 | 0 |
| 97961 | 'Nol12' | 20.69 | 25.08 | 21.6 | 39.5 | 27.2 | 33.24 | 25.8 | 26.65 | 14.03 | 41.61 |
| 97998 | 'Deptor' | 0.86 | 15.93 | 0.02 | 6.02 | 3.02 | 3.29 | 0.04 | 1.11 | 5.44 | 10.15 |
| 98053 | 'Gtf2f1' | 54.14 | 38.61 | 44.3 | 11.4 | 53.9 | 60.83 | 59.4 | 40.66 | 44.32 | 33.73 |
| 98170 | 'Tmem132a' | 16.23 | 24.13 | 31.4 | 0 | 23.1 | 19.98 | 34.7 | 15.41 | 33.31 | 18.59 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 98193 | 'Dcaf8' | 61.09 | 53.61 | 54.8 | 33 | 48.4 | 36.66 | 35.7 | 50.74 | 32.03 | 54.62 |
| 98221 | 'Eif3m' | 115.2 | 112.6 | 131 | 79.7 | 113 | 184.1 | 102 | 108.4 | 106.1 | 119.1 |
| 98238 | 'Lrrc59' | 6.75 | 11.59 | 10.7 | 15 | 10 | 8.77 | 9.69 | 11.07 | 12.15 | 4.92 |
| 98258 | 'Txndc9' | 49.99 | 39.38 | 24.1 | 55.9 | 36.5 | 42.8 | 45.4 | 48.47 | 39.64 | 52.09 |
| 98267 | 'Stk17b' | 0 | 1.2 | 0 | 0 | 0 | 0 | 1.09 | 2.17 | 0 | 0.76 |
| 98303 | 'D630023F18Rik' | 7.12 | 26.62 | 7.69 | 13.2 | 2.95 | 9.96 | 16 | 13.96 | 9.67 | 13.33 |
| 98314 | 'D2hgdh' | 10.7 | 11.33 | 2.82 | 3.8 | 0 | 9.28 | 4.71 | 4.23 | 5.83 | 6.47 |
| 98363 | 'Efhd1' | 5.85 | 1.2 | 5.02 | 0 | 0.89 | 16.06 | 0 | 2.04 | 0 | 0 |
| 98365 | 'Slamf9' | 0 | 1.98 | 0.04 | 0 | 11.9 | 3.54 | 0 | 0 | 0 | 0 |
| 98366 | 'Smap1' | 15.32 | 2.8 | 2.86 | 11.3 | 14.5 | 13.11 | 5.41 | 5.54 | 8.39 | 14.45 |
| 98376 | 'Gorab' | 5.01 | 7.14 | 14.6 | 9.87 | 1.52 | 0.21 | 4.11 | 3.85 | 12.24 | 8.43 |
| 98386 | 'Lbr' | 0.21 | 7.57 | 2.8 | 0 | 3.93 | 2.77 | 3.42 | 5.89 | 6.59 | 6.39 |
| 98388 | 'Chst10' | 22.21 | 4.73 | 13.9 | 17.8 | 4.63 | 0.58 | 6.84 | 16 | 25.53 | 2.88 |
| 98396 | 'Slc41a1' | 4.84 | 2 | 11.6 | 2.35 | 6.83 | 0 | 5.26 | 3.48 | 4 | 5.84 |
| 98402 | 'Sh3bp4' | 1.36 | 0.04 | 6.29 | 8 | 3.66 | 0.02 | 12.3 | 1.59 | 0.97 | 0 |
| 98403 | 'Zfp451' | 9.91 | 1.8 | 6.1 | 27.9 | 25.7 | 5.94 | 8 | 14.62 | 11.59 | 14.19 |
| 98404 | 'Al597479' | 15.42 | 11.78 | 11.4 | 5.77 | 27 | 5.82 | 33.7 | 15.14 | 16.62 | 28.15 |
| 98415 | 'Nucks1' | 5.83 | 7.13 | 8.33 | 12.2 | 8.15 | 3.72 | 7.43 | 6.39 | 4.15 | 5.47 |
| 98417 | 'Cnih4' | 4.56 | 13.64 | 9.02 | 8.23 | 22.2 | 2.98 | 2.24 | 8.92 | 7.6 | 8.3 |
| 98432 | 'Phlpp1' | 1.04 | 2.64 | 0.67 | 5.75 | 1.7 | 0.01 | 0.17 | 1.03 | 1.56 | 0.88 |
| 98488 | 'Gtf3c3' | 11.41 | 5.58 | 13.7 | 7.63 | 6.88 | 11.32 | 5.25 | 10.12 | 18.89 | 6.24 |
| 98496 | 'Pid1' | 30.94 | 16.41 | 28.1 | 4.68 | 16.4 | 11.42 | 39.4 | 35.85 | 36.77 | 45.62 |
| 98558 | 'Mael' | 0 | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0 |
| 98660 | 'Atp1a2' | 20.84 | 28.8 | 15.1 | 25.8 | 15.5 | 20.71 | 18.1 | 20.83 | 23.97 | 12.02 |
| 98682 | 'Mfsd6' | 8.46 | 4.34 | 3.02 | 13.1 | 11.5 | 6.51 | 10.9 | 2.92 | 10.08 | 2.56 |
| 98685 | 'Trmt1l' | 22.81 | 22.35 | 14.6 | 14.3 | 9.39 | 7.72 | 21.4 | 13.99 | 10.11 | 13.59 |
| 98710 | 'Rabif' | 28.54 | 37.12 | 46 | 20.9 | 23.5 | 44.1 | 33.6 | 37.82 | 52.66 | 27.83 |
| 98711 | 'Rdh10' | 0.08 | 3.32 | 3.62 | 1.19 | 3.23 | 0 | 0 | 1.18 | 0 | 0.11 |
| 98732 | 'Rab3gap2' | 5.65 | 8.29 | 17.2 | 12.2 | 12 | 6.18 | 17.2 | 6.12 | 15.46 | 6.36 |
| 98733 | 'Obsl1' | 2.16 | 4.65 | 1.97 | 0.62 | 5.75 | 2.71 | 8.24 | 1.45 | 5.02 | 1.67 |
| 98741 | 'Kcnb2' | 1.93 | 2.18 | 2.46 | 7.25 | 1.54 | 0.01 | 2.98 | 0.87 | 0.73 | 5.05 |
| 98758 | 'Hnrnpf' | 48.82 | 34.3 | 26.9 | 16.4 | 25.1 | 45.75 | 47.6 | 37.17 | 35.19 | 38.33 |
| 98766 | 'Ubac1' | 15.12 | 17.58 | 7.7 | 16.1 | 13.7 | 36 | 1.06 | 11.42 | 27.9 | 9.87 |
| 98828 | 'Cdc123' | 100.1 | 139.7 | 165 | 200 | 175 | 310.9 | 96.6 | 190.7 | 139.8 | 176.49 |
| 98845 | 'Eps8l2' | 0 | 0.14 | 0 | 0 | 8.79 | 5.26 | 0 | 0 | 4.25 | 9.2 |
| 98870 | 'Al182371' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 |
| 98878 | 'Ehd4' | 16.45 | 14.24 | 12.3 | 16.2 | 14.9 | 27.83 | 9.61 | 3.38 | 18.34 | 7.04 |
| 98910 | 'Usp6nl' | 1.27 | 0.31 | 0.59 | 2.11 | 0.37 | 0.08 | 0.14 | 0.71 | 1.21 | 0.83 |
| 98932 | 'Myl9' | 0 | 3.66 | 5.13 | 0 | 6.65 | 10.91 | 0 | 4.55 | 7.33 | 2.24 |
| 98952 | 'Fam102a' | 3.77 | 3.9 | 2.82 | 8.35 | 1.68 | 3.62 | 8.99 | 9.19 | 2.26 | 2.04 |
| 98956 | 'Nat10' | 2.13 | 1.55 | 10.4 | 0 | 3.12 | 3.39 | 9.69 | 1.82 | 8.72 | 6.94 |
| 98970 | 'Fibcd1' | 0.42 | 1.56 | 1.85 | 1.51 | 0.37 | 11.32 | 0.01 | 0.35 | 4.58 | 5.78 |
| 98985 | 'Clp1' | 2.85 | 14.72 | 10.9 | 33.1 | 4.14 | 3.39 | 0 | 1.36 | 4.52 | 3.44 |
| 98999 | 'Znfx1' | 0.43 | 0.18 | 0 | 10.1 | 0.34 | 4.52 | 0 | 0.57 | 0.55 | 2.92 |
| 99003 | 'Qser1' | 0.91 | 0 | 0.01 | 0 | 0.16 | 0.51 | 0 | 0.29 | 1.85 | 0.04 |
| 99010 | 'Lpcat4' | 18.92 | 9.88 | 18.8 | 17.6 | 12.8 | 3.32 | 3.06 | 5.05 | 23.78 | 15.76 |
| 99011 | 'Pomt1' | 4.36 | 13.25 | 5.72 | 12.5 | 5.8 | 10.81 | 14.1 | 9.07 | 9.29 | 13.53 |
| 99031 | 'Osbp16' | 17.76 | 11.25 | 11 | 10.2 | 13.9 | 8.28 | 9.52 | 11.3 | 19.02 | 8.82 |
| 99035 | 'Olah' | 0 | 0 | 0 | 0 | 1.82 | 0 | 0 | 0 | 3.11 | 0 |
| 99045 | 'Mrps26' | 155 | 125.1 | 147 | 81.9 | 174 | 126.1 | 161 | 187.6 | 88.26 | 102.34 |
| 99100 | 'Cep152' | 0 | 1.3 | 0 | 0.35 | 1.52 | 2.13 | 0.9 | 0.81 | 0.22 | 0.01 |
| 99138 | 'Stard7' | 31.11 | 32.19 | 19.3 | 34 | 25.9 | 32.34 | 47.8 | 39.73 | 44.42 | 24.48 |
| 99151 | 'Cercam' | 3.33 | 2.11 | 4.21 | 9.11 | 9.32 | 11.81 | 7.98 | 5.02 | 0.25 | 3.24 |
| 99152 | 'Anapc2' | 54.33 | 55.54 | 67.1 | 45.5 | 64.2 | 36.43 | 85.2 | 42.22 | 93.35 | 44.31 |
| 99167 | 'Ssx2ip' | 8.49 | 8.04 | 7.96 | 4.26 | 9.97 | 8.62 | 5.09 | 13.35 | 4.57 | 10.1 |
| 99237 | 'Tm9sf4' | 27.71 | 47.37 | 48.8 | 13.4 | 29.6 | 27.87 | 57.7 | 48.17 | 40.24 | 57.05 |
| 99296 | 'Hrh3' | 9.91 | 4.43 | 15.8 | 8.58 | 21.6 | 12.38 | 4.92 | 10.14 | 4.26 | 2.95 |
| 99311 | 'Commd7' | 34.93 | 44.04 | 41.9 | 48 | 31.9 | 62.12 | 25 | 36.63 | 55.91 | 55.93 |

| | | | | | | | | | | | |
|-------|-----------------|-------|-------|------|------|------|-------|------|-------|-------|--------|
| 99326 | 'Garnl3' | 16.18 | 11.47 | 22.1 | 26.8 | 15.4 | 5.9 | 44.6 | 21.67 | 17.4 | 8.09 |
| 99334 | 'Zscan29' | 0.11 | 0.08 | 2.11 | 0 | 2.66 | 2.62 | 0 | 0.22 | 0.5 | 4.02 |
| 99349 | 'Dnajc24' | 13.71 | 12.28 | 13.8 | 27.7 | 9.26 | 6.54 | 7.7 | 14.45 | 2.39 | 7.01 |
| 99371 | 'Arfgef2' | 0.26 | 0.01 | 2.05 | 1.7 | 1.57 | 0.03 | 4.75 | 1.09 | 1.38 | 2.11 |
| 99375 | 'Cul4a' | 15.07 | 14.03 | 15.3 | 20.6 | 26.3 | 8.22 | 16.7 | 17.38 | 13.22 | 12.7 |
| 99377 | 'Sall4' | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 |
| 99382 | 'Abtb2' | 2.97 | 1.19 | 3.95 | 3.34 | 0.01 | 0 | 0 | 0.01 | 0.01 | 0 |
| 99412 | 'Golga2' | 7.29 | 12.41 | 7.06 | 11.6 | 15.3 | 4.9 | 17.1 | 9.96 | 8.03 | 16.41 |
| 99439 | 'Duox1' | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 99470 | 'Magi3' | 3.8 | 1.49 | 1.03 | 1.03 | 2.9 | 0.01 | 1.12 | 2.61 | 0.01 | 0.9 |
| 99480 | 'Dnttip2' | 26.84 | 27.46 | 18.2 | 28.4 | 29.5 | 17.96 | 35 | 28.4 | 18.79 | 27.24 |
| 99512 | 'Wdr47' | 31.25 | 25 | 38.1 | 26.3 | 16.3 | 11.58 | 43.7 | 35.1 | 51.71 | 29.73 |
| 99526 | 'Usp53' | 2.16 | 1.69 | 2.78 | 0 | 1.79 | 1.21 | 0.6 | 0.77 | 2.79 | 0.31 |
| 99543 | 'Olfml3' | 3.63 | 2.56 | 4.24 | 0.03 | 6.05 | 48.19 | 22.5 | 6.3 | 0.27 | 0 |
| 99586 | 'Dpyd' | 1.93 | 2.92 | 2.2 | 10.5 | 0.85 | 4.54 | 1.71 | 4.59 | 4.05 | 4.76 |
| 99633 | 'Adgrl2' | 5.14 | 19.55 | 13.6 | 3.34 | 10 | 2.27 | 3.49 | 6.25 | 1.57 | 10.14 |
| 99650 | '4933434E20Rik' | 91.31 | 77.9 | 43.5 | 100 | 114 | 93.04 | 67.4 | 95.91 | 101.7 | 108.34 |
| 99662 | 'Eps8l3' | 1.63 | 1.64 | 3.12 | 1.6 | 2.77 | 1.78 | 4.29 | 1.46 | 2.25 | 0.11 |
| 99663 | 'Clca4a' | 0 | 0.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 99681 | 'Tchh' | 0.63 | 4.42 | 2.48 | 0 | 0.8 | 3.42 | 3.45 | 1.52 | 1.51 | 0.94 |
| 99683 | 'Sec24b' | 3.44 | 6.96 | 6.3 | 13.4 | 3.01 | 9.03 | 4.45 | 4.86 | 9.99 | 10.38 |
| 99696 | 'Ankrd50' | 1.73 | 1.35 | 1.2 | 2.08 | 1.13 | 1.18 | 1.3 | 1.13 | 0.74 | 2.28 |
| 99712 | 'Cept1' | 54.5 | 65.83 | 34.9 | 9.17 | 35.2 | 60.48 | 31.1 | 48.86 | 50.9 | 82.11 |
| 99730 | 'Taf13' | 11.18 | 21.48 | 9.63 | 37.3 | 38.3 | 51.07 | 11.9 | 21.28 | 28.08 | 16.7 |
| 99738 | 'Kcnc4' | 20.45 | 2.66 | 12.3 | 0.02 | 4.42 | 13.56 | 16.7 | 11.04 | 19.4 | 1.76 |
| 99887 | 'Tmem56' | 2.74 | 2.72 | 1.34 | 4.59 | 1.6 | 3.54 | 2.72 | 1.65 | 1.11 | 1.75 |
| 99889 | 'Arfip1' | 7.98 | 8.05 | 4.39 | 3.14 | 12 | 4.51 | 5.57 | 3.43 | 6.38 | 4.27 |
| 99890 | 'Prmt6' | 1.12 | 5.95 | 0.7 | 3.55 | 0.44 | 0 | 0 | 0 | 5.41 | 4.09 |
| 99929 | 'Tiparp' | 7.87 | 21.87 | 3.51 | 49 | 1.35 | 4.06 | 5.84 | 7.51 | 6.24 | 19.53 |
| 99982 | 'Kdm1a' | 1.54 | 6.8 | 4.79 | 4.62 | 2.36 | 23.65 | 2.69 | 4.5 | 6.07 | 2.81 |

Supplementary Table 2 Differentially expressed genes (in FPKM) and their test statistical P value of ARC and PVH-projecting apMPOA neurons from RNA-seq analysis. Values from each biological replicate are all included. ARC-projecting apMPOA replicates: A5, A6, A8, A10, A12; PVH-projecting apMPOA replicates: P11, P12, P15, P16, P17

| Gene ID | Gene Symbol | A_10 | A_12 | A_5 | A_6 | A_8 | P_11 | P_12 | P_15 | P_16 | P_17 | Pvalue(P/A) |
|-----------|-----------------|------|-------|-------|------|------|-------|------|------|------|------|-------------|
| 100040048 | 'Ccl27b' | 0 | 0 | 0 | 5.43 | 0 | 12.44 | 0 | 2.3 | 7.92 | 13.7 | 0.0894044 |
| 100041546 | 'Ly6c2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.51 | 0 | 1.04E-11 |
| 100042514 | 'Sprr2a3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6.97E-12 |
| 100042784 | 'Prdm11' | 0 | 0 | 1.94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.44E-12 |
| 100043757 | 'Zfp831' | 0.38 | 0 | 2.37 | 0 | 0 | 0 | 0 | 0.01 | 0.01 | 0 | 0.0040358 |
| 100043861 | 'Klrb1' | 0 | 2.95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0359111 |
| 100045778 | 'Rnf223' | 0 | 0 | 1.14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.10E-13 |
| 100503545 | 'Nuggc' | 0 | 0 | 0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 1.55E-12 |
| 100504180 | 'LOC100504180' | 0 | 0 | 0 | 0 | 0 | 0.78 | 0 | 0 | 0 | 0 | 1.53E-11 |
| 100504234 | 'Ccdc170' | 0 | 0 | 0 | 0 | 1.68 | 0 | 0 | 0 | 0 | 0 | 8.01E-13 |
| 100861647 | 'Gm21104' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.99 | 0 | 4.28E-12 |
| 101056205 | 'Gm29797' | 0 | 0 | 0 | 0 | 0 | 2.26 | 0 | 0 | 0 | 0 | 8.86E-13 |
| 102638268 | '1700014D04Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.68 | 1.64E-12 |
| 102640920 | 'Pvrig' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.23 | 0 | 1.14E-11 |
| 104443 | 'Npffr2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 0 | 0 | 1.05E-11 |
| 104709 | 'Pik3r6' | 0 | 0 | 0 | 0 | 1.59 | 0 | 0 | 0 | 0 | 0 | 5.76E-13 |
| 104759 | 'Pld4' | 0 | 0 | 0 | 0 | 0.05 | 13.97 | 12.9 | 0 | 5.17 | 0 | 2.14E-05 |
| 105243944 | 'Gm39653' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.56 | 0 | 0 | 5.63E-12 |
| 105247125 | '105247125' | 0 | 0 | 0 | 0 | 0 | 0 | 1.54 | 0 | 0 | 0 | 2.42E-12 |
| 105732 | 'Fam83h' | 0 | 0 | 0 | 0 | 1.04 | 0 | 0 | 0 | 0 | 0 | 7.72E-13 |
| 105855 | 'Nckap1l' | 0 | 0 | 0 | 0 | 1.33 | 0 | 0 | 0 | 0 | 0 | 2.80E-13 |
| 106757 | 'Catsperd' | 0 | 0 | 0 | 0 | 0 | 2.61 | 5.09 | 1.64 | 0.1 | 0.37 | 6.13E-07 |
| 107321 | 'Lpxn' | 0 | 0 | 0 | 0 | 0 | 12.78 | 4.83 | 0 | 0 | 0 | 1.13E-14 |
| 107527 | 'Il1rl2' | 0 | 0 | 0 | 0 | 0 | 2.04 | 0 | 0 | 0 | 0 | 8.90E-12 |
| 107751 | 'Prrxl1' | 0 | 0 | 2.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.98E-13 |
| 107995 | 'Cdc20' | 0.02 | 0 | 0 | 0 | 3.97 | 0 | 0 | 0 | 0 | 0 | 2.00E-13 |
| 108012 | 'Ap1s2' | 13.1 | 46.54 | 38.42 | 48 | 78 | 77.77 | 168 | 115 | 115 | 183 | 5.04E-05 |
| 108043 | 'Chrb3' | 1.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.85E-13 |
| 108167560 | 'Gm46058' | 0 | 0 | 2.8 | 2.83 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0117877 |
| 108168756 | 'Gm46741' | 0 | 0 | 0 | 0.02 | 0 | 0 | 11.9 | 0 | 0.02 | 0 | 0.0022382 |
| 108802 | 'Calr4' | 2.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.80E-13 |
| 108897 | 'Aif1l' | 1.08 | 0.98 | 3.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0024934 |
| 108912 | 'Cdca2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.26 | 0 | 0 | 9.75E-12 |
| 108995 | 'Tbc1d10c' | 0 | 0 | 0 | 5.73 | 0 | 0 | 0 | 0 | 6.26 | 0 | 0.9538081 |
| 110454 | 'Ly6a' | 0 | 0 | 0 | 0 | 0 | 5.54 | 0 | 0 | 0 | 0 | 4.44E-12 |
| 114230 | 'Aipl1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.06 | 1.87E-11 |
| 114249 | 'Npnt' | 0 | 0 | 0.01 | 0 | 0 | 0 | 2.74 | 0.01 | 6.95 | 0.92 | 4.34E-06 |
| 11471 | 'Actl7b' | 0 | 3.43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.63E-13 |
| 11541 | 'Adora2b' | 0 | 2.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.40E-12 |
| 11552 | 'Adra2b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.12 | 0 | 6.84E-11 |
| 11576 | 'Afp' | 0 | 0 | 0 | 0 | 0 | 2.54 | 0 | 0 | 0 | 0 | 3.86E-12 |
| 11609 | 'Agtr2' | 0 | 0 | 5.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.85E-14 |
| 11614 | 'Nr0b1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.1 | 3.81E-12 |
| 11630 | 'Crybg1' | 0 | 0 | 0 | 0 | 0 | 0 | 1.28 | 0 | 0 | 0 | 6.29E-13 |
| 11658 | 'Alcam' | 43.9 | 35.14 | 24.96 | 7.53 | 38 | 50.39 | 131 | 43.3 | 148 | 159 | 4.62E-05 |
| 116872 | 'Serpinb7' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83 | 0 | 0 | 1.71E-11 |
| 11810 | 'Apobec1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.63 | 3.76 | 7.61 | 2.35E-04 |
| 11830 | 'Aqp5' | 0 | 0 | 2.41 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0326133 |
| 118453 | 'Mmp28' | 0 | 0 | 0 | 0 | 1.13 | 0 | 0 | 0 | 0 | 0 | 1.41E-12 |
| 11997 | 'Akr1b7' | 0 | 0 | 4.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.72E-13 |
| 12029 | 'Bcl6b' | 0 | 0 | 2.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.56E-14 |
| 12062 | 'Bdkrb2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.46 | 3.91E-12 |
| 12142 | 'Prdm1' | 0 | 0 | 1.49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.60E-13 |
| 12145 | 'Cxcr5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.74 | 0 | 2.11E-11 |

| | | | | | | | | | | | | |
|--------|-----------|------|-------|-------|------|------|-------|------|------|------|------|-----------|
| 12159 | 'Bmp4' | 0 | 0 | 8.41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.94E-14 |
| 12164 | 'Bmp8b' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.99 | 2.5 | 2.10E-13 |
| 12268 | 'C4b' | 0 | 0 | 3.43 | 5.43 | 24.3 | 0 | 0.01 | 0 | 0.01 | 0.01 | 5.11E-06 |
| 12310 | 'Calca' | 0 | 0 | 0 | 0 | 0 | 20.55 | 0 | 0 | 0 | 11.3 | 9.47E-15 |
| 12316 | 'Aspm' | 0 | 0 | 0 | 0.02 | 0 | 0 | 1.78 | 0 | 0 | 0 | 0.0268953 |
| 12490 | 'Cd34' | 0 | 0 | 0 | 75.8 | 0 | 4.04 | 4.97 | 2.73 | 0 | 0 | 0.3663714 |
| 12493 | 'Cd37' | 0 | 0 | 0 | 0 | 0 | 25.75 | 0 | 0 | 0 | 4.31 | 4.07E-15 |
| 12508 | 'Cd53' | 0 | 0 | 0.05 | 0 | 0 | 10.14 | 3.49 | 0.55 | 0 | 2.53 | 9.08E-06 |
| 12532 | 'Cdc25c' | 0 | 0 | 0 | 0 | 0 | 5.2 | 0.03 | 0 | 0 | 0 | 4.36E-13 |
| 12566 | 'Cdk2' | 0 | 0 | 0 | 0 | 0 | 0 | 4.69 | 0 | 0 | 0 | 4.43E-13 |
| 12609 | 'Cebpd' | 0.65 | 1.56 | 1.47 | 8.72 | 1.09 | 0 | 0 | 0 | 0 | 0 | 5.42E-09 |
| 12677 | 'Vsx2' | 0 | 0 | 0 | 0 | 2.71 | 0 | 0 | 0 | 0 | 0 | 1.01E-13 |
| 12767 | 'Cxcr4' | 0 | 0 | 0 | 0 | 2.41 | 0 | 0 | 0 | 0 | 0 | 1.21E-12 |
| 12922 | 'Crhr2' | 96 | 120.6 | 86.78 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 6.53E-15 |
| 12931 | 'Crif1' | 0 | 0 | 3.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.15E-13 |
| 12959 | 'Cryba4' | 0 | 0 | 4.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0391199 |
| 13013 | 'Cst9' | 0 | 0 | 0 | 0 | 0 | 0 | 15.4 | 0 | 0 | 0 | 1.96E-11 |
| 13089 | 'Cyp2b13' | 0 | 0 | 0 | 0 | 4.31 | 0 | 0 | 0 | 0 | 0 | 2.45E-13 |
| 13179 | 'Dcn' | 0 | 0 | 0 | 0 | 3.04 | 0 | 0 | 0 | 0 | 0 | 4.11E-13 |
| 13195 | 'Ddc' | 118 | 81.17 | 29.82 | 94.9 | 31.2 | 12.03 | 4.26 | 12.8 | 16.3 | 7.03 | 8.78E-09 |
| 13214 | 'Defb1' | 0 | 0 | 0 | 0 | 0 | 0 | 35.1 | 0 | 0 | 0 | 4.08E-14 |
| 13490 | 'Drd3' | 36.3 | 0 | 64.02 | 0 | 40.5 | 190.2 | 0 | 114 | 154 | 267 | 4.93E-09 |
| 13605 | 'Ect2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.46 | 0 | 0 | 2.84E-12 |
| 13608 | 'Edar' | 2.35 | 0 | 0 | 1.22 | 0 | 0 | 0 | 0 | 0 | 0 | 2.55E-14 |
| 13639 | 'Efna4' | 0 | 0 | 1.92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.042011 |
| 13797 | 'Emx2' | 0 | 0 | 0 | 0 | 0 | 3.04 | 0 | 0 | 11.9 | 3.61 | 3.37E-05 |
| 13806 | 'Eno1' | 1030 | 928.3 | 999.8 | 851 | 876 | 1503 | 1320 | 1291 | 1390 | 1216 | 5.20E-07 |
| 13846 | 'Ephb4' | 0 | 0 | 0 | 1.51 | 0 | 0 | 0 | 0 | 1.5 | 0 | 0.9989031 |
| 13861 | 'Epx' | 0 | 2.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74E-12 |
| 13866 | 'Erbb2' | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0.05 | 2.4 | 0 | 2.86E-13 |
| 14063 | 'F2rl1' | 0 | 0 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.80E-12 |
| 140806 | 'Il25' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.06 | 1.87E-11 |
| 14089 | 'Fap' | 0 | 0 | 0 | 0 | 0 | 0 | 2.91 | 0 | 0 | 0 | 1.50E-12 |
| 14107 | 'Fat1' | 0.88 | 1.16 | 0.76 | 0.29 | 0.48 | 0 | 0 | 0.02 | 0.01 | 0.11 | 3.80E-05 |
| 14119 | 'Fbn2' | 2.16 | 1.41 | 1.14 | 0 | 1.38 | 0 | 0.01 | 0.03 | 0.14 | 0 | 0.0014945 |
| 14129 | 'Fcgr1' | 0 | 0 | 0 | 0 | 0 | 6.74 | 0 | 1.46 | 0 | 0.74 | 8.47E-04 |
| 14233 | 'Foxi1' | 0 | 0 | 0 | 0 | 0 | 1.64 | 0 | 0 | 0 | 0 | 1.06E-11 |
| 14254 | 'Flt1' | 0 | 0 | 0 | 0 | 0.56 | 0 | 0 | 0 | 0 | 0 | 0.0327819 |
| 14264 | 'Fmod' | 0 | 0 | 0 | 0 | 0 | 0 | 1.93 | 0 | 0 | 0 | 4.07E-12 |
| 142681 | 'Slc34a3' | 0 | 0 | 0 | 0 | 1.97 | 0 | 0 | 0 | 0 | 0 | 1.36E-12 |
| 14427 | 'Galr1' | 8.2 | 18.8 | 23.8 | 0 | 0 | 75.9 | 45.5 | 51.7 | 49.6 | 60.3 | 1.833E-05 |
| 14555 | 'Gpd1' | 0.45 | 0.51 | 6.8 | 10.1 | 0.19 | 0.03 | 0 | 0.09 | 0.15 | 0.02 | 4.36E-06 |
| 14587 | 'Gfra3' | 1.94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.62E-12 |
| 14872 | 'Gstt2' | 9.08 | 12.35 | 6.78 | 16.2 | 5.88 | 39.35 | 28.7 | 9.83 | 19.1 | 36.5 | 0.0022469 |
| 14961 | 'H2-Ab1' | 0 | 0 | 0 | 0 | 0 | 9.44 | 0 | 0 | 0 | 0 | 3.56E-13 |
| 14964 | 'H2-D1' | 70 | 41.7 | 82.19 | 133 | 64.5 | 223.8 | 83.5 | 34.4 | 340 | 363 | 0.0044216 |
| 15000 | 'H2-DMb2' | 0 | 0 | 10.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.57E-13 |
| 15214 | 'Hey2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.16 | 0 | 8.89E-13 |
| 15450 | 'Lipc' | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 5.58E-13 |
| 15485 | 'Hsd17b1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.63 | 0 | 2.21E-11 |
| 15486 | 'Hsd17b2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.32 | 0 | 0 | 3.90E-12 |
| 15557 | 'Htr1f' | 54.4 | 33.2 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 4.99E-15 |
| 15894 | 'Icam1' | 0 | 0 | 0 | 0 | 0 | 6.16 | 0 | 0 | 0 | 0 | 9.74E-14 |
| 15945 | 'Cxcl10' | 0 | 0 | 0.04 | 13.3 | 5.7 | 0 | 0 | 0 | 0 | 0 | 0.0027536 |
| 16145 | 'Igtf' | 2.59 | 0 | 0.15 | 31.3 | 4.14 | 0 | 0.02 | 0 | 0 | 0 | 1.23E-07 |
| 16172 | 'Il17ra' | 0 | 0 | 0 | 0 | 0 | 1.51 | 0.01 | 0 | 5.92 | 4.38 | 3.68E-06 |
| 16177 | 'Il1r1' | 0.92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.42E-12 |
| 16398 | 'Itga2' | 0 | 0 | 0.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38E-12 |
| 16414 | 'Itgb2' | 0 | 0 | 0 | 0 | 0 | 5.89 | 0 | 0 | 0 | 0.08 | 6.94E-14 |
| 16416 | 'Itgb3' | 0 | 0 | 1.16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.58E-13 |
| 16419 | 'Itgb5' | 20 | 5.2 | 10.09 | 0 | 30.8 | 58.03 | 80.8 | 101 | 50 | 40 | 2.07E-04 |

| | | | | | | | | | | | | |
|--------|-------------|------|-------|-------|------|------|-------|------|------|------|------|-----------|
| 20197 | 'S100a3' | 0 | 0 | 1.79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0412546 |
| 20276 | 'Scnn1a' | 0 | 0 | 0 | 7.07 | 0 | 0 | 0.04 | 1.28 | 3.71 | 2.24 | 0.9776893 |
| 20277 | 'Scnn1b' | 0 | 6.09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.10E-14 |
| 20299 | 'Ccl22' | 5.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.54E-14 |
| 20495 | 'Slc12a1' | 0 | 0 | 0 | 0 | 0 | 0 | 0.89 | 0 | 0 | 0 | 1.01E-11 |
| 20526 | 'Slc2a2' | 0 | 0 | 0 | 0.02 | 0 | 0 | 2.32 | 0 | 0 | 0 | 0.0242788 |
| 20657 | 'Sod3' | 2.89 | 1.88 | 2.17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.004283 |
| 20669 | 'Sox14' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.09 | 0 | 0.02 | 2.22E-12 |
| 20700 | 'Serpina1a' | 2.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.14E-13 |
| 20703 | 'Serpina1d' | 4.49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.80E-13 |
| 207742 | 'Rnf43' | 0 | 0 | 1.19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.52E-13 |
| 208595 | 'Mterf1b' | 0 | 0 | 0 | 0 | 0 | 11.24 | 0 | 0 | 2.52 | 0 | 2.90E-13 |
| 208760 | 'Aqp12' | 0 | 0 | 3.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0359563 |
| 209707 | 'Lcorl' | 3.54 | 7.87 | 5.36 | 4.72 | 4.55 | 1.44 | 1.58 | 2 | 2.23 | 2.34 | 1.00E-04 |
| 211488 | 'Ado' | 14.6 | 11.43 | 9 | 8.59 | 11.9 | 4.31 | 4.67 | 4.3 | 4.1 | 1.74 | 1.83E-05 |
| 212541 | 'Rho' | 0 | 1.37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8.39E-13 |
| 212989 | 'Best2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 2.76 | 4.84E-12 |
| 21337 | 'Tacr2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.82 | 0 | 2.80E-12 |
| 213409 | 'Lemd1' | 0.52 | 0 | 0 | 0.3 | 2.23 | 15.08 | 6.08 | 2.99 | 25.9 | 11.1 | 2.99E-04 |
| 213527 | 'Pth2r' | 0 | 1.5 | 3.22 | 5.24 | 8.12 | 0 | 0 | 0 | 0 | 0 | 2.28E-07 |
| 213696 | 'Duoxa1' | 0 | 0 | 3.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.82E-13 |
| 214058 | 'Megf11' | 6.8 | 3.2 | 30.17 | 2.55 | 12.5 | 4.41 | 2.17 | 4.1 | 0.97 | 2.04 | 0.0035413 |
| 214111 | 'Slc24a1' | 0.25 | 1.13 | 1.25 | 2.16 | 1.58 | 0 | 0 | 0 | 0.01 | 0 | 6.05E-11 |
| 214359 | 'Tmem51' | 4.86 | 2.57 | 0.03 | 10.2 | 4.35 | 0 | 0 | 0 | 0 | 0 | 1.41E-08 |
| 214425 | 'Cilp' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.69 | 1.64E-12 |
| 215632 | 'Psd4' | 0 | 0 | 0 | 0 | 2.17 | 0 | 0 | 0 | 0 | 0 | 1.04E-13 |
| 216049 | 'Zfp365' | 21 | 17.2 | 11.25 | 9.18 | 29 | 8.23 | 9.44 | 7.07 | 11.9 | 8.89 | 0.0094139 |
| 216225 | 'Slc5a8' | 0 | 0 | 0.73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.64E-12 |
| 217216 | 'BC030867' | 0 | 0 | 3.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.95E-13 |
| 217262 | 'Abca9' | 0.84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.93E-13 |
| 217304 | 'Cd300lb' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 1.76E-12 |
| 217333 | 'Trim47' | 0 | 0 | 0 | 4.1 | 1.48 | 0 | 0 | 0 | 0 | 0 | 3.47E-14 |
| 217369 | 'Uts2r' | 40.2 | 77.2 | 11.5 | 0 | 59.3 | 216.1 | 195 | 134 | 168 | 154 | 5.31E-04 |
| 21815 | 'Tgif1' | 0 | 0 | 0 | 0 | 0 | 5.03 | 0 | 3.95 | 0 | 0 | 1.05E-13 |
| 21824 | 'Thbd' | 0 | 0 | 0 | 0 | 0 | 3.82 | 0 | 0 | 0.4 | 0 | 9.33E-14 |
| 21828 | 'Thbs4' | 18.6 | 0 | 0 | 2.95 | 0 | 0 | 0 | 0 | 0 | 0 | 5.47E-19 |
| 218630 | 'Ccno' | 0 | 0 | 1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0427915 |
| 218877 | 'Sema3g' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.07 | 0 | 2.91E-13 |
| 219103 | 'Cenpj' | 0.55 | 1.57 | 0.99 | 0 | 0.97 | 0 | 0 | 0.01 | 0 | 0 | 4.31E-05 |
| 22178 | 'Tyrp1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.12 | 3.35E-13 |
| 22242 | 'Umod' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.3 | 0 | 1.14E-13 |
| 22262 | 'Uox' | 2.95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.74E-13 |
| 22269 | 'Upk2' | 3.55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0425297 |
| 22359 | 'Vldlr' | 6.15 | 12.78 | 13.18 | 7.09 | 8.79 | 3.59 | 3.76 | 5.36 | 4.96 | 3.98 | 9.19E-05 |
| 22361 | 'Vnn1' | 0 | 0 | 2.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.93E-13 |
| 223915 | 'Krt73' | 1.04 | 2.09 | 2.57 | 9.38 | 0.02 | 0 | 0.02 | 0 | 0 | 0 | 2.19E-07 |
| 224694 | 'Zfp81' | 3.3 | 6.43 | 6.97 | 3.13 | 8.22 | 0.61 | 0.02 | 1.28 | 1.2 | 0.09 | 7.95E-04 |
| 225471 | 'Ticam2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.66 | 0 | 0 | 3.75E-12 |
| 226421 | 'Rab7b' | 0 | 0 | 0 | 0 | 1.56 | 0 | 0 | 0 | 0 | 0 | 2.03E-13 |
| 226564 | 'Fmo4' | 0 | 0 | 0 | 0 | 2.02 | 0 | 0 | 0 | 0 | 0 | 1.66E-12 |
| 227231 | 'Cps1' | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0.02 | 2.98E-13 |
| 227358 | 'Erfe' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.65 | 0 | 2.40E-13 |
| 228993 | 'Slc17a9' | 0 | 0 | 0 | 0 | 0 | 3.64 | 0 | 0 | 0 | 0 | 9.56E-13 |
| 229003 | 'Helz2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.84 | 1.00E-10 |
| 229055 | 'Zbtb10' | 0.2 | 0.21 | 0.76 | 2.36 | 0.03 | 0 | 0.01 | 0.01 | 0.02 | 0.01 | 1.94E-06 |
| 229302 | 'Tm4sf4' | 2.31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0391328 |
| 229499 | 'Fcr11' | 0 | 0 | 0 | 0 | 0 | 6.99 | 0 | 0 | 0 | 0 | 1.61E-13 |
| 230579 | 'Fam151a' | 0 | 3.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.45E-13 |
| 230824 | 'Grhl3' | 2.73 | 0 | 0 | 4.35 | 0 | 0 | 0 | 0 | 0 | 0 | 3.68E-13 |
| 232345 | 'A2m' | 0 | 0 | 0 | 0 | 1.31 | 0 | 0 | 0 | 0 | 0 | 3.27E-13 |
| 232406 | 'BC035044' | 0 | 0 | 0 | 0 | 0 | 7.48 | 0 | 0 | 2.95 | 0.02 | 1.92E-16 |

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|--------|-----------------|------|-------|-------|------|------|-------|------|------|------|------|-----------|
| 232431 | 'Gprc5a' | 0 | 0 | 0 | 0 | 5.94 | 0 | 0 | 0 | 0 | 0 | 5.20E-14 |
| 232493 | 'Gys2' | 0 | 0 | 1.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0427915 |
| 232974 | 'Gm4881' | 0 | 0 | 0 | 0 | 0 | 0 | 19.2 | 0 | 0 | 0 | 1.03E-14 |
| 234582 | 'Ccgc102a' | 2.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.55E-13 |
| 234724 | 'Tat' | 0 | 1.59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74E-12 |
| 235135 | 'Tmem45b' | 0 | 0 | 5.4 | 0 | 20.5 | 0 | 0 | 0 | 0.04 | 0 | 3.41E-04 |
| 235415 | 'Cplx3' | 0 | 0 | 5.3 | 0 | 0.02 | 0 | 0 | 0 | 0 | 0 | 1.58E-14 |
| 235587 | 'Parp3' | 0 | 0 | 0 | 6.43 | 0 | 3.41 | 2.57 | 1.06 | 0.02 | 3.1 | 0.7474219 |
| 236573 | 'Gbp9' | 0 | 0 | 0 | 0 | 3.16 | 0 | 0 | 0 | 0 | 0 | 3.65E-14 |
| 237523 | 'Ptpqr' | 0.81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.12E-13 |
| 23796 | 'Aplnr' | 21.2 | 11.4 | 30.5 | 25.2 | 13.1 | 151.1 | 113 | 253 | 102 | 233 | 3.364E-08 |
| 23855 | 'Defa17' | 0 | 0 | 0 | 0 | 0 | 0 | 34.3 | 0 | 0 | 0 | 5.74E-12 |
| 238663 | 'Spata31d1d' | 0 | 0 | 0 | 0 | 0 | 1.64 | 0 | 0 | 0 | 0 | 2.06E-12 |
| 23923 | 'Aadat' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.37 | 5.05E-13 |
| 239845 | 'Gpr156' | 0 | 0 | 1.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.18E-12 |
| 240754 | 'Lax1' | 1.29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0425297 |
| 24088 | 'Tlr2' | 0 | 0 | 0 | 0 | 0 | 2.98 | 0 | 0 | 0 | 1.92 | 1.49E-13 |
| 24102 | 'Trex2' | 0 | 3.33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0371568 |
| 241327 | 'Olfml2a' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.94 | 0 | 1.95E-12 |
| 241633 | 'Atp8b4' | 0 | 0.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.70E-13 |
| 242505 | 'Rasef' | 0 | 0 | 0 | 0 | 0 | 0.6 | 0.88 | 0.01 | 0.31 | 0.46 | 6.86E-05 |
| 242646 | 'Tctex1d4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.89 | 0 | 0 | 1.21E-12 |
| 242702 | 'Myom3' | 0.76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0397741 |
| 243653 | 'Clec1a' | 0 | 0 | 2.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.58E-13 |
| 243911 | 'Kirrel2' | 0 | 1.57 | 0 | 12.7 | 0 | 0 | 0 | 0 | 0 | 0 | 1.80E-15 |
| 244548 | 'Elmod2' | 2.02 | 0.9 | 4.21 | 3.63 | 0.98 | 3.72 | 7.22 | 3.09 | 9.99 | 7.69 | 0.0017617 |
| 244813 | 'Bsx' | 0 | 0 | 0 | 0 | 5.48 | 0 | 0 | 0 | 0 | 0 | 1.77E-13 |
| 245026 | 'Col6a6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.81 | 0.45 | 1.10E-13 |
| 245424 | 'Gpr101' | 20.9 | 7.67 | 13.19 | 0 | 14.5 | 21.75 | 35.6 | 44.2 | 156 | 88.1 | 0.0296404 |
| 245532 | 'Awat2' | 0 | 0 | 2.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.95E-13 |
| 245671 | 'Klf8' | 0 | 0.03 | 0.02 | 0.02 | 0 | 0.35 | 0.02 | 1.57 | 5.11 | 1.22 | 2.06E-06 |
| 245695 | 'Tceanc' | 2.2 | 1.06 | 0.97 | 0.17 | 0.57 | 0 | 0.01 | 0.08 | 0.08 | 0.03 | 2.01E-04 |
| 245877 | 'Map7d1' | 22.9 | 22.73 | 16.77 | 31.4 | 27.2 | 9.72 | 11.5 | 12.2 | 16.6 | 11.2 | 8.20E-05 |
| 257947 | 'Olf1543' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.33 | 0 | 1.75E-11 |
| 258470 | 'Olf191' | 0 | 0 | 0 | 4.75 | 0 | 4.22 | 0 | 0 | 0 | 0 | 0.9876207 |
| 258745 | 'Olf1689' | 0 | 0 | 0 | 0 | 3.24 | 0 | 0 | 0 | 0 | 0 | 0.0404979 |
| 258938 | 'Olf1417' | 0 | 0 | 0 | 0 | 0 | 0 | 6.81 | 0 | 0 | 0 | 2.84E-12 |
| 259051 | 'Olf1658' | 0 | 0 | 0 | 0 | 0 | 3.1 | 0 | 0 | 0 | 0.06 | 5.84E-13 |
| 260408 | 'Prss45' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.96 | 0 | 1.90E-11 |
| 26366 | 'Ceacam10' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.72 | 0 | 0 | 3.01E-12 |
| 266632 | 'Irak4' | 69.3 | 20.5 | 50.3 | 0 | 12.5 | 399.5 | 0 | 301 | 223 | 195 | 0.021491 |
| 268288 | 'Samd3' | 8.9 | 3.2 | 10.41 | 0 | 5.24 | 87.08 | 3.24 | 4.25 | 56.7 | 82 | 0.0157809 |
| 268379 | 'Abca13' | 0 | 0 | 0 | 0 | 0 | 0 | 1.23 | 0 | 0 | 0 | 7.94E-14 |
| 269053 | 'Gpr152' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.08 | 8.79E-12 |
| 27220 | 'Cartpt' | 341 | 616.6 | 449.3 | 260 | 153 | 26.1 | 8.57 | 28.8 | 332 | 74.5 | 0.0268095 |
| 27411 | 'Slc14a2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8.34 | 3.08E-13 |
| 27643 | 'Ubl4a' | 28.5 | 32.74 | 39.59 | 79.6 | 50.6 | 71.55 | 73.1 | 63.7 | 74.7 | 60.6 | 0.0294218 |
| 27883 | 'Tango2' | 104 | 113.6 | 172.7 | 126 | 175 | 273.4 | 250 | 249 | 248 | 179 | 6.24E-05 |
| 279706 | 'Nup62cl' | 0 | 0 | 0 | 21.4 | 0 | 0 | 0 | 0 | 0 | 31.1 | 0.9062676 |
| 29870 | 'Gtse1' | 0 | 0 | 0 | 8.11 | 2.14 | 0 | 0 | 0 | 0 | 0 | 1.92E-15 |
| 30806 | 'Adamts8' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.94 | 8.79E-12 |
| 30878 | 'Apln' | 1.12 | 2.9 | 2.78 | 0 | 3.41 | 0 | 0 | 0 | 0 | 0 | 1.38E-06 |
| 30941 | 'Usp21' | 54.1 | 31.8 | 25.28 | 5.05 | 38.1 | 16.96 | 18.4 | 24 | 15.3 | 12.8 | 0.117979 |
| 317757 | 'Gimap5' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.52 | 3.81E-12 |
| 319259 | 'Bricd5' | 0 | 0 | 0 | 0 | 0 | 0 | 13.8 | 0 | 0 | 0 | 2.19E-13 |
| 319433 | 'Serpine3' | 0 | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 3.64 | 0 | 6.01E-12 |
| 319776 | 'Tmem72' | 0 | 0 | 0 | 0 | 3.09 | 0 | 0 | 0 | 0 | 0 | 3.65E-14 |
| 320309 | '1520401A03Rik' | 0 | 0 | 0 | 0 | 0 | 2.59 | 0 | 0 | 0 | 0 | 1.84E-12 |
| 320701 | 'Fam19a4' | 0 | 12.71 | 10.75 | 0 | 0 | 0 | 0.02 | 0 | 0.02 | 0 | 2.25E-04 |
| 320747 | 'Lingo4' | 0 | 1.46 | 1.26 | 0 | 2.45 | 0 | 0.02 | 0 | 0 | 0 | 0.0020198 |
| 320981 | 'Enpp6' | 0 | 0 | 0 | 0 | 5.12 | 0 | 0 | 0 | 0 | 0 | 2.02E-14 |

| | | | | | | | | | | | | |
|--------|-----------------|------|-------|-------|------|------|-------|------|------|------|------|-----------|
| 328258 | 'Slc25a48' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.23 | 5.91E-12 |
| 328643 | 'Vwa5b2' | 6.9 | 7.38 | 15.62 | 0.97 | 13.1 | 2.22 | 3.66 | 5.78 | 4.61 | 2 | 0.0406949 |
| 328779 | 'Hs3st6' | 3.53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.25E-12 |
| 329064 | 'Pkd2l1' | 1.15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.62E-12 |
| 329738 | 'Aknad1' | 0 | 2.89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.01E-13 |
| 330050 | 'Fam185a' | 20.5 | 15.79 | 15 | 15.2 | 9.61 | 5.7 | 8.69 | 5.32 | 6.8 | 7.33 | 7.70E-06 |
| 333669 | 'Gm5134' | 0 | 0 | 0 | 0 | 2.29 | 0 | 0 | 0 | 0 | 0 | 2.78E-13 |
| 338403 | 'Cndp1' | 0 | 0 | 1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0377994 |
| 353344 | 'Opn5' | 0 | 0 | 0.03 | 0 | 0 | 0 | 0 | 0.02 | 25 | 22.8 | 4.07E-06 |
| 380924 | 'Olfm4' | 0 | 0 | 4.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.56E-14 |
| 381201 | 'Ap5b1' | 0.02 | 0 | 0 | 0 | 3.48 | 0 | 0 | 0 | 0 | 0 | 6.27E-14 |
| 381293 | 'Kif14' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.53 | 0 | 1.45E-11 |
| 381319 | 'Batf3' | 0 | 0 | 0 | 0 | 0 | 6.21 | 0 | 0 | 0 | 0 | 8.90E-12 |
| 381546 | 'Ccdc24' | 0 | 0 | 0 | 7.87 | 0 | 0 | 0 | 0 | 0 | 3.5 | 0.7031542 |
| 384071 | 'Slc25a34' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.31 | 7.66E-13 |
| 384198 | 'Fam47e' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.76 | 0 | 2.01E-12 |
| 385354 | 'Frm7' | 0 | 0 | 0 | 0 | 0 | 0 | 1.67 | 0 | 0 | 0 | 1.29E-12 |
| 386753 | 'Dbpht2' | 41.2 | 72.72 | 34.37 | 107 | 67.7 | 14.74 | 29.3 | 23.4 | 15.1 | 28 | 1.36E-05 |
| 399599 | 'Ccdc87' | 0 | 0 | 0 | 0 | 0 | 2.35 | 0 | 1.11 | 0 | 0 | 0.0079868 |
| 403180 | 'Ccdc121' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 5.82 | 3.74E-11 |
| 406219 | 'Krt87' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.67 | 0 | 6.84E-11 |
| 408059 | 'BC049352' | 0 | 5.32 | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.39E-14 |
| 432677 | 'Vrtn' | 0 | 0 | 0 | 0 | 2.79 | 0 | 0 | 0 | 0 | 0 | 1.24E-13 |
| 434215 | 'Lrrc32' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.77 | 0 | 5.19E-13 |
| 435529 | 'Adgrf2' | 0 | 0 | 0 | 0 | 0 | 0 | 2.05 | 0 | 1.19 | 0 | 4.83E-14 |
| 503491 | 'Defa24' | 0 | 0 | 0 | 0 | 0 | 0 | 43.5 | 0 | 0 | 0 | 1.15E-13 |
| 50706 | 'Postn' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.12 | 0 | 3.51E-14 |
| 52020 | 'Umodl1' | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.54E-12 |
| 52551 | 'Sgta' | 137 | 156.9 | 152.7 | 201 | 137 | 184.1 | 248 | 230 | 163 | 234 | 0.0067916 |
| 52570 | 'Ccdc69' | 0 | 0 | 3.24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.03E-12 |
| 53419 | 'Corin' | 0.03 | 3.01 | 0.02 | 0 | 0.01 | 0.01 | 0 | 0 | 0.01 | 0 | 0.0024889 |
| 53867 | 'Col5a3' | 0 | 0 | 1.67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.26E-14 |
| 53868 | 'Rab25' | 0 | 0 | 0 | 0 | 16.8 | 0 | 0 | 0 | 0 | 0 | 9.16E-15 |
| 53945 | 'Slc40a1' | 0 | 0 | 0.01 | 0 | 0.03 | 0.12 | 3.31 | 0 | 1.83 | 1.94 | 9.81E-05 |
| 54485 | 'Dil4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.23 | 0 | 1.44E-12 |
| 545055 | 'Cma2' | 4.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.48E-12 |
| 545758 | 'Gm5868' | 0 | 2.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.90E-12 |
| 54624 | 'Paf1' | 52 | 64.97 | 44.88 | 32.4 | 57 | 104.6 | 132 | 69.4 | 97.6 | 77.2 | 2.15E-04 |
| 546519 | 'Tmem235' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.9 | 2.49 | 2.16E-13 |
| 56050 | 'Cyp39a1' | 0 | 0 | 0 | 0.64 | 0 | 0 | 0 | 1.03 | 0 | 0 | 0.7885752 |
| 56183 | 'Nmu' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17.9 | 0 | 0 | 1.63E-13 |
| 56212 | 'Rhog' | 3.14 | 19.37 | 26.86 | 0 | 17.9 | 1.22 | 0.04 | 1.36 | 3.61 | 3.42 | 0.0266861 |
| 56318 | 'Acpp' | 0 | 0 | 0 | 0 | 2.03 | 0 | 0 | 0 | 0 | 0 | 7.99E-14 |
| 56460 | 'Pkp3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.51 | 5.03 | 4.21E-14 |
| 56485 | 'Slc2a5' | 0 | 0 | 0 | 0 | 0 | 6.24 | 0 | 0 | 2.72 | 1.71 | 3.63E-04 |
| 56643 | 'Slc15a1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.07 | 0 | 0 | 1.83E-11 |
| 56720 | 'Tdo2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.23 | 0 | 5.44E-12 |
| 56735 | 'Krt71' | 0 | 0 | 0 | 0 | 0 | 0 | 9.5 | 0 | 0 | 0 | 5.33E-14 |
| 56811 | 'Dkk2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.61 | 1.77 | 2.53E-13 |
| 57444 | 'Isg20' | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 5.38 | 0 | 0 | 0.0221525 |
| 58185 | 'Rsad2' | 0 | 1.88 | 1.97 | 0.62 | 3.44 | 0 | 0 | 0 | 0 | 0.01 | 2.53E-06 |
| 58203 | 'Zbp1' | 0 | 0 | 0 | 0 | 0 | 14.57 | 0 | 0 | 0 | 0 | 3.64E-13 |
| 59058 | 'Bhlhe22' | 0 | 0 | 0 | 0 | 0 | 2.12 | 0.25 | 0.42 | 1.59 | 0 | 5.05E-04 |
| 59083 | 'Fetub' | 0 | 3.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.40E-12 |
| 60363 | 'Cldn15' | 0 | 0 | 2.45 | 0.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0178771 |
| 619332 | '4933416C03Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 2.28 | 0 | 0 | 0 | 5.23E-12 |
| 620292 | 'Cntnap5c' | 0.81 | 1.7 | 6.93 | 11.4 | 3.31 | 8.38 | 31.9 | 6.83 | 28.7 | 20.9 | 0.001538 |
| 622307 | '5830473C10Rik' | 1.51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.88E-12 |
| 622554 | 'Majin' | 0 | 0 | 2.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.67E-13 |
| 626215 | 'Gm6657' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.06 | 0 | 1.87E-11 |
| 626578 | 'Gbp10' | 0 | 0 | 0 | 0 | 2.55 | 0 | 0 | 0 | 0 | 0 | 2.14E-13 |

| | | | | | | | | | | | | |
|--------|-----------------|------|-------|-------|------|------|-------|------|------|------|------|-----------|
| 631323 | 'Gm12250' | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.14E-13 |
| 631797 | 'Fer1l6' | 0 | 1.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.13E-13 |
| 636931 | 'Trim71' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.54 | 0 | 0 | 1.22E-12 |
| 64008 | 'Aqp9' | 0 | 0 | 0 | 0 | 0 | 0 | 3.68 | 0 | 0 | 0 | 2.01E-11 |
| 64009 | 'Syne1' | 13.3 | 17.67 | 9.46 | 32.2 | 17.8 | 22.23 | 23.5 | 18.5 | 51.3 | 46.4 | 0.0120642 |
| 64074 | 'Smoc2' | 2.79 | 0 | 21.14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.97E-19 |
| 64075 | 'Smoc1' | 21.9 | 42.68 | 25.45 | 1.83 | 22.3 | 3.85 | 14.7 | 5.73 | 9.74 | 14.7 | 0.0514525 |
| 64899 | 'Lpin3' | 0 | 0 | 0 | 0 | 0 | 2.36 | 0 | 0 | 2.51 | 1.03 | 0.0014822 |
| 654821 | 'Gcnt7' | 0 | 0 | 0 | 0 | 0.02 | 2.46 | 4.59 | 0 | 0.29 | 0.02 | 6.52E-04 |
| 65971 | 'Tbata' | 0 | 2.98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.25E-12 |
| 66442 | 'Spc25' | 0 | 3.08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.08E-12 |
| 665095 | 'Cyp2j8' | 1.91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0411123 |
| 665574 | 'Gm7694' | 1.47 | 1.95 | 4.64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.01E-04 |
| 66765 | '4933411K16Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.13 | 8.79E-12 |
| 667663 | 'Myo3a' | 0 | 0 | 0.68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0353757 |
| 66864 | 'Clec14a' | 0 | 0 | 0 | 0 | 0 | 0 | 2.73 | 0 | 0 | 0 | 1.35E-12 |
| 66940 | 'Shisa5' | 69.5 | 94.16 | 63.33 | 157 | 61.5 | 153.2 | 95.9 | 154 | 205 | 194 | 0.0038767 |
| 66953 | 'Cdca7' | 0 | 0 | 0 | 0 | 0 | 0 | 3.78 | 0 | 0 | 2.59 | 1.36E-13 |
| 67109 | 'Zfp787' | 0.19 | 0.28 | 0.1 | 1.36 | 0.39 | 4.17 | 1.02 | 0.96 | 2.55 | 1.58 | 0.0229686 |
| 67375 | 'Qprt' | 0 | 5.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.42E-13 |
| 67498 | 'Kcnv1' | 1.53 | 4.25 | 0.95 | 0.01 | 0.03 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 5.93E-05 |
| 67666 | 'Hapln3' | 0 | 0 | 0 | 0 | 0 | 0 | 5.71 | 0 | 0 | 0 | 1.55E-12 |
| 67749 | 'Mgarp' | 0 | 0 | 0 | 0.05 | 6.58 | 0 | 0 | 0 | 0 | 0 | 1.33E-13 |
| 67849 | 'Cdca5' | 0 | 0 | 1.62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0412546 |
| 67859 | 'Cysrt1' | 0 | 0 | 0 | 0 | 0 | 8.91 | 0 | 0 | 0 | 0 | 1.93E-12 |
| 68021 | 'Bphl' | 39.4 | 23.47 | 32.5 | 24.5 | 30.2 | 63.57 | 62.5 | 53.6 | 57.2 | 56.3 | 8.65E-06 |
| 68172 | 'Rpl39l' | 0 | 9.36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.07E-13 |
| 68279 | 'Mcoln2' | 0 | 0 | 1.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.14E-12 |
| 68375 | 'Ndufa8' | 508 | 460.2 | 473.6 | 550 | 446 | 784.7 | 539 | 664 | 734 | 659 | 3.04E-04 |
| 68792 | 'SrpX2' | 0 | 0 | 0 | 0 | 0 | 0 | 3.2 | 0 | 0 | 0 | 7.38E-13 |
| 68857 | 'Dtw2' | 0.62 | 0.15 | 0.86 | 0 | 1.55 | 0 | 0 | 0.01 | 0 | 0 | 0.0020127 |
| 69068 | 'Tcim' | 0 | 0 | 0 | 0 | 0 | 0.04 | 0 | 0 | 5.03 | 0 | 2.51E-12 |
| 69121 | 'Chrdl2' | 0 | 0 | 3.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.62E-13 |
| 69123 | 'Eci3' | 0 | 0 | 0 | 0 | 2.94 | 0 | 0 | 0 | 0 | 0 | 1.66E-12 |
| 69146 | 'Gsdmd' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.97 | 4.57E-12 |
| 69387 | 'Dnajb13' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.26 | 6.40E-12 |
| 70316 | 'Ndufab1' | 467 | 428.7 | 431.8 | 362 | 405 | 616.2 | 512 | 528 | 611 | 574 | 2.64E-04 |
| 70866 | 'Slco6d1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.35 | 1.27E-11 |
| 70989 | 'Jhy' | 0 | 0 | 0 | 0 | 3.45 | 0 | 0 | 0 | 0 | 0 | 4.53E-14 |
| 71093 | 'Atoh8' | 0 | 0 | 0 | 0 | 2.31 | 0 | 0 | 0 | 0 | 0 | 5.08E-13 |
| 71355 | 'Col24a1' | 0 | 0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.08E-13 |
| 71367 | 'Chst9' | 0 | 0 | 3.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.03E-11 |
| 71724 | 'Aox3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.66 | 2.22E-12 |
| 71839 | 'Osgin1' | 0 | 0 | 0 | 0 | 0 | 0 | 2.25 | 0 | 0 | 0 | 8.76E-12 |
| 71862 | 'Gpr160' | 0 | 0 | 0 | 0.03 | 0 | 9.06 | 0 | 0 | 0 | 0 | 0.0055067 |
| 71872 | 'Aox4' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.77 | 0 | 0 | 7.26E-13 |
| 71874 | '2310007B03Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.73 | 1.10E-11 |
| 71951 | 'Gpc2' | 2.72 | 1.44 | 0.89 | 0 | 0.19 | 0 | 0 | 0 | 0 | 0 | 5.83E-04 |
| 72112 | 'Ppp1r14d' | 0 | 0 | 0 | 0 | 4.96 | 0 | 0 | 0 | 0 | 0 | 0.0338858 |
| 72169 | 'Trim29' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.05 | 0 | 0 | 2.41E-11 |
| 72293 | 'Nkd2' | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 2.45 | 8.34 | 0.01 | 1.54E-04 |
| 72388 | 'Ripk4' | 0 | 0 | 0 | 0 | 1.05 | 0 | 0 | 0 | 0 | 0 | 1.72E-12 |
| 72392 | 'Tmem175' | 35.9 | 52.38 | 33.58 | 42.9 | 38.9 | 73.12 | 51.5 | 79.3 | 64.9 | 68.3 | 1.86E-05 |
| 72415 | 'Sgo1' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.36 | 0.63 | 1.66E-13 |
| 72512 | 'Tmem173' | 0 | 0 | 0 | 0 | 0.02 | 26.37 | 0 | 0 | 0.02 | 0 | 2.88E-04 |
| 72535 | 'Aldh1b1' | 11.8 | 4.77 | 2.98 | 4.81 | 7.62 | 28.02 | 20.3 | 12.1 | 24.4 | 17.7 | 1.06E-04 |
| 73149 | 'Clec4a3' | 0 | 0 | 0 | 0 | 0 | 3.54 | 0 | 0 | 0 | 0 | 9.47E-12 |
| 73167 | 'Arhgap8' | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 3.63 | 0 | 2.45E-13 |
| 73363 | '1700056E22Rik' | 0 | 0 | 0 | 0 | 0 | 0 | 4.78 | 0 | 0 | 0 | 1.10E-11 |
| 73713 | 'Rbm20' | 1.75 | 0.17 | 0.04 | 0.02 | 0.94 | 0.01 | 0 | 0.01 | 0.01 | 0.01 | 1.25E-05 |
| 73936 | 'Ccadc175' | 0 | 0 | 0 | 0 | 2.49 | 0 | 0 | 0 | 0 | 0 | 2.47E-13 |

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|-------|-----------------|------|-------|------|------|------|-------|------|------|------|------|-----------|
| 74044 | 'Ttf2' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.64 | 1.89 | 0 | 0.0089332 |
| 74131 | 'Sash3' | 1.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0411123 |
| 74152 | 'Stra6' | 0 | 0 | 0 | 0.02 | 0 | 0 | 8.23 | 0 | 0 | 0.01 | 0.0026536 |
| 74153 | 'Uba7' | 0 | 0 | 0 | 0 | 0 | 10.29 | 0.2 | 0 | 0 | 2.62 | 1.07E-04 |
| 74156 | 'Acot12' | 0 | 1.87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.62E-13 |
| 74186 | 'Ccdc3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.96 | 0 | 0.02 | 1.84E-13 |
| 74191 | 'P2ry13' | 0 | 0 | 0 | 0 | 0 | 17.05 | 0 | 0 | 0 | 0 | 2.52E-15 |
| 74204 | 'Xpo6' | 30.2 | 98.04 | 9.7 | 41.1 | 90.4 | 16.55 | 7.34 | 10.6 | 10.9 | 23.2 | 3.18E-04 |
| 74732 | 'Stx11' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38 | 4.99E-12 |
| 74734 | 'Rhoh' | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 7.51 | 0 | 0 | 0.67 | 2.36 | 1.54E-05 |
| 75526 | 'Eppin' | 0 | 5.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74E-12 |
| 75766 | 'Dcstamp' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1.48E-11 |
| 76072 | 'Rnf183' | 2.69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.14E-11 |
| 76405 | '1700018B08Rik' | 0 | 0 | 0 | 0 | 1.9 | 0 | 0 | 0 | 0 | 0 | 0.0369408 |
| 76415 | 'Fam187b' | 0 | 0 | 0 | 0 | 3.77 | 0 | 0 | 0 | 0 | 0 | 5.27E-13 |
| 76507 | 'Aoc1' | 0 | 1.82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.89E-13 |
| 76589 | 'Unc5cl' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.38 | 0 | 1.40E-11 |
| 76681 | 'Trim12a' | 0 | 0 | 0 | 0 | 0 | 0 | 6.1 | 0 | 0 | 0 | 7.64E-13 |
| 76854 | 'Gper1' | 0 | 0 | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 3.89 | 5.58E-13 |
| 76856 | 'Catsper3' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.83 | 0 | 2.43E-11 |
| 77799 | 'Sla2' | 0 | 0 | 0 | 0 | 0 | 1.35 | 0 | 0 | 0 | 0 | 1.17E-11 |
| 77998 | 'Grifin' | 0 | 0 | 0 | 0 | 0 | 0 | 8.38 | 0 | 0 | 0 | 6.56E-12 |
| 78088 | 'Sowahb' | 0 | 0 | 0 | 6.04 | 0 | 0 | 0 | 0.98 | 0 | 0 | 0.3835219 |
| 78895 | 'Pus7l' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 | 2.03 | 2.66E-13 |
| 80986 | 'Ckap2' | 0 | 1.61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.16E-12 |
| 83428 | 'Ucn3' | 0 | 0.03 | 0.07 | 0.04 | 0.03 | 111.8 | 0 | 0 | 207 | 27.1 | 2.24E-07 |
| 83453 | 'Chrdl1' | 0 | 0 | 1.98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.41E-13 |
| 84004 | 'Mcam' | 0.08 | 0.1 | 6.8 | 0 | 0.07 | 0.02 | 0 | 0 | 0 | 0 | 4.48E-04 |
| 93695 | 'Gpnmb' | 1.63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.24E-13 |
| 93709 | 'Pcdhga1' | 0 | 2.53 | 3.48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83E-15 |
| 93837 | 'Dach2' | 0 | 0 | 0 | 0 | 0 | 2.01 | 0 | 0 | 0 | 0.01 | 3.38E-12 |
| 93873 | 'Pcdhb2' | 2.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.55E-13 |
| 94088 | 'Trim6' | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.92 | 1.44E-12 |
| 94220 | 'Cnnm4' | 6.2 | 6.46 | 4.82 | 3.17 | 9.86 | 1.57 | 1.53 | 1.73 | 3.61 | 3.31 | 0.0031149 |
| 99382 | 'Abtb2' | 2.97 | 1.19 | 3.95 | 3.34 | 0.01 | 0 | 0 | 0.01 | 0.01 | 0 | 2.97E-09 |