**Supplementary Figure Legends**

**Supplementary Figure 1. Levels of fluoxetine in maternal serum. A,** Mass spectrometry dose-response of 100nM, 1μM, and 10μM fluoxetine in maternal serum, maternal sera of SPF+ Veh, ABX + Veh, SPF+ FLX, ABX + FLX groups at E14.5. **B,** Concentration of fluoxetine in maternal serum of SPF + Veh, SPF + FLX, ABX + Veh and ABX + FLX groups (one-way ANOVA with Tukey's, n = 6, 6, 6, 6, respectively). n.s.: not significant, **** $p < 0.0001$

**Supplementary Figure 2. Effects of maternal fluoxetine treatment with microbiome depletion on maternal weight, litter size, embryo size and brain volume. A,** Maternal weight of SPF + Veh, SPF + FLX, ABX + Veh and ABX + FLX groups on gestational day 0.5, 7.5, and 14.5 (One-way ANOVA with Tukey's, n = 6, 6, 6, 6, respectively). **B,** Change in maternal weight of SPF+ Veh, SPF + FLX, ABX + Veh and ABX + FLX groups from gestational day 0.5 to 7.5. (one-way ANOVA with Tukey's, n = 6, 6, 6, 6 respectively). **C,** Change in maternal weight of SPF+ Veh, SPF + FLX, ABX + Veh and ABX + FLX groups from gestational day 7.5 to 14.5. (one way ANOVA with Tukey's, n = 6, 6, 6, 6 respectively). **D,** Maternal cecal weight of SPF+ Veh, SPF + FLX, ABX + Veh and ABX + FLX at E14.5. (one-way ANOVA with Tukey's, n = 6, 6, 6, 6 respectively). **E,** Number of pups born to dams of SPF + Veh, SPF + FLX, ABX + Veh and ABX + FLX. (one way ANOVA with Tukey's, n = 6, 6, 6, 6 respectively). **F,** Volume of SPF+ Veh, SPF + FLX, ABX + Veh and ABX + FLX embryos at E14.5. (one-way ANOVA with Tukey's, n = 6, 6, 6, 6 respectively) **G,** Volume of SPF+ Veh, SPF + FLX, ABX + Veh and ABX + FLX embryonic brain at E14.5. (one-way ANOVA with Tukey's, n = 6, 6, 6, 6 respectively) **H,** Representative coronal and sagittal microcomputed tomography images of SPF+ Veh, SPF + FLX, ABX + Veh and ABX + FLX embryos at E14.5. (One-way ANOVA with Tukey's, n = 6, 6, 6, 6 respectively). n.s.: not significant, * $p < 0.05$, **** $p < 0.0001$

**Supplementary Figure 3. Maternal fluoxetine treatment alters fetal brain molecular function and cellular component pathways. A and B,** Top 10 molecular function (MF) and cellular component (CC) gene ontology (GO) terms enrichment analysis of genes upregulated (**A**) and downregulated (**B**) in E14.5 fetal brain from SPF+FLX compared to SPF+Veh dams.

**Supplementary Figure 4. Effects of maternal fluoxetine treatment on maternal and fetal brain serotonin and tryptophan levels.**
**A, B,** Serum levels of serotonin (5-HT) (**A**) and tryptophan (**B**) in gestational day 14.5 murine dams that were conventionally colonized with vehicle (SPF + Veh) or fluoxetine (SPF + FLX) gavage and antibiotic treated with vehicle (ABX + Veh) or fluoxetine (ABX + FLX) gavage. (one- way ANOVA with Tukey's, n = 8, 10, 6, 10 dams, respectively) **C**, **D**, Fetal brain levels of 5-HT (one-way ANOVA with Tukey's, n=8) (**C**) and tryptophan (**D**) on gestational day E14.5 (one-way ANOVA with Tukey's, n = 4). n.s.: not significant, * $p < 0.05$

**Supplemental Figure 5. Gestational fluoxetine exposure has no significant effect on the fetal brain serotonergic system.** Representative images of SPF + Veh, SPF + FLX, and ABX + FLX sagittal sections showing 5-HT (**A**), SERT (**B**), Tph2 (**C**), and overlay (**D**) staining for cells in the dorsal raphe nucleus (DRN). Quantification of colocalized 5-HT+ & SERT+ (**E**) and 5-HT+ &

Tph2+ (**F**) cells in the DRN of SPF + Veh, SPF + FLX, and ABX + FLX embryo brains (Two-tailed t-test, n = 8, 6, 5). **G**, The ratio of Tph2+ cells to SERT+ cells in DRN of SPF + Veh, SPF + FLX, and ABX + FLX embryo brains. (Two-tailed t-test, n = 8, 6, 5). Representative images of 5-HT (**H**), SERT (**I**), Tph2 (**J**), and overlay (**K**) axon projections from the DRN to the prefrontal cortex (PFC) in sagittal SPF + Veh, SPF + FLX, and ABX + FLX embryonic brain sections. **L,** (Left) Quantification of 5-HT integrated density in DRN to PFC axon projections in SPF + Veh, SPF + FLX, and ABX + FLX sagittal embryo brain sections (Welch's two-tailed t-test, n = 8, 6, 5). (Right) Quantification of number of 5-HT+ axons in SPF + Veh, SPF + FLX, and ABX + FLX sagittal embryo brain sections (Welch's two-tailed t-test, n = 8, 6, 5). **M,** (Left) Quantification of SERT integrated density in DRN to PFC axon projections in SPF + Veh, SPF + FLX, and ABX + FLX sagittal embryo brain sections (Welch's two-tailed t-test, n = 8, 6, 5). (Right) Quantification of SERT+ puncta in DRN to PFC axon projections in SPF + Veh, SPF + FLX, and ABX + FLX sagittal embryo brain sections (Welch's two-tailed t-test, n = 8, 6, 5). **N,** (Left) Quantification of Tph2 integrated density in DRN to PFC axon projections in SPF + Veh, SPF + FLX, and ABX + FLX sagittal embryo brain sections (Welch's two-tailed t-test, n = 8, 6, 5). (Right) Quantification of number of TPH2+ axons in SPF + Veh, SPF + FLX, and ABX + FLX sagittal embryo brain sections (Welch's two-tailed t-test, n = 8, 6, 5). Scale bar: 100 μm. n.s.: not statistically significant

**Supplementary Figure 6. Maternal fluoxetine treatment has no overt effect on the composition of the maternal gut microbiota. A,** Alpha rarefaction plots of Shannon diversity of fecal samples from E3.5, E6.5, E8.5, E11.5, and E14.5 SPF+Veh and SPF+FLX dams. **B,** Weighted Unifrac PCoA plots of fecal samples from E3.5, E6.5, E8.5, E11.5, and E14.5 SPF+Veh and SPF+FLX dams. **C,** Taxa bar plots and **D,** Relative abundance of 20 rarest taxa identified with SILVA database in fecal samples from E3.5, E6.5, E8.5, E11.5, and E14.5 SPF+Veh and SPF+FLX dams. Relative abundance of *Lachnospiraceae* bacterium COE1 (**E**), *Blautia* (**F**), *Lachnoclostridium* (**G**), and *Lachnospiraceae* UCG-006 (**H**) based on 16S rRNA gene sequencing of fecal samples from SPF+Veh and SPF+FLX dams on gestational day E3.5, E6.5, E8.5, E11.5, and E14.5 (Kruskal-Wallis Test, n = 7, 7, respectively). n.s.: not significant, * $p < 0.05$, ** $p < 0.01$

**Supplementary Figure 7. Interactions between maternal fluoxetine treatment and the maternal microbiome regulate gene ontology pathways. A,** Top 10 molecular function (MF) and cellular component (CC) gene ontology (GO) terms that are upregulated in E14.5 fetal brains from SPF+FLX compared to SPF+Veh and ABX+FLX dams, selected by most abundant and p.adjust < 0.05 Gene ratio: number of genes present in dataset vs present in GO term. **B,** Top 10 molecular function (MF) and cellular component (CC) gene ontology (GO) terms that are downregulated in E14.5 fetal brains from SPF+FLX compared to SPF+Veh and ABX+FLX dams. **C,** STRING protein interaction network of genes significantly upregulated, greater than 0.5-fold, in E14.5 fetal brain from SPF+FLX compared to SPF+Veh and ABX+FLX dams. **D,** STRING protein interaction network of genes significantly downregulated (>0.5 fold) in E14.5 fetal brains from SPF+FLX compared to SPF+Veh and ABX+FLX dams.

**Supplementary Figure 8. Effects of maternal fluoxetine treatment on fetal brain gene expression that occur independently of the maternal microbiota. A,** Heatmap of 600

differentially expressed genes in E14.5 fetal brain from SPF + Veh compared to SPF + FLX dams. **B, C,** GO enrichment analysis of upregulated (**B**) and downregulated (**C**) genes in E14.5 fetal brains from SPF + FLX compared to SPF + Veh dams. **D,** Volcano plot of 600 differentially expressed genes ($p<0.05$) in E14.5 fetal brains from SPF + FLX compared to SPF + Veh dams. Red, significant and greater than 0.5-fold or less than -0.5-fold, blue, significant ($p<0.05$).

**Supplementary Figure 9. Expression of select genes altered by maternal fluoxetine exposure and maternal microbiota status.**
**A,** Gene expression of *Hbb-bh1*, *Gm9159*, *Adam21*, and *Clec11a* that are upregulated in ABX+FLX compared to SPF+FLX greater than 0.5-fold and *Pole2*, *Rpa2*, and *Hist1h3a* that are upregulated in SPF+Veh compared to SPF+FLX greater than 0.5-fold. **B,** Gene expression of *Angptl6*, *Zfp455*, *Sla*, *Lsamp*, 5730409E04Rik, *Opcml* that are upregulated in SPF+FLX compared to SPF+Veh and greater than 0.5-fold ($p<0.05$), and *Kcnj11*, *Adcy1*, *Gnal*, *Grm3*, *Car10* that are upregulated in SPF+FLX compared to ABX+FLX and greater than 0.5-fold ($p<0.05$). **C,** Quantitative RT-PCR measurement of *Opcml* gene expression in SPF + Veh, SPF + FLX, ABX + Veh, and ABX + FLX embryo brains. (One-way ANOVA with Tukey's, n = 6, 6, 6, 6 dams). n.s.: not significant, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$

Fig S1

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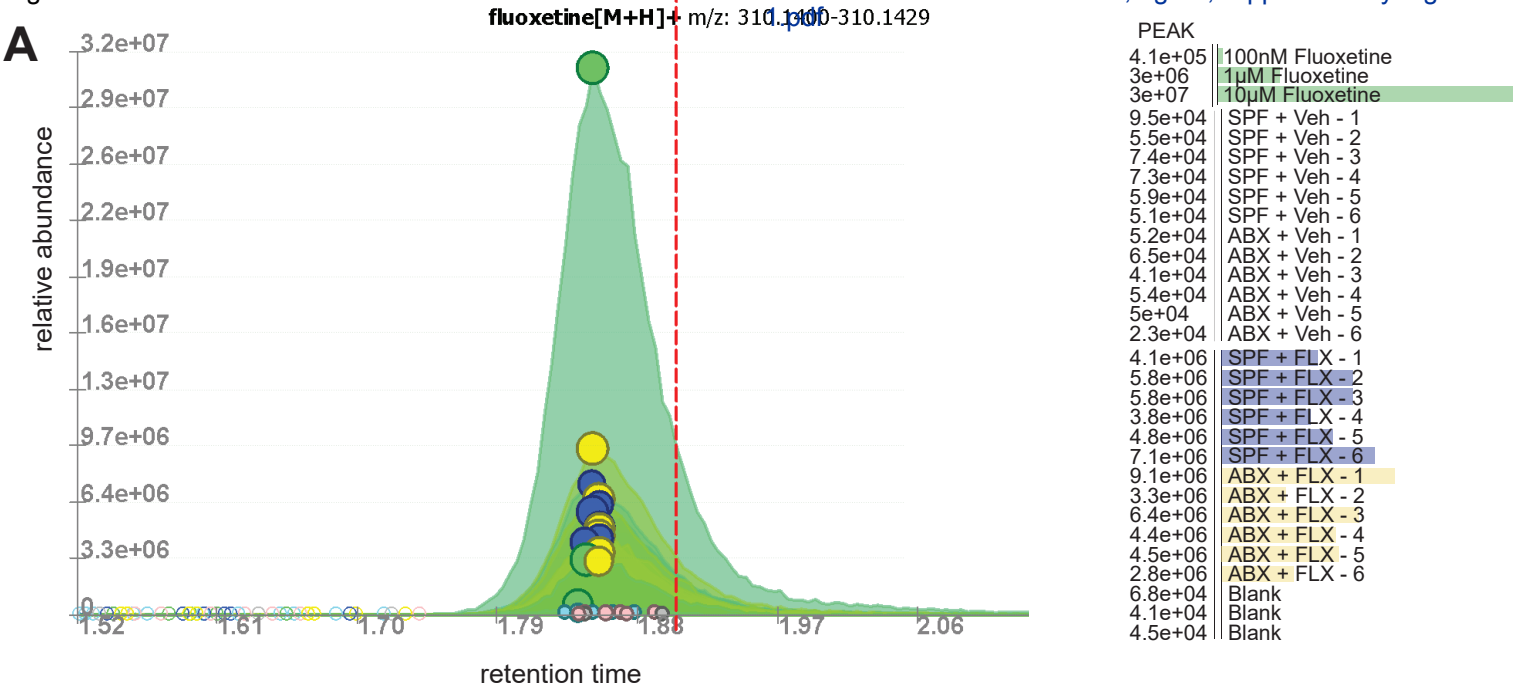


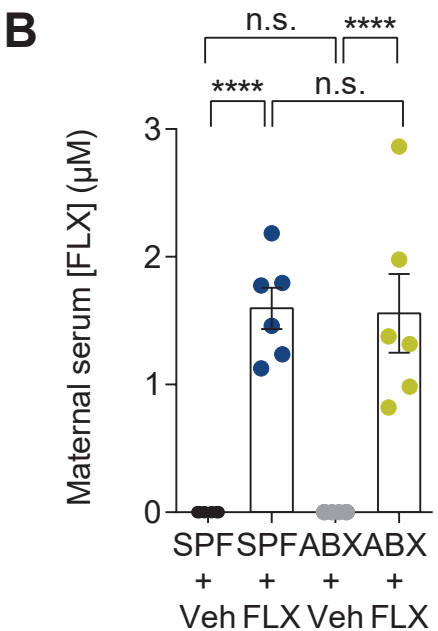

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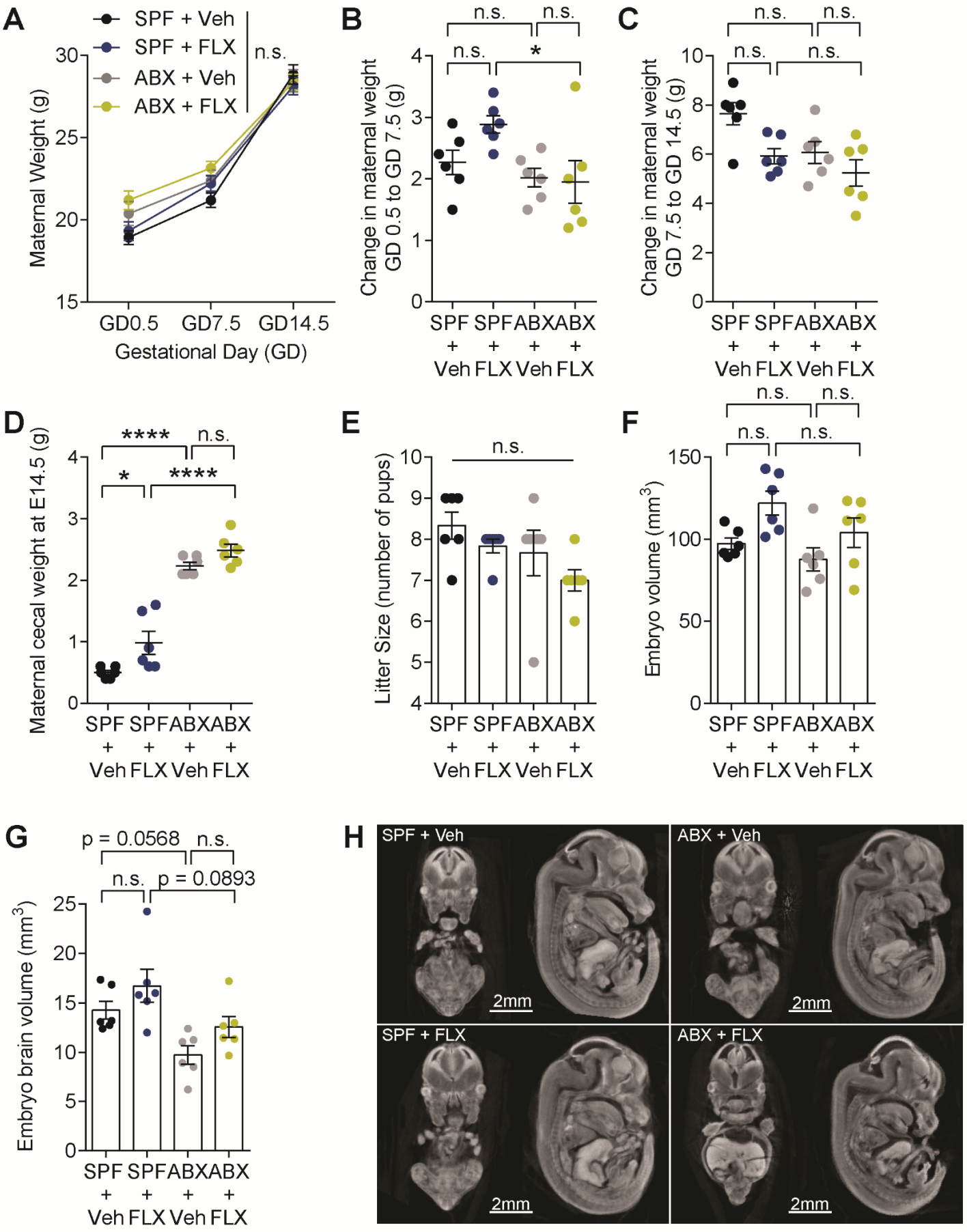

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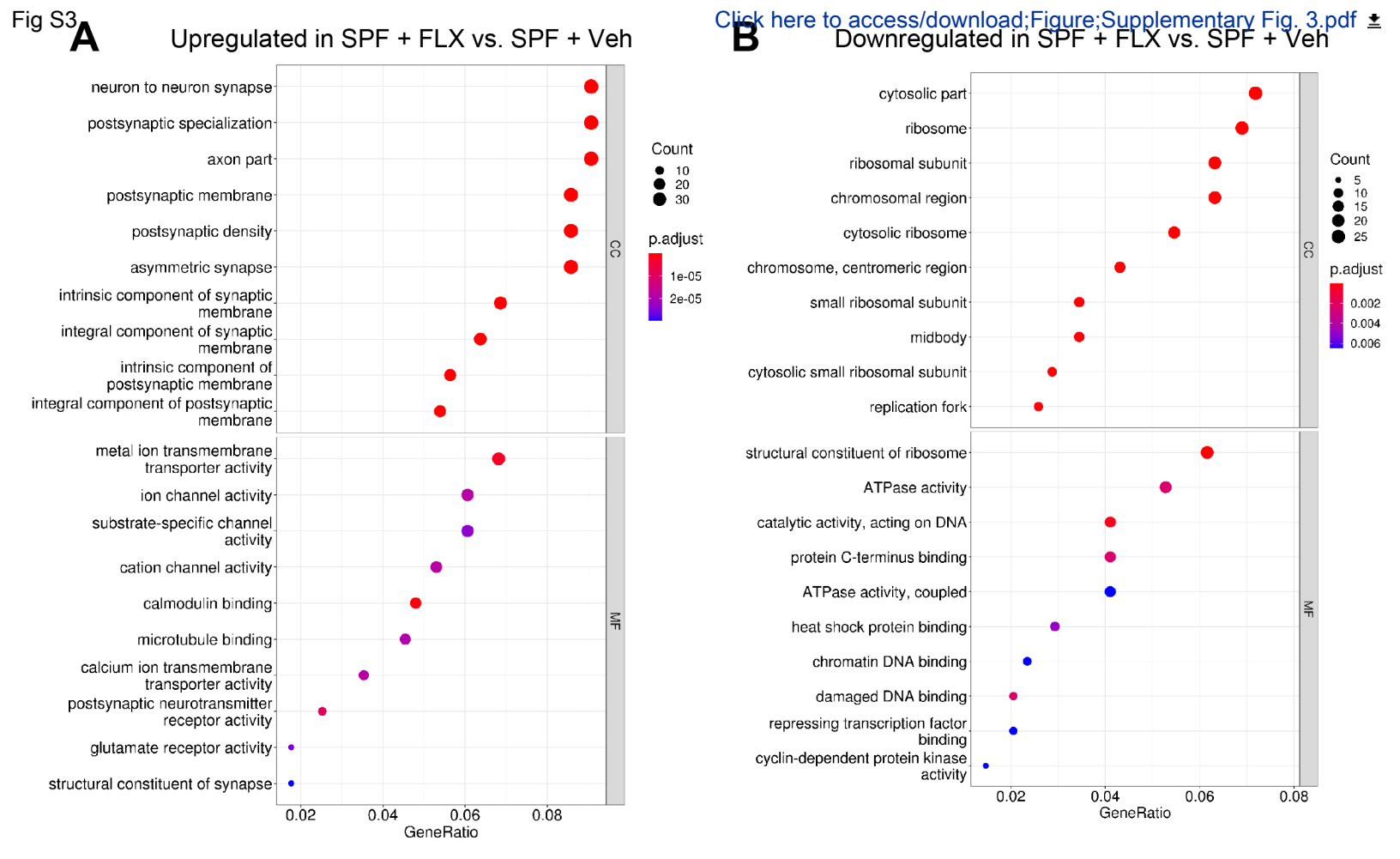

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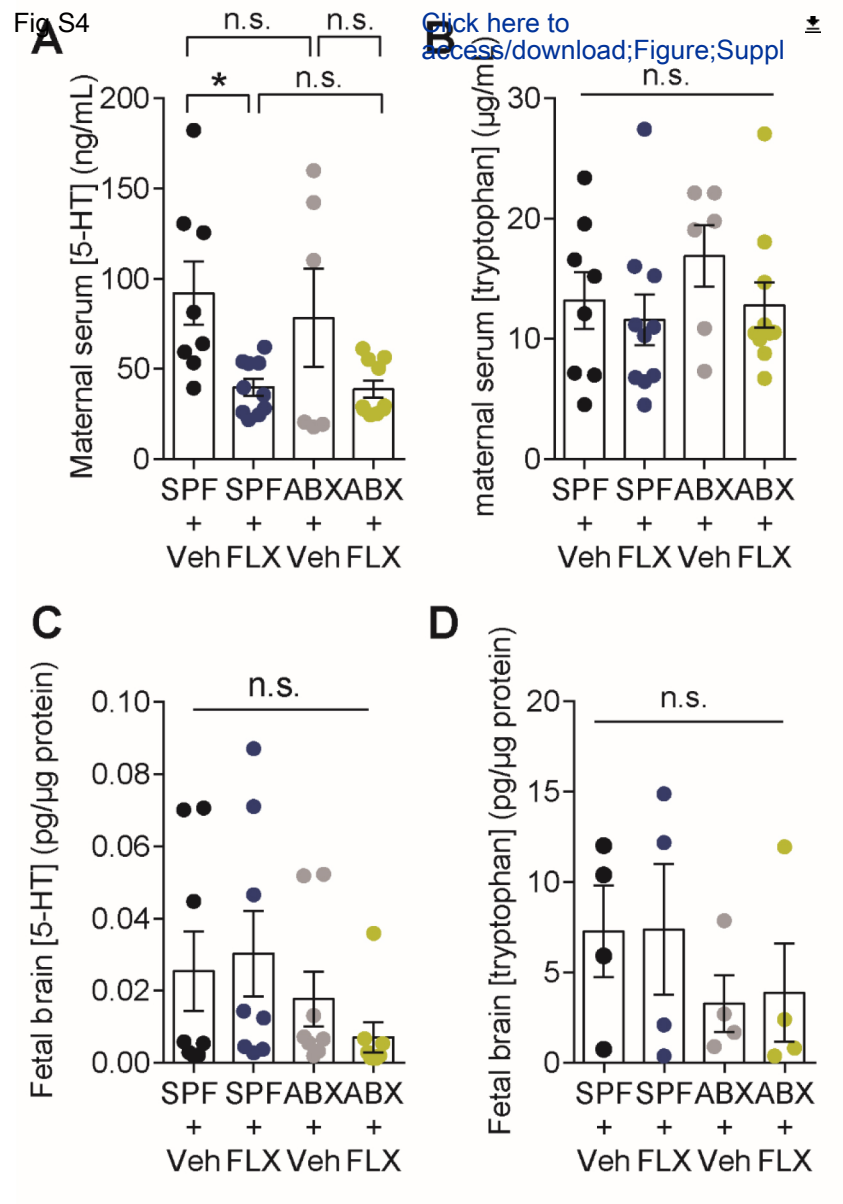

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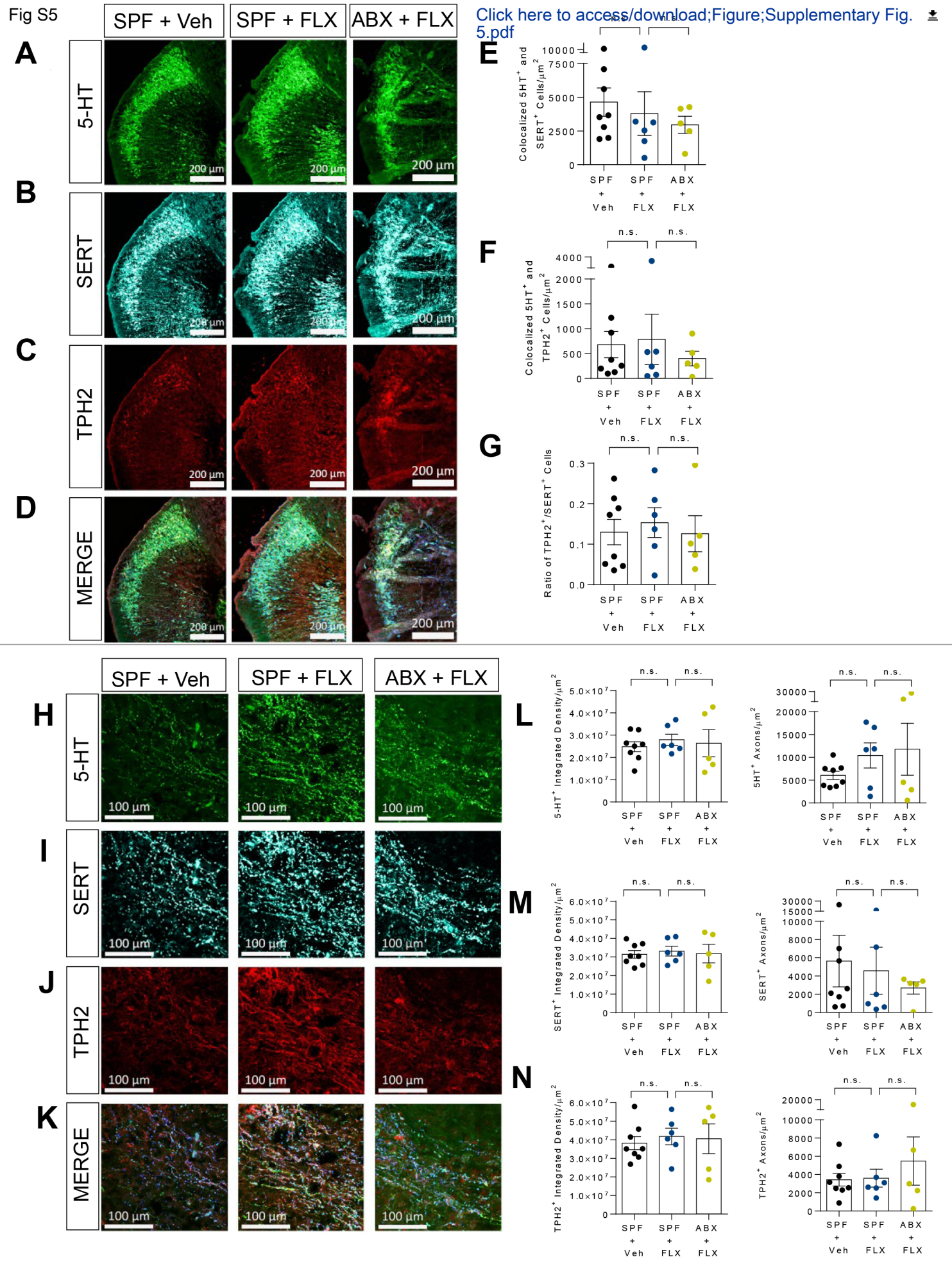

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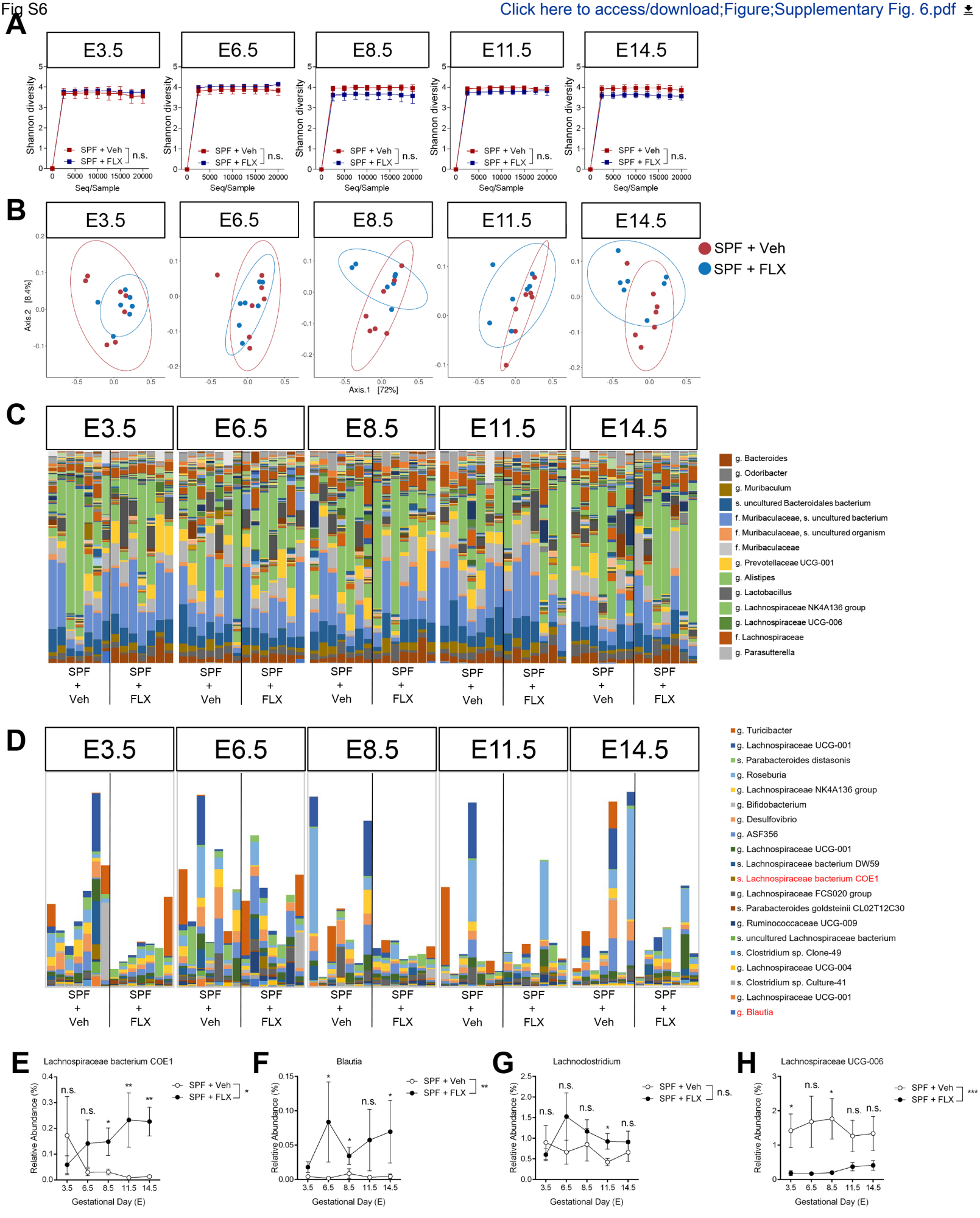

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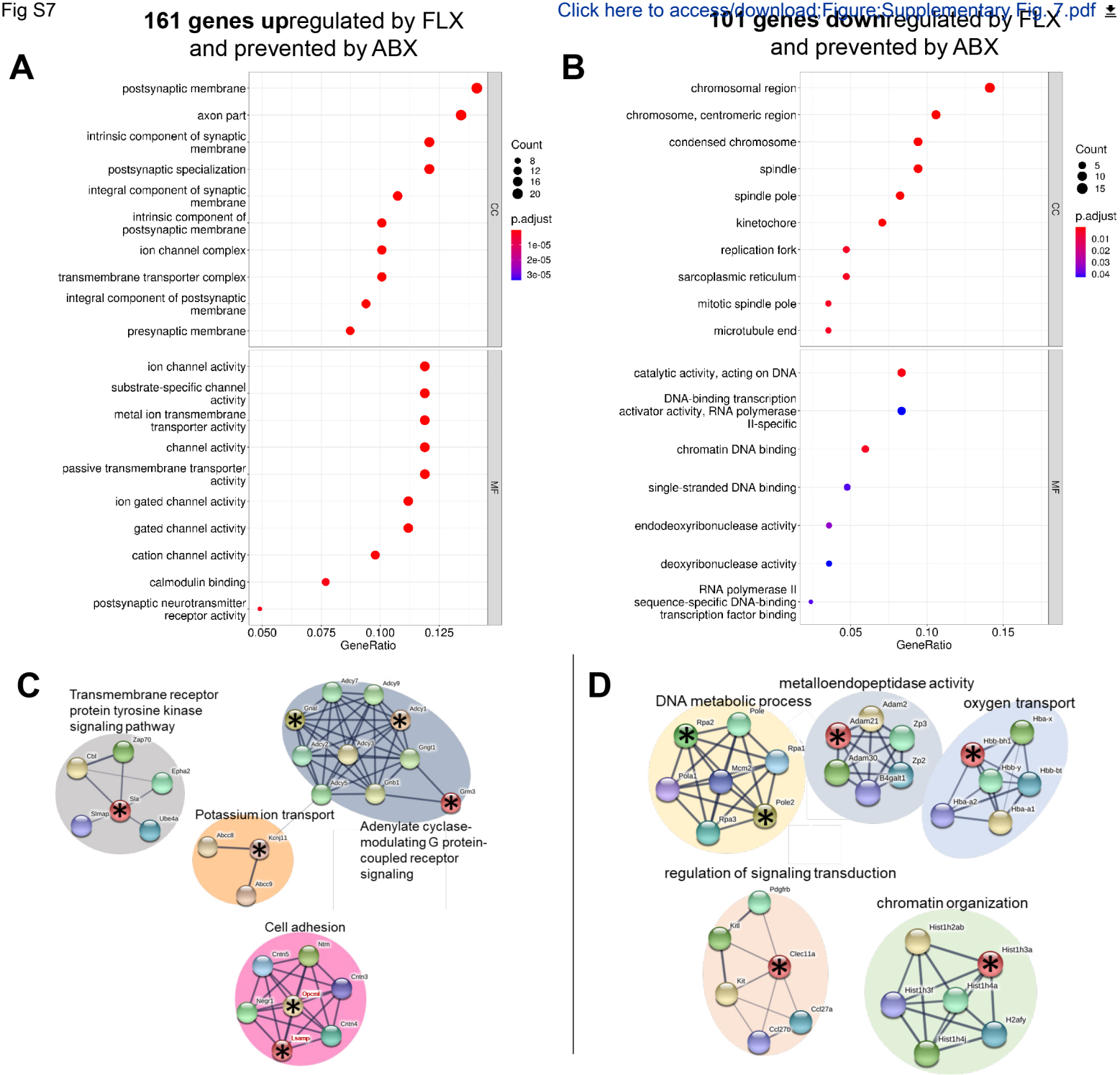

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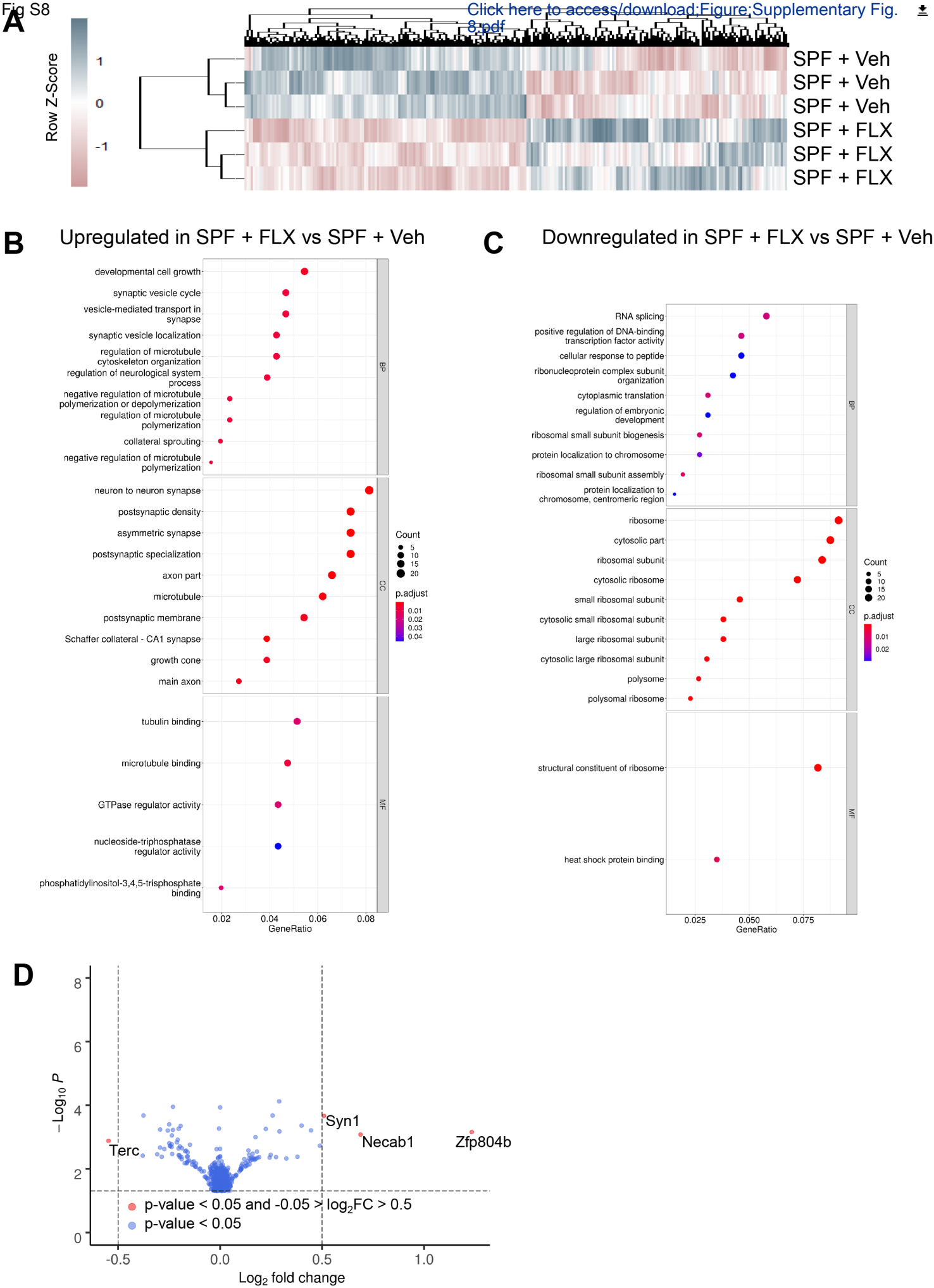

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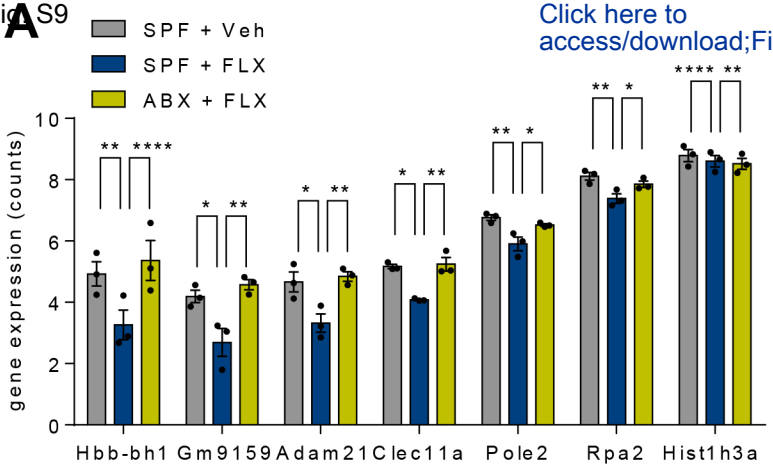


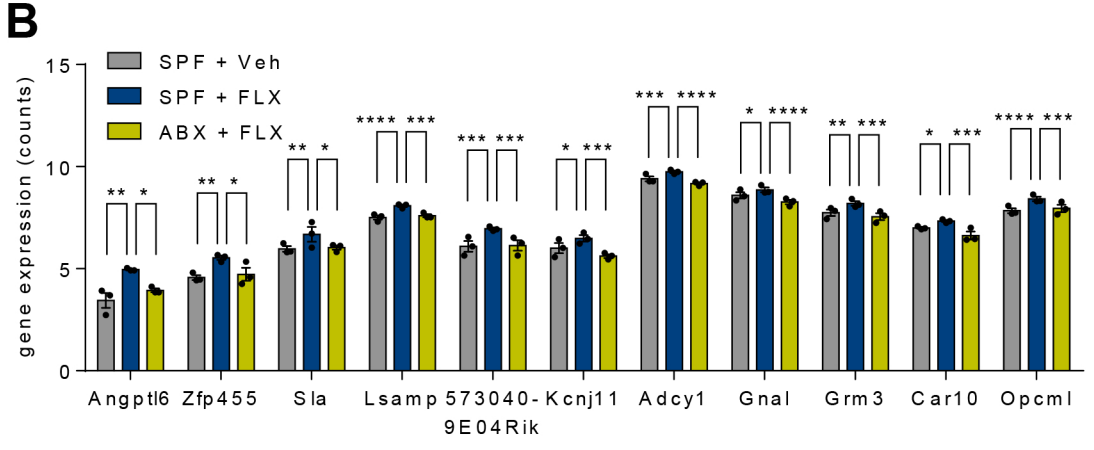


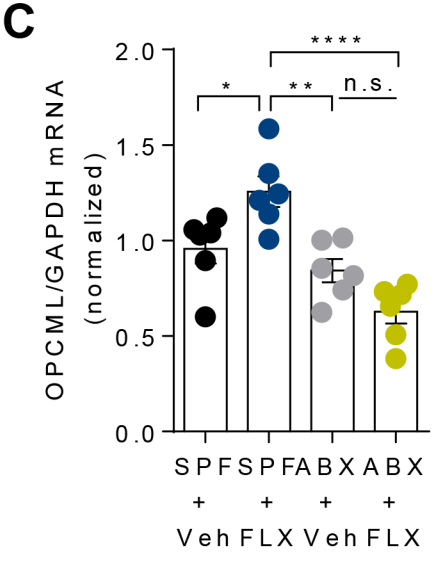

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**Supplementary Table 1: Genes differentially regulated in fetal brains from E14.5 offspring of SPF + Veh, SPF + F**

| gene | SPF + Veh 1 | SPF + Veh 2 | SPF + Veh 3 | SPF + FLX 1 | SPF + FLX 2 | SPF + FLX 3 |
|---|---|---|---|---|---|---|
| 1700021K19Rik | 9.346101469 | 9.338915248 | 9.111202775 | 9.27499792 | 9.221090734 | 9.358617304 |
| 1700030J22Rik | 5.336140447 | 5.690976344 | 5.95875192 | 4.863970092 | 5.21052692 | 4.059575235 |
| 1700048O20Rik | 5.188956249 | 6.305673598 | 5.683462387 | 6.814662667 | 6.569213246 | 5.991704972 |
| 1700084C01Rik | 4.143380003 | 3.974698911 | 3.031034773 | 4.963790449 | 4.557986608 | 4.752037851 |
| 1700108J01Rik | 1.476947654 | 1 | 1 | 1.605542449 | 2.594940123 | 3.22300096 |
| 1700109K24Rik | 7.281549797 | 7.141379091 | 7.245252952 | 7.158041089 | 7.624582834 | 7.851267163 |
| 1810026B05Rik | 9.415617687 | 9.438736133 | 9.385403919 | 9.457307408 | 9.452303112 | 9.393661963 |
| 2210018M11Rik | 9.533187698 | 9.49076391 | 9.971147811 | 9.574444018 | 9.48657402 | 9.609581718 |
| 2210408I21Rik | 7.986029518 | 7.95617194 | 7.68468273 | 7.91211235 | 8.214511904 | 8.290481041 |
| 2310040G24Rik | 2.121272526 | 3.712393585 | 2.72911076 | 3.752118759 | 3.597423784 | 3.780271631 |
| 2310047M10Rik | 6.285557633 | 6.364061526 | 6.540180369 | 5.702349231 | 5.821764658 | 5.923581073 |
| 2510003B16Rik | 3.178288549 | 2.978340632 | 3.493254909 | 1 | 2.007489679 | 1.793876829 |
| 2510009E07Rik | 9.926103553 | 9.768775216 | 9.939749302 | 9.91093719 | 9.920798064 | 9.939960272 |
| 2610020H08Rik | 6.947861633 | 6.634590065 | 6.719919814 | 6.4517769 | 6.087748098 | 6.291080771 |
| 2610305D13Rik | 3.511354355 | 4.144218708 | 3.678570668 | 5.057148905 | 4.072049632 | 4.828538958 |
| 2610524H06Rik | 6.720197947 | 6.787483949 | 5.994117534 | 6.760172391 | 6.897331778 | 7.464562498 |
| 2700029M09Rik | 7.593924365 | 7.799970662 | 7.695465596 | 7.788237489 | 7.988280606 | 8.03198727 |
| 2700094K13Rik | 8.752910114 | 8.59080531 | 8.307755651 | 8.225370976 | 8.290969184 | 7.97422651 |
| 2810004N23Rik | 7.701026658 | 7.770052417 | 7.857856143 | 7.469568968 | 7.511962665 | 6.951852343 |
| 2810013P06Rik | 7.50336876 | 7.479163946 | 6.84140367 | 7.64522093 | 7.589693592 | 7.726871747 |
| 2810417H13Rik | 9.328625742 | 9.044405533 | 9.444125024 | 8.985446693 | 8.765299502 | 8.699822577 |
| 2810459M11Rik | 5.443950196 | 5.846513718 | 5.885308556 | 6.125188133 | 6.029431246 | 6.492610349 |
| 2900011O08Rik | 8.696803675 | 8.629404224 | 8.899038863 | 8.71879587 | 8.862455543 | 8.955743083 |
| 2900026A02Rik | 6.772836778 | 6.886415994 | 7.618236209 | 6.674372271 | 7.150866018 | 6.648457271 |
| 2900060B14Rik | 5.4177436 | 4.558445459 | 5.168191412 | 4.699958789 | 4.382735357 | 3.617319577 |
| 2900092D14Rik | 8.535554284 | 8.147838842 | 8.715226328 | 8.686286504 | 8.751836595 | 8.503800836 |
| 3110039I08Rik | 11.44240821 | 11.40221849 | 11.56965968 | 11.5294615 | 11.59456118 | 11.50048696 |
| 4430402I18Rik | 2.121272526 | 3.093258183 | 1.825170741 | 3.045898796 | 3.126983752 | 3.926671999 |
| 4833422C13Rik | 6.597152809 | 6.566599494 | 6.491514775 | 6.518955674 | 6.984329822 | 6.808115555 |
| 4930447M23Rik | 4.533375098 | 4.03344674 | 4.896407951 | 5.227488897 | 5.043777717 | 5.477553384 |
| 4930471C04Rik | 2.565099681 | 2.978340632 | 1 | 1 | 1 | 1 |
| 4930480K15Rik | 6.92943055 | 7.250648107 | 7.090467934 | 7.279247656 | 7.589693592 | 7.756545074 |
| 4931406C07Rik | 6.032782666 | 6.194223517 | 6.189834702 | 6.567363402 | 6.49573456 | 6.583715671 |
| 4933413G19Rik | 1.834785459 | 2.716760345 | 2.72911076 | 2.625832949 | 3.011219987 | 3.22300096 |
| 4933417O13Rik | 1.834785459 | 1.40785378 | 1 | 1.605542449 | 3.126983752 | 1.793876829 |
| 4933431E20Rik | 6.549672846 | 6.837797832 | 7.023583845 | 7.037212907 | 7.217678952 | 7.244890188 |
| 5031426D15Rik | 6.032782666 | 6.644046623 | 6.761561469 | 6.689031347 | 7.051803628 | 7.113463403 |
| 5730409E04Rik | 5.638047729 | 6.556619606 | 6.09529247 | 7.071182259 | 6.855983658 | 6.934649122 |
| 5830444B04Rik | 1.834785459 | 1 | 1 | 3.635872179 | 1 | 3.433590479 |
| 6330403K07Rik | 10.45194395 | 10.60347423 | 10.28850038 | 10.36570695 | 10.39140551 | 10.6158513 |
| 6430548M08Rik | 8.66094493 | 8.660022799 | 8.510645557 | 8.700825624 | 8.569450464 | 8.759660317 |
| 8030451O07Rik | 7.889215153 | 7.952370979 | 7.68468273 | 8.008763986 | 8.19142666 | 7.940151466 |
| 9130011E15Rik | 7.288797629 | 7.685571983 | 7.500202711 | 7.725628009 | 7.687220289 | 7.982620987 |
| 9130019O22Rik | 6.285557633 | 6.128372165 | 5.922497536 | 5.64335602 | 6.527684741 | 5.852080256 |
| 9330159F19Rik | 10.65067443 | 10.70183555 | 10.79649095 | 10.62780631 | 10.89144181 | 10.70859278 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9330182L06Rik | 8.169980108 | 8.069293504 | 7.536637639 | 8.060413729 | 8.040888925 | 8.242355329 |
| 9430020K01Rik | 7.968082659 | 7.581141728 | 7.986347078 | 8.0938474 | 8.059222188 | 8.04807432 |
| 9430021M05Rik | 3.697138272 | 3.298813141 | 3.678570668 | 4.811344491 | 4.638225882 | 4.494694577 |
| 9430076C15Rik | 6.148854342 | 6.352571455 | 6.632847408 | 5.840069872 | 5.984092579 | 4.828538958 |
| 9530059O14Rik | 7.128377482 | 6.837797832 | 5.95875192 | 6.689031347 | 6.538179474 | 6.934649122 |
| 9930104L06Rik | 7.191610894 | 6.910124163 | 7.023583845 | 6.990639276 | 7.15768828 | 6.648457271 |
| A230077H06Rik | 4.67286394 | 5.4098024 | 5.448709844 | 4.053408608 | 4.335381646 | 4.397591105 |
| A2m | 6.211215576 | 6.956402762 | 5.726154136 | 6.081411933 | 6.506463432 | 6.710417912 |
| A830011K09Rik | 4.80004717 | 4.745775733 | 5.547239836 | 4.376833985 | 4.855205563 | 4.059575235 |
| A830080D01Rik | 8.571657212 | 8.541057492 | 8.492211903 | 8.653027659 | 8.699032582 | 8.486196965 |
| A930004D18Rik | 6.195876154 | 6.566599494 | 6.587257783 | 5.840069872 | 6.129989072 | 5.852080256 |
| Aatk | 8.747659671 | 8.734948181 | 8.504527138 | 8.818827371 | 8.535805754 | 8.798216354 |
| Abca1 | 10.28348632 | 10.33084205 | 10.3201978 | 10.35195507 | 10.36585709 | 10.26474655 |
| Abca2 | 9.176730549 | 9.313953508 | 9.241993544 | 9.313349497 | 9.373912819 | 9.633767706 |
| Abcb7 | 9.198059606 | 9.056849367 | 9.166500989 | 9.049329502 | 9.16801822 | 9.026464761 |
| Abcc8 | 6.513008451 | 7.044731214 | 6.898513064 | 6.551407287 | 7.0370798 | 7.244890188 |
| Abhd17b | 8.181707737 | 8.134482339 | 8.314765989 | 7.979250015 | 8.167966003 | 8.071873474 |
| Abhd8 | 8.731792711 | 8.841537664 | 8.516738137 | 8.637996215 | 8.656315924 | 8.735028825 |
| Abi2 | 10.9675936 | 10.99529229 | 10.8944987 | 10.90001824 | 11.09574448 | 11.02230896 |
| Abi3 | 3.047666507 | 2.716760345 | 1.825170741 | 3.509431521 | 2.747440291 | 2.67860439 |
| Abl1 | 10.26155144 | 10.10809103 | 10.38491145 | 10.12011225 | 9.904666785 | 10.17968691 |
| Ablim1 | 8.982564457 | 9.201566139 | 9.245666435 | 9.171799586 | 9.280116701 | 9.289253594 |
| Ablim2 | 5.219618891 | 5.270214764 | 4.561255977 | 4.224165625 | 5.262085683 | 5.852080256 |
| Ablim3 | 8.093405717 | 8.507776492 | 8.220861814 | 8.444226815 | 8.501357653 | 8.480280949 |
| Acan | 1.834785459 | 1 | 2.72911076 | 1.605542449 | 2.007489679 | 2.976330056 |
| Acap3 | 9.438607959 | 9.460308319 | 9.411797686 | 9.389369025 | 9.298753038 | 9.479204869 |
| Ackr1 | 5.4177436 | 4.879886885 | 5.228828563 | 5.891676346 | 5.359984332 | 6.024597402 |
| Acot7 | 8.806916008 | 8.907805273 | 8.751845482 | 8.946323819 | 8.758583753 | 8.774239848 |
| Acpp | 2.565099681 | 1.985596612 | 1 | 1 | 1 | 2.303023309 |
| Acr | 5.868356087 | 5.431808275 | 6.220020382 | 5.61292943 | 5.537856244 | 6.207605066 |
| Acsl3 | 9.51166721 | 9.293067455 | 9.472612952 | 9.373575012 | 9.267557374 | 9.25501321 |
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| Acta2 | 4.916921051 | 4.879886885 | 4.123905703 | 5.101656215 | 4.183213222 | 4.397591105 |
| Actl6b | 8.526385598 | 8.585907017 | 8.782510115 | 8.61898396 | 8.612295778 | 8.674138638 |
| Actr1a | 11.04721297 | 11.00403994 | 10.93941396 | 11.06504195 | 10.90772081 | 11.05252647 |
| Adam12 | 6.423650789 | 6.566599494 | 5.847135518 | 6.249069934 | 6.452002941 | 6.178670863 |
| Adam21 | 4.627849702 | 5.245578321 | 4.123905703 | 2.851100857 | 3.887381517 | 3.22300096 |
| Adamts1 | 7.222217761 | 7.510521207 | 7.424450483 | 7.229976337 | 7.24995982 | 7.403351065 |
| Adamts10 | 9.243529293 | 9.15602381 | 9.115223714 | 8.924809803 | 9.082767755 | 8.849602658 |
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| Adamts15 | 6.654386342 | 6.305673598 | 5.448709844 | 5.450355447 | 6.312243287 | 5.656095563 |
| Adamts17 | 6.62031939 | 6.744172339 | 6.278560623 | 6.167675041 | 6.91354482 | 6.5159317 |
| Adamts2 | 5.443950196 | 5.294437552 | 4.652620793 | 5.343221434 | 5.157057049 | 6.119001134 |
| Adamts9 | 6.833568491 | 6.576510821 | 6.698639411 | 6.518955674 | 6.91354482 | 6.468905804 |
| Adamtsl1 | 5.997828709 | 5.862804336 | 4.896407951 | 6.502451963 | 6.336497133 | 6.024597402 |
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| Adcy1 | 9.278536596 | 9.644723124 | 9.281890039 | 9.641924457 | 9.749615404 | 9.839556496 |
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| Adcyap1r1 | 9.466040978 | 9.562334449 | 9.652153923 | 9.528316673 | 9.742826074 | 9.761215419 |
| Adgra3 | 7.366209338 | 7.141379091 | 7.057413452 | 7.115265253 | 7.243561171 | 6.769826698 |
| Adgrb2 | 9.654573683 | 9.675021676 | 9.690388022 | 9.837176609 | 9.557932647 | 9.862480081 |
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| Adgrg6 | 5.188956249 | 4.476126405 | 3.678570668 | 5.011224712 | 5.129560124 | 4.585672437 |
| Adgrl4 | 6.049947112 | 6.281640304 | 5.807924923 | 6.644599561 | 6.696475136 | 6.5159317 |
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| Adora1 | 5.726108215 | 5.616073469 | 5.287019574 | 5.840069872 | 6.101966287 | 6.317866116 |
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| Aebp2 | 9.30558615 | 9.144409993 | 9.296128597 | 9.291902318 | 9.338324395 | 9.147128257 |
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| Aggf1 | 8.829456528 | 8.804066247 | 9.095006004 | 8.595833508 | 8.457798746 | 8.621356935 |
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| Aip | 6.585428507 | 7.127962371 | 7.548580966 | 6.746222061 | 6.210932461 | 6.538882047 |
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| Akap12 | 10.10612171 | 10.02638538 | 10.06352273 | 10.00327287 | 9.881157436 | 9.918244396 |
| Akap13 | 9.876454579 | 9.871975961 | 10.0148496 | 9.776699747 | 9.772018489 | 9.773362192 |
| Akap9 | 12.83049905 | 12.94439387 | 12.88896457 | 12.85649661 | 12.86954536 | 12.88964432 |
| Akr1c12 | 1 | 1.40785378 | 1 | 1.605542449 | 1.742960444 | 1.793876829 |
| Alas2 | 8.201044388 | 8.256637645 | 8.492211903 | 8.805435425 | 8.281630696 | 8.509621381 |
| Aldh16a1 | 6.762461539 | 7.225672326 | 6.802034831 | 6.268720836 | 6.484925303 | 6.344163211 |
| Aldh1l1 | 7.840725169 | 7.959962914 | 7.288625645 | 7.614834063 | 7.847700302 | 7.832813749 |
| Aldh2 | 8.374570657 | 8.100539865 | 8.328685292 | 7.886902698 | 7.822162881 | 8.023875973 |
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| Alms1 | 10.30330446 | 10.29227019 | 10.2060692 | 10.05370086 | 10.13558386 | 9.992861547 |
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| Amigo2 | 6.537554618 | 6.141785093 | 6.09529247 | 5.759024621 | 5.821764658 | 5.737711018 |
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| Amz2 | 9.853420476 | 9.823900798 | 9.796861201 | 9.774983106 | 9.696728521 | 9.719134247 |
| Angptl6 | 3.697138272 | 3.913456893 | 2.72911076 | 4.914743422 | 4.920840026 | 5.036351157 |
| Ank2 | 11.95439322 | 11.97598488 | 12.03415148 | 11.97224057 | 12.02755802 | 12.12001788 |
| Ankrd11 | 10.9292652 | 10.89391024 | 11.27661531 | 11.08803729 | 10.8760116 | 11.01618876 |
| Ankrd12 | 10.39431253 | 10.48152259 | 10.42757378 | 10.44341425 | 10.49739176 | 10.68692383 |
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| Ankrd29 | 5.443950196 | 4.847509657 | 5.168191412 | 5.673154141 | 6.073388388 | 5.776850189 |
| Ankrd37 | 5.768201518 | 5.364757319 | 5.038690263 | 4.224165625 | 4.286420738 | 4.671251885 |
| Ankrd49 | 7.588060991 | 7.581141728 | 7.629525334 | 7.652718685 | 7.574478845 | 7.390790838 |
| Anks1b | 9.438607959 | 9.688793859 | 9.469475264 | 9.62677627 | 9.671924503 | 9.673197903 |
| Anln | 8.89028205 | 8.602978775 | 9.086838916 | 8.515867036 | 8.607320697 | 8.276893869 |
| Anp32a | 10.31488848 | 10.38683256 | 10.48618962 | 10.56561646 | 10.13212409 | 10.34669592 |
| Anp32b | 7.079064482 | 6.293706996 | 7.487850347 | 7.30802245 | 6.968897231 | 6.863708404 |
| Anp32e | 9.950301668 | 9.756839142 | 10.02129217 | 10.01058568 | 9.814728573 | 9.724149156 |
| Antxr1 | 7.58217369 | 6.978997016 | 7.398289287 | 7.696904902 | 7.574478845 | 7.69657526 |
| Anxa2 | 8.297618446 | 8.433375223 | 8.205856719 | 8.12652378 | 8.08807928 | 8.337053056 |
| Anxa3 | 6.423650789 | 6.293706996 | 6.388963369 | 5.813557456 | 5.714808604 | 5.217963548 |
| Anxa5 | 7.515776323 | 7.685571983 | 7.023583845 | 7.08232993 | 6.830593737 | 6.985655341 |
| Anxa6 | 8.374570657 | 8.241143333 | 7.959760344 | 7.979250015 | 8.137230627 | 8.163328226 |
| Ap1m2 | 1.476947654 | 2.56572585 | 1 | 1 | 1.418787199 | 1.793876829 |
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| Apbb2 | 9.929585375 | 9.88499531 | 10.02129217 | 9.861645763 | 9.978770316 | 10.0873516 |
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| Apc | 12.77416105 | 12.83317655 | 12.90908008 | 12.83976104 | 12.9485046 | 12.97600128 |
| Apoa1 | 5.249643377 | 3.39155842 | 5.448709844 | 3.509431521 | 2.594940123 | 1 |
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| Aqp1 | 6.100248163 | 5.672612041 | 5.104893407 | 5.61292943 | 6.23693491 | 5.099463222 |
| Arap1 | 6.47538792 | 6.576510821 | 6.93536751 | 6.502451963 | 6.538179474 | 5.656095563 |
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| Arfgef3 | 8.987027193 | 9.031853431 | 8.693876066 | 8.861512083 | 9.091701221 | 9.018322268 |
| Arhgap11a | 9.170858387 | 8.882062009 | 9.551885811 | 9.240583044 | 9.176440585 | 9.014233722 |
| Arhgap12 | 10.08233569 | 10.10467042 | 9.96001234 | 9.995922792 | 10.1303911 | 10.02775742 |
| Arhgap19 | 8.275899006 | 8.058725832 | 8.369655123 | 8.12652378 | 7.953418955 | 7.62330656 |
| Arhgap21 | 11.35274893 | 11.26300939 | 11.48518345 | 11.31231304 | 11.34435176 | 11.27215904 |
| Arhgap24 | 5.925272757 | 6.114833364 | 5.168191412 | 5.144831462 | 5.3361254 | 5.776850189 |
| Arhgap26 | 6.87268094 | 6.761653322 | 6.415292686 | 6.814662667 | 7.27527434 | 7.158615784 |
| Arhgap28 | 7.43967799 | 7.375115526 | 6.466552201 | 6.917832351 | 6.86434863 | 6.317866116 |
| Arhgap32 | 10.16540296 | 10.169952 | 10.45638715 | 10.23694963 | 10.20720808 | 10.30043917 |
| Arhgap33 | 9.415617687 | 9.198360365 | 9.769057672 | 9.713576389 | 9.289464962 | 9.832607787 |
| Arhgef10 | 7.825854568 | 7.447109957 | 7.45014572 | 7.5993972 | 7.412795491 | 6.899614759 |
| Arhgef15 | 6.211215576 | 6.699520106 | 5.683462387 | 6.773989117 | 6.7695529 | 6.605620608 |

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| Arhgef28 | 7.176060468 | 7.079996201 | 7.18531667 | 7.426478983 | 7.446614287 | 7.034919655 |
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| Arid1a | 11.16118733 | 11.08134022 | 11.63343018 | 11.19332615 | 11.13775534 | 11.42550007 |
| Arid2 | 11.04186084 | 10.98556173 | 11.22545365 | 11.01937233 | 11.08146453 | 11.04853385 |
| Arid4a | 9.10873727 | 9.13940388 | 9.230918434 | 9.060646649 | 9.073778625 | 9.219940381 |
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| Arl5b | 9.361650651 | 9.23636736 | 9.313731426 | 9.166571642 | 9.111162273 | 9.034561557 |
| Armc6 | 7.668055912 | 7.83754723 | 7.572175032 | 7.426478983 | 7.506628612 | 7.726871747 |
| Armc8 | 9.579727749 | 9.537179172 | 9.51887733 | 9.467971694 | 9.663560816 | 9.688673104 |
| Armcx3 | 7.622889029 | 7.605548371 | 7.411429183 | 7.568018935 | 7.715237468 | 7.686333379 |
| Armcx4 | 11.07734673 | 10.96165347 | 11.21799445 | 11.06854974 | 11.04006597 | 11.16375248 |
| Armt1 | 6.573608143 | 6.744172339 | 7.090467934 | 6.4517769 | 6.705814869 | 6.56147301 |
| Arnt | 8.340100329 | 8.422426187 | 8.633479495 | 8.697204558 | 8.527928886 | 8.744931943 |
| Arpc4 | 8.624172134 | 8.714896838 | 8.479790635 | 8.448540874 | 8.432706266 | 8.642701895 |
| Arpp19 | 9.817538457 | 9.818690855 | 9.973364629 | 9.868101382 | 10.0908379 | 9.997011024 |
| Arpp21 | 8.955494197 | 9.349069385 | 9.154828502 | 9.310982162 | 9.306447684 | 9.625750677 |
| Arrdc1 | 5.307880412 | 5.796508198 | 6.127499866 | 4.863970092 | 5.043777717 | 5.099463222 |
| Arx | 8.504762638 | 8.354927372 | 8.736265233 | 8.395900718 | 8.150971694 | 8.33049125 |
| Asap1 | 8.902145364 | 8.810379461 | 8.908337734 | 8.976512044 | 9.070167232 | 8.981101413 |
| Asb1 | 8.510973767 | 8.40306312 | 8.112393197 | 8.345899565 | 8.614776899 | 8.221228213 |
| Asb7 | 8.495395517 | 8.543586049 | 7.995101547 | 8.391426095 | 8.287863066 | 8.148482721 |
| Ascl1 | 7.94990973 | 7.600699962 | 8.088049603 | 7.435200555 | 7.342682475 | 7.655164122 |
| Asic4 | 8.485967179 | 8.284114845 | 7.789047758 | 7.880530849 | 7.778569541 | 7.77599356 |
| Aspm | 10.62441776 | 10.3315738 | 10.54549957 | 10.23445344 | 10.19979048 | 10.17236694 |
| Astn1 | 11.0273101 | 11.16089757 | 11.20861589 | 11.11813846 | 11.23328962 | 11.24537551 |
| Astn2 | 8.638426655 | 8.784959135 | 8.435454165 | 8.711634609 | 8.495984171 | 8.658505892 |
| Atad2 | 9.727061956 | 9.474954273 | 9.971147811 | 9.628678515 | 9.460602681 | 9.514368358 |
| Atad5 | 9.215279113 | 9.129339236 | 9.444125024 | 9.284681817 | 9.093481296 | 9.180349186 |
| Atf2 | 10.09995437 | 10.03988071 | 10.13259396 | 10.02365607 | 10.19067242 | 10.21751902 |
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| Atg13 | 7.471874817 | 7.323081463 | 7.215596043 | 7.5993972 | 7.318533265 | 7.3781203 |
| Atn1 | 7.870014287 | 7.643759998 | 8.989435741 | 8.591938723 | 7.710605559 | 8.730051656 |
| Atoh1 | 2.904029779 | 3.712393585 | 1 | 2.030760869 | 2.230948887 | 4.494694577 |
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| Atp11c | 10.29252832 | 10.13012949 | 10.18709348 | 10.21938491 | 10.22518105 | 10.16869298 |
| Atp13a5 | 3.047666507 | 2.853470894 | 3.031034773 | 3.045898796 | 3.514815644 | 3.433590479 |
| Atp1b1 | 8.431343825 | 8.299156817 | 7.86742339 | 8.426840409 | 8.46606685 | 8.356561279 |
| Atp2b3 | 7.222217761 | 7.369425779 | 6.632847408 | 7.059947778 | 7.348657141 | 7.230864661 |
| Atp2b4 | 9.178682637 | 9.147737777 | 9.320712856 | 9.364471618 | 9.259651908 | 9.396806029 |
| Atp5b | 12.53378521 | 12.52836182 | 12.46944764 | 12.39149321 | 12.35645377 | 12.29746098 |
| Atp5e | 8.638426655 | 8.598121708 | 7.857856143 | 8.099345118 | 8.378255139 | 8.263177516 |
| Atp5g2 | 8.158156364 | 8.337547416 | 8.435454165 | 8.317877694 | 8.150971694 | 7.823497767 |
| Atp5l | 8.07675356 | 8.08326439 | 7.758523245 | 7.630107498 | 7.742720901 | 7.756545074 |
| Atp5o | 9.871635762 | 9.906763876 | 9.804351901 | 9.868101382 | 9.798450906 | 9.724149156 |
| Atp6ap2 | 9.024413216 | 8.878060416 | 8.650203623 | 8.91860355 | 8.990251947 | 8.894780508 |
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| Atp6v0e2 | 8.925583285 | 9.000907218 | 8.822408023 | 8.822156023 | 8.9076739 | 8.989456097 |

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| Atp6v1g2 | 5.4177436 | 5.318260347 | 5.448709844 | 6.146587985 | 5.696185499 | 6.088214528 |
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| Atp9a | 10.76747351 | 10.85117267 | 10.71139684 | 10.75690583 | 10.79682988 | 10.83334721 |
| Atrx | 12.35478941 | 12.39802216 | 12.46196802 | 12.47236863 | 12.46322377 | 12.59817502 |
| Atxn2l | 9.500785374 | 9.571036186 | 9.979994716 | 9.752478876 | 9.405781861 | 9.647031206 |
| Atxn7 | 8.421485998 | 8.328778287 | 8.655735526 | 8.678961627 | 8.477017792 | 8.538376983 |
| AU041133 | 7.722595849 | 7.671768861 | 7.398289287 | 7.614834063 | 7.715237468 | 7.601670527 |
| Aunip | 4.533375098 | 4.388824542 | 4.123905703 | 4.053408608 | 3.597423784 | 2.976330056 |
| Auts2 | 10.86039838 | 10.93107927 | 11.32689172 | 11.08941923 | 10.97251149 | 11.2145261 |
| Avil | 5.615166341 | 5.616073469 | 4.738542537 | 3.85969309 | 3.011219987 | 5.327464956 |
| Avl9 | 10.71463499 | 10.63641991 | 10.66689048 | 10.60672955 | 10.70840968 | 10.66100715 |
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| AW549542 | 1.476947654 | 1.985596612 | 1 | 1 | 1.418787199 | 2.303023309 |
| AW549877 | 9.564878237 | 9.512868417 | 9.581251927 | 9.411636119 | 9.688507808 | 9.606869186 |
| AW551984 | 9.153097115 | 9.40158529 | 9.041074296 | 9.301473782 | 9.457841459 | 9.41862471 |
| Azin1 | 10.67715236 | 10.70183555 | 10.6517446 | 10.71095955 | 10.68321649 | 10.77292316 |
| B230307C23Rik | 5.615166341 | 5.4098024 | 5.287019574 | 4.963790449 | 5.451659813 | 5.888273572 |
| B230323A14Rik | 2.904029779 | 4.295897557 | 4.359090506 | 2.625832949 | 3.597423784 | 3.433590479 |
| B3galt1 | 8.197197736 | 8.47370958 | 8.498382661 | 8.215279243 | 8.604826709 | 8.637395189 |
| B3gat2 | 6.62031939 | 6.886415994 | 6.563911094 | 7.071182259 | 7.123249702 | 7.082557119 |
| B3gnt5 | 9.640478591 | 9.56979629 | 9.54594017 | 9.594048355 | 9.640611889 | 9.223486283 |
| B3gnt9 | 5.188956249 | 5.169039459 | 5.342954171 | 5.305666106 | 4.557986608 | 5.852080256 |
| B430212C06Rik | 2.904029779 | 3.56087634 | 2.346809092 | 1.605542449 | 1.418787199 | 1 |
| B4galnt3 | 2.121272526 | 1 | 1 | 2.358763209 | 2.230948887 | 1 |
| Bach2 | 9.863163908 | 9.886987899 | 10.24144959 | 10.13088956 | 10.08548125 | 10.07366486 |
| Baiap2l1 | 5.638047729 | 6.207040629 | 6.249587406 | 5.517598924 | 5.638828837 | 5.524302751 |
| Baz2a | 9.816285087 | 9.664605568 | 10.05308042 | 9.768096041 | 9.601116298 | 9.595967765 |
| Baz2b | 11.21115701 | 11.17930705 | 11.34754754 | 11.13027382 | 11.13947952 | 11.15913101 |
| BC004004 | 7.968082659 | 8.090199423 | 7.838529183 | 8.049094748 | 8.04825021 | 7.97422651 |
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| BC029214 | 6.803522181 | 7.180896481 | 6.761561469 | 6.801231826 | 7.022204154 | 6.808115555 |
| BC037032 | 3.298059683 | 3.199693499 | 3.280577348 | 4.224165625 | 5.043777717 | 3.433590479 |
| BC037034 | 8.322551313 | 8.433375223 | 8.307755651 | 8.121128854 | 8.204663426 | 8.350087804 |
| BC037704 | 3.298059683 | 4.433135735 | 2.346809092 | 3.635872179 | 3.9516001 | 2.976330056 |
| Bcam | 6.066909744 | 5.270214764 | 5.342954171 | 4.51488159 | 4.888396012 | 4.671251885 |
| Bcap29 | 6.083675251 | 6.030818731 | 5.396800833 | 5.866103848 | 6.474034446 | 6.710417912 |
| Bccip | 7.303184965 | 7.28731932 | 7.500202711 | 7.199585062 | 7.230678103 | 7.018684418 |
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| Bcl11b | 10.85857299 | 10.8884503 | 11.32168122 | 11.01501575 | 10.98119092 | 11.15913101 |
| Bcl2l12 | 6.314253981 | 5.926187346 | 6.362144593 | 5.702349231 | 5.733194373 | 6.024597402 |
| Bcl9 | 9.086035146 | 9.010078155 | 9.649383748 | 9.325128254 | 9.08813447 | 9.482168117 |
| Bclaf1 | 11.68933786 | 11.82411337 | 11.82666253 | 11.78791392 | 11.67789652 | 11.73531428 |
| Bcorl1 | 7.874838514 | 7.986224415 | 8.167646663 | 8.08278871 | 7.769690545 | 7.965782904 |
| Bdh1 | 8.960041328 | 9.108996827 | 9.107170597 | 8.927902946 | 9.145887143 | 8.976905857 |
| Bend6 | 6.449751263 | 6.854186607 | 6.917057967 | 6.954695048 | 7.059109572 | 6.881773285 |
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| Blm | 8.538597609 | 8.322902449 | 8.822408023 | 8.444226815 | 8.410029451 | 8.375809226 |
| Blmh | 9.572322099 | 9.611366203 | 9.469475264 | 9.322780184 | 9.280116701 | 8.916849748 |
| Bloc1s1 | 7.668055912 | 7.694701238 | 7.950788095 | 7.527811331 | 7.318533265 | 7.62330656 |
| Bmf | 7.617142431 | 7.352220649 | 7.385028612 | 7.126078702 | 7.014708414 | 7.326295136 |
| Bmi1 | 9.988638917 | 9.862893243 | 10.01914784 | 9.952537727 | 9.902637634 | 9.954969208 |
| Bmpr1a | 10.02706761 | 9.848649922 | 10.01269567 | 9.926485008 | 9.974912761 | 9.882804426 |
| Bmpr2 | 11.51489378 | 11.4195294 | 11.64876853 | 11.46969612 | 11.59173019 | 11.53442813 |
| Bora | 7.605580105 | 7.386428141 | 7.673818665 | 7.239966139 | 7.150866018 | 7.216701442 |
| Bphl | 6.180371882 | 6.505657584 | 6.698639411 | 6.399256858 | 6.324421177 | 6.605620608 |
| Bptf | 11.53446228 | 11.57993753 | 11.76145325 | 11.59902837 | 11.55344298 | 11.66273018 |
| Brca1 | 9.000333165 | 8.789227082 | 8.777444392 | 8.660485057 | 8.668309087 | 8.163328226 |
| Brca2 | 9.28217264 | 9.237929461 | 9.208509841 | 9.099571837 | 9.08813447 | 9.026464761 |
| Brd3 | 10.3403994 | 10.24022205 | 10.50776197 | 10.19648283 | 10.28715761 | 10.3221001 |
| Brd4 | 9.323341477 | 9.142743218 | 9.975578045 | 9.615309828 | 9.246912362 | 9.746502994 |
| Brd8 | 10.37741453 | 10.52631505 | 10.35631884 | 10.30870899 | 10.24533673 | 10.15204339 |
| Brinp1 | 7.954474468 | 8.107392546 | 8.003803213 | 8.26993005 | 8.102294222 | 8.497956714 |
| Brix1 | 7.634314007 | 7.53614148 | 8.152074704 | 7.997030751 | 8.211236542 | 8.079720074 |
| Brox | 9.665751439 | 9.733774172 | 9.595713829 | 9.607614589 | 9.681424005 | 9.623068404 |
| Brwd3 | 9.269406189 | 9.333080634 | 9.317226364 | 9.409424811 | 9.116424586 | 8.955743083 |
| Btbd19 | 3.408645243 | 4.03344674 | 4.246285218 | 3.509431521 | 3.427188559 | 3.22300096 |
| Btf3 | 10.35945599 | 10.38118892 | 10.29383188 | 10.25307044 | 10.35995338 | 10.23343393 |
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| Bub3 | 9.412303249 | 9.425087857 | 9.660432676 | 9.233100394 | 9.22920975 | 9.139640778 |
| Bzrap1 | 10.14058055 | 10.20631296 | 10.17173113 | 10.22190728 | 10.22842494 | 10.36767829 |
| C130030K03Rik | 6.803522181 | 6.42017804 | 6.388963369 | 6.773989117 | 7.217678952 | 7.244890188 |
| C130071C03Rik | 9.41396142 | 9.13940388 | 9.51887733 | 9.301473782 | 9.338324395 | 9.505657507 |
| C1qtnf4 | 7.420009252 | 7.770052417 | 7.274312476 | 7.568018935 | 7.007173525 | 7.50008031 |
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| C330006A16Rik | 6.901334763 | 6.986450479 | 7.512450212 | 7.025709693 | 6.474034446 | 6.863708404 |
| C330027C09Rik | 8.96230953 | 8.655354339 | 8.856435913 | 8.435559803 | 8.687293155 | 8.363005837 |
| C530008M17Rik | 10.59109354 | 10.49006876 | 10.99502479 | 10.45418134 | 10.44815685 | 10.76686071 |
| C77370 | 10.27985358 | 10.61072682 | 10.26878123 | 10.43147688 | 10.59988382 | 10.70225328 |
| Cacna1b | 10.50191441 | 10.60347423 | 10.52901651 | 10.50684347 | 10.65516699 | 10.67790586 |
| Cacna1d | 8.638426655 | 8.765595566 | 8.599438142 | 8.778272729 | 9.04094595 | 9.090001383 |
| Cacna1e | 10.57784118 | 10.77574951 | 10.71669943 | 10.62875706 | 10.8483416 | 10.91016676 |
| Cacna1h | 10.1791192 | 10.15762513 | 10.14837646 | 10.01931242 | 10.06657479 | 10.33527003 |
| Cacnb4 | 8.861405641 | 8.82708087 | 8.812536511 | 9.026425344 | 8.841423683 | 9.169360322 |
| Cadm1 | 10.57562057 | 10.58333953 | 10.54698873 | 10.59218043 | 10.7147844 | 10.69588579 |
| Cadm2 | 9.256525758 | 9.294569385 | 9.385403919 | 9.310982162 | 9.679054987 | 9.905056218 |
| Cadps | 11.00932422 | 11.04744531 | 10.878028 | 10.88179031 | 10.98886238 | 10.90244508 |
| Calb2 | 6.752011146 | 7.015885123 | 6.781940076 | 6.85422089 | 7.14401134 | 7.034919655 |
| Calca | 1.476947654 | 2.56572585 | 3.678570668 | 3.217496026 | 2.594940123 | 3.617319577 |
| Calm1 | 12.30405197 | 12.27350808 | 12.14105547 | 12.18076653 | 12.25751323 | 12.27585105 |
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|---|---|---|---|---|---|---|
| Camk2b | 8.836892448 | 9.117507716 | 8.949456506 | 9.023536586 | 9.25010781 | 9.322700134 |
| Camk2n2 | 6.449751263 | 6.812860216 | 6.220020382 | 7.08232993 | 6.86434863 | 6.917238285 |
| Camk4 | 8.231453863 | 8.808278125 | 8.220861814 | 8.56834659 | 8.854079556 | 8.793452825 |
| Camkk2 | 9.000333165 | 8.95225525 | 8.962906393 | 8.902970099 | 8.756338204 | 9.006021706 |
| Camkv | 7.628612828 | 7.921597309 | 7.572175032 | 7.469568968 | 7.774136874 | 7.905252094 |
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| Camsap2 | 11.38734398 | 11.48972106 | 11.46011013 | 11.41673568 | 11.52041123 | 11.58008989 |
| Camta1 | 10.41681535 | 10.43325085 | 10.59240651 | 10.42163595 | 10.37759254 | 10.44413135 |
| Capn2 | 9.312714524 | 9.377693499 | 9.189566409 | 9.40277048 | 9.132097329 | 9.180349186 |
| Capn6 | 6.449751263 | 5.894843895 | 5.639468694 | 5.517598924 | 5.579097119 | 5.923581073 |
| Capn7 | 9.929585375 | 9.94743148 | 9.781762102 | 10.00033733 | 9.866657544 | 10.01144092 |
| Capns2 | 3.607234804 | 3.913456893 | 2.72911076 | 3.217496026 | 3.9516001 | 2.976330056 |
| Caprin1 | 12.73373831 | 12.77720294 | 12.87035002 | 12.65378439 | 12.6368352 | 12.6990448 |
| Capzb | 8.991476167 | 8.948443942 | 9.372023724 | 9.057825674 | 8.901590584 | 8.894780508 |
| Car10 | 6.984032096 | 7.079996201 | 6.93536751 | 7.336234532 | 7.412795491 | 7.244890188 |
| Car5b | 3.781766418 | 3.56087634 | 3.678570668 | 4.302518316 | 3.675556897 | 4.752037851 |
| Casc4 | 9.875251383 | 9.812413986 | 9.758812957 | 10.08590467 | 10.01960038 | 10.02572792 |
| Casc5 | 9.83249458 | 9.644723124 | 9.939749302 | 9.588194975 | 9.602367043 | 9.548695143 |
| Cbln4 | 5.059341058 | 5.088211387 | 3.842769234 | 5.267106973 | 5.537856244 | 5.888273572 |
| Cbr4 | 5.726108215 | 5.878913056 | 5.807924923 | 5.343221434 | 5.359984332 | 5.923581073 |
| Cbx2 | 8.902145364 | 8.863966783 | 8.83221245 | 8.715219683 | 8.493289907 | 8.621356935 |
| Cbx5 | 12.86576121 | 12.79800167 | 12.97611142 | 12.7915444 | 12.78999795 | 12.6888205 |
| Cc2d1a | 8.003755861 | 7.886173697 | 8.272183702 | 8.137253483 | 8.051916815 | 8.235347278 |
| Ccar1 | 10.38504313 | 10.55354176 | 10.85536982 | 10.45739586 | 10.48727213 | 10.53825069 |
| Ccdc102a | 5.925272757 | 6.045165342 | 5.76761879 | 5.96578166 | 5.516785121 | 6.056756594 |
| Ccdc106 | 6.299977155 | 6.5465702 | 6.516052763 | 6.502451963 | 6.287574716 | 6.444805259 |
| Ccdc112 | 6.720197947 | 6.993865632 | 7.057413452 | 7.199585062 | 7.087968895 | 7.018684418 |
| Ccdc124 | 8.347060598 | 8.302146483 | 8.356127376 | 8.002909297 | 7.851912933 | 7.69657526 |
| Ccdc138 | 6.573608143 | 6.474193269 | 6.610232669 | 6.644599561 | 6.171028365 | 6.291080771 |
| Ccdc149 | 5.962006808 | 6.101166306 | 6.388963369 | 6.013151561 | 6.569213246 | 6.395361653 |
| Ccdc150 | 3.178288549 | 3.298813141 | 3.031034773 | 3.045898796 | 2.424393538 | 2.303023309 |
| Ccdc159 | 5.519829329 | 5.57711136 | 5.287019574 | 6.059015424 | 6.101966287 | 6.178670863 |
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| Ccdc23 | 8.038568223 | 7.894121119 | 7.905070272 | 7.801789279 | 7.933681068 | 8.023875973 |
| Ccdc30 | 6.720197947 | 6.804450958 | 6.953447591 | 7.025709693 | 6.961118584 | 7.464562498 |
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| Ccdc66 | 8.437878486 | 8.60540119 | 8.62222139 | 8.426840409 | 8.446700378 | 8.256270125 |
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| Ccdc8 | 6.843446461 | 6.795992396 | 6.698639411 | 6.760172391 | 6.60957971 | 6.344163211 |
| Ccdc80 | 5.887578888 | 6.257199856 | 5.594091143 | 6.208946435 | 5.872409042 | 5.991704972 |
| Ccdc85a | 7.206995492 | 7.16784392 | 7.344499199 | 7.126078702 | 7.495900972 | 7.173357913 |
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| Ccl27a | 7.558381255 | 7.615196579 | 8.038094343 | 7.288903163 | 7.177963611 | 7.3781203 |
| Ccm2 | 7.879646662 | 7.757037911 | 7.424450483 | 7.452487101 | 7.389801017 | 7.655164122 |

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|---|---|---|---|---|---|---|
| Ccna2 | 9.99972339 | 9.770934841 | 10.03621389 | 9.662496867 | 9.674305249 | 9.636430179 |
| Ccnd1 | 9.96394909 | 9.731558154 | 9.997527416 | 9.920285973 | 9.556642763 | 9.587737299 |
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| Ccnd3 | 7.628612828 | 7.386428141 | 7.706168466 | 7.178962608 | 6.999599076 | 7.128671755 |
| Ccnk | 7.35243993 | 7.520823978 | 8.128397009 | 7.399993384 | 7.479658448 | 7.47649919 |
| Ccrl2 | 2.565099681 | 1.725454411 | 3.031034773 | 2.358763209 | 2.007489679 | 2.303023309 |
| Ccser2 | 10.25601521 | 10.39665611 | 10.36647518 | 10.35999292 | 10.45093666 | 10.47569607 |
| Cd34 | 8.113954211 | 7.898078472 | 8.279368605 | 7.711337936 | 7.533103826 | 7.676018269 |
| Cd55 | 5.391052138 | 4.433135735 | 4.359090506 | 4.51488159 | 4.638225882 | 2.976330056 |
| Cd63 | 5.768201518 | 5.596723939 | 5.448709844 | 6.013151561 | 5.451659813 | 5.477553384 |
| Cd9 | 6.116632854 | 5.709109819 | 5.683462387 | 5.813557456 | 5.937282724 | 5.991704972 |
| Cdc14a | 8.042861293 | 7.770052417 | 7.673818665 | 7.527811331 | 7.538341062 | 7.286166751 |
| Cdc23 | 9.838680826 | 9.875994443 | 10.04888224 | 9.780126914 | 9.607359206 | 9.528770572 |
| Cdc25b | 8.51715827 | 8.278053866 | 8.314765989 | 7.991128155 | 8.123357421 | 7.676018269 |
| Cdc25c | 7.206995492 | 6.963973565 | 6.879726671 | 7.189310683 | 7.150866018 | 6.826885538 |
| Cdc37 | 9.222866747 | 9.293067455 | 9.320712856 | 9.014835446 | 8.982587896 | 8.981101413 |
| Cdc40 | 7.668055912 | 7.525947903 | 7.548580966 | 7.89324653 | 7.80053086 | 7.756545074 |
| Cdc42ep5 | 3.298059683 | 3.638623163 | 3.678570668 | 2.625832949 | 2.747440291 | 2.976330056 |
| Cdc45 | 7.490853563 | 7.419843296 | 7.673818665 | 7.249887243 | 7.204561609 | 7.018684418 |
| Cdc73 | 8.150219688 | 7.816792302 | 8.10432422 | 8.049094748 | 8.062861048 | 7.860406105 |
| Cdca3 | 8.598153606 | 8.505184331 | 8.79258851 | 8.564376785 | 8.34874928 | 8.023875973 |
| Cdca4 | 8.829456528 | 8.655354339 | 8.822408023 | 8.507621095 | 8.372402046 | 8.148482721 |
| Cdca7 | 9.30915474 | 9.199964143 | 9.51583877 | 9.006081509 | 9.105880695 | 8.826471886 |
| Cdca7l | 6.383592769 | 6.375460809 | 6.388963369 | 6.036265739 | 5.855724339 | 5.814955531 |
| Cdca8 | 8.025611828 | 7.820967243 | 7.941759697 | 7.924553886 | 7.589693592 | 7.644622906 |
| Cdcp1 | 1.476947654 | 1 | 1 | 1 | 1 | 1 |
| Cdh1 | 3.697138272 | 4.03344674 | 1.825170741 | 3.370835508 | 4.286420738 | 5.159929718 |
| Cdh13 | 8.357438441 | 8.710402883 | 8.704590692 | 8.740068806 | 8.649071877 | 8.872368419 |
| Cdh3 | 3.298059683 | 3.849499474 | 3.493254909 | 2.851100857 | 3.9516001 | 4.494694577 |
| Cdh4 | 9.598806396 | 9.652943224 | 9.819217623 | 9.741972715 | 9.7896938 | 9.957100652 |
| Cdk1 | 9.039530231 | 8.911725319 | 8.851623649 | 8.743583998 | 8.651490603 | 8.363005837 |
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| Cdk17 | 10.09892391 | 10.11830448 | 9.935207493 | 10.16929599 | 10.17478603 | 10.15204339 |
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| Cdk5rap1 | 6.513008451 | 5.878913056 | 6.249587406 | 5.673154141 | 5.495401678 | 5.379248858 |
| Cdk5rap2 | 9.91209162 | 9.80716232 | 10.18518211 | 9.63626251 | 9.707229643 | 9.763652969 |
| Cdk8 | 8.966835264 | 9.030051325 | 9.274717714 | 9.132120267 | 9.156143688 | 9.054606944 |
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| Cdkn1c | 10.47277685 | 10.38894324 | 10.12463749 | 10.31462937 | 10.03450276 | 10.16685248 |
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| Chek1 | 7.37984857 | 7.180896481 | 7.651841978 | 7.399993384 | 7.116262226 | 6.951852343 |
| Cherp | 8.343584661 | 7.925480107 | 8.782510115 | 8.331956663 | 8.116370468 | 8.350087804 |
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| Chpf2 | 8.333106318 | 8.161072823 | 8.10432422 | 8.060413729 | 8.029776088 | 7.79518335 |
| Chrm1 | 4.323558214 | 3.712393585 | 3.990174756 | 4.224165625 | 4.516128927 | 5.697480352 |
| Chrna4 | 7.954474468 | 7.752673522 | 8.046541268 | 8.12652378 | 7.701296889 | 7.878512125 |

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| Chst14 | 4.533375098 | 4.814389099 | 4.246285218 | 4.053408608 | 4.920840026 | 5.656095563 |
| Chst15 | 8.034262341 | 8.144511291 | 8.369655123 | 8.279647909 | 8.36652511 | 8.509621381 |
| Cib2 | 5.591916194 | 5.956864296 | 4.738542537 | 6.125188133 | 5.495401678 | 6.207605066 |
| Cirbp | 9.438607959 | 9.349069385 | 9.405244375 | 9.455165058 | 9.449525944 | 9.660173878 |
| Cisd2 | 8.272247095 | 8.319955531 | 8.56457411 | 8.250295724 | 8.477017792 | 8.235347278 |
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| Ckap2l | 8.261235569 | 8.296160943 | 8.479790635 | 8.317877694 | 7.953418955 | 8.125924044 |
| Ckb | 11.87173922 | 11.72344557 | 11.81434907 | 11.54162801 | 11.47675061 | 11.42318913 |
| Clasp1 | 11.68899551 | 11.70690317 | 11.9036549 | 11.70244243 | 11.64489498 | 11.70456224 |
| Clasp2 | 11.73349802 | 11.76086981 | 11.69919621 | 11.7145833 | 11.78834616 | 11.72221502 |
| Cldn11 | 7.112126384 | 7.127962371 | 6.84140367 | 7.136811703 | 6.929577683 | 6.291080771 |
| Cldn3 | 1.834785459 | 2.56572585 | 3.493254909 | 3.045898796 | 2.885350385 | 4.397591105 |
| Cldn4 | 1.476947654 | 1 | 1 | 1 | 1 | 1 |
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| Cldn9 | 2.904029779 | 1.725454411 | 1 | 2.358763209 | 1.418787199 | 1.793876829 |
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| Clec1a | 2.904029779 | 3.56087634 | 2.346809092 | 3.752118759 | 3.234144523 | 5.379248858 |
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| Clic4 | 10.23834234 | 10.15266474 | 10.35801654 | 10.1574858 | 10.08189907 | 10.02978406 |
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| Clmn | 6.585428507 | 6.232338222 | 6.632847408 | 6.208946435 | 6.348472847 | 6.934649122 |
| Clmp | 9.054490487 | 9.270348829 | 9.115223714 | 9.223062771 | 9.387035356 | 9.322700134 |
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| Cmtm5 | 2.565099681 | 1.725454411 | 1 | 1.605542449 | 2.007489679 | 3.22300096 |
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| Cnpy1 | 6.328390908 | 5.956864296 | 2.72911076 | 5.941500387 | 5.984092579 | 6.178670863 |
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| Cntn1 | 8.755528188 | 8.999066014 | 8.772360819 | 8.725921758 | 9.142452027 | 9.034561557 |
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| Cntn4 | 6.863001787 | 7.100748709 | 6.879726671 | 7.071182259 | 7.40708114 | 7.216701442 |
| Cntnap4 | 8.674842432 | 8.561162936 | 8.190693919 | 8.38693755 | 8.706030658 | 8.594223824 |
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| Cog4 | 8.950932689 | 8.971162205 | 8.884977203 | 8.431206693 | 8.577104454 | 8.647989154 |
| Cog6 | 8.674842432 | 8.645971851 | 8.409493545 | 8.435559803 | 8.495984171 | 8.242355329 |

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| Col13a1 | 4.916921051 | 4.343109123 | 4.561255977 | 4.640865717 | 3.675556897 | 3.926671999 |
| Col14a1 | 4.378941788 | 4.911553418 | 3.678570668 | 4.963790449 | 4.428584041 | 4.585672437 |
| Col16a1 | 5.591916194 | 6.030818731 | 5.994117534 | 6.249069934 | 5.579097119 | 6.263788702 |
| Col18a1 | 9.234173896 | 9.149398795 | 9.401956522 | 8.841968251 | 8.841423683 | 8.788673515 |
| Col1a1 | 9.073499928 | 8.915634741 | 8.6667361 | 8.940209624 | 8.798417175 | 8.93858647 |
| Col1a2 | 9.889623929 | 9.73709183 | 9.560758579 | 9.855161127 | 9.73941939 | 9.721643881 |
| Col25a1 | 7.940736694 | 7.862065325 | 7.86742339 | 7.568018935 | 7.881061879 | 7.79518335 |
| Col26a1 | 7.56436625 | 7.16784392 | 7.200535793 | 7.279247656 | 6.905461074 | 7.128671755 |
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| Col4a4 | 3.408645243 | 4.247088592 | 4.359090506 | 2.030760869 | 2.424393538 | 2.67860439 |
| Col5a1 | 8.658149292 | 8.486907609 | 8.709918311 | 8.250295724 | 8.392784817 | 7.878512125 |
| Col6a1 | 7.191610894 | 7.093864321 | 6.719919814 | 6.746222061 | 6.760618065 | 6.863708404 |
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| Col6a3 | 8.080934653 | 7.917704031 | 7.905070272 | 7.886902698 | 8.137230627 | 7.736830824 |
| Col7a1 | 4.916921051 | 5.862804336 | 5.342954171 | 5.227488897 | 4.78644219 | 5.613488471 |
| Col8a1 | 4.323558214 | 5.031695266 | 3.990174756 | 3.635872179 | 4.286420738 | 3.780271631 |
| Col8a2 | 5.46968923 | 5.744707001 | 4.359090506 | 3.959799763 | 4.78644219 | 5.099463222 |
| Col9a1 | 3.607234804 | 2.853470894 | 1.825170741 | 3.370835508 | 2.424393538 | 2.303023309 |
| Col9a2 | 6.910760951 | 6.993865632 | 6.362144593 | 6.867169543 | 6.49573456 | 6.710417912 |
| Col9a3 | 6.975074141 | 6.846015491 | 7.023583845 | 6.966776235 | 6.95329777 | 6.369989537 |
| Colec12 | 8.353987448 | 8.515525148 | 8.257705651 | 8.409241915 | 8.211236542 | 7.79518335 |
| Copa | 11.23995472 | 11.33045377 | 11.34754754 | 11.14828758 | 11.23207811 | 11.24537551 |
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| Coro2b | 8.093405717 | 7.929352484 | 8.460955881 | 8.373387513 | 8.084503552 | 8.497956714 |
| Cox14 | 7.103931669 | 6.761653322 | 6.821853535 | 6.598755774 | 6.696475136 | 6.826885538 |
| Cox20 | 8.495395517 | 8.489532788 | 8.492211903 | 8.345899565 | 8.410029451 | 8.290481041 |
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| Cox5a | 8.982564457 | 8.8800626 | 8.90369579 | 8.946323819 | 8.785261192 | 8.812413293 |
| Cox6a1 | 9.256525758 | 9.268821457 | 9.334575175 | 9.091318683 | 8.80495045 | 8.894780508 |
| Cox7a2 | 9.211470278 | 9.261160251 | 8.83708979 | 8.937142783 | 9.027973137 | 8.955743083 |
| Cox7a2l | 9.366796691 | 9.573512787 | 9.506684501 | 9.491159281 | 9.315627411 | 9.390511029 |
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| Crabp1 | 5.943756695 | 6.030818731 | 5.396800833 | 5.673154141 | 5.786986288 | 5.656095563 |

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| Creb1 | 10.86525481 | 10.82386917 | 10.97746146 | 10.84544679 | 10.80119347 | 10.65445457 |
| Creb3l2 | 5.391052138 | 5.245578321 | 5.547239836 | 5.484368924 | 5.184039686 | 5.569584671 |
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| Crym | 5.829124602 | 5.245578321 | 5.038690263 | 5.730965216 | 5.855724339 | 5.852080256 |
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| Cse1l | 10.29162667 | 10.21268227 | 10.28671883 | 10.10789075 | 10.20885127 | 10.03382884 |
| Csf2ra | 7.317430238 | 7.323081463 | 6.971303891 | 7.527811331 | 7.204561609 | 7.339427003 |
| Csmd1 | 8.930225521 | 9.21273058 | 8.856435913 | 8.838685049 | 9.280116701 | 9.374652299 |
| Csmd3 | 9.748248213 | 9.921419968 | 9.245666435 | 9.752478876 | 9.982617585 | 9.954969208 |
| Csnk1a1 | 11.18468967 | 11.15924975 | 11.20295935 | 11.14895046 | 11.13818658 | 11.23487271 |
| Cspg4 | 6.410421315 | 6.795992396 | 6.677040407 | 6.502451963 | 6.299961727 | 6.42029526 |
| Cspg5 | 8.565702449 | 8.820840478 | 8.677653429 | 8.778272729 | 8.785261192 | 8.735028825 |
| Cthrc1 | 6.083675251 | 5.830037047 | 5.168191412 | 5.941500387 | 5.888902992 | 5.099463222 |
| Ctif | 8.851650288 | 8.703635593 | 9.00685477 | 8.693574379 | 8.692000395 | 8.912462825 |
| Ctnna1 | 10.20233356 | 10.27335241 | 10.37823458 | 10.14025412 | 9.966195363 | 10.0378623 |
| Ctnna2 | 11.36608718 | 11.54597598 | 11.40369402 | 11.38445077 | 11.46201325 | 11.52727317 |
| Ctnnb1 | 13.30242446 | 13.1944525 | 13.20534551 | 13.08132432 | 13.05591175 | 12.92655121 |
| Ctnnbl1 | 9.056615058 | 9.040830348 | 9.049503843 | 8.66419935 | 8.644222225 | 8.594223824 |
| Ctsb | 9.563384845 | 9.580917183 | 9.47886793 | 9.574444018 | 9.612334154 | 9.614991531 |
| Ctsc | 6.066909744 | 5.65401096 | 4.359090506 | 5.011224712 | 4.920840026 | 5.327464956 |
| Ctsd | 9.64754335 | 9.754658297 | 9.598588894 | 9.493248879 | 9.415776136 | 9.381016726 |
| Cttnbp2nl | 9.763936196 | 9.703566842 | 9.935207493 | 9.664352621 | 9.775349147 | 9.900633231 |
| Cul4b | 9.351303172 | 9.377693499 | 9.285462875 | 9.422642099 | 9.47705994 | 9.488076416 |
| Cwf19l2 | 8.126144275 | 7.959962914 | 8.167646663 | 8.014595011 | 8.033489886 | 7.905252094 |
| Cx3cl1 | 6.43676005 | 6.045165342 | 6.249587406 | 6.167675041 | 6.418311711 | 6.119001134 |
| Cxx1a | 6.132833551 | 6.352571455 | 6.44115009 | 6.399256858 | 5.888902992 | 6.178670863 |
| Cxxc1 | 8.437878486 | 8.497379785 | 8.962906393 | 8.240377438 | 8.287863066 | 8.303941444 |
| Cxxc4 | 9.537757761 | 9.325754026 | 9.629842141 | 9.50157714 | 9.684970254 | 9.841865315 |
| Cyb5a | 8.185595857 | 8.253552067 | 8.213378775 | 8.26993005 | 8.059222188 | 8.214116523 |
| Cybrd1 | 4.75888608 | 4.814389099 | 4.738542537 | 4.914743422 | 5.311865251 | 5.524302751 |
| Cygb | 5.092852815 | 6.114833364 | 5.228828563 | 6.013151561 | 6.116045717 | 6.119001134 |
| Cyp26b1 | 7.874838514 | 7.541211386 | 5.038690263 | 8.110278101 | 7.941608657 | 8.163328226 |
| Cyp39a1 | 6.561690132 | 6.364061526 | 6.632847408 | 5.989661022 | 5.921335734 | 5.273752905 |
| Cyth4 | 4.627849702 | 4.636319916 | 3.842769234 | 4.963790449 | 5.184039686 | 5.327464956 |
| D030047H15Rik | 6.783137934 | 6.690421389 | 7.106715447 | 5.730965216 | 6.63913022 | 6.088214528 |
| D10Jhu81e | 7.576262265 | 7.520823978 | 7.673818665 | 7.189310683 | 7.336682964 | 7.216701442 |
| D130009I18Rik | 4.009405591 | 3.39155842 | 1 | 2.851100857 | 3.887381517 | 3.617319577 |
| D16Ertd472e | 7.484555014 | 7.1076004 | 7.074035358 | 7.209786787 | 7.204561609 | 6.583715671 |
| D19Bwg1357e | 8.971346845 | 8.874047693 | 9.197173657 | 8.675285195 | 8.680203371 | 8.694722238 |
| D430041D05Rik | 9.430439141 | 9.506402174 | 9.732878302 | 9.641924457 | 9.701405126 | 9.739090133 |
| D930016D06Rik | 8.257546304 | 8.167644567 | 8.021050658 | 8.110278101 | 8.214511904 | 7.804683367 |
| D930020B18Rik | 1.834785459 | 1.40785378 | 1.825170741 | 1 | 1 | 1 |
| Daam1 | 10.39179041 | 10.44344152 | 10.33923108 | 10.40951625 | 10.43628258 | 10.47866653 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Daam2 | 6.730880483 | 6.993865632 | 6.781940076 | 7.209786787 | 7.237134017 | 6.863708404 |
| Dab1 | 9.693322711 | 9.750286692 | 10.08623319 | 9.914060187 | 9.870815262 | 9.959228952 |
| Dach1 | 9.644721597 | 9.430562671 | 9.463179342 | 9.320428285 | 9.441162222 | 9.464296639 |
| Dach2 | 6.87268094 | 6.526258914 | 6.249587406 | 6.598755774 | 6.599593485 | 6.845414449 |
| Dapk3 | 7.420009252 | 7.49492777 | 7.809044438 | 7.08232993 | 7.15768828 | 7.173357913 |
| Dbf4 | 8.791690936 | 8.56614582 | 8.587910159 | 8.511749957 | 8.487886235 | 8.270051993 |
| Dcaf5 | 9.58856464 | 9.477601273 | 9.779230151 | 9.733158755 | 9.645473671 | 9.790197672 |
| Dcc | 12.06247685 | 11.90745546 | 12.17564133 | 12.02879647 | 12.13344254 | 12.03832104 |
| Dchs1 | 11.77215081 | 11.74502804 | 11.99158618 | 11.78365179 | 11.76032623 | 11.93289037 |
| Dclk1 | 12.18504117 | 12.28375338 | 12.22810367 | 12.22983908 | 12.30955551 | 12.36001126 |
| Dclk3 | 4.840066407 | 4.780490277 | 4.652620793 | 5.305666106 | 5.101528924 | 6.149144468 |
| Dclre1c | 7.76479027 | 7.743904933 | 7.706168466 | 7.560066561 | 7.677759001 | 7.546116814 |
| Dcx | 13.38674701 | 13.47338759 | 13.53857896 | 13.48464117 | 13.63385907 | 13.6921253 |
| Ddah2 | 10.13857618 | 9.953148676 | 10.00404763 | 9.818965064 | 9.67549415 | 9.639087748 |
| Ddit3 | 6.698592606 | 6.155074467 | 6.306963417 | 5.786548686 | 5.359984332 | 5.776850189 |
| Ddit4l | 4.581385593 | 4.636319916 | 4.652620793 | 4.914743422 | 4.473020427 | 4.901186937 |
| Ddn | 4.009405591 | 4.433135735 | 4.969302427 | 3.959799763 | 3.234144523 | 2.976330056 |
| Ddx21 | 9.953725645 | 10.04791773 | 10.00621451 | 9.946449867 | 9.935759061 | 9.974039779 |
| Ddx25 | 7.870014287 | 7.866111468 | 8.046541268 | 8.099345118 | 8.022319688 | 8.040053218 |
| Ddx39b | 10.99055577 | 10.91212533 | 11.05591173 | 10.74028693 | 10.6647771 | 10.74111651 |
| Ddx3x | 12.25817294 | 12.1441131 | 12.31544922 | 12.32177477 | 12.03730134 | 12.02110589 |
| Ddx3y | 1 | 1 | 1 | 1 | 9.1493141 | 9.10929611 |
| Degs1 | 7.722595849 | 7.703773087 | 7.695465596 | 7.239966139 | 7.648997054 | 7.50008031 |
| Dek | 9.903854702 | 9.893940368 | 10.08418331 | 9.973645183 | 9.693211093 | 9.633767706 |
| Dennd4a | 9.213375952 | 9.013730268 | 8.899038863 | 8.985446693 | 9.10764337 | 9.042613165 |
| Dera | 5.997828709 | 5.779446964 | 5.104893407 | 4.141311987 | 5.157057049 | 3.22300096 |
| Derl1 | 8.96230953 | 8.710402883 | 8.715226328 | 8.474157781 | 8.717619208 | 8.610564849 |
| Dgke | 8.831939429 | 8.723842969 | 8.467261493 | 8.902970099 | 8.830791647 | 8.912462825 |
| Dgki | 8.574625402 | 8.797725286 | 8.797601428 | 8.871185604 | 8.726823489 | 9.093881028 |
| Dgkz | 8.441134751 | 8.750353253 | 8.516738137 | 8.626618954 | 8.217779847 | 8.642701895 |
| Dhdds | 7.840725169 | 8.222327792 | 8.10432422 | 7.91211235 | 7.83072568 | 7.464562498 |
| Dhx57 | 10.26339214 | 10.41955033 | 10.27598305 | 10.28357466 | 10.26521469 | 10.47866653 |
| Dhx8 | 9.283987232 | 9.225385037 | 9.497471774 | 9.267692101 | 9.073778625 | 8.93858647 |
| Dhx9 | 11.81545192 | 11.71841882 | 11.96007533 | 11.82239642 | 11.84966692 | 11.80914835 |
| Diap3 | 7.780300359 | 7.436265054 | 7.905070272 | 7.373012443 | 7.366434099 | 7.272538694 |
| Dimt1 | 7.386620135 | 7.525947903 | 7.673818665 | 7.560066561 | 7.668235255 | 7.590729603 |
| Dis3 | 8.953215246 | 8.767759953 | 8.841950696 | 8.893508061 | 8.740520733 | 8.54405996 |
| Disp2 | 9.402314003 | 9.40158529 | 9.378729333 | 9.446563705 | 9.417198255 | 9.525901608 |
| Dld | 9.184523103 | 9.172454456 | 9.29258211 | 9.150773171 | 9.242105879 | 9.22702349 |
| Dlg2 | 8.94406327 | 9.347623162 | 9.143060805 | 9.035057071 | 9.539768475 | 9.540189713 |
| Dlgap1 | 7.152415964 | 8.008359949 | 7.230500702 | 7.808517735 | 7.860301472 | 7.88748063 |
| Dlgap5 | 8.40490511 | 8.190412753 | 8.159881693 | 8.0938474 | 8.003508322 | 7.69657526 |
| Dlk1 | 8.068354845 | 7.730651305 | 8.243080832 | 7.924553886 | 7.457713316 | 7.488337929 |
| Dll1 | 9.423870619 | 9.124280461 | 9.509742382 | 9.113223033 | 9.128629182 | 9.058582815 |
| Dll3 | 7.019317849 | 6.91794109 | 6.249587406 | 7.136811703 | 6.91354482 | 6.808115555 |
| Dlx2 | 7.206995492 | 7.334807857 | 7.716792521 | 7.527811331 | 6.91354482 | 7.634004102 |
| Dmbx1 | 4.581385593 | 4.780490277 | 3.842769234 | 4.914743422 | 3.427188559 | 3.926671999 |

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| Dmrt3 | 4.87900544 | 5.169039459 | 6.159003922 | 4.811344491 | 4.920840026 | 5.217963548 |
| Dmrta2 | 7.446175096 | 7.436265054 | 7.876927609 | 7.209786787 | 7.137123938 | 7.128671755 |
| Dmxl2 | 11.36265684 | 11.41089991 | 11.34326857 | 11.30221765 | 11.4061732 | 11.44992255 |
| Dna2 | 7.426595337 | 7.473870828 | 7.385028612 | 7.002424395 | 7.318533265 | 6.690058614 |
| Dnah2 | 6.47538792 | 6.615488935 | 6.09529247 | 6.485757272 | 6.872665379 | 7.143721456 |
| Dnaic2 | 4.67286394 | 4.558445459 | 4.123905703 | 3.045898796 | 3.887381517 | 2.976330056 |
| Dnaja2 | 10.08650066 | 10.05236346 | 10.1775112 | 9.976635482 | 9.994098212 | 10.09704896 |
| Dnajb9 | 6.462626536 | 6.536450301 | 7.057413452 | 6.059015424 | 6.599593485 | 6.648457271 |
| Dnajc21 | 7.599764006 | 7.546263538 | 7.618236209 | 7.363905487 | 7.49050709 | 7.173357913 |
| Dnal4 | 7.870014287 | 7.967515106 | 7.923531613 | 7.660177676 | 7.441032588 | 7.286166751 |
| Dnase1l2 | 5.615166341 | 5.910600739 | 5.168191412 | 5.64335602 | 5.714808604 | 6.178670863 |
| Dnm1 | 8.916253759 | 8.984251173 | 9.150916591 | 9.150773171 | 9.140731397 | 9.12833619 |
| Dnm3 | 9.43534598 | 9.59804774 | 9.509742382 | 9.55056166 | 9.749615404 | 9.758773744 |
| Dnpep | 8.841828521 | 8.761257027 | 8.962906393 | 8.46991976 | 8.602328401 | 8.432058627 |
| Dock10 | 6.910760951 | 6.66277579 | 5.726154136 | 6.598755774 | 6.760618065 | 6.468905804 |
| Dock3 | 10.17227738 | 10.1543201 | 10.06975203 | 10.27266729 | 10.24693708 | 10.30379287 |
| Dock8 | 3.93744424 | 4.517872985 | 3.280577348 | 3.635872179 | 3.333892988 | 2.67860439 |
| Dock9 | 9.098462387 | 9.291563959 | 8.894366855 | 9.262800919 | 9.320195464 | 9.361838593 |
| Dopey1 | 10.20425133 | 10.29302176 | 10.14247824 | 10.09693959 | 10.31488824 | 10.17786039 |
| Dph3 | 8.025611828 | 8.41692035 | 8.175370063 | 8.014595011 | 7.949492922 | 7.88748063 |
| Dph6 | 6.687667379 | 6.352571455 | 6.698639411 | 6.746222061 | 6.463060749 | 6.42029526 |
| Dpm3 | 5.997828709 | 6.244822593 | 6.466552201 | 5.484368924 | 5.406550135 | 5.697480352 |
| Dpp10 | 7.936128212 | 8.147838842 | 7.914330472 | 8.104821966 | 8.10582618 | 8.375809226 |
| Dpp3 | 9.486672744 | 9.241048598 | 9.488199839 | 9.094074984 | 9.048306945 | 9.082210654 |
| Dpp6 | 9.30379854 | 9.553579907 | 9.375380425 | 9.396085313 | 9.589810533 | 9.799730468 |
| Dpy19l1 | 9.850974302 | 10.04345825 | 9.94653532 | 9.895219988 | 10.13817325 | 10.13142944 |
| Dpysl3 | 13.50960546 | 13.60963931 | 13.53389293 | 13.49588784 | 13.5344925 | 13.63119316 |
| Dpysl5 | 11.01534446 | 10.9507403 | 11.35521786 | 11.09974185 | 10.90366825 | 11.1479787 |
| Dqx1 | 4.009405591 | 4.089895615 | 3.280577348 | 2.358763209 | 2.594940123 | 2.976330056 |
| Dr1 | 8.618430655 | 8.518098813 | 8.422532248 | 8.391426095 | 8.250058482 | 8.642701895 |
| Drap1 | 8.854095318 | 9.028246966 | 9.178079794 | 8.880794695 | 8.813615713 | 8.769396357 |
| Drosha | 9.981947123 | 10.04345825 | 10.35971224 | 10.03086655 | 9.915776388 | 10.10283623 |
| Dscaml1 | 8.663735161 | 9.015552863 | 8.985047923 | 8.955446798 | 8.935728392 | 9.187628869 |
| Dse | 7.112126384 | 6.829533096 | 6.516052763 | 6.841154966 | 6.91354482 | 6.583715671 |
| Dsg2 | 1.476947654 | 1.985596612 | 1.825170741 | 1 | 1 | 1.793876829 |
| Dsp | 4.009405591 | 4.780490277 | 4.738542537 | 4.053408608 | 4.888396012 | 4.901186937 |
| Dtd1 | 7.331536226 | 7.100748709 | 7.330732364 | 7.209786787 | 7.095094417 | 6.985655341 |
| Dtl | 8.421485998 | 8.103970274 | 8.307755651 | 8.395900718 | 8.240450495 | 8.185313927 |
| Dtna | 8.085103664 | 8.200061614 | 7.595389438 | 8.284482401 | 8.12683825 | 8.382168562 |
| Dtx1 | 9.241663061 | 9.204764805 | 9.411797686 | 9.215488456 | 9.066546776 | 9.237583374 |
| Dusp16 | 8.242694171 | 8.183944139 | 8.504527138 | 8.099345118 | 8.070111351 | 7.79518335 |
| Dut | 8.658149292 | 8.523232409 | 8.342471581 | 8.395900718 | 8.441119012 | 8.199787102 |
| Dvl3 | 8.638426655 | 8.678547025 | 9.170370925 | 8.722363213 | 8.485176791 | 8.788673515 |
| Dync2h1 | 10.6847272 | 10.64174011 | 10.49855615 | 10.46060324 | 10.52667297 | 10.38361344 |
| Dynll1 | 10.34822573 | 10.55604855 | 10.60818487 | 10.14955828 | 10.12517957 | 10.06182912 |
| Dynll2 | 9.209562083 | 9.170819786 | 9.684987654 | 9.404992002 | 9.154439319 | 9.358617304 |
| Dyrk3 | 7.266943973 | 6.653441599 | 6.563911094 | 6.629479584 | 6.796030117 | 6.207605066 |

| | | | | | | |
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| Dzank1 | 7.588060991 | 7.653156834 | 7.606858048 | 7.739777923 | 7.925709676 | 8.178022524 |
| Dzip1l | 7.845648168 | 7.525947903 | 7.695465596 | 7.199585062 | 7.318533265 | 7.187950923 |
| E030019B13Rik | 7.05376114 | 7.293341578 | 7.259855879 | 6.801231826 | 6.558942651 | 6.808115555 |
| E130008D07Rik | 7.668055912 | 8.058725832 | 7.651841978 | 7.991128155 | 7.774136874 | 7.823497767 |
| E130018N17Rik | 1 | 1 | 2.72911076 | 1 | 1 | 1 |
| E130114P18Rik | 7.611372851 | 7.595835205 | 7.524594614 | 7.115265253 | 7.211135189 | 7.113463403 |
| E2f2 | 6.813607307 | 6.941140917 | 7.437355307 | 7.136811703 | 6.687074545 | 6.178670863 |
| Echdc2 | 5.219618891 | 5.387455657 | 4.359090506 | 5.58184729 | 5.287190159 | 5.327464956 |
| Echdc3 | 2.36018646 | 2.397010683 | 2.346809092 | 3.959799763 | 3.011219987 | 2.976330056 |
| Ect2 | 9.079781151 | 8.959847792 | 9.057884423 | 8.921710014 | 8.837180266 | 8.835768745 |
| Edf1 | 8.846747763 | 8.909766627 | 8.90369579 | 8.733012623 | 8.47428784 | 8.41974692 |
| Edrf1 | 9.190340021 | 9.105578363 | 9.0283369 | 8.667904105 | 8.893439387 | 8.739988881 |
| Eef1a2 | 8.01253802 | 8.41692035 | 8.120417294 | 8.322585966 | 8.36946657 | 8.297226941 |
| Eef1b2 | 10.50347277 | 10.44614692 | 10.31845498 | 10.39840929 | 10.34359249 | 10.26646638 |
| Eef1d | 9.410643171 | 9.55608663 | 9.503620124 | 9.255432913 | 9.080974404 | 9.124548224 |
| Eef2k | 8.485967179 | 8.728295317 | 8.558680638 | 8.686286504 | 8.614776899 | 8.684467147 |
| Eepd1 | 6.148854342 | 6.269471835 | 5.847135518 | 5.101656215 | 5.751348778 | 5.273752905 |
| Efcab5 | 5.391052138 | 5.318260347 | 4.652620793 | 5.517598924 | 5.101528924 | 4.828538958 |
| Efna2 | 7.743847311 | 7.739500572 | 7.886369626 | 7.435200555 | 7.27527434 | 7.113463403 |
| Efna5 | 8.729131168 | 8.265854981 | 8.473539665 | 8.645531514 | 8.629574683 | 8.798216354 |
| Efnb2 | 10.0623862 | 10.04702693 | 10.53503216 | 10.02076175 | 10.17982171 | 10.17420042 |
| Egfl6 | 4.009405591 | 3.298813141 | 3.493254909 | 3.635872179 | 4.235739691 | 3.433590479 |
| Egflam | 6.488037412 | 6.128372165 | 6.220020382 | 6.188458315 | 6.287574716 | 6.42029526 |
| Egfr | 6.449751263 | 6.690421389 | 6.189834702 | 6.85422089 | 6.813415432 | 7.339427003 |
| Ehbp1l1 | 8.01253802 | 8.209646372 | 8.167646663 | 7.936889044 | 7.5642458 | 7.464562498 |
| Ehf | 1 | 1.40785378 | 2.346809092 | 1 | 1 | 2.303023309 |
| Eif2ak3 | 8.60687869 | 8.337547416 | 8.546820973 | 8.04340178 | 8.221040404 | 7.940151466 |
| Eif2s3y | 1 | 1 | 1 | 1 | 9.201416624 | 9.165678688 |
| Eif3a | 11.34885332 | 11.30794902 | 11.51516388 | 11.32468706 | 11.35477921 | 11.40065703 |
| Eif3b | 9.823789028 | 9.562334449 | 10.02129217 | 9.72606861 | 9.736004642 | 9.792586783 |
| Eif3f | 9.895570486 | 9.82077709 | 9.824139018 | 9.560560732 | 9.456458864 | 9.706520173 |
| Eif4a2 | 11.28187435 | 11.31573625 | 11.05800214 | 11.13027382 | 11.18192766 | 11.14984342 |
| Eif4ebp2 | 7.701026658 | 7.323081463 | 8.389711842 | 7.47803465 | 7.533103826 | 8.03198727 |
| Eif4g2 | 13.436541 | 13.32649642 | 13.54362283 | 13.38082218 | 13.50946038 | 13.4156357 |
| Eif4g3 | 10.99222167 | 11.00724944 | 11.24025733 | 11.00260016 | 11.04972547 | 11.14891136 |
| Eif5 | 10.88810223 | 10.83681259 | 10.93941396 | 10.9609292 | 10.9807101 | 11.0007737 |
| Elavl1 | 10.71328891 | 10.76441329 | 10.8768443 | 10.7154416 | 10.85097477 | 10.63461636 |
| Elavl2 | 10.8115423 | 10.79550866 | 10.76740326 | 10.77419503 | 10.86354749 | 10.88799426 |
| Elavl3 | 11.35878793 | 11.27066081 | 11.52653092 | 11.31998565 | 11.30379487 | 11.5766283 |
| Elavl4 | 10.52127399 | 10.41955033 | 10.6517446 | 10.39394245 | 10.47230041 | 10.59957039 |
| Elf2 | 9.96394909 | 9.929176095 | 9.997527416 | 9.992972245 | 9.798450906 | 9.893973222 |
| Elfn2 | 6.241413634 | 6.941140917 | 6.362144593 | 7.059947778 | 6.787258259 | 6.769826698 |
| Ell3 | 2.904029779 | 4.196570335 | 4.359090506 | 2.358763209 | 4.013081531 | 4.293477201 |
| Elmod2 | 8.747659671 | 8.765595566 | 8.56457411 | 8.832096146 | 8.879063027 | 8.730051656 |
| Elmsan1 | 7.963560843 | 7.653156834 | 8.213378775 | 7.841697207 | 7.663449702 | 7.579705073 |
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| Elovl5 | 9.155081423 | 9.088363477 | 9.241993544 | 8.955446798 | 8.809289587 | 8.674138638 |

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| Eml5 | 10.82593774 | 10.79709896 | 10.75585954 | 10.808164 | 10.83457112 | 10.77534103 |
| Emx1 | 7.622889029 | 7.61038054 | 7.758523245 | 7.354740679 | 7.330658399 | 6.881773285 |
| Emx2 | 6.720197947 | 7.058940817 | 7.274312476 | 6.978757094 | 6.312243287 | 7.230864661 |
| Emx2os | 6.241413634 | 6.101166306 | 6.127499866 | 5.730965216 | 6.210932461 | 6.119001134 |
| Enah | 11.65959446 | 11.66948086 | 11.81558516 | 11.70559989 | 11.76870595 | 11.70519643 |
| Enc1 | 11.60620204 | 11.60315281 | 11.78940231 | 11.59270804 | 11.70289049 | 11.85616166 |
| Enho | 8.10986786 | 8.103970274 | 7.76877001 | 7.930734648 | 7.969017113 | 7.896393726 |
| Enoph1 | 7.81585499 | 7.757037911 | 7.848225027 | 7.781413557 | 7.634398156 | 7.842069961 |
| Enpep | 3.781766418 | 4.388824542 | 2.72911076 | 3.509431521 | 3.597423784 | 4.059575235 |
| Enpp5 | 8.523316375 | 8.767759953 | 8.504527138 | 8.689935044 | 8.719925789 | 8.93858647 |
| Entpd4 | 3.178288549 | 2.205919617 | 1 | 3.217496026 | 2.007489679 | 1 |
| Eny2 | 8.778879476 | 8.730516349 | 8.736265233 | 8.785111498 | 9.071974059 | 8.981101413 |
| Eomes | 9.269406189 | 9.237929461 | 9.836369554 | 9.369030495 | 9.276987105 | 9.502742164 |
| Ep300 | 10.54870317 | 10.41265097 | 10.67372276 | 10.52840088 | 10.64791715 | 10.59273207 |
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| Epb4.2 | 2.904029779 | 2.397010683 | 1.825170741 | 3.752118759 | 2.230948887 | 2.976330056 |
| Epc2 | 10.05709016 | 10.10638174 | 10.22851544 | 10.05086626 | 9.953509838 | 10.07758862 |
| Epcam | 3.178288549 | 3.56087634 | 2.72911076 | 3.509431521 | 3.234144523 | 3.22300096 |
| Epha5 | 11.17151675 | 11.26530908 | 11.3577656 | 11.17911813 | 11.26246043 | 11.35935182 |
| Ephb3 | 7.879646662 | 7.457873945 | 7.68468273 | 7.560066561 | 7.262672602 | 7.143721456 |
| Ephb6 | 8.580543523 | 8.425171246 | 8.528846649 | 8.274797162 | 8.351727169 | 8.76453655 |
| Epm2aip1 | 10.80017524 | 10.66920903 | 10.63643802 | 10.63444848 | 10.92381816 | 10.87226823 |
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| Erbb2ip | 11.23667911 | 11.19185385 | 11.25491066 | 11.11542779 | 11.13775534 | 11.08991522 |
| Erbb3 | 4.75888608 | 3.638623163 | 1 | 2.030760869 | 2.230948887 | 3.22300096 |
| Ercc2 | 8.721116952 | 8.425171246 | 8.510645557 | 8.147903975 | 8.217779847 | 8.170694084 |
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| Etl4 | 8.598153606 | 8.386256817 | 8.949456506 | 8.418067996 | 8.327730146 | 8.526943428 |
| Ets2 | 7.214626703 | 7.16784392 | 6.879726671 | 7.259740587 | 7.256330214 | 7.365337495 |
| Etv6 | 8.085103664 | 7.993640727 | 7.857856143 | 7.89324653 | 7.905586346 | 7.905252094 |
| Eva1b | 5.615166341 | 5.22051385 | 4.652620793 | 5.267106973 | 4.428584041 | 4.828538958 |
| Evc | 6.891846582 | 7.328956574 | 7.154388143 | 6.917832351 | 6.760618065 | 6.444805259 |
| Exosc1 | 7.019317849 | 6.452829242 | 6.677040407 | 6.249069934 | 6.517113106 | 6.056756594 |
| Ezr | 9.395615872 | 9.436016788 | 9.732878302 | 9.265248583 | 9.020507389 | 9.282470221 |
| Fabp5 | 10.08857865 | 10.27867444 | 10.15033719 | 10.2130596 | 10.19233454 | 10.26646638 |
| Fabp7 | 10.98610395 | 11.0686679 | 10.90498857 | 10.90001824 | 11.14506892 | 10.98936372 |
| Fads3 | 7.317430238 | 7.058940817 | 6.677040407 | 6.644599561 | 7.02966115 | 7.158615784 |
| Fam101b | 5.726108215 | 6.101166306 | 5.922497536 | 5.58184729 | 6.171028365 | 3.617319577 |
| Fam103a1 | 7.393360064 | 7.546263538 | 7.560426231 | 7.47803465 | 7.796165259 | 7.726871747 |
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| Fam110b | 8.122092354 | 8.427911092 | 8.235712449 | 7.854758244 | 8.026052705 | 7.922807306 |
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| Fam131c | 3.697138272 | 3.39155842 | 3.678570668 | 4.302518316 | 5.014011403 | 4.752037851 |
| Fam132b | 5.125603781 | 5.596723939 | 4.561255977 | 4.224165625 | 5.21052692 | 5.036351157 |

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| Fam135b | 6.015411544 | 6.5465702 | 5.994117534 | 6.614199465 | 6.668087581 | 6.5159317 |
| Fam155a | 8.609775365 | 8.631782708 | 8.467261493 | 8.71879587 | 8.63447374 | 8.826471886 |
| Fam160a1 | 1.834785459 | 2.853470894 | 3.280577348 | 3.635872179 | 2.424393538 | 2.67860439 |
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| Fam168a | 10.79890668 | 10.90673401 | 11.03271501 | 10.8617126 | 11.04697221 | 11.17935565 |
| Fam171a2 | 9.80874191 | 9.934002584 | 9.900680363 | 9.731389483 | 9.592330593 | 9.601428772 |
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| Fam189a1 | 6.87268094 | 6.717547177 | 6.84140367 | 7.239966139 | 7.123249702 | 6.951852343 |
| Fam19a1 | 5.059341058 | 6.045165342 | 5.228828563 | 5.379823897 | 6.463060749 | 6.291080771 |
| Fam19a2 | 8.677605939 | 8.723842969 | 8.152074704 | 8.435559803 | 8.661125159 | 8.754767547 |
| Fam19a5 | 8.231453863 | 8.528347802 | 8.44826137 | 8.400361505 | 8.116370468 | 8.503800836 |
| Fam212a | 4.205973248 | 4.597908067 | 4.561255977 | 4.811344491 | 4.235739691 | 4.181261307 |
| Fam219aos | 5.336140447 | 5.4098024 | 4.359090506 | 5.702349231 | 5.359984332 | 6.235970365 |
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| Fam98b | 7.50958588 | 7.219360232 | 7.848225027 | 7.469568968 | 7.705958732 | 7.62330656 |
| Fap | 2.565099681 | 3.39155842 | 3.031034773 | 2.030760869 | 3.749675008 | 2.976330056 |
| Fastk | 8.185595857 | 7.959962914 | 8.300711082 | 8.060413729 | 7.782988631 | 8.015718814 |
| Fastkd1 | 7.206995492 | 7.141379091 | 6.540180369 | 6.717910076 | 6.86434863 | 6.808115555 |
| Fau | 10.02923292 | 10.02457643 | 9.907652211 | 9.817298013 | 9.791888065 | 9.81626278 |
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| Fbxl17 | 9.846069475 | 9.817646605 | 9.740707768 | 9.828927122 | 10.00454246 | 9.898416643 |
| Fbxl8 | 2.744494966 | 2.205919617 | 3.280577348 | 1.605542449 | 1 | 1 |
| Fbxo11 | 10.69089535 | 10.6703664 | 10.86495352 | 10.69107143 | 10.70375576 | 10.74851899 |
| Fbxo18 | 10.05390318 | 9.971105091 | 9.982197991 | 9.850278451 | 9.877029459 | 9.609581718 |
| Fbxo47 | 3.861704164 | 2.397010683 | 3.493254909 | 1.605542449 | 3.234144523 | 1.793876829 |
| Fbxo48 | 5.4177436 | 4.295897557 | 4.123905703 | 5.96578166 | 5.516785121 | 4.901186937 |
| Fcgrt | 6.328390908 | 6.128372165 | 5.342954171 | 5.96578166 | 5.968657436 | 5.273752905 |
| Fcho1 | 8.760750124 | 8.863966783 | 8.61087474 | 8.802067925 | 8.622194764 | 8.735028825 |
| Fcho2 | 9.045960774 | 8.927299847 | 9.107170597 | 8.861512083 | 9.061098999 | 9.093881028 |
| Fdps | 9.123000266 | 9.129339236 | 8.827318565 | 8.930989471 | 8.883185197 | 8.788673515 |
| Fem1c | 9.020064814 | 8.86194212 | 9.011176862 | 8.902970099 | 8.856178116 | 8.599691423 |
| Fen1 | 8.154193484 | 8.183944139 | 8.088049603 | 7.924553886 | 7.687220289 | 7.69657526 |
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| Fgf14 | 7.749111622 | 7.95617194 | 7.716792521 | 7.89324653 | 8.14411752 | 8.071873474 |
| Fgf15 | 7.679130094 | 7.639038527 | 7.288625645 | 7.298494479 | 7.366434099 | 6.690058614 |
| Fgfr3 | 9.74956208 | 9.540980539 | 9.740707768 | 9.570490978 | 9.269133282 | 9.176695524 |
| Fggy | 4.323558214 | 5.060230054 | 4.246285218 | 5.343221434 | 5.129560124 | 5.429238262 |
| Fibin | 3.298059683 | 3.39155842 | 3.031034773 | 2.358763209 | 3.887381517 | 3.22300096 |
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| Fis1 | 9.10873727 | 9.154370406 | 9.200962291 | 8.864743803 | 8.856178116 | 8.749858127 |
| Fkbp10 | 6.410421315 | 6.155074467 | 6.610232669 | 6.344752403 | 6.249762475 | 6.263788702 |
| Fkbp1b | 6.226393616 | 5.65401096 | 5.342954171 | 5.057148905 | 5.043777717 | 5.923581073 |
| Fkbp4 | 10.77652452 | 10.83216633 | 10.82254661 | 10.61538911 | 10.53978865 | 10.52106468 |
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| Flrt1 | 7.835785313 | 7.6578324 | 8.272183702 | 8.121128854 | 8.011062327 | 8.394803751 |
| Flywch2 | 5.519829329 | 6.232338222 | 5.396800833 | 6.326116853 | 6.262476989 | 6.369989537 |
| Fmn2 | 8.669299485 | 8.822923609 | 8.736265233 | 8.899822977 | 8.760825811 | 8.826471886 |
| Fmnl3 | 7.795645475 | 7.712788247 | 7.886369626 | 7.936889044 | 7.860301472 | 7.814121237 |
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| Fnbp1l | 11.92707436 | 11.99919827 | 12.12917443 | 11.98862689 | 12.10151241 | 12.19010453 |
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| Fndc3b | 8.072560314 | 8.147838842 | 7.950788095 | 8.235392608 | 8.178067321 | 8.41974692 |
| Fndc3c1 | 5.27905573 | 4.517872985 | 4.81963345 | 4.376833985 | 4.714236588 | 4.059575235 |
| Fndc5 | 5.768201518 | 4.814389099 | 4.738542537 | 4.699958789 | 4.557986608 | 4.970351389 |
| Fndc8 | 3.298059683 | 4.780490277 | 4.246285218 | 4.376833985 | 3.597423784 | 4.293477201 |
| Fndc9 | 6.823622422 | 6.933449019 | 7.106715447 | 6.978757094 | 7.230678103 | 6.881773285 |
| Fnip2 | 9.377034031 | 9.23636736 | 9.382070486 | 9.255432913 | 9.297209172 | 9.241086228 |
| Fnta | 8.520240608 | 8.660022799 | 8.460955881 | 8.377918347 | 8.312526749 | 8.297226941 |
| Focad | 8.553718678 | 8.573588025 | 8.264962838 | 8.486797657 | 8.54624179 | 8.71501629 |
| Foxa1 | 5.059341058 | 5.142596755 | 5.287019574 | 4.447508334 | 5.129560124 | 4.494694577 |
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| Foxl1 | 3.781766418 | 1.725454411 | 1.825170741 | 2.625832949 | 2.230948887 | 1.793876829 |
| Foxm1 | 8.507871545 | 8.334630292 | 8.908337734 | 8.426840409 | 8.198060224 | 8.270051993 |
| Foxn2 | 8.162108389 | 8.137833076 | 8.243080832 | 8.142588557 | 7.976753403 | 8.056051073 |
| Foxp1 | 9.606077676 | 9.510285397 | 9.638249547 | 9.745483276 | 9.790791349 | 9.698898447 |
| Foxp2 | 10.25323911 | 10.16585473 | 10.00837813 | 10.29080069 | 10.37759254 | 10.16500964 |
| Frem2 | 7.706449263 | 7.795734426 | 7.695465596 | 7.637684005 | 7.843475333 | 7.488337929 |
| Frmd4a | 10.77910012 | 10.75517065 | 10.86853105 | 10.91646235 | 10.83829151 | 11.05152935 |
| Frmd5 | 9.363368038 | 9.493382087 | 9.641041164 | 9.378105258 | 9.485218701 | 9.446200997 |
| Frmpd4 | 5.4177436 | 5.294437552 | 3.990174756 | 4.579248421 | 5.579097119 | 5.814955531 |
| Fry | 10.74261635 | 10.88097146 | 10.63923314 | 10.78532292 | 10.8708313 | 10.93849077 |
| Fsd1l | 10.96193719 | 10.77036242 | 10.89332844 | 10.77591261 | 10.91930891 | 10.74851899 |
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| Fstl5 | 9.100523226 | 9.282509934 | 8.875526039 | 9.132120267 | 9.387035356 | 9.12833619 |
| Ftl1 | 12.32403252 | 12.27007675 | 12.21504876 | 12.14200254 | 11.87472627 | 12.01139543 |
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| Fubp3 | 8.995911463 | 8.853814935 | 8.935880049 | 8.95241221 | 8.701369048 | 8.802964207 |
| Fuk | 7.08740126 | 7.058940817 | 7.200535793 | 6.644599561 | 6.77843274 | 6.395361653 |
| Fundc1 | 7.222217761 | 6.870391298 | 6.988941883 | 7.30802245 | 7.506628612 | 7.428148153 |
| Fundc2 | 7.497124732 | 7.408790683 | 7.385028612 | 7.408876053 | 7.614700277 | 7.143721456 |
| Fus | 9.32510505 | 9.119203886 | 10.06767859 | 9.774983106 | 9.368042046 | 9.763652969 |
| Fut9 | 10.11532356 | 10.09004164 | 10.19661254 | 10.14823278 | 10.38778332 | 10.33363035 |
| Fxyd2 | 3.178288549 | 2.397010683 | 3.031034773 | 1 | 1.418787199 | 1.793876829 |

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| Fzd3 | 12.54989947 | 12.48017319 | 12.54554155 | 12.38081052 | 12.5187613 | 12.35395775 |
| Fzd7 | 7.338537835 | 7.086946925 | 7.411429183 | 6.966776235 | 6.99198465 | 7.034919655 |
| Gab2 | 8.655348226 | 8.732733967 | 8.644650427 | 8.825477013 | 8.822229241 | 8.997762678 |
| Gabarapl2 | 8.290414903 | 8.34336403 | 8.159881693 | 8.184573446 | 8.19142666 | 8.297226941 |
| Gabbr2 | 7.651283602 | 7.5860562 | 7.330732364 | 7.583793375 | 7.435429209 | 7.97422651 |
| Gabpb2 | 9.245393114 | 9.26269575 | 9.331122063 | 9.029308328 | 9.123411278 | 9.078299456 |
| Gabrb1 | 5.157627734 | 5.894843895 | 5.038690263 | 5.550080729 | 5.579097119 | 5.958045085 |
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| Gabrg2 | 9.265737785 | 9.404370252 | 9.351717838 | 9.507791936 | 9.468854777 | 9.508566972 |
| Gad1os | 2.565099681 | 2.205919617 | 2.346809092 | 2.625832949 | 2.007489679 | 2.303023309 |
| Gad2 | 10.44385051 | 10.31094311 | 10.42595603 | 10.25676518 | 10.35921372 | 10.36286322 |
| Galc | 7.413392962 | 7.093864321 | 7.385028612 | 7.336234532 | 7.224193168 | 6.934649122 |
| Galnt10 | 7.296009232 | 7.520823978 | 7.023583845 | 7.199585062 | 7.348657141 | 7.511727889 |
| Galnt18 | 6.015411544 | 6.207040629 | 6.09529247 | 5.759024621 | 6.171028365 | 6.863708404 |
| Gap43 | 10.92345619 | 11.0159251 | 10.88981194 | 10.9149043 | 10.9589055 | 10.97891211 |
| Garnl3 | 7.288797629 | 7.441697696 | 7.006366839 | 7.382062272 | 7.724456908 | 7.804683367 |
| Gas1 | 8.583493505 | 8.360674473 | 8.441871979 | 8.189736678 | 7.984448429 | 7.940151466 |
| Gas2l1 | 6.397069404 | 6.59613151 | 6.466552201 | 6.363150301 | 5.968657436 | 6.178670863 |
| Gas7 | 8.326078235 | 8.328778287 | 8.683081269 | 8.452842071 | 8.767531156 | 9.154577076 |
| Gata3 | 6.720197947 | 6.5465702 | 6.698639411 | 7.229976337 | 6.383814838 | 6.710417912 |
| Gatad2b | 8.146234916 | 7.853938836 | 8.205856719 | 7.795029296 | 7.941608657 | 7.97422651 |
| Gbp10 | 1.476947654 | 2.978340632 | 1 | 2.358763209 | 2.230948887 | 2.976330056 |
| Gcnt1 | 4.143380003 | 3.913456893 | 3.493254909 | 3.370835508 | 3.597423784 | 3.780271631 |
| Gdf10 | 4.143380003 | 3.913456893 | 3.990174756 | 3.752118759 | 3.9516001 | 4.585672437 |
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| Gfm2 | 8.635586996 | 8.86194212 | 9.041074296 | 8.435559803 | 8.632026291 | 8.118325412 |
| Gfod1 | 7.835785313 | 7.708287709 | 7.122782017 | 7.704139468 | 7.604749556 | 7.665628876 |
| Gfpt1 | 10.11021867 | 9.966401344 | 10.08623319 | 9.984084224 | 10.09439798 | 10.20142658 |
| Gfra4 | 5.391052138 | 5.537067746 | 5.287019574 | 5.866103848 | 5.3361254 | 5.569584671 |
| Ggnbp1 | 4.077947413 | 4.814389099 | 4.123905703 | 3.217496026 | 3.820170665 | 3.617319577 |
| Ggps1 | 9.004741357 | 8.936949232 | 8.661246298 | 8.890340207 | 8.789659863 | 8.921223372 |
| Ggta1 | 5.848873694 | 6.329313082 | 5.287019574 | 5.702349231 | 5.429281276 | 5.737711018 |
| Gins3 | 6.783137934 | 6.452829242 | 6.278560623 | 6.125188133 | 5.638828837 | 5.923581073 |
| Gipc1 | 8.737101111 | 8.835359626 | 8.949456506 | 8.444226815 | 8.514704441 | 8.532671532 |
| Gja5 | 4.716516059 | 3.56087634 | 4.46371154 | 2.851100857 | 3.514815644 | 2.976330056 |
| Gjb6 | 5.125603781 | 5.341696146 | 5.342954171 | 4.447508334 | 4.983617975 | 5.099463222 |
| Gldc | 8.374570657 | 8.369252424 | 8.522805096 | 7.861244686 | 8.08807928 | 8.103007018 |
| Gldn | 2.121272526 | 1 | 1 | 2.358763209 | 2.885350385 | 3.617319577 |
| Gli3 | 10.02815067 | 9.892949207 | 10.38157687 | 9.918732044 | 9.875995617 | 9.889516074 |
| Glra2 | 8.253847581 | 8.452338336 | 8.272183702 | 8.289300747 | 8.471552712 | 8.63206889 |
| Glra4 | 3.861704164 | 4.295897557 | 4.81963345 | 3.370835508 | 3.126983752 | 3.617319577 |
| Glt8d2 | 4.205973248 | 4.673735516 | 4.81963345 | 5.450355447 | 5.429281276 | 4.397591105 |
| Gltscr1 | 8.142239108 | 7.671768861 | 8.389711842 | 8.137253483 | 7.677759001 | 8.28370345 |

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| Glyctk | 9.131087683 | 8.853814935 | 9.18574769 | 9.110503108 | 8.776423411 | 8.817114729 |
| Gm10516 | 5.125603781 | 4.745775733 | 4.738542537 | 4.699958789 | 4.75079107 | 3.780271631 |
| Gm10536 | 1.834785459 | 2.978340632 | 1 | 3.045898796 | 2.885350385 | 4.494694577 |
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| Gm11944 | 5.980028937 | 6.07343753 | 6.719919814 | 6.036265739 | 6.548598415 | 6.149144468 |
| Gm13212 | 1.476947654 | 1 | 1 | 2.358763209 | 1.742960444 | 2.67860439 |
| Gm13710 | 2.36018646 | 1 | 1.825170741 | 1.605542449 | 3.234144523 | 1.793876829 |
| Gm14204 | 9.166930291 | 9.21431847 | 9.227207756 | 9.161324684 | 9.105880695 | 9.090001383 |
| Gm14327 | 1 | 1.40785378 | 1 | 2.358763209 | 3.011219987 | 1.793876829 |
| Gm14403 | 5.188956249 | 5.474837936 | 5.287019574 | 5.227488897 | 5.619191772 | 5.036351157 |
| Gm15708 | 4.716516059 | 4.089895615 | 4.738542537 | 4.863970092 | 5.014011403 | 5.099463222 |
| Gm16386 | 9.520929612 | 9.625756567 | 9.313731426 | 9.400545531 | 9.494679304 | 9.352153069 |
| Gm17066 | 9.088113801 | 8.890032051 | 8.782510115 | 8.937142783 | 9.273850704 | 9.018322268 |
| Gm17750 | 5.997828709 | 6.431144087 | 6.062349611 | 6.485757272 | 6.299961727 | 6.024597402 |
| Gm19395 | 3.298059683 | 3.093258183 | 3.031034773 | 4.224165625 | 4.128701845 | 4.671251885 |
| Gm19522 | 6.148854342 | 6.181291514 | 5.228828563 | 5.484368924 | 5.619191772 | 5.888273572 |
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| Gm20939 | 3.511354355 | 3.199693499 | 2.72911076 | 2.358763209 | 2.424393538 | 1.793876829 |
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| Gm6402 | 6.676658785 | 7.127962371 | 6.917057967 | 7.037212907 | 6.796030117 | 6.789098145 |
| Gm6682 | 4.533375098 | 4.911553418 | 4.123905703 | 5.305666106 | 4.516128927 | 4.585672437 |
| Gm9047 | 2.121272526 | 2.205919617 | 1.825170741 | 2.625832949 | 3.126983752 | 2.303023309 |
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| Gnb2l1 | 12.10544022 | 12.03580439 | 11.90771753 | 11.78621058 | 11.88015045 | 11.6588069 |
| Gnb5 | 7.237281091 | 7.40323246 | 7.274312476 | 7.382062272 | 7.553939654 | 7.428148153 |
| Gng10 | 7.959024809 | 7.937066195 | 7.437355307 | 7.91211235 | 8.066490754 | 8.297226941 |
| Gng2 | 11.87505365 | 11.91650664 | 11.98115885 | 11.98936732 | 11.98599776 | 12.07214707 |
| Gng8 | 3.861704164 | 3.712393585 | 2.72911076 | 2.030760869 | 2.747440291 | 1 |
| Gorasp1 | 7.036642281 | 7.141379091 | 7.13867163 | 6.905332463 | 6.822030152 | 7.034919655 |
| Gpbar1 | 3.178288549 | 2.205919617 | 2.346809092 | 1 | 2.230948887 | 1 |
| Gpm6a | 11.76046782 | 11.94380304 | 11.83521984 | 11.83522077 | 11.98527887 | 11.93775546 |
| Gpm6b | 11.4577624 | 11.4236533 | 11.5652574 | 11.48132265 | 11.56214662 | 11.5766283 |
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| Gpr137 | 7.617142431 | 7.680985601 | 7.45014572 | 7.345517279 | 7.372311406 | 7.706744944 |
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| Gprasp1 | 11.93748774 | 12.05675518 | 11.93242579 | 11.99932609 | 12.03914978 | 12.0413378 |
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| Gpsm2 | 8.925583285 | 8.837421913 | 8.949456506 | 8.591938723 | 8.490590601 | 8.549720638 |
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| Gpx4 | 8.85897298 | 8.882062009 | 8.757001731 | 8.486797657 | 8.407169622 | 8.492088822 |
| Gramd1b | 7.738563721 | 7.812605244 | 7.818939792 | 7.560066561 | 8.014824549 | 7.860406105 |
| Grb10 | 11.94151717 | 11.70690317 | 12.01867175 | 11.7866366 | 11.58320372 | 11.45972728 |
| Grb14 | 6.241413634 | 6.101166306 | 5.95875192 | 6.188458315 | 6.348472847 | 5.888273572 |
| Gria1 | 9.390571786 | 9.776319803 | 9.784289618 | 9.560560732 | 9.785295232 | 9.920430752 |
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| Gria3 | 8.290414903 | 8.512946884 | 8.396335926 | 8.444226815 | 8.592291682 | 8.432058627 |
| Grik1 | 7.593924365 | 7.874169869 | 7.629525334 | 8.099345118 | 7.760756566 | 7.665628876 |
| Grik3 | 9.827526414 | 9.961682211 | 10.27777791 | 10.01931242 | 10.08994651 | 10.23870012 |
| Grik4 | 6.585428507 | 6.244822593 | 6.028636913 | 6.081411933 | 6.073388388 | 6.468905804 |
| Grin2b | 9.988638917 | 10.32423951 | 10.27777791 | 10.22316682 | 10.3383476 | 10.37885135 |
| Grin2d | 5.219618891 | 5.537067746 | 5.726154136 | 6.4517769 | 6.087748098 | 5.697480352 |
| Grin3a | 8.235210372 | 8.319955531 | 7.950788095 | 8.194881497 | 8.339778551 | 8.730051656 |
| Gripap1 | 8.562715826 | 8.703635593 | 8.884977203 | 8.791918003 | 8.754089156 | 8.94719028 |
| Grk6 | 9.397293322 | 9.386171148 | 9.368659195 | 9.003151687 | 9.018634899 | 9.158287114 |
| Grm1 | 6.70943572 | 7.238214263 | 7.106715447 | 7.115265253 | 7.452174475 | 7.523282183 |
| Grm3 | 7.825854568 | 7.963743951 | 7.437355307 | 8.031948003 | 8.137230627 | 8.41355144 |
| Grm5 | 8.62130425 | 8.999066014 | 8.416027626 | 8.855026845 | 9.219461434 | 9.219940381 |
| Grm7 | 7.570326519 | 7.576210458 | 7.006366839 | 7.544029088 | 7.604749556 | 7.557400011 |
| Grm8 | 6.793366059 | 6.787483949 | 6.362144593 | 6.978757094 | 7.007173525 | 6.985655341 |
| Grwd1 | 6.92012595 | 7.121206929 | 7.245252952 | 6.942511838 | 6.93752779 | 6.648457271 |
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| Gsc | 1 | 1 | 1 | 2.030760869 | 1.418787199 | 1 |
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| Gsk3b | 11.76242157 | 11.57623757 | 11.8878767 | 11.62260535 | 11.81124237 | 11.74952593 |
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| Gsta4 | 6.083675251 | 5.926187346 | 5.885308556 | 5.484368924 | 5.516785121 | 5.569584671 |
| Gstm2 | 4.432277612 | 3.849499474 | 4.246285218 | 2.030760869 | 3.126983752 | 2.67860439 |
| Gstm5 | 8.336607562 | 8.212827193 | 8.13633283 | 8.060413729 | 7.999716434 | 8.214116523 |
| Gstp1 | 7.345505628 | 7.187378743 | 7.500202711 | 7.115265253 | 7.256330214 | 7.726871747 |
| Gtf2a1 | 9.701492381 | 9.643544992 | 9.811803909 | 9.78695692 | 9.670732655 | 9.554337699 |
| Gtf2h3 | 8.080934653 | 8.012016409 | 7.77894451 | 7.452487101 | 7.80053086 | 7.706744944 |
| Gtf2h5 | 8.340100329 | 8.497379785 | 8.307755651 | 8.147903975 | 8.253246977 | 8.503800836 |
| Gtf2ird1 | 9.180632088 | 9.215904615 | 9.162620643 | 9.243068661 | 9.04094595 | 9.285865894 |
| Gtse1 | 7.452643073 | 7.397652741 | 7.572175032 | 7.025709693 | 7.051803628 | 6.648457271 |
| Gucy1a2 | 10.01072335 | 9.909707029 | 9.829043681 | 9.915619154 | 9.907705171 | 9.87154849 |
| Gucy1a3 | 8.126144275 | 8.360674473 | 8.22830624 | 8.457130482 | 8.275371286 | 8.206969603 |
| Guk1 | 7.459082181 | 7.468558218 | 7.560426231 | 7.652718685 | 7.629498843 | 7.3781203 |
| Gxylt1 | 9.045960774 | 8.71265161 | 9.204741002 | 8.645531514 | 8.760825811 | 8.826471886 |
| Gxylt2 | 2.904029779 | 2.56572585 | 1.825170741 | 4.141311987 | 3.234144523 | 2.303023309 |
| Gyltl1b | 3.861704164 | 3.56087634 | 4.246285218 | 3.370835508 | 3.011219987 | 3.617319577 |
| H1f0 | 11.32437473 | 11.26262575 | 11.26941665 | 11.2666223 | 10.9807101 | 10.97891211 |
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| H2-K1 | 5.615166341 | 5.387455657 | 4.81963345 | 4.811344491 | 3.887381517 | 3.22300096 |
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| Hapln1 | 3.047666507 | 2.56572585 | 4.246285218 | 3.217496026 | 3.011219987 | 3.433590479 |
| Haus3 | 7.465492678 | 7.414327574 | 7.45014572 | 7.399993384 | 7.300152323 | 7.69657526 |
| Haus6 | 8.394864328 | 8.265854981 | 8.213378775 | 8.066040091 | 8.290969184 | 8.343585151 |
| Hax1 | 7.68463547 | 7.6578324 | 7.437355307 | 7.552070109 | 7.116262226 | 7.326295136 |
| Hbb-bh1 | 5.615166341 | 4.911553418 | 4.246285218 | 4.224165625 | 2.885350385 | 2.67860439 |
| Hbegf | 5.363857532 | 5.910600739 | 4.561255977 | 5.415520654 | 5.733194373 | 5.429238262 |
| Hcfc1 | 11.23198673 | 11.12546984 | 11.54005421 | 11.21057417 | 11.11777772 | 11.36337526 |
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| Hdac5 | 9.643308647 | 9.376275701 | 9.415063212 | 9.255432913 | 9.214562463 | 9.090001383 |
| Hdgfrp3 | 11.45010573 | 11.53743848 | 11.32862438 | 11.47604947 | 11.50042422 | 11.57454735 |
| Hdlbp | 10.80144267 | 10.87295106 | 10.99393332 | 10.82069895 | 10.77092375 | 10.75465884 |
| Heatr3 | 8.460519489 | 8.452338336 | 8.220861814 | 8.490986459 | 8.460560049 | 8.52119249 |
| Hectd2 | 7.870014287 | 7.882183508 | 7.86742339 | 7.560066561 | 8.033489886 | 7.940151466 |
| Hecw1 | 10.83153188 | 10.90132248 | 10.89917028 | 10.96168398 | 11.03960438 | 11.11590413 |
| Heg1 | 9.182578907 | 8.993528261 | 9.560758579 | 9.212954822 | 9.080974404 | 9.082210654 |
| Hells | 8.948646515 | 8.888043665 | 8.841950696 | 8.841968251 | 8.342774996 | 8.276893869 |
| Hepacam | 2.744494966 | 3.478699897 | 1.825170741 | 3.752118759 | 4.382735357 | 4.585672437 |
| Herc3 | 8.603976188 | 8.752540611 | 8.504527138 | 8.588033395 | 8.760825811 | 8.849602658 |
| Herc6 | 4.009405591 | 4.476126405 | 4.561255977 | 3.370835508 | 4.428584041 | 3.617319577 |
| Herpud1 | 7.79054855 | 7.662492862 | 7.487850347 | 7.47803465 | 7.184659224 | 7.665628876 |
| Hes5 | 8.595233479 | 8.262789074 | 8.213378775 | 8.031948003 | 7.872793531 | 8.071873474 |
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| Hipk1 | 10.59036048 | 10.52631505 | 10.75328168 | 10.61826412 | 10.62286835 | 10.50803948 |
| Hipk2 | 9.564878237 | 9.454945437 | 10.06352273 | 9.903099992 | 9.483862108 | 9.846471898 |
| Hipk3 | 9.316265547 | 9.480243425 | 9.506684501 | 9.265248583 | 9.577143778 | 9.421714901 |
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| Hist1h1d | 11.29453143 | 11.26032178 | 11.39792915 | 11.00186649 | 10.9807101 | 10.88575815 |
| Hist1h1e | 11.94954243 | 11.75078396 | 11.88846416 | 11.69292838 | 11.42679379 | 11.40378591 |
| Hist1h2ab | 9.418924527 | 9.114109383 | 9.053700219 | 8.871185604 | 8.745057734 | 8.798216354 |
| Hist1h2ac | 8.745027267 | 8.600552286 | 8.812536511 | 8.404808543 | 8.327730146 | 7.590729603 |
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| Hist1h2an | 7.898720599 | 7.874169869 | 8.01245271 | 7.955196258 | 7.312432268 | 7.415802885 |
| Hist1h2bb | 10.71732339 | 10.51282918 | 10.60818487 | 10.35425618 | 10.19648149 | 10.22284352 |
| Hist1h2bc | 9.30915474 | 9.250365749 | 9.415063212 | 9.074669371 | 8.858273628 | 8.989456097 |
| Hist1h2be | 9.949158534 | 10.02819207 | 9.993164176 | 9.733158755 | 9.577143778 | 9.557150723 |
| Hist1h2bf | 8.388131439 | 8.241143333 | 8.699243326 | 8.137253483 | 8.026052705 | 8.071873474 |
| Hist1h2bg | 9.47082841 | 9.357716408 | 9.382070486 | 9.158694032 | 8.92577144 | 8.867843915 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hist1h2bh | 8.826969347 | 8.701372758 | 8.720514888 | 8.345899565 | 8.36946657 | 8.52119249 |
| Hist1h2bj | 8.64408926 | 8.299156817 | 8.540854379 | 7.979250015 | 8.119868174 | 7.665628876 |
| Hist1h2bk | 8.663735161 | 8.525792373 | 8.709918311 | 8.194881497 | 8.224293608 | 8.04807432 |
| Hist1h2bl | 8.05990695 | 7.933214495 | 7.758523245 | 7.486450945 | 7.457713316 | 7.62330656 |
| Hist1h2bm | 10.17716771 | 9.944564364 | 9.846079874 | 9.664352621 | 9.79735917 | 9.393661963 |
| Hist1h2bn | 9.880058159 | 9.765529705 | 10.05726642 | 9.686437447 | 9.496025769 | 9.135882415 |
| Hist1h2bp | 6.397069404 | 6.168242543 | 6.028636913 | 5.759024621 | 5.579097119 | 4.494694577 |
| Hist1h3a | 9.098462387 | 8.89598082 | 8.841950696 | 8.426840409 | 8.253246977 | 8.221228213 |
| Hist1h3c | 9.405651443 | 9.195147452 | 9.212268861 | 8.838685049 | 8.820080675 | 8.849602658 |
| Hist1h3d | 8.658149292 | 8.548629906 | 8.870777137 | 8.418067996 | 8.1303107 | 8.071873474 |
| Hist1h3e | 10.40268789 | 10.16913347 | 10.37488452 | 10.02076175 | 9.847798094 | 9.74403627 |
| Hist1h3f | 9.801159086 | 9.613774587 | 10.07595455 | 9.532386811 | 9.359190849 | 9.446200997 |
| Hist1h3g | 8.925583285 | 8.851775965 | 9.162620643 | 8.708040605 | 8.639356216 | 8.503800836 |
| Hist1h3h | 8.319015748 | 8.369252424 | 8.328685292 | 8.110278101 | 7.945556175 | 7.982620987 |
| Hist1h3i | 9.276715131 | 9.309503309 | 9.512793796 | 9.063462118 | 8.901590584 | 8.849602658 |
| Hist1h4a | 9.443487141 | 9.532095051 | 9.54594017 | 9.265248583 | 9.125152677 | 8.921223372 |
| Hist1h4b | 8.715749301 | 8.673938219 | 8.767259269 | 8.17939167 | 8.08807928 | 8.290481041 |
| Hist1h4c | 9.834972263 | 9.83219777 | 9.939749302 | 9.520141784 | 9.622232877 | 9.525901608 |
| Hist1h4d | 11.57207816 | 11.58608313 | 11.770405 | 11.46384753 | 11.1802535 | 11.18664034 |
| Hist1h4f | 10.15254862 | 10.07088739 | 10.14050679 | 9.693724561 | 9.794078997 | 9.846471898 |
| Hist1h4h | 10.94081351 | 10.86942807 | 11.12434249 | 10.81067972 | 10.48794898 | 10.69588579 |
| Hist1h4j | 9.489820836 | 9.268821457 | 9.29258211 | 8.890340207 | 8.909695986 | 9.014233722 |
| Hist1h4k | 9.837445697 | 9.83632843 | 9.774152877 | 9.530353177 | 9.287911119 | 9.412424399 |
| Hist2h2ac | 9.058736506 | 9.017373159 | 9.057884423 | 8.747090646 | 8.548839046 | 8.663735651 |
| Hist2h2bb | 11.24228989 | 11.02861594 | 11.17144561 | 10.8421715 | 10.85675087 | 10.54676752 |
| Hist3h2a | 10.04536999 | 10.10552633 | 10.27777791 | 9.893638809 | 9.769793771 | 9.797353168 |
| Hist3h2ba | 9.797352676 | 9.571036186 | 9.905332003 | 9.556569415 | 9.524015063 | 9.424798487 |
| Hivep2 | 9.273065289 | 9.554833813 | 9.753663189 | 9.480665645 | 9.889378124 | 10.0011486 |
| Hk2 | 7.656896065 | 7.5860562 | 7.995101547 | 7.32689167 | 7.217678952 | 6.985655341 |
| Hmcn1 | 7.722595849 | 7.489692277 | 7.074035358 | 7.426478983 | 7.485092966 | 7.352440416 |
| Hmg20b | 7.393360064 | 7.023150898 | 6.917057967 | 6.644599561 | 6.589537655 | 6.648457271 |
| Hmga2 | 7.01057699 | 6.681264926 | 7.37164492 | 6.659562717 | 6.184452741 | 6.119001134 |
| Hmgb2 | 8.85897298 | 8.578528251 | 8.880259361 | 8.832096146 | 8.457798746 | 8.41974692 |
| Hmgcl | 6.698592606 | 6.463550801 | 6.781940076 | 6.188458315 | 5.838844419 | 5.991704972 |
| Hmgn5 | 5.249643377 | 5.088211387 | 6.610232669 | 5.305666106 | 5.579097119 | 5.656095563 |
| Hmx1 | 3.298059683 | 2.205919617 | 1 | 1 | 1 | 1 |
| Hn1 | 11.52067683 | 11.48183219 | 11.36284762 | 11.20675906 | 11.41224776 | 11.36176723 |
| Hn1l | 9.864377223 | 9.715949979 | 9.997527416 | 9.724290616 | 9.481145088 | 9.598700853 |
| Hnrnpa0 | 11.14779704 | 10.94309955 | 11.11533685 | 10.96469915 | 11.00644792 | 10.96309134 |
| Hnrnpa1 | 7.152415964 | 6.717547177 | 7.259855879 | 7.259740587 | 6.742580658 | 6.934649122 |
| Hnrnpa2b1 | 11.33753989 | 11.24253466 | 11.43941223 | 11.27514847 | 11.12953722 | 11.23311479 |
| Hnrnpa3 | 9.698774295 | 9.683071419 | 9.870073528 | 9.671751857 | 9.827619753 | 9.595967765 |
| Hnrnpab | 12.00560311 | 12.00746449 | 11.99922154 | 12.00994653 | 11.87472627 | 11.89002449 |
| Hnrnpd | 10.48071008 | 10.29227019 | 10.59240651 | 10.52227442 | 10.54304903 | 10.60093417 |
| Hnrnpdl | 11.35404513 | 11.18620106 | 11.42895085 | 11.40956197 | 11.36513184 | 11.39044107 |
| Hnrnph1 | 12.36124968 | 12.38080322 | 12.5728445 | 12.3858806 | 12.29202832 | 12.39777132 |
| Hnrnph3 | 7.244754184 | 7.023150898 | 7.706168466 | 7.363905487 | 6.961118584 | 7.034919655 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hnrnpm | 10.94311212 | 10.88596165 | 11.11734296 | 10.86897281 | 10.62901803 | 10.76807524 |
| Hnrnpu | 12.72458101 | 12.75118591 | 12.98025092 | 12.77918065 | 12.69426962 | 12.67269854 |
| Hnrnpul1 | 10.3959915 | 10.41403349 | 10.883932 | 10.53145438 | 10.39212885 | 10.48754138 |
| Hnrnpul2 | 10.34649021 | 10.27563568 | 10.73118185 | 10.30037944 | 10.43277146 | 10.5225047 |
| Hook1 | 9.283987232 | 9.250365749 | 9.111202775 | 9.334482506 | 9.363623235 | 9.32929739 |
| Hook3 | 11.20494477 | 11.21384926 | 11.30769385 | 11.25620089 | 11.41117763 | 11.23750559 |
| Hopx | 5.46968923 | 5.672612041 | 5.448709844 | 3.959799763 | 4.638225882 | 4.585672437 |
| Hoxb2 | 1.834785459 | 2.716760345 | 1 | 1.605542449 | 2.230948887 | 3.780271631 |
| Hoxd1 | 2.904029779 | 1.40785378 | 1 | 1 | 1 | 1.793876829 |
| Hpca | 6.066909744 | 6.155074467 | 5.807924923 | 6.188458315 | 6.742580658 | 6.56147301 |
| Hpcal4 | 5.768201518 | 6.690421389 | 6.334817815 | 6.502451963 | 7.24995982 | 6.56147301 |
| Hps1 | 7.08740126 | 6.625071112 | 6.610232669 | 7.249887243 | 6.579411241 | 7.187950923 |
| Hpse2 | 1 | 1.40785378 | 1 | 1 | 1 | 1 |
| Hs6st2 | 8.434614855 | 8.680845918 | 8.661246298 | 8.595833508 | 8.684933763 | 8.684467147 |
| Hsd3b2 | 1.476947654 | 1.985596612 | 1 | 2.358763209 | 3.9516001 | 2.976330056 |
| Hsd3b6 | 5.307880412 | 3.712393585 | 3.990174756 | 4.053408608 | 3.597423784 | 4.585672437 |
| Hsf2 | 9.510117678 | 9.373435919 | 9.456855823 | 9.322780184 | 9.348795347 | 9.244580598 |
| Hsp90ab1 | 12.99766999 | 12.86978297 | 13.22780292 | 12.98474873 | 12.84122023 | 12.95535834 |
| Hsp90b1 | 11.42976026 | 11.60617983 | 11.67215708 | 11.31172114 | 11.30264116 | 11.21897375 |
| Hspa12a | 9.33913656 | 9.346175488 | 9.372023724 | 9.252968526 | 9.472963192 | 9.403073682 |
| Hspa5 | 10.97940036 | 11.27599276 | 11.20201443 | 10.73676369 | 10.86511141 | 10.88015267 |
| Hspa8 | 13.38114206 | 13.57406077 | 13.68727912 | 13.2445021 | 13.1966074 | 13.20825642 |
| Hspa9 | 10.7472276 | 10.69275147 | 10.7153756 | 10.63350147 | 10.4913285 | 10.49048757 |
| Hspe1 | 8.586437467 | 8.750353253 | 8.802596988 | 8.700825624 | 8.412883623 | 8.689603805 |
| Hspg2 | 9.917946473 | 9.643544992 | 10.06975203 | 9.607614589 | 9.676682073 | 9.683533126 |
| Htatsf1 | 9.32686647 | 9.122590253 | 9.107170597 | 9.113223033 | 9.130364297 | 9.154577076 |
| Htr1d | 1 | 1 | 1 | 1.605542449 | 2.747440291 | 2.303023309 |
| Htr3a | 3.607234804 | 4.089895615 | 2.346809092 | 3.752118759 | 3.333892988 | 4.293477201 |
| Htra1 | 5.391052138 | 6.101166306 | 5.885308556 | 5.813557456 | 6.171028365 | 5.923581073 |
| Htra3 | 4.077947413 | 4.089895615 | 4.46371154 | 2.625832949 | 3.675556897 | 3.780271631 |
| Hus1 | 7.43967799 | 7.436265054 | 7.662872168 | 7.126078702 | 7.452174475 | 6.863708404 |
| Id1 | 6.342390651 | 6.257199856 | 5.885308556 | 5.144831462 | 6.275080428 | 5.852080256 |
| Id3 | 7.303184965 | 7.3053112 | 6.415292686 | 6.732135518 | 7.164478434 | 6.690058614 |
| Id4 | 10.49252872 | 10.4133424 | 10.50623174 | 10.2775252 | 10.2211159 | 10.37407349 |
| Ids | 10.05496629 | 10.15100748 | 10.16398817 | 10.13491039 | 10.45717169 | 10.33527003 |
| Ier5l | 7.160340601 | 7.14804095 | 6.698639411 | 6.125188133 | 6.463060749 | 6.178670863 |
| Ifngr2 | 8.080934653 | 8.325843359 | 7.986347078 | 8.250295724 | 8.214511904 | 8.549720638 |
| Ift122 | 8.535554284 | 8.337547416 | 8.473539665 | 8.153199881 | 8.037194149 | 8.079720074 |
| Ift52 | 7.112126384 | 7.200256538 | 7.437355307 | 7.808517735 | 7.682497401 | 7.665628876 |
| Igdcc3 | 7.303184965 | 7.127962371 | 6.917057967 | 6.468867128 | 6.648847398 | 6.263788702 |
| Igdcc4 | 8.677605939 | 8.767759953 | 8.677653429 | 8.812146937 | 8.802775977 | 9.010133557 |
| Igf1r | 11.44686967 | 11.43459306 | 11.73752415 | 11.40845515 | 11.3691787 | 11.49169163 |
| Igf2bp1 | 10.22518028 | 9.872981632 | 10.25791063 | 9.906239982 | 9.722264248 | 9.688673104 |
| Igf2bp2 | 8.971346845 | 8.814572975 | 9.324190943 | 8.835394359 | 8.520008774 | 8.876878777 |
| Igf2bp3 | 9.801159086 | 9.669244236 | 9.786812714 | 9.750733153 | 9.421456218 | 9.403073682 |
| Igf2r | 10.71799471 | 10.73981721 | 10.76356561 | 10.69924065 | 10.76758285 | 10.61854702 |
| Igfbp2 | 9.892005494 | 9.956947591 | 9.984397907 | 9.776699747 | 9.649109287 | 9.639087748 |

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| Igfbp3 | 6.561690132 | 6.886415994 | 6.062349611 | 6.208946435 | 6.619497285 | 6.690058614 |
| Igflr1 | 5.997828709 | 5.830037047 | 6.189834702 | 5.186752068 | 5.129560124 | 4.828538958 |
| Igip | 5.74730838 | 5.195006214 | 5.287019574 | 4.914743422 | 5.359984332 | 4.828538958 |
| Igsf1 | 4.840066407 | 5.115660327 | 4.652620793 | 5.305666106 | 4.952570441 | 5.099463222 |
| Igsf3 | 10.44385051 | 10.40641321 | 10.38657585 | 10.36113754 | 10.47980569 | 10.51094415 |
| Igsf8 | 9.382125588 | 9.279479255 | 9.548916053 | 9.197658858 | 8.94364477 | 9.038592978 |
| Igtp | 4.009405591 | 2.205919617 | 2.72911076 | 3.752118759 | 1.418787199 | 3.433590479 |
| Il10rb | 4.989887769 | 5.245578321 | 4.561255977 | 4.51488159 | 4.638225882 | 4.397591105 |
| Il1rap | 6.180371882 | 5.894843895 | 4.969302427 | 6.125188133 | 5.984092579 | 5.776850189 |
| Ilf3 | 11.09709182 | 11.05544041 | 11.3338099 | 11.19010932 | 11.02615353 | 11.1451771 |
| Immp2l | 3.178288549 | 2.56572585 | 1.825170741 | 4.053408608 | 3.234144523 | 4.181261307 |
| Incenp | 9.073499928 | 8.868007604 | 9.212268861 | 8.949371226 | 8.644222225 | 9.062547759 |
| Inppl1 | 9.052362782 | 8.645971851 | 8.661246298 | 8.584117467 | 8.237233561 | 8.401080089 |
| Intu | 7.722595849 | 7.986224415 | 7.932674443 | 7.760745934 | 7.778569541 | 7.579705073 |
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| Ipo5 | 10.98387288 | 10.93204458 | 11.06217391 | 10.85847407 | 10.78751319 | 10.75465884 |
| Ipw | 7.990481565 | 8.200061614 | 8.003803213 | 7.997030751 | 8.164583118 | 8.125924044 |
| Iqgap2 | 8.773722866 | 8.622245153 | 9.0283369 | 8.890340207 | 8.696692326 | 8.170694084 |
| Irak1 | 8.353987448 | 8.174186511 | 8.757001731 | 8.121128854 | 7.980606047 | 7.93150545 |
| Irak4 | 3.607234804 | 2.205919617 | 2.346809092 | 2.851100857 | 2.594940123 | 1.793876829 |
| Ireb2 | 11.11911381 | 10.87194537 | 11.02632336 | 11.04096008 | 11.18693852 | 10.9662694 |
| Irf3 | 8.154193484 | 8.161072823 | 8.342471581 | 7.788237489 | 7.495900972 | 7.93150545 |
| Irs4 | 6.256278888 | 5.910600739 | 5.038690263 | 5.866103848 | 5.905210499 | 5.477553384 |
| Irx3 | 7.019317849 | 6.956402762 | 6.415292686 | 6.229147667 | 6.262476989 | 6.881773285 |
| Isl1 | 8.504762638 | 8.405845235 | 8.402929735 | 8.104821966 | 8.062861048 | 8.118325412 |
| Isl2 | 5.059341058 | 4.03344674 | 1.825170741 | 1 | 2.594940123 | 2.67860439 |
| Itgb5 | 7.168221945 | 7.05185351 | 6.540180369 | 6.434481791 | 6.599593485 | 6.538882047 |
| Itm2a | 7.593924365 | 7.643759998 | 7.230500702 | 7.774557194 | 7.584639817 | 6.968852843 |
| Itm2c | 9.215279113 | 9.353399375 | 9.178079794 | 9.011923365 | 9.104115863 | 9.143389375 |
| Jag1 | 8.94406327 | 8.780678523 | 8.777444392 | 8.812146937 | 8.609810382 | 8.684467147 |
| Jam2 | 9.048097935 | 8.98796917 | 8.880259361 | 9.049329502 | 8.931753854 | 9.034561557 |
| Jam3 | 8.950932689 | 8.820840478 | 8.797601428 | 8.607455169 | 8.602328401 | 8.375809226 |
| Jarid2 | 10.02489904 | 9.917526212 | 10.31496302 | 9.982597549 | 10.02520683 | 10.06578516 |
| Jazf1 | 7.743847311 | 7.787224452 | 7.259855879 | 7.739777923 | 7.817862347 | 7.716843444 |
| Josd1 | 8.694076732 | 8.535987045 | 8.205856719 | 8.359709005 | 8.297161428 | 8.572143824 |
| Jph2 | 1.476947654 | 1.40785378 | 1 | 2.030760869 | 3.427188559 | 3.22300096 |
| Jup | 8.377972821 | 8.530898714 | 8.522805096 | 8.327278922 | 8.415732159 | 8.28370345 |
| Kansl2 | 8.960041328 | 9.051529432 | 9.107170597 | 8.867968299 | 8.668309087 | 8.54405996 |
| Kat6a | 11.1827457 | 11.09260774 | 11.49370274 | 11.15622206 | 11.15319929 | 11.14891136 |
| Kcna4 | 6.6087826 | 6.978997016 | 5.994117534 | 6.85422089 | 7.191323905 | 6.789098145 |
| Kcna6 | 7.88443884 | 7.816792302 | 7.583828927 | 7.32689167 | 7.533103826 | 7.736830824 |
| Kcnc1 | 8.652541711 | 8.782820417 | 8.422532248 | 8.750588791 | 8.895481508 | 8.890325857 |
| Kcne2 | 5.868356087 | 5.830037047 | 5.994117534 | 5.813557456 | 5.495401678 | 5.776850189 |
| Kcnh1 | 6.100248163 | 6.194223517 | 6.189834702 | 5.989661022 | 6.383814838 | 6.207605066 |
| Kcnip1 | 7.50958588 | 7.816792302 | 7.200535793 | 7.5993972 | 7.860301472 | 8.095286392 |
| Kcnj11 | 5.568285206 | 6.016328018 | 6.44115009 | 6.229147667 | 6.452002941 | 6.769826698 |
| Kcnn3 | 7.331536226 | 7.770052417 | 7.86742339 | 7.880530849 | 7.696619933 | 8.235347278 |

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| Kcnq3 | 8.146234916 | 8.271967317 | 8.167646663 | 8.110278101 | 8.214511904 | 8.33049125 |
| Kcnq5 | 5.092852815 | 5.318260347 | 4.652620793 | 5.450355447 | 6.04423294 | 5.814955531 |
| Kcp | 6.500576958 | 7.134686327 | 7.106715447 | 7.126078702 | 6.77843274 | 6.750294335 |
| Kctd12 | 9.377034031 | 9.505105441 | 9.299666387 | 9.404992002 | 9.591071113 | 9.909465686 |
| Kdelr1 | 8.189473526 | 7.829281054 | 8.0715893 | 7.880530849 | 7.917693995 | 7.948745976 |
| Kdelr3 | 5.307880412 | 5.672612041 | 4.246285218 | 5.011224712 | 5.157057049 | 5.327464956 |
| Kdm1b | 8.814468713 | 8.901905161 | 8.856435913 | 8.970524722 | 8.856178116 | 8.951473019 |
| Kdm2a | 10.3237364 | 10.31464886 | 10.51081757 | 10.21179121 | 10.19316489 | 10.18515261 |
| Kdm3a | 10.27894397 | 10.22769763 | 10.24878881 | 10.14424897 | 10.15105095 | 9.974039779 |
| Kdm5d | 1 | 1 | 1 | 1 | 9.755248875 | 9.90284642 |
| Kdm6a | 10.0019301 | 9.89096484 | 10.1365558 | 9.65691524 | 9.294116475 | 9.209250084 |
| Kdm6b | 9.045960774 | 9.13102156 | 9.509742382 | 9.50572331 | 8.969077051 | 9.683533126 |
| Khsrp | 10.12750211 | 9.880001762 | 10.19850884 | 9.825614073 | 9.665955392 | 10.08345433 |
| Kidins220 | 12.68152014 | 12.76560745 | 12.70377767 | 12.74056136 | 12.75162011 | 12.85262738 |
| Kif11 | 10.47991871 | 10.36340891 | 10.45321394 | 10.36684704 | 10.24132805 | 10.12954075 |
| Kif15 | 9.694687539 | 9.473628949 | 9.601458241 | 9.375841913 | 9.514745503 | 9.054606944 |
| Kif18a | 8.36431576 | 8.055186002 | 7.977539161 | 7.930734648 | 7.826450633 | 7.756545074 |
| Kif20a | 8.826969347 | 8.730516349 | 8.908337734 | 8.552401406 | 8.386990494 | 8.497956714 |
| Kif21a | 11.56984865 | 11.55790678 | 11.65084755 | 11.51873098 | 11.51045234 | 11.5422578 |
| Kif21b | 12.02959609 | 12.11444412 | 12.57467079 | 12.21598784 | 12.13041119 | 12.39108646 |
| Kif22 | 8.454086807 | 8.357803784 | 8.688488764 | 8.0938474 | 8.253246977 | 7.851267163 |
| Kif23 | 9.043820443 | 8.678547025 | 8.949456506 | 8.785111498 | 8.738246871 | 8.297226941 |
| Kif26b | 9.400642383 | 9.34182373 | 9.090928239 | 9.240583044 | 9.276987105 | 9.440118324 |
| Kif27 | 6.573608143 | 6.194223517 | 5.228828563 | 6.146587985 | 6.275080428 | 5.613488471 |
| Kif2a | 10.12345401 | 9.937852183 | 10.00404763 | 10.05370086 | 10.10767059 | 10.07169896 |
| Kif2c | 8.598153606 | 8.331707257 | 8.498382661 | 8.194881497 | 8.077325398 | 7.965782904 |
| Kif3b | 9.344363391 | 9.433292307 | 9.405244375 | 9.520141784 | 9.370980419 | 9.668002394 |
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| Kitl | 9.100523226 | 9.183845572 | 9.204741002 | 9.091318683 | 9.424287895 | 9.302725401 |
| Klc1 | 11.43752537 | 11.51860474 | 11.36538193 | 11.38670066 | 11.32061071 | 11.43011089 |
| Klf12 | 9.857081979 | 9.889971632 | 10.08828016 | 9.995922792 | 9.965223504 | 9.939960272 |
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| Klhl42 | 8.485967179 | 8.302146483 | 8.307755651 | 7.91834653 | 8.237233561 | 8.095286392 |
| Klhl8 | 8.138232202 | 8.196852492 | 8.220861814 | 8.184573446 | 8.303327208 | 7.869487519 |
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| Kmt2e | 11.05626629 | 10.94357828 | 11.31819707 | 11.12016812 | 11.12736676 | 11.10633311 |
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| Knstrn | 8.789137729 | 8.525792373 | 8.736265233 | 8.66419935 | 8.278504386 | 8.343585151 |
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| Kpna3 | 10.08024869 | 9.963571717 | 10.08623319 | 10.0831327 | 10.03635479 | 10.06578516 |
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| Lama1 | 9.241663061 | 9.223809287 | 9.355122062 | 9.066272104 | 9.162941098 | 8.942894789 |
| Lama2 | 8.223911375 | 7.940907639 | 8.054939026 | 7.535942998 | 7.984448429 | 7.726871747 |
| Lama4 | 9.035227223 | 8.927299847 | 8.83708979 | 8.785111498 | 8.733688366 | 8.867843915 |
| Lamb1 | 9.458026451 | 9.430562671 | 9.431280882 | 9.032185563 | 9.378300273 | 9.25847405 |
| Lamb2 | 8.829456528 | 8.859914612 | 8.79258851 | 8.524066114 | 8.527928886 | 8.444266158 |
| Lamc3 | 7.651283602 | 7.500144332 | 7.72733891 | 7.199585062 | 7.137123938 | 6.968852843 |
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| Laptm4b | 7.324500472 | 7.05185351 | 7.18531667 | 7.059947778 | 7.177963611 | 6.750294335 |
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| Lefty2 | 1 | 1 | 1 | 1.605542449 | 2.747440291 | 2.303023309 |
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| Lfng | 8.034262341 | 7.833420063 | 8.112393197 | 7.637684005 | 7.354607166 | 7.299667279 |
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| Lifr | 8.904506365 | 8.595687029 | 8.441871979 | 8.588033395 | 8.665918417 | 8.549720638 |
| Lig4 | 7.465492678 | 7.595835205 | 7.905070272 | 7.552070109 | 7.864477522 | 7.77599356 |
| Lin52 | 7.168221945 | 7.161273086 | 6.988941883 | 6.801231826 | 6.872665379 | 6.845414449 |
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| Llgl1 | 10.26890018 | 10.05502435 | 10.349508 | 10.02365607 | 9.82226242 | 9.980341025 |
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| Lrfn4 | 9.157063004 | 9.142743218 | 8.980646719 | 9.009005394 | 8.724527918 | 9.066501836 |
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| Lrp4 | 9.698774295 | 9.801891466 | 10.0446718 | 9.645686781 | 9.57841547 | 9.683533126 |
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| Lrp8 | 11.04346856 | 11.08090509 | 11.41270682 | 11.20229531 | 11.21990671 | 11.37298598 |
| Lrpap1 | 9.035227223 | 9.241048598 | 9.216018112 | 9.049329502 | 8.972950221 | 9.026464761 |
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| Lsm14a | 9.199983065 | 9.011905367 | 9.158729833 | 9.003151687 | 9.075580937 | 9.022399259 |
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| Ltbp1 | 7.898720599 | 8.00101911 | 8.409493545 | 7.880530849 | 7.961239115 | 7.590729603 |
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| Map1b | 14.92620803 | 14.99437093 | 15.20629489 | 15.05129011 | 15.02543874 | 15.12585957 |
| Map2 | 13.20474637 | 13.32897204 | 13.36961963 | 13.28501952 | 13.37248985 | 13.47540978 |
| Map2k3 | 6.643119837 | 6.42017804 | 6.127499866 | 5.550080729 | 5.838844419 | 5.888273572 |
| Map2k4 | 9.092262148 | 9.033653289 | 8.894366855 | 9.14812319 | 9.275419757 | 9.124548224 |
| Map2k5 | 7.940736694 | 7.571262274 | 7.932674443 | 7.591616383 | 7.614700277 | 7.686333379 |
| Map3k13 | 8.609775365 | 8.561162936 | 8.460955881 | 8.611308345 | 8.541033209 | 8.826471886 |
| Map3k5 | 5.829124602 | 5.690976344 | 4.246285218 | 5.517598924 | 5.495401678 | 5.273752905 |

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| Map3k7 | | 10.11939451 | 10.06913342 | 10.05308042 | 9.995922792 | 10.11118943 | 10.15018151 |
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| Map7 | | 6.032782666 | 5.364757319 | 5.287019574 | 4.914743422 | 5.473696519 | 5.697480352 |
| Map9 | | 9.697413329 | 9.882999964 | 9.774152877 | 9.800520688 | 9.936750966 | 10.00938832 |
| Mapk10 | | 9.966211161 | 9.948385921 | 9.914590529 | 10.0663881 | 10.04741726 | 10.17603157 |
| Mapk6 | | 10.67369606 | 10.5610491 | 10.86256355 | 10.69742926 | 10.69205486 | 10.64125946 |
| Mapk7 | | 9.030911342 | 9.119203886 | 9.166500989 | 8.864743803 | 8.724527918 | 8.774239848 |
| Mapk8 | | 10.59036048 | 10.58026416 | 10.66825953 | 10.59412881 | 10.54760121 | 10.69205177 |
| Mapre2 | | 9.44186258 | 9.506402174 | 9.684987654 | 9.530353177 | 9.702571912 | 9.751423825 |
| Mapt | | 12.01109121 | 12.15531604 | 12.20517947 | 12.1745948 | 12.09041294 | 12.34218179 |
| | 6-Mar | 11.44362634 | 11.47124613 | 11.45852848 | 11.34160238 | 11.57430792 | 11.48579815 |
| | 9-Mar | 7.999344653 | 8.131123803 | 8.190693919 | 7.821881231 | 7.949492922 | 8.110686546 |
| Marcks | | 12.76671825 | 12.6389077 | 12.62277351 | 12.67372899 | 12.78339646 | 12.74294329 |
| Marveld1 | | 5.829124602 | 5.744707001 | 6.189834702 | 5.379823897 | 5.262085683 | 4.828538958 |
| Mast4 | | 9.499224104 | 9.543509231 | 9.256629333 | 9.442243721 | 9.535846219 | 9.773362192 |
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| Matn1 | | 1 | 1.40785378 | 1 | 1 | 1.742960444 | 1 |
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| Matn3 | | 1 | 1.40785378 | 1 | 1.605542449 | 2.424393538 | 1 |
| Matn4 | | 1 | 1.40785378 | 1 | 1 | 2.424393538 | 1 |
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| Mbd6 | | 7.484555014 | 7.200256538 | 8.128397009 | 7.725628009 | 7.224193168 | 7.766302089 |
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| Mcm3 | | 9.0963986 | 9.011905367 | 9.174230508 | 8.988412655 | 8.661125159 | 8.610564849 |
| Mcm5 | | 9.423870619 | 9.165904635 | 9.569577112 | 9.260349096 | 8.94364477 | 8.807696486 |
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| Mdm2 | | 9.483517767 | 9.349069385 | 9.256629333 | 9.296695988 | 9.336822321 | 9.010133557 |
| Med12 | | 9.849749658 | 9.65411371 | 10.1106072 | 9.693724561 | 9.608604552 | 9.773362192 |
| Med13 | | 11.29498142 | 11.28433193 | 11.45931952 | 11.30816466 | 11.46854368 | 11.46497928 |
| Med14 | | 10.17619097 | 10.04345825 | 10.33578911 | 10.04090106 | 10.10590795 | 10.03382884 |
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| Mef2c | | 9.194204976 | 9.220652613 | 9.057884423 | 9.431386827 | 9.482504238 | 9.528770572 |
| Meg3 | | 12.77173827 | 12.79853105 | 12.99886909 | 13.06438292 | 12.95757358 | 13.29654324 |
| Megf11 | | 8.204880811 | 8.46306353 | 8.22830624 | 8.322585966 | 8.36652511 | 8.679312136 |
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| Megf8 | | 10.41184497 | 10.30126336 | 10.30795364 | 10.31699073 | 10.13644751 | 10.37566787 |
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| Mrps17 | 8.166049617 | 8.141176048 | 8.328685292 | 7.949119629 | 7.901527776 | 8.063983964 |
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| Nr2f1 | 9.997513298 | 9.764446243 | 10.27238663 | 9.78695692 | 9.867698098 | 9.864752533 |
| Nr2f2 | 9.969597632 | 9.860867072 | 10.2973753 | 9.903099992 | 9.913762813 | 9.999081295 |
| Nr3c1 | 7.558381255 | 7.653156834 | 7.106715447 | 7.345517279 | 7.318533265 | 7.216701442 |
| Nr4a2 | 7.968082659 | 7.808405999 | 7.895750249 | 7.637684005 | 7.54875884 | 7.665628876 |
| Nr4a3 | 6.537554618 | 6.605842688 | 6.610232669 | 6.717910076 | 6.976634162 | 7.050974221 |
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| Nrxn1 | 11.32657728 | 11.51956835 | 11.24209716 | 11.36518371 | 11.4471238 | 11.52727317 |
| Nsdhl | 7.420009252 | 7.484437716 | 7.13867163 | 7.126078702 | 7.682497401 | 7.352440416 |
| Nsf | 9.245393114 | 9.370590537 | 9.143060805 | 9.294301144 | 9.339824906 | 9.345659739 |
| Nsg1 | 11.00437982 | 11.09001535 | 10.96414721 | 10.86977725 | 10.92881197 | 11.07625289 |
| Nsg2 | 12.05213215 | 12.23099927 | 12.11719472 | 12.06787783 | 12.0751793 | 12.1732433 |
| Nsun7 | 5.726108215 | 6.364061526 | 6.93536751 | 6.036265739 | 6.157477901 | 6.5159317 |
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| Nudcd2 | 7.588060991 | 7.726206233 | 7.344499199 | 7.199585062 | 7.412795491 | 7.47649919 |
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| Nufip2 | 10.81907088 | 10.71927483 | 10.8323501 | 10.66164487 | 10.73488222 | 10.516736 |
| Nup37 | 7.019317849 | 6.829533096 | 7.057413452 | 6.363150301 | 6.429629768 | 6.291080771 |
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| Nxpe3 | 6.049947112 | 5.910600739 | 6.249587406 | 5.379823897 | 5.804480268 | 5.217963548 |
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| Oc90 | 2.744494966 | 2.205919617 | 1.825170741 | 2.030760869 | 2.885350385 | 1.793876829 |
| Ocrl | 8.909216807 | 8.870023778 | 9.049503843 | 9.000215902 | 9.075580937 | 9.062547759 |
| Olfml1 | 4.009405591 | 3.638623163 | 3.280577348 | 3.959799763 | 4.473020427 | 4.181261307 |
| Olfml3 | 5.307880412 | 5.616073469 | 4.652620793 | 5.673154141 | 5.733194373 | 5.613488471 |
| Olfr1372-ps1 | 2.904029779 | 2.205919617 | 3.031034773 | 1.605542449 | 1 | 1 |
| Olfr1417 | 1.476947654 | 1.40785378 | 1 | 1 | 1 | 1 |
| Olfr55 | 1.476947654 | 1.725454411 | 1 | 1.605542449 | 1.742960444 | 1 |
| Olfr692 | 2.121272526 | 3.39155842 | 3.678570668 | 1 | 1.418787199 | 2.303023309 |
| Onecut2 | 10.06132855 | 9.83735925 | 9.791845706 | 9.926485008 | 9.96813712 | 9.804473349 |
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| Opcml | 7.738563721 | 8.08326439 | 7.695465596 | 8.303659976 | 8.318627347 | 8.637395189 |
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| Orai2 | 7.912862362 | 7.795734426 | 7.758523245 | 7.835122077 | 7.843475333 | 8.155924569 |
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| Osbp2 | 6.525333738 | 7.219360232 | 6.09529247 | 6.880003011 | 7.0370798 | 6.881773285 |
| Osbpl1a | 8.193340801 | 8.499985994 | 8.063288183 | 8.400361505 | 8.36946657 | 8.221228213 |
| Ost4 | 7.191610894 | 7.468558218 | 7.169935286 | 6.892723325 | 6.929577683 | 6.56147301 |
| Otog | 1.476947654 | 1 | 1.825170741 | 1.605542449 | 1.742960444 | 1.793876829 |
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| Otx1 | 6.285557633 | 5.971961575 | 6.953447591 | 6.399256858 | 5.406550135 | 6.235970365 |
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| P2rx3 | 5.443950196 | 4.247088592 | 3.493254909 | 3.635872179 | 3.749675008 | 3.22300096 |
| P3h1 | 6.43676005 | 6.386770728 | 6.334817815 | 6.614199465 | 6.527684741 | 6.263788702 |
| P3h4 | 5.906548925 | 6.452829242 | 5.168191412 | 5.305666106 | 5.287190159 | 5.429238262 |
| P4ha1 | 8.25013935 | 8.228626944 | 8.029597669 | 8.147903975 | 8.211236542 | 7.896393726 |
| P4hb | 10.71194158 | 10.72039274 | 10.87209974 | 10.69652271 | 10.43698377 | 10.59273207 |
| Pabpc1 | 10.7887179 | 10.70296705 | 11.30064897 | 10.89923049 | 10.83297373 | 11.02129073 |
| Pafah1b3 | 9.55889537 | 9.486827713 | 9.709131687 | 9.320428285 | 9.341323858 | 9.244580598 |
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| Pak7 | 9.0963986 | 9.34472636 | 9.166500989 | 9.032185563 | 9.216197303 | 9.244580598 |
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| Pank3 | 11.17836216 | 11.0518925 | 11.1032412 | 11.08041283 | 11.17311656 | 11.13485777 |
| Papd5 | 8.887897636 | 8.909766627 | 9.0283369 | 8.927902946 | 8.941669744 | 8.968477963 |
| Papola | 10.90411881 | 10.85829947 | 11.14710471 | 10.84953046 | 10.83988303 | 10.83566598 |
| Papss2 | 5.092852815 | 5.55722848 | 5.287019574 | 4.579248421 | 4.78644219 | 4.828538958 |
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| Pdcd11 | 9.30379854 | 9.037246281 | 9.437717247 | 9.040782998 | 9.077381001 | 8.840394804 |
| Pddc1 | 7.679130094 | 7.576210458 | 7.662872168 | 7.189310683 | 7.204561609 | 7.066852093 |
| Pde10a | 9.462840508 | 9.590730966 | 9.942014857 | 9.673595752 | 9.671924503 | 9.731638986 |
| Pde1c | 8.479647215 | 8.507776492 | 8.088049603 | 8.461406184 | 8.54624179 | 8.497956714 |
| Pde4dip | 10.802709 | 10.92769556 | 10.76740326 | 10.77848515 | 10.85779859 | 10.98100849 |
| Pde6d | 6.92012595 | 7.53614148 | 7.344499199 | 6.598755774 | 6.63913022 | 6.845414449 |
| Pdgfra | 8.025611828 | 8.36639877 | 8.054939026 | 8.08278871 | 8.167966003 | 8.110686546 |
| Pdia4 | 9.910917793 | 10.0299965 | 9.9887877 | 9.761175941 | 9.649109287 | 9.623068404 |
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| Pdlim7 | 7.611372851 | 7.699244293 | 8.120417294 | 7.336234532 | 7.109240742 | 7.511727889 |
| Pdrg1 | 7.722595849 | 7.694701238 | 7.809044438 | 7.821881231 | 7.905586346 | 7.655164122 |
| Pebp1 | 9.99197321 | 10.10209962 | 9.862917238 | 9.845379193 | 9.790791349 | 9.790197672 |
| Peg10 | 10.87672375 | 10.54977339 | 10.96414721 | 10.69742926 | 10.65033781 | 10.68177761 |
| Peg12 | 7.58217369 | 7.28731932 | 7.536637639 | 7.443869719 | 7.066378704 | 7.272538694 |
| Peg3 | 11.4403757 | 11.36731766 | 11.58278648 | 11.34623398 | 11.31718702 | 11.33251191 |
| Peli1 | 9.68235735 | 9.713706391 | 9.937480185 | 9.724290616 | 9.878062561 | 9.766086408 |
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| Penk | 5.219618891 | 5.318260347 | 3.031034773 | 4.699958789 | 3.749675008 | 5.327464956 |
| Pfdn5 | 9.314491128 | 9.38052492 | 9.193375047 | 9.325128254 | 9.164635458 | 9.345659739 |
| Pfkfb2 | 9.180632088 | 9.388985996 | 9.494387746 | 9.270131487 | 9.360669825 | 9.268807034 |
| Pfkfb3 | 8.612666235 | 8.372100444 | 8.435454165 | 8.697204558 | 8.627118902 | 8.699822577 |
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| Pgam1 | 8.568682903 | 8.85788425 | 8.683081269 | 8.595833508 | 8.34576523 | 8.549720638 |
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| Pggt1b | 8.089260662 | 8.00101911 | 8.356127376 | 8.110278101 | 8.070111351 | 8.263177516 |
| Pgk1 | 10.02598373 | 10.05768033 | 9.993164176 | 9.708189289 | 9.734864594 | 9.731638986 |
| Pgm2 | 7.605580105 | 7.639038527 | 7.288625645 | 7.704139468 | 7.953418955 | 7.88748063 |
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| Phactr1 | 8.685864841 | 8.754724657 | 8.797601428 | 8.851773261 | 8.783056817 | 9.046622181 |
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| Phc2 | 10.03678602 | 9.900859494 | 10.11663689 | 9.879329669 | 9.613575215 | 9.691236242 |
| Phf12 | 9.280355763 | 9.105578363 | 9.348305562 | 9.088557107 | 8.995973385 | 9.042613165 |
| Phf14 | 10.85308294 | 10.92721153 | 10.8815733 | 10.90943781 | 10.90620243 | 10.89356941 |
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| Phldb2 | 8.796783834 | 8.479003289 | 8.672205092 | 8.355120529 | 8.306400244 | 8.185313927 |
| Phrf1 | 9.865589518 | 9.953148676 | 9.97778807 | 9.868101382 | 9.79735917 | 9.799730468 |
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| Pidd1 | 5.868356087 | 5.635166912 | 6.189834702 | 5.517598924 | 5.072942274 | 3.780271631 |
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| Piezo2 | 7.183856633 | 6.821220741 | 6.306963417 | 5.989661022 | 6.157477901 | 6.344163211 |
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| Pik3r2 | 9.412303249 | 9.366311913 | 9.497471774 | 9.366752857 | 9.36951198 | 9.434009897 |
| Pik3r4 | 8.60687869 | 8.510364005 | 8.644650427 | 8.580190881 | 8.54624179 | 8.432058627 |
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| Pip4k2c | 7.296009232 | 7.463225972 | 7.330732364 | 6.880003011 | 6.872665379 | 7.018684418 |
| Pira6 | 1 | 1 | 1 | 1.605542449 | 1 | 1 |
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| Pisd-ps1 | 8.231453863 | 8.354927372 | 8.704590692 | 8.373387513 | 8.351727169 | 8.249329503 |
| Pisd-ps3 | 10.87190583 | 11.03626698 | 11.22824094 | 10.91022001 | 10.6701548 | 10.58586118 |
| Pitpnb | 8.113954211 | 8.238024401 | 8.376371725 | 8.355120529 | 8.36652511 | 8.432058627 |
| Pitpnm2os1 | 4.077947413 | 4.089895615 | 4.123905703 | 2.625832949 | 3.333892988 | 2.67860439 |
| Pitx1 | 1.834785459 | 2.853470894 | 2.346809092 | 1 | 1.418787199 | 1 |
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| Pkdcc | 7.800724456 | 7.791485714 | 7.789047758 | 7.801789279 | 7.412795491 | 7.440388676 |
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| Pld2 | 6.410421315 | 6.257199856 | 6.491514775 | 5.759024621 | 6.348472847 | 6.178670863 |
| Pld4 | 4.205973248 | 3.638623163 | 3.031034773 | 3.635872179 | 4.072049632 | 3.617319577 |
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| Plin4 | 6.164699178 | 6.045165342 | 6.334817815 | 5.58184729 | 5.537856244 | 5.656095563 |
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| Poli | 6.843446461 | 6.795992396 | 6.860692416 | 6.268720836 | 6.101966287 | 6.444805259 |
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| Polr1d | 7.88443884 | 7.795734426 | 7.536637639 | 7.544029088 | 7.479658448 | 7.676018269 |
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| Polr2c | 7.850554425 | 8.117610921 | 8.112393197 | 7.841697207 | 7.969017113 | 7.50008031 |
| Polr2l | 6.70943572 | 6.484757804 | 6.306963417 | 6.125188133 | 6.440859724 | 6.845414449 |
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| Pou6f1 | 9.631954958 | 9.704696984 | 9.717090734 | 9.727844416 | 9.646686561 | 9.952834611 |
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| Ppig | 9.527071674 | 9.330154454 | 9.646608243 | 9.450870792 | 9.457841459 | 9.473260051 |
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| Ppp1r2 | 9.145132481 | 8.929234894 | 8.967361967 | 8.733012623 | 8.901590584 | 8.774239848 |
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| Prdx4 | 7.825854568 | 7.615196579 | 7.662872168 | 7.552070109 | 7.710605559 | 7.2023978 |

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| Prpf31 | 9.256525758 | 9.379109904 | 9.327660665 | 9.014835446 | 9.013002805 | 8.863305178 |
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| Prpf40a | 10.47754202 | 10.55730032 | 10.54996245 | 10.42820402 | 10.48930174 | 10.39309073 |
| Prph | 7.552371328 | 6.5465702 | 3.031034773 | 4.699958789 | 4.78644219 | 4.901186937 |
| Prr36 | 8.064137081 | 7.997334635 | 8.926757576 | 8.552401406 | 8.227539493 | 8.894780508 |
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| Prrc2c | 12.1466625 | 12.09432031 | 12.49744468 | 12.30015505 | 12.20393518 | 12.23075453 |
| Prrt3 | 5.943756695 | 5.387455657 | 5.104893407 | 5.101656215 | 5.383455101 | 6.263788702 |
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| Psmb6 | 9.9852969 | 10.09694425 | 10.15229525 | 9.906239982 | 9.783090909 | 9.766086408 |
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| Rab1 | 10.16441822 | 10.21506353 | 10.33406504 | 10.04802607 | 10.19730945 | 10.0378623 |
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| Rab18 | 8.955494197 | 8.874047693 | 8.81748071 | 9.220542415 | 9.248510971 | 9.018322268 |
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| Rac3 | 8.25013935 | 8.287135812 | 8.235712449 | 8.020402565 | 8.095204259 | 8.015718814 |
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| Rai1 | 9.882455554 | 9.662280629 | 10.05098285 | 9.876130494 | 9.504078273 | 9.89174637 |
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| Rap2c | 8.834418064 | 8.622245153 | 8.861232178 | 8.678961627 | 8.832924332 | 8.835768745 |

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| Rapgef4 | 7.229769085 | 7.735082723 | 7.475391307 | 7.591616383 | 8.04825021 | 7.814121237 |
| Rapgef5 | 8.801858816 | 8.894000621 | 8.83221245 | 8.902970099 | 9.001672222 | 9.018322268 |
| Rapgefl1 | 6.383592769 | 6.244822593 | 5.726154136 | 6.416976829 | 6.463060749 | 6.899614759 |
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| Rassf1 | 7.120274815 | 6.925715892 | 6.761561469 | 6.827969626 | 6.847569902 | 7.018684418 |
| Rassf10 | 4.75888608 | 4.847509657 | 4.123905703 | 3.959799763 | 4.235739691 | 4.494694577 |
| Raver1 | 6.410421315 | 6.257199856 | 6.988941883 | 6.614199465 | 6.312243287 | 6.207605066 |
| Rbbp6 | 10.41018436 | 10.28699817 | 10.69402757 | 10.48285739 | 10.41935074 | 10.51529022 |
| Rbbp8 | 8.394864328 | 8.203263614 | 8.435454165 | 7.949119629 | 8.011062327 | 7.488337929 |
| Rbfox1 | 9.263900079 | 9.685363119 | 9.598588894 | 9.530353177 | 9.596102449 | 9.804473349 |
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| Rbm10 | 9.623380667 | 9.591953008 | 9.794355633 | 9.50157714 | 9.338324395 | 9.173032585 |
| Rbm25 | 10.62656457 | 10.66398935 | 10.89917028 | 10.66442925 | 10.64549242 | 10.76321098 |
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| Rbm6 | 10.61939607 | 10.77413549 | 10.67372276 | 10.66628252 | 10.64549242 | 10.58586118 |
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| Rbmx | 11.21734261 | 11.24758373 | 11.32689172 | 11.15885722 | 11.1898535 | 11.25926134 |
| Rc3h2 | 11.4621767 | 11.38540229 | 11.33553428 | 11.40790142 | 11.50544699 | 11.40065703 |
| Rcan2 | 8.669299485 | 8.671628284 | 8.409493545 | 8.781696166 | 8.687293155 | 8.890325857 |
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| Rcn3 | 7.795645475 | 7.878182253 | 7.789047758 | 7.614834063 | 7.287766956 | 7.62330656 |
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| Rdx | 11.17933744 | 11.05100416 | 11.0818267 | 11.00699434 | 10.94467699 | 10.88351857 |
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| Reln | 11.8924049 | 12.05099065 | 12.06669925 | 11.95149241 | 11.97396916 | 12.00316719 |
| Reps2 | 7.634314007 | 8.349157286 | 7.876927609 | 8.060413729 | 8.306400244 | 8.303941444 |
| Rer1 | 8.801858816 | 8.85788425 | 8.797601428 | 8.909243823 | 8.692000395 | 8.858752117 |
| Rere | 10.52588189 | 10.54788551 | 10.98407279 | 10.63444848 | 10.60675539 | 10.86206736 |
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| Ret | 6.356255846 | 5.364757319 | 5.396800833 | 5.517598924 | 5.406550135 | 5.613488471 |
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| Rfc2 | 8.849201108 | 8.619850879 | 8.736265233 | 8.490986459 | 8.324702257 | 8.41974692 |
| Rfx2 | 5.494977093 | 5.195006214 | 6.159003922 | 4.863970092 | 4.638225882 | 5.379248858 |
| Rgag4 | 8.955494197 | 8.925362201 | 8.980646719 | 9.046486289 | 8.754089156 | 8.835768745 |
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| Rgs7bp | 6.597152809 | 6.653441599 | 5.726154136 | 6.502451963 | 6.474034446 | 6.934649122 |
| Rgs9 | 7.599764006 | 7.703773087 | 7.215596043 | 7.746801175 | 7.976753403 | 7.842069961 |
| Rhbdl3 | 8.849201108 | 8.810379461 | 9.150916591 | 8.626618954 | 8.649071877 | 8.263177516 |

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| Ric1 | 9.685106514 | 9.624562838 | 9.690388022 | 9.686437447 | 9.65152795 | 9.696348898 |
| Ric3 | 9.002538945 | 8.993528261 | 8.797601428 | 8.851773261 | 8.891394372 | 8.921223372 |
| Rif1 | 10.91352688 | 10.73705824 | 10.80149034 | 10.61730642 | 10.82442431 | 10.62392338 |
| Rimklb | 10.65208019 | 10.69104182 | 10.72461695 | 10.63823033 | 10.66417834 | 10.62660406 |
| Rims1 | 8.42477943 | 8.673938219 | 8.435454165 | 8.507621095 | 8.802775977 | 8.916849748 |
| Rims2 | 10.38335137 | 10.38964612 | 10.45321394 | 10.38271448 | 10.40149952 | 10.19421636 |
| Rims3 | 6.226393616 | 5.672612041 | 5.683462387 | 6.036265739 | 6.143798956 | 5.888273572 |
| Rims4 | 5.46968923 | 5.195006214 | 4.123905703 | 4.699958789 | 5.3361254 | 5.036351157 |
| Ripk2 | 5.519829329 | 5.813370024 | 5.847135518 | 5.484368924 | 5.3361254 | 4.494694577 |
| Ripk4 | 1.476947654 | 1.40785378 | 1.825170741 | 1 | 3.234144523 | 1 |
| Rita1 | 5.591916194 | 6.114833364 | 5.726154136 | 5.702349231 | 5.579097119 | 5.379248858 |
| Rlim | 10.88750559 | 10.74312101 | 10.92459704 | 10.77247541 | 10.86927358 | 10.83913716 |
| Rmi2 | 5.997828709 | 5.709109819 | 5.594091143 | 5.813557456 | 5.473696519 | 5.613488471 |
| Rmrp | 14.55818687 | 14.86096575 | 14.98232398 | 14.48063681 | 14.45550575 | 14.36141118 |
| Rnd3 | 11.15177751 | 11.03132095 | 10.84693154 | 10.93272115 | 10.89041825 | 10.87790436 |
| Rnf11 | 9.337390066 | 9.418214993 | 9.234619592 | 9.357606177 | 9.389935336 | 9.517260325 |
| Rnf112 | 7.706449263 | 7.993640727 | 7.789047758 | 7.91211235 | 7.995914555 | 7.957289588 |
| Rnf114 | 9.33913656 | 9.346175488 | 9.530967976 | 9.174406471 | 9.013002805 | 9.135882415 |
| Rnf130 | 10.90529818 | 10.99066688 | 10.82254661 | 10.82816798 | 10.96426602 | 11.1244641 |
| Rnf138 | 8.571657212 | 8.380610926 | 8.492211903 | 8.409241915 | 8.609810382 | 8.555359192 |
| Rnf14 | 10.05390318 | 10.12928805 | 9.719734022 | 10.10105602 | 10.00643332 | 9.974039779 |
| Rnf152 | 9.162991471 | 9.408537643 | 9.123232128 | 9.431386827 | 9.714188166 | 9.714101844 |
| Rnf165 | 8.973597356 | 8.793482441 | 9.365286802 | 9.140143917 | 8.951517946 | 9.296005222 |
| Rnf167 | 8.532504525 | 8.510364005 | 8.369655123 | 8.279647909 | 8.051916815 | 8.03198727 |
| Rnf187 | 10.69294555 | 10.85066227 | 10.78138795 | 10.56958286 | 10.49806388 | 10.67142976 |
| Rnf19b | 8.696803675 | 8.553656191 | 8.661246298 | 8.431206693 | 8.091646168 | 8.323899464 |
| Rnf2 | 10.0464394 | 10.01367481 | 10.04256197 | 9.944923879 | 10.12691884 | 9.988700102 |
| Rnf24 | 9.041676932 | 8.849734109 | 8.797601428 | 9.037922875 | 9.152732935 | 8.972698064 |
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| Rnf32 | 5.868356087 | 6.397992672 | 6.249587406 | 6.659562717 | 6.569213246 | 6.468905804 |
| Rnf38 | 10.9356282 | 10.85677526 | 11.06008953 | 10.91879629 | 10.93030675 | 10.93525085 |
| Rnf43 | 4.143380003 | 3.56087634 | 3.678570668 | 3.752118759 | 2.424393538 | 3.617319577 |
| Rnpep | 8.384753175 | 8.354927372 | 8.44826137 | 8.418067996 | 7.992102629 | 8.103007018 |
| Rnu12 | 6.803522181 | 6.933449019 | 7.914330472 | 7.486450945 | 7.0370798 | 7.390790838 |
| Robo1 | 11.59308837 | 11.59647093 | 11.6762454 | 11.5799837 | 11.59958038 | 11.74521545 |
| Robo2 | 11.17543239 | 11.32862227 | 11.35351687 | 11.29024956 | 11.38598003 | 11.45294649 |
| Robo3 | 8.457306733 | 7.944738882 | 7.437355307 | 7.930734648 | 7.639280888 | 7.814121237 |
| Rock2 | 10.32901922 | 10.30051606 | 10.29027974 | 10.44880784 | 10.41722022 | 10.29707767 |
| Rora | 8.786579996 | 8.993528261 | 8.802596988 | 9.110503108 | 9.130364297 | 9.058582815 |
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| Rpa1 | 9.323341477 | 9.28855226 | 9.278308334 | 8.890340207 | 9.04094595 | 8.831127804 |
| Rpa2 | 8.189473526 | 7.866111468 | 8.286517902 | 7.682326016 | 7.312432268 | 7.158615784 |
| Rpgr | 9.073499928 | 9.206361482 | 9.036840981 | 9.124051742 | 9.240500153 | 9.361838593 |
| Rpl10 | 10.87009496 | 10.91798388 | 10.76100149 | 10.66164487 | 10.66537562 | 10.62392338 |
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| Rpl12 | 10.56893815 | 10.64114994 | 10.45162471 | 10.33224609 | 10.37320292 | 10.24045126 |
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| Rpl18 | 10.62656457 | 10.67844209 | 10.62661223 | 10.44988414 | 10.38995772 | 10.36447003 |
| Rpl19 | 9.919114598 | 10.34177956 | 9.879560362 | 9.769820892 | 9.728005325 | 9.731638986 |
| Rpl24 | 10.61219177 | 10.75571598 | 10.53202747 | 10.40730169 | 10.57907053 | 10.40563104 |
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| Rpl27a | 10.56521228 | 10.65583213 | 10.47058088 | 10.53754206 | 10.34658103 | 10.49782683 |
| Rpl3 | 10.98219731 | 11.18660557 | 10.91655521 | 10.92190234 | 11.04697221 | 10.7957309 |
| Rpl35a | 8.680364163 | 9.096996597 | 8.79258851 | 9.014835446 | 8.767531156 | 8.985284803 |
| Rpl36 | 9.120971308 | 9.516734297 | 9.395358253 | 8.95241221 | 9.162941098 | 8.407329241 |
| Rpl36a | 9.675461434 | 9.607746071 | 9.621385452 | 9.558566454 | 9.357710355 | 9.296005222 |
| Rpl37 | 9.942280642 | 9.989768201 | 9.923790017 | 9.840463241 | 9.842515306 | 9.792586783 |
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| Rpl38 | 9.531661121 | 9.55608663 | 9.285462875 | 9.429205609 | 9.482504238 | 9.348910057 |
| Rpl39 | 9.884848972 | 9.799777721 | 9.334575175 | 9.558566454 | 9.736004642 | 9.584983343 |
| Rpl41 | 11.03702688 | 11.0549974 | 11.17144561 | 10.87619666 | 10.76479284 | 10.75710749 |
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| Rpl6 | 10.81593875 | 10.74806258 | 10.64619734 | 10.623997 | 10.62533137 | 10.4303893 |
| Rpl7 | 11.96828433 | 12.06227635 | 11.84614804 | 11.84507159 | 11.87343178 | 11.78295321 |
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| Rpl8 | 11.57911562 | 11.56663518 | 11.53780911 | 11.309944 | 11.26522689 | 11.27387006 |
| Rplp0 | 12.43108075 | 12.40290435 | 12.27018512 | 12.1752457 | 12.21521996 | 12.13468693 |
| Rplp1 | 11.12266718 | 11.17033621 | 11.12034692 | 10.93272115 | 10.83988303 | 10.88127551 |
| Rpn1 | 9.945723686 | 9.993472025 | 9.900680363 | 9.869710783 | 9.674305249 | 9.862480081 |
| Rpn2 | 10.17619097 | 10.18865096 | 10.39321431 | 9.998867317 | 10.00926497 | 10.09123837 |
| Rpph1 | 14.83392275 | 14.95961612 | 14.79151841 | 14.87655889 | 14.62773121 | 14.91679068 |
| Rprd2 | 9.54987429 | 9.514158195 | 9.829043681 | 9.396085313 | 9.550175988 | 9.604151543 |
| Rps10 | 9.943429237 | 9.930142685 | 9.811803909 | 9.613389863 | 9.574597026 | 9.644388243 |
| Rps11 | 10.9269444 | 10.9507403 | 10.88275313 | 10.73588153 | 10.75863577 | 10.6212377 |
| Rps13 | 9.971850872 | 9.914598982 | 9.751081396 | 9.552567026 | 9.552766177 | 9.706520173 |
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| Rps17 | 10.78551909 | 10.78325781 | 10.61387994 | 10.32990959 | 10.46131347 | 10.43651304 |
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| Rps2 | 9.787152876 | 9.78382514 | 9.6128789 | 9.556569415 | 9.472963192 | 9.289253594 |
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| Rps26 | 10.55997985 | 10.5709985 | 10.94620156 | 10.5192014 | 10.19979048 | 10.41496525 |
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| Rps5 | 11.37462752 | 11.43595471 | 11.33811699 | 11.1476244 | 11.26285597 | 11.16743902 |
| Rps6kb1 | 9.664358947 | 9.777394387 | 9.999704098 | 9.713576389 | 9.799541817 | 9.719134247 |
| Rps7 | 11.32437473 | 11.30869248 | 11.19253107 | 11.04666268 | 11.12039924 | 11.04853385 |
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| Rps9 | 11.68385044 | 11.61552343 | 11.41597029 | 11.44291845 | 11.37284785 | 11.40846654 |

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| Rrp1b | 8.246421563 | 8.302146483 | 8.504527138 | 8.131898606 | 7.965133356 | 7.965782904 |
| Rsf1 | 10.79063379 | 10.76603821 | 10.81143747 | 10.72436413 | 10.90670873 | 10.8902269 |
| Rsl24d1 | 7.940736694 | 8.079784332 | 8.112393197 | 7.91211235 | 8.040888925 | 7.823497767 |
| Rsph3b | 5.336140447 | 4.879886885 | 6.821853535 | 5.101656215 | 5.014011403 | 4.059575235 |
| Rsrc2 | 9.987525772 | 10.06825564 | 10.09643912 | 10.10652639 | 9.8125688 | 9.954969208 |
| Rtf1 | 9.289417352 | 9.391795364 | 9.638249547 | 9.50157714 | 9.516073378 | 9.598700853 |
| Rtkn2 | 7.478228847 | 7.352220649 | 7.316832893 | 7.104370141 | 6.724314878 | 6.951852343 |
| Rtn1 | 10.9058875 | 10.97201546 | 10.8803925 | 10.98785546 | 10.97637546 | 11.20199923 |
| Rundc3b | 8.91391192 | 9.062149756 | 8.661246298 | 8.838685049 | 9.119922161 | 8.845006077 |
| Runx1 | 4.627849702 | 4.247088592 | 1 | 2.851100857 | 3.749675008 | 4.752037851 |
| Runx1t1 | 10.94311212 | 10.99344391 | 11.05695731 | 10.97445515 | 11.0177412 | 11.25059837 |
| Ruvbl2 | 9.184523103 | 9.183845572 | 9.344885197 | 8.979496412 | 8.839303535 | 8.793452825 |
| Rwdd3 | 5.768201518 | 5.846513718 | 5.683462387 | 5.891676346 | 5.905210499 | 5.958045085 |
| Ryr2 | 8.991476167 | 9.196754803 | 8.931326023 | 9.003151687 | 9.304912034 | 9.296005222 |
| Ryr3 | 8.609775365 | 8.954157135 | 8.655735526 | 8.61898396 | 9.018634899 | 9.038592978 |
| S100a9 | 2.565099681 | 1.40785378 | 1 | 1 | 1 | 1.793876829 |
| S100b | 3.408645243 | 4.144218708 | 2.346809092 | 4.756726338 | 3.126983752 | 5.036351157 |
| S1pr5 | 2.565099681 | 1.985596612 | 2.346809092 | 3.85969309 | 2.007489679 | 4.293477201 |
| Safb | 9.921448013 | 9.897898217 | 10.21920524 | 9.955572051 | 9.834022402 | 9.974039779 |
| Sall1 | 8.899780492 | 8.533445122 | 9.249329998 | 8.937142783 | 8.733688366 | 8.76453655 |
| Sall3 | 8.068354845 | 7.778663984 | 8.22830624 | 8.066040091 | 7.54875884 | 8.079720074 |
| Samd3 | 6.083675251 | 5.453483524 | 6.306963417 | 5.730965216 | 5.043777717 | 4.494694577 |
| Sar1a | 10.00523385 | 9.904798432 | 9.865306614 | 9.745483276 | 9.799541817 | 9.665397606 |
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| Satb2 | 7.534189854 | 8.015663625 | 8.416027626 | 7.997030751 | 8.211236542 | 8.52119249 |
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| Sema3d | | 5.544260695 | 5.195006214 | 5.038690263 | 5.011224712 | 5.072942274 | 5.159929718 |
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| Slc2a3 | 7.484555014 | 7.51568179 | 7.640726807 | 7.461053316 | 7.457713316 | 7.706744944 |
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| Sned1 | 7.490853563 | 7.510521207 | 7.259855879 | 7.725628009 | 7.501274763 | 7.128671755 |
| Snhg11 | 11.1109588 | 11.1007864 | 10.8768443 | 11.22258923 | 11.49100134 | 11.62903722 |
| Snhg14 | 9.563384845 | 9.366311913 | 9.285462875 | 9.422642099 | 9.846743083 | 9.709051826 |
| Snora23 | 4.67286394 | 5.453483524 | 5.038690263 | 5.057148905 | 5.101528924 | 5.429238262 |
| Snora28 | 3.93744424 | 4.388824542 | 3.842769234 | 5.517598924 | 4.286420738 | 5.159929718 |
| Snord15b | 6.665565543 | 6.993865632 | 7.330732364 | 7.104370141 | 6.77843274 | 7.258780673 |
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| Snord95 | 4.143380003 | 3.638623163 | 3.842769234 | 2.358763209 | 2.007489679 | 2.303023309 |
| Snord99 | 1.834785459 | 1.725454411 | 1.825170741 | 3.045898796 | 3.234144523 | 3.22300096 |
| Snrpb | 9.64754335 | 9.739299371 | 9.814279383 | 9.318072547 | 9.455074943 | 9.409314223 |
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| Snrpe | 9.075596709 | 8.741570507 | 8.709918311 | 8.81549102 | 8.94364477 | 8.739988881 |
| Sntb1 | 4.009405591 | 4.710205239 | 1.825170741 | 3.045898796 | 3.514815644 | 2.976330056 |
| Snx17 | 8.946356713 | 8.96551609 | 8.875526039 | 8.675285195 | 8.577104454 | 8.583226064 |
| Sobp | 8.495395517 | 8.476358863 | 8.976232046 | 8.615151257 | 8.883185197 | 9.154577076 |
| Socs2 | 8.421485998 | 8.319955531 | 8.243080832 | 8.200008034 | 8.395673275 | 8.303941444 |
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| Sorbs1 | 9.667142589 | 9.834264578 | 9.900680363 | 9.91093719 | 9.881157436 | 10.04389144 |
| Sorbs2 | 10.6555886 | 10.60165537 | 10.86256355 | 10.57452557 | 10.64184767 | 10.70352341 |
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| Sostdc1 | 4.205973248 | 4.343109123 | 3.678570668 | 4.053408608 | 4.072049632 | 4.828538958 |
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| Sox11 | 14.27653725 | 14.23583561 | 14.43207 | 14.24388812 | 14.29841344 | 14.35243142 |
| Sox12 | 8.669299485 | 8.833294386 | 9.289026884 | 8.924809803 | 8.457798746 | 8.438175304 |
| Sox2 | 10.21380215 | 10.07263924 | 10.25244446 | 10.03230433 | 9.85411201 | 9.846471898 |
| Sox21 | 8.193340801 | 7.56629706 | 8.046541268 | 7.630107498 | 7.579568276 | 7.523282183 |
| Sox2ot | 8.998124008 | 8.87605545 | 9.095006004 | 9.046486289 | 8.847765497 | 8.899221447 |
| Sox5 | 10.1355644 | 10.30499403 | 10.36647518 | 10.32052554 | 10.46956151 | 10.55100716 |
| Sox9 | 8.763354021 | 8.571111553 | 8.870777137 | 8.693574379 | 8.701369048 | 9.058582815 |
| Sp1 | 10.09582811 | 10.03449772 | 10.21733597 | 10.13758473 | 10.10237619 | 9.999081295 |
| Sp3 | 10.7655266 | 10.7698226 | 10.85897117 | 10.80900306 | 10.72113108 | 10.68306589 |
| Sp4 | 10.1742355 | 10.14768724 | 10.16786484 | 10.13624818 | 10.16804433 | 10.17053113 |
| Sp8 | 7.08740126 | 6.948792021 | 7.512450212 | 7.354740679 | 7.191323905 | 7.173357913 |
| Sp9 | 6.938675524 | 7.127962371 | 7.629525334 | 7.189310683 | 7.137123938 | 7.187950923 |
| Spaca6 | 7.673603628 | 7.581141728 | 7.895750249 | 7.560066561 | 7.230678103 | 7.686333379 |
| Spag4 | 5.788796395 | 5.364757319 | 5.448709844 | 5.011224712 | 4.983617975 | 4.059575235 |
| Spag5 | 9.083953492 | 8.931167349 | 9.405244375 | 8.795309251 | 8.636917043 | 8.647989154 |
| Spag9 | 12.33567066 | 12.29580249 | 12.27782845 | 12.31026483 | 12.35497046 | 12.23690795 |
| Sparc | 9.81879074 | 9.816601598 | 9.93065134 | 9.928030614 | 9.677869018 | 9.673197903 |
| Sparcl1 | 9.524003912 | 9.628141068 | 9.372023724 | 9.548553502 | 9.656353146 | 9.862480081 |

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| Spats2l | 7.701026658 | 7.833420063 | 7.789047758 | 7.435200555 | 7.791786408 | 7.546116814 |
| Spc25 | 8.101660269 | 7.921597309 | 7.838529183 | 8.115713679 | 7.677759001 | 7.869487519 |
| Spcs1 | 8.01253802 | 8.144511291 | 8.021050658 | 7.841697207 | 7.872793531 | 7.814121237 |
| Specc1 | 8.737101111 | 8.664676202 | 8.807575309 | 8.76103262 | 8.54624179 | 8.699822577 |
| Speer4b | 4.716516059 | 4.343109123 | 5.104893407 | 4.699958789 | 5.76927757 | 5.697480352 |
| Spen | 10.52357978 | 10.43325085 | 11.06529483 | 10.54360417 | 10.45232455 | 10.69588579 |
| Sphkap | 7.759582963 | 8.019301644 | 7.818939792 | 7.753790403 | 8.10582618 | 8.063983964 |
| Spin1 | 10.72669352 | 10.69275147 | 10.73641235 | 10.68742577 | 10.85412824 | 10.83566598 |
| Spock2 | 9.653170355 | 10.01822717 | 10.02129217 | 9.903099992 | 9.955468732 | 10.18151111 |
| Sppl2b | 7.926866847 | 8.07279893 | 7.950788095 | 7.583793375 | 7.83072568 | 7.676018269 |
| Spta1 | 4.533375098 | 4.089895615 | 3.493254909 | 3.752118759 | 3.427188559 | 2.976330056 |
| Sptbn1 | 12.5547928 | 12.56117663 | 12.56514873 | 12.58906924 | 12.58067256 | 12.67820025 |
| Sptbn4 | 7.785433554 | 8.051637466 | 8.120417294 | 8.0938474 | 8.070111351 | 8.432058627 |
| Srcap | 10.85735479 | 10.92333339 | 11.37127807 | 11.20357207 | 10.95744008 | 11.22252203 |
| Srek1 | 10.20616656 | 9.990695049 | 10.32888043 | 10.16798851 | 10.1120678 | 10.01758125 |
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| Srgap1 | 10.12547948 | 10.06825564 | 10.29027974 | 10.18101028 | 10.18233297 | 10.43192267 |
| Srgap3 | 11.64766419 | 11.50439744 | 11.90423598 | 11.68060311 | 11.70551174 | 11.75136935 |
| Srp68 | 8.388131439 | 8.08326439 | 8.599438142 | 8.439899818 | 8.237233561 | 8.375809226 |
| Srp9 | 8.034262341 | 8.250459875 | 8.144225238 | 8.17939167 | 7.925709676 | 8.192568664 |
| Srrm1 | 9.610422918 | 9.442805565 | 9.794355633 | 9.715367628 | 9.546281964 | 9.71662024 |
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| Ssrp1 | 10.66048608 | 10.65173615 | 10.85416737 | 10.56660908 | 10.49873569 | 10.61315054 |
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| Sstr4 | 1.476947654 | 2.853470894 | 3.493254909 | 2.851100857 | 3.011219987 | 3.22300096 |
| St14 | 1.834785459 | 1.40785378 | 1 | 1.605542449 | 1 | 1 |
| St3gal3 | 7.917545645 | 7.685571983 | 7.524594614 | 7.689633874 | 7.51727707 | 7.634004102 |
| St5 | 7.266943973 | 7.397652741 | 6.719919814 | 7.147465445 | 7.066378704 | 7.128671755 |
| St6gal2 | 7.160340601 | 7.615196579 | 7.572175032 | 7.583793375 | 7.463230973 | 7.511727889 |
| St8sia1 | 9.579727749 | 9.585832419 | 9.719734022 | 9.437910763 | 9.741691406 | 9.579459609 |
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| St8sia3 | 8.663735161 | 8.726070861 | 8.504527138 | 8.486797657 | 8.971014936 | 9.010133557 |
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| Stag1 | 10.59621454 | 10.53777487 | 10.65589109 | 10.4227327 | 10.34881838 | 10.47271949 |
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| Stard13 | 6.561690132 | 6.340989138 | 6.306963417 | 6.288107667 | 6.262476989 | 5.737711018 |
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| Stc2 | 3.178288549 | 1.985596612 | 2.346809092 | 1.605542449 | 2.594940123 | 1.793876829 |
| Steap2 | 8.62130425 | 8.730516349 | 8.570443605 | 8.560396027 | 8.673078574 | 8.78387832 |
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| Ston1 | 4.840066407 | 5.169039459 | 5.448709844 | 5.379823897 | 5.579097119 | 5.524302751 |
| Ston2 | 8.286799598 | 8.187182071 | 8.812536511 | 8.240377438 | 8.300247612 | 8.276893869 |
| Stox2 | 11.65644604 | 11.66280917 | 11.88375773 | 11.67968592 | 11.69792622 | 11.7013871 |
| Stra6 | 5.544260695 | 5.537067746 | 5.639468694 | 5.379823897 | 5.406550135 | 6.468905804 |
| Strbp | 12.02499207 | 11.97598488 | 12.06410148 | 11.99859076 | 12.12106062 | 12.10999535 |
| Strn3 | 10.60204493 | 10.55917593 | 10.69402757 | 10.57353839 | 10.61792965 | 10.56644677 |
| Stx1a | 7.865173874 | 8.253552067 | 8.029597669 | 7.854758244 | 8.133774812 | 8.249329503 |
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| Stxbp1 | 9.58856464 | 9.683071419 | 9.853319962 | 9.708189289 | 9.787496192 | 10.03180787 |
| Stxbp4 | 8.418185031 | 8.062256997 | 8.460955881 | 8.158476417 | 8.262770399 | 8.170694084 |
| Sugp1 | 8.253847581 | 8.331707257 | 8.144225238 | 8.240377438 | 8.303327208 | 8.310624842 |
| Sulf2 | 9.572322099 | 9.402978443 | 9.506684501 | 9.322780184 | 9.400039607 | 9.434009897 |
| Sult4a1 | 8.055664379 | 8.471055424 | 8.09620986 | 7.997030751 | 7.953418955 | 8.206969603 |
| Supt16 | 10.75182415 | 10.72039274 | 10.85777172 | 10.7411664 | 10.58224343 | 10.78377179 |
| Susd5 | 1.476947654 | 1.725454411 | 1 | 2.030760869 | 1.418787199 | 1.793876829 |
| Suv39h1 | 8.752910114 | 8.476358863 | 8.866012551 | 8.457130482 | 8.424244176 | 8.087524227 |
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| Suz12 | 10.14358189 | 10.15845021 | 10.20040264 | 10.02076175 | 10.11907557 | 10.05388434 |
| Sv2a | 9.430439141 | 9.470974644 | 9.469475264 | 9.51192031 | 9.470225549 | 9.636430179 |
| Sv2b | 6.891846582 | 7.187378743 | 6.84140367 | 6.841154966 | 7.137123938 | 7.47649919 |
| Svop | 8.897411738 | 9.273398729 | 9.015486045 | 8.949371226 | 8.945617096 | 8.826471886 |
| Syn1 | 7.136434895 | 7.581141728 | 7.673818665 | 8.099345118 | 7.961239115 | 7.93150545 |
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| Syn3 | 9.371924442 | 9.478922954 | 9.668664193 | 9.680947854 | 9.696728521 | 9.696348898 |
| Syncrip | 11.53864836 | 11.44138852 | 11.50677075 | 11.51770485 | 11.6578856 | 11.47319399 |
| Syne1 | 9.32510505 | 9.529546256 | 8.953953748 | 9.437910763 | 9.531913271 | 9.403073682 |
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| Syngr1 | 8.089260662 | 8.241143333 | 7.86742339 | 8.260146288 | 8.109349512 | 8.438175304 |
| Synj2bp | 9.153097115 | 9.294569385 | 9.299666387 | 9.110503108 | 9.314101507 | 9.176695524 |
| Synm | 7.259585234 | 7.086946925 | 6.761561469 | 6.416976829 | 7.059109572 | 6.730493894 |
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| Syt16 | 8.333106318 | 8.551145237 | 7.977539161 | 8.400361505 | 8.726823489 | 8.720045509 |
| Syt4 | 10.23740617 | 10.19348935 | 10.05726642 | 10.10516074 | 10.2933662 | 10.32705292 |
| Syt5 | 7.840725169 | 7.833420063 | 7.857856143 | 7.821881231 | 7.872793531 | 8.125924044 |
| Taf12 | 7.43967799 | 7.730651305 | 7.72733891 | 6.930224866 | 7.24995982 | 7.216701442 |
| Taf15 | 8.635586996 | 8.812477742 | 9.146994045 | 8.927902946 | 8.619726378 | 8.845006077 |
| Tal2 | 6.882295587 | 6.837797832 | 6.44115009 | 6.598755774 | 6.299961727 | 5.613488471 |
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| Tbc1d10a | 6.211215576 | 6.257199856 | 5.994117534 | 6.814662667 | 6.143798956 | 6.899614759 |

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| Tbc1d22a | 7.611372851 | 7.556315072 | 7.606858048 | 7.354740679 | 7.5642458 | 7.511727889 |
| Tbc1d24 | 9.787152876 | 9.84352875 | 9.774152877 | 9.879329669 | 9.882187587 | 9.924793549 |
| Tbc1d4 | 7.963560843 | 7.886173697 | 7.72733891 | 7.607136278 | 7.658648222 | 8.040053218 |
| Tbcel | 8.437878486 | 8.354927372 | 8.409493545 | 8.153199881 | 8.275371286 | 8.432058627 |
| Tbp | 8.347060598 | 8.174186511 | 8.19829524 | 8.303659976 | 8.287863066 | 8.155924569 |
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| Tbx15 | 4.009405591 | 4.710205239 | 4.123905703 | 3.370835508 | 2.885350385 | 3.617319577 |
| Tbx18 | 7.168221945 | 7.008582571 | 6.491514775 | 6.4517769 | 6.813415432 | 6.56147301 |
| Tbx2 | 5.726108215 | 5.195006214 | 5.547239836 | 4.141311987 | 5.043777717 | 5.327464956 |
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| Tcea1 | 9.190340021 | 9.083158698 | 9.070364715 | 9.063462118 | 9.059278492 | 8.93858647 |
| Tceal6 | 5.391052138 | 5.596723939 | 5.038690263 | 5.96578166 | 5.838844419 | 5.923581073 |
| Tceal8 | 8.340100329 | 8.328778287 | 8.293631946 | 8.490986459 | 8.452260234 | 8.626722855 |
| Tceb1 | 8.401565941 | 8.216001016 | 8.314765989 | 8.503480383 | 8.641791272 | 8.462385932 |
| Tcerg1 | 10.2166551 | 10.28322061 | 10.46586513 | 10.34849653 | 10.34508753 | 10.41806328 |
| Tcf24 | 4.205973248 | 2.205919617 | 2.346809092 | 4.224165625 | 4.072049632 | 3.617319577 |
| Tcf3 | 10.04750802 | 9.901845237 | 10.23037029 | 9.8809266 | 9.633288357 | 9.714101844 |
| Tcf4 | 12.01492049 | 12.02950446 | 12.32416039 | 11.97149129 | 12.12824204 | 12.1431365 |
| Tcf7l2 | 9.812518428 | 9.600478442 | 10.37320657 | 9.835530481 | 9.904666785 | 9.907262637 |
| Tcof1 | 8.498524653 | 8.525792373 | 8.570443605 | 8.400361505 | 7.917693995 | 8.221228213 |
| Tdp2 | 8.322551313 | 8.308107292 | 7.706168466 | 8.220333933 | 8.112864261 | 8.03198727 |
| Tdrd7 | 7.738563721 | 7.878182253 | 7.606858048 | 7.435200555 | 7.300152323 | 7.590729603 |
| Tead2 | 10.08546055 | 9.915575386 | 10.10859168 | 9.851907846 | 9.568210409 | 9.797353168 |
| Tead3 | 6.132833551 | 5.956864296 | 5.922497536 | 5.379823897 | 6.275080428 | 5.524302751 |
| Tek | 6.783137934 | 7.5613147 | 7.398289287 | 6.942511838 | 7.24995982 | 6.808115555 |
| Ten1 | 7.05376114 | 6.672049976 | 6.540180369 | 6.502451963 | 6.589537655 | 6.056756594 |
| Tenm1 | 8.826969347 | 9.157675321 | 8.762139616 | 8.864743803 | 9.178119174 | 8.908062522 |
| Terc | 7.036642281 | 6.925715892 | 6.719919814 | 6.167675041 | 6.223992267 | 5.852080256 |
| Tet1 | 10.08857865 | 10.06297767 | 10.05935487 | 10.07338865 | 10.18567454 | 10.19421636 |
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| Tex30 | 6.910760951 | 6.505657584 | 6.632847408 | 6.381316533 | 6.463060749 | 5.613488471 |
| Tfap2b | 9.548365278 | 9.49076391 | 9.784289618 | 9.613389863 | 9.63817484 | 9.665397606 |
| Tfap2c | 7.120274815 | 7.299338803 | 7.487850347 | 6.644599561 | 6.796030117 | 6.627197922 |
| Tfdp2 | 9.739017485 | 9.587058616 | 9.641041164 | 9.484872263 | 9.702571912 | 9.625750677 |
| Tfip11 | 8.130184848 | 7.791485714 | 7.959760344 | 7.815214956 | 7.624582834 | 7.860406105 |
| Tgfa | 6.226393616 | 6.484757804 | 5.885308556 | 6.880003011 | 6.517113106 | 6.968852843 |
| Tgfb1i1 | 3.93744424 | 4.673735516 | 4.738542537 | 5.379823897 | 4.335381646 | 5.888273572 |
| Tgfb3 | 5.848873694 | 5.971961575 | 6.306963417 | 5.840069872 | 5.905210499 | 5.737711018 |
| Tgfbi | 6.049947112 | 5.294437552 | 5.168191412 | 5.144831462 | 5.262085683 | 4.293477201 |
| Tgfbr1 | 10.67231122 | 10.38964612 | 10.72987126 | 10.58239886 | 10.58730559 | 10.43498454 |
| Tgif1 | 6.631764656 | 6.101166306 | 6.719919814 | 5.58184729 | 5.804480268 | 5.737711018 |
| Tgm3 | 2.121272526 | 1.725454411 | 1.825170741 | 2.851100857 | 1.742960444 | 1.793876829 |
| Tgoln1 | 7.50336876 | 7.525947903 | 7.006366839 | 7.704139468 | 7.738176533 | 7.568595648 |
| Tgs1 | 9.0963986 | 9.076189655 | 9.372023724 | 9.205327112 | 9.254887752 | 9.12833619 |
| Thbd | 5.363857532 | 5.516621281 | 5.726154136 | 5.759024621 | 5.638828837 | 4.970351389 |
| Thbs1 | 8.034262341 | 7.83754723 | 7.475391307 | 7.718500666 | 7.594729725 | 7.869487519 |
| Thbs2 | 5.092852815 | 5.516621281 | 3.493254909 | 5.227488897 | 4.516128927 | 4.901186937 |

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|---|---|---|---|---|---|---|
| Them7 | 1 | 1.985596612 | 1 | 1 | 1.742960444 | 1 |
| Thoc2 | 10.86707177 | 10.85474047 | 10.87921074 | 10.81820066 | 10.82656642 | 10.78617156 |
| Thoc3 | 8.652541711 | 8.833294386 | 8.6667361 | 8.452842071 | 8.378255139 | 8.297226941 |
| Thsd1 | 6.100248163 | 6.194223517 | 6.415292686 | 6.416976829 | 6.538179474 | 6.317866116 |
| Thsd7a | 10.80902401 | 10.56354289 | 10.51842838 | 10.73057723 | 10.75019718 | 10.54818212 |
| Thsd7b | 7.922213774 | 7.967515106 | 7.706168466 | 7.519633571 | 7.485092966 | 7.716843444 |
| Tiam2 | 9.552887589 | 10.06297767 | 9.999704098 | 9.874528242 | 10.11031053 | 10.20501822 |
| Timeless | 8.353987448 | 8.311078487 | 8.558680638 | 8.131898606 | 8.014824549 | 7.878512125 |
| Timm9 | 6.984032096 | 6.761653322 | 6.491514775 | 7.373012443 | 6.961118584 | 6.730493894 |
| Timmdc1 | 7.497124732 | 7.615196579 | 7.398289287 | 7.841697207 | 7.751766917 | 7.69657526 |
| Timp2 | 8.146234916 | 8.284114845 | 8.190693919 | 8.355120529 | 8.363577639 | 8.583226064 |
| Tjp2 | 8.731792711 | 8.548629906 | 8.473539665 | 8.313154006 | 8.36946657 | 8.228305017 |
| Tlk1 | 9.698774295 | 9.482880747 | 9.701128488 | 9.574444018 | 9.603616704 | 9.726650089 |
| Tln2 | 9.375332845 | 9.23636736 | 9.200962291 | 9.124051742 | 9.402913591 | 9.139640778 |
| Tlx1 | 1.834785459 | 1.40785378 | 1 | 1 | 2.230948887 | 1.793876829 |
| Tlx3 | 1.834785459 | 2.716760345 | 1 | 1.605542449 | 2.424393538 | 1.793876829 |
| Tmbim1 | 5.726108215 | 5.796508198 | 5.448709844 | 5.840069872 | 5.921335734 | 5.656095563 |
| Tmed2 | 8.444383682 | 8.523232409 | 8.746670738 | 8.153199881 | 8.327730146 | 8.03198727 |
| Tmed5 | 7.338537835 | 7.281271817 | 7.106715447 | 7.279247656 | 7.634398156 | 7.62330656 |
| Tmed7 | 9.548365278 | 9.56482602 | 9.554849468 | 9.588194975 | 9.786396132 | 9.773362192 |
| Tmem101 | 6.643119837 | 6.804450958 | 7.074035358 | 7.219916879 | 6.619497285 | 6.845414449 |
| Tmem119 | 4.143380003 | 3.56087634 | 3.842769234 | 2.851100857 | 3.749675008 | 3.617319577 |
| Tmem121 | 6.211215576 | 6.463550801 | 6.516052763 | 5.840069872 | 6.262476989 | 6.56147301 |
| Tmem123 | 8.055664379 | 7.866111468 | 7.876927609 | 7.607136278 | 7.860301472 | 7.922807306 |
| Tmem132a | 10.64291818 | 10.66282685 | 10.67780664 | 10.58338001 | 10.45578846 | 10.75833025 |
| Tmem132b | 8.618430655 | 8.837421913 | 8.846795279 | 8.899822977 | 9.055630573 | 9.001898102 |
| Tmem138 | 7.152415964 | 6.586354521 | 6.898513064 | 6.399256858 | 6.484925303 | 6.119001134 |
| Tmem145 | 6.843446461 | 7.030380263 | 7.385028612 | 7.591616383 | 7.237134017 | 7.511727889 |
| Tmem147 | 7.98156369 | 8.134482339 | 7.968677139 | 8.158476417 | 8.140678183 | 8.015718814 |
| Tmem167 | 10.19270627 | 9.956947591 | 10.03196627 | 10.19391557 | 10.24853566 | 10.12006007 |
| Tmem170b | 9.967340869 | 9.935928668 | 10.04256197 | 9.853535404 | 10.03079158 | 10.0011486 |
| Tmem175 | 7.331536226 | 7.546263538 | 7.758523245 | 7.126078702 | 7.634398156 | 7.230864661 |
| Tmem181a | 6.803522181 | 7.058940817 | 7.122782017 | 7.209786787 | 7.24995982 | 7.488337929 |
| Tmem196 | 5.219618891 | 5.270214764 | 4.123905703 | 5.64335602 | 5.558624041 | 5.776850189 |
| Tmem200b | 2.565099681 | 3.093258183 | 1.825170741 | 2.625832949 | 1.418787199 | 2.67860439 |
| Tmem208 | 7.303184965 | 7.369425779 | 7.302798206 | 7.037212907 | 7.095094417 | 7.128671755 |
| Tmem229b | 9.188403653 | 9.267292467 | 9.174230508 | 9.074669371 | 9.242105879 | 9.212822325 |
| Tmem246 | 7.338537835 | 7.748295889 | 7.344499199 | 7.452487101 | 7.634398156 | 7.832813749 |
| Tmem30b | 1.834785459 | 1.985596612 | 1 | 1.605542449 | 1.418787199 | 1 |
| Tmem42 | 4.989887769 | 4.911553418 | 4.652620793 | 5.057148905 | 4.888396012 | 5.656095563 |
| Tmem44 | 9.402314003 | 9.572275018 | 9.601458241 | 9.497419019 | 9.543680096 | 9.766086408 |
| Tmem56 | 6.462626536 | 6.155074467 | 6.028636913 | 5.813557456 | 6.101966287 | 5.923581073 |
| Tmem63c | 5.848873694 | 6.615488935 | 6.306963417 | 6.773989117 | 6.804748962 | 6.710417912 |
| Tmem74 | 6.449751263 | 6.735351769 | 6.587257783 | 6.249069934 | 6.822030152 | 6.605620608 |
| Tmem98 | 6.687667379 | 6.625071112 | 6.632847408 | 6.288107667 | 6.287574716 | 6.648457271 |
| Tmod2 | 11.73846935 | 11.88494984 | 11.80379936 | 11.76388216 | 11.97614172 | 12.00161916 |
| Tmpo | 11.75459066 | 11.6070867 | 11.78814357 | 11.58782733 | 11.55117788 | 11.45143531 |

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|---|---|---|---|---|---|---|
| Tmsb4x | 12.52153222 | 12.48954718 | 12.19524219 | 12.24789668 | 12.43647416 | 12.3020798 |
| Tmtc1 | 7.785433554 | 7.978769781 | 7.330732364 | 7.725628009 | 8.022319688 | 7.93150545 |
| Tmx2 | 8.841828521 | 8.714896838 | 8.917577052 | 8.645531514 | 8.724527918 | 8.594223824 |
| Tmx4 | 10.67577084 | 10.70804784 | 10.70073283 | 10.6448248 | 10.75188885 | 10.70479242 |
| Tnc | 9.897942263 | 10.23553813 | 9.898348907 | 10.1187594 | 10.46406806 | 10.65707918 |
| Tnfrsf4 | 2.744494966 | 3.638623163 | 4.123905703 | 5.415520654 | 4.286420738 | 3.780271631 |
| Tnnt2 | 1 | 1 | 1 | 1 | 1 | 1.793876829 |
| Tnr | 6.938675524 | 7.520823978 | 6.917057967 | 7.5993972 | 7.511962665 | 7.326295136 |
| Tnrc6a | 10.67922218 | 10.65816747 | 10.95856313 | 10.69833524 | 10.6838074 | 10.732432 |
| Tnrc6b | 11.3835408 | 11.39243288 | 11.68032217 | 11.42660999 | 11.48897412 | 11.46647635 |
| Tns1 | 8.193340801 | 8.012016409 | 8.504527138 | 7.943017297 | 8.432706266 | 7.869487519 |
| Tob1 | 7.754356793 | 7.299338803 | 7.748203182 | 7.317487909 | 7.506628612 | 7.804683367 |
| Tom1l2 | 8.829456528 | 8.919533599 | 9.015486045 | 9.026425344 | 9.003566843 | 9.10929611 |
| Tomm20 | 9.9852969 | 9.996243666 | 9.809324181 | 9.860027334 | 10.07560877 | 9.848769685 |
| Top1 | 11.1601997 | 11.02409631 | 11.34925559 | 11.03595176 | 11.04743145 | 11.03850369 |
| Top2a | 12.09746532 | 11.94068891 | 12.14302617 | 11.86174601 | 11.76340445 | 11.5862999 |
| Top2b | 12.79737389 | 12.78069029 | 12.76264071 | 12.70674448 | 12.78986073 | 12.69138338 |
| Topbp1 | 10.26981615 | 10.10809103 | 10.349508 | 10.06076309 | 10.11732682 | 9.986614869 |
| Tor1b | 8.329596556 | 8.389071499 | 8.19829524 | 8.026186833 | 7.992102629 | 8.163328226 |
| Tor2a | 7.168221945 | 7.225672326 | 6.860692416 | 6.841154966 | 6.999599076 | 6.730493894 |
| Tox2 | 5.726108215 | 5.537067746 | 5.498815825 | 5.702349231 | 5.473696519 | 6.149144468 |
| Tox3 | 8.846747763 | 8.845641708 | 9.139116812 | 8.909243823 | 8.856178116 | 8.876878777 |
| Tpi1 | 10.38842072 | 10.42298768 | 10.28136093 | 10.25183675 | 10.09439798 | 10.01553738 |
| Tpm1 | 8.993695519 | 9.105578363 | 9.024065988 | 8.940209624 | 8.872857602 | 9.143389375 |
| Tpm2 | 5.4177436 | 5.672612041 | 5.448709844 | 4.963790449 | 5.129560124 | 4.397591105 |
| Tpm4 | 10.58521862 | 10.56603238 | 10.57207212 | 10.34039419 | 10.19896394 | 10.25438434 |
| Tpr | 11.46817453 | 11.56476925 | 11.62781192 | 11.45207873 | 11.44433664 | 11.44461535 |
| Tprgl | 8.367742165 | 8.311078487 | 8.510645557 | 8.235392608 | 8.34576523 | 8.133482864 |
| Tprn | 5.997828709 | 5.910600739 | 5.498815825 | 5.813557456 | 5.537856244 | 5.923581073 |
| Tpx2 | 9.923777661 | 9.727115879 | 10.03833302 | 9.699165843 | 9.494679304 | 9.719134247 |
| Tra2a | 10.15750616 | 10.18217442 | 10.28314911 | 9.903099992 | 9.880126548 | 9.948555917 |
| Traf3ip3 | 1 | 2.397010683 | 2.72911076 | 3.509431521 | 3.234144523 | 2.67860439 |
| Traf6 | 8.437878486 | 8.40306312 | 8.356127376 | 8.327278922 | 8.46606685 | 8.228305017 |
| Traf7 | 9.436977892 | 9.489453037 | 9.563704083 | 9.161324684 | 9.428525016 | 9.427875497 |
| Trafd1 | 9.29122286 | 9.337458805 | 9.127219725 | 9.094074984 | 9.225967625 | 9.406197326 |
| Trank1 | 9.61619629 | 9.9559988 | 10.06560215 | 9.747235359 | 9.931784607 | 10.05984702 |
| Trappc2 | 5.943756695 | 6.244822593 | 6.062349611 | 6.344752403 | 6.336497133 | 5.923581073 |
| Trim27 | 9.188403653 | 9.002746075 | 9.223487509 | 8.722363213 | 8.893439387 | 8.474340572 |
| Trim28 | 11.86902174 | 11.74557722 | 11.82420823 | 11.66307608 | 11.49773825 | 11.54792554 |
| Trim59 | 8.953215246 | 8.810379461 | 8.822408023 | 8.660485057 | 8.802775977 | 8.474340572 |
| Trim66 | 4.581385593 | 4.597908067 | 4.738542537 | 4.224165625 | 4.428584041 | 5.217963548 |
| Trim67 | 9.942280642 | 9.912644191 | 10.18709348 | 10.03374068 | 10.24293286 | 10.36447003 |
| Trim9 | 8.925583285 | 9.062149756 | 8.83221245 | 9.035057071 | 9.005458979 | 9.302725401 |
| Trmt10a | 6.100248163 | 5.926187346 | 6.062349611 | 5.941500387 | 5.76927757 | 5.273752905 |
| Trmt2b | 6.525333738 | 6.128372165 | 6.189834702 | 5.227488897 | 5.6582022 | 5.737711018 |
| Trove2 | 10.86222146 | 10.8207454 | 10.71802203 | 10.73940692 | 10.82227901 | 10.82986205 |
| Trpm3 | 9.265737785 | 9.39879494 | 9.252984282 | 9.179606152 | 9.304912034 | 9.335864615 |

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|---|---|---|---|---|---|---|
| Trps1 | 9.332137864 | 9.404370252 | 9.421572173 | 9.245550003 | 9.332306694 | 9.158287114 |
| Trpv4 | 2.121272526 | 2.978340632 | 1 | 3.509431521 | 3.514815644 | 2.303023309 |
| Tsc22d1 | 11.73681415 | 11.75597199 | 11.70920664 | 11.6159083 | 11.59393255 | 11.65092819 |
| Tsc22d4 | 7.393360064 | 7.079996201 | 7.245252952 | 6.867169543 | 6.452002941 | 6.789098145 |
| Tsen34 | 8.688607335 | 8.692285755 | 8.725784132 | 8.42246087 | 8.482462248 | 7.93150545 |
| Tsen54 | 6.772836778 | 6.993865632 | 6.540180369 | 5.989661022 | 6.372130108 | 6.024597402 |
| Tsfm | 6.585428507 | 6.474193269 | 6.362144593 | 6.146587985 | 5.968657436 | 5.923581073 |
| Tshz1 | 9.052362782 | 9.069186784 | 9.296128597 | 8.825477013 | 9.033547204 | 9.074377625 |
| Tsnax | 9.454808132 | 9.494689396 | 9.437717247 | 9.391611263 | 9.61852881 | 9.421714901 |
| Tspyl4 | 10.59329048 | 10.75189435 | 10.56473982 | 10.56163913 | 10.59046044 | 10.75097807 |
| Tsr2 | 7.54027584 | 7.510521207 | 7.606858048 | 7.746801175 | 7.412795491 | 7.326295136 |
| Tsr3 | 7.08740126 | 7.219360232 | 7.37164492 | 6.659562717 | 6.787258259 | 6.750294335 |
| Tssc4 | 7.830828485 | 7.643759998 | 7.500202711 | 7.753790403 | 7.40708114 | 7.47649919 |
| Tssk6 | 4.80004717 | 4.673735516 | 3.280577348 | 3.370835508 | 3.427188559 | 2.303023309 |
| Tst | 4.432277612 | 4.517872985 | 4.246285218 | 3.752118759 | 4.382735357 | 4.494694577 |
| Ttbk2 | 10.93216095 | 10.9488339 | 10.92345095 | 10.99155579 | 11.00503002 | 11.04553212 |
| Ttc23 | 7.393360064 | 6.821220741 | 7.074035358 | 6.978757094 | 6.984329822 | 7.286166751 |
| Ttc25 | 4.077947413 | 4.343109123 | 3.493254909 | 3.370835508 | 3.427188559 | 4.397591105 |
| Ttc3 | 13.48032766 | 13.55225333 | 13.48248411 | 13.49966065 | 13.54322947 | 13.56687595 |
| Ttk | 8.008153623 | 7.685571983 | 7.72733891 | 7.652718685 | 7.787394226 | 7.299667279 |
| Ttl | 8.875916092 | 8.780678523 | 8.627861424 | 8.771401388 | 8.684933763 | 8.684467147 |
| Ttll7 | 8.768547759 | 8.666997287 | 8.286517902 | 8.377918347 | 8.617253761 | 8.725057258 |
| Ttll8 | 1.476947654 | 1 | 1.825170741 | 2.358763209 | 2.594940123 | 3.780271631 |
| Ttr | 11.02839298 | 11.34900346 | 10.71139684 | 10.55565249 | 10.76143769 | 10.7448225 |
| Ttyh1 | 10.08233569 | 9.921419968 | 10.18518211 | 9.963130057 | 9.742826074 | 10.00938832 |
| Ttyh3 | 10.21855395 | 10.02819207 | 10.7725043 | 10.33574377 | 10.0035961 | 10.38835987 |
| Tub | 10.76876999 | 10.83474943 | 10.7506992 | 10.7046612 | 10.76143769 | 10.84029237 |
| Tuba1b | 10.15651601 | 10.16585473 | 10.38491145 | 9.96162162 | 9.893470968 | 9.846471898 |
| Tubb2a | 11.07943794 | 11.18052604 | 10.88275313 | 10.99081648 | 11.0326627 | 11.2730148 |
| Tubb2b | 13.1878846 | 13.23910849 | 13.27079453 | 13.1983378 | 13.15438215 | 13.17682274 |
| Tubb4a | 8.304786199 | 8.103970274 | 8.486014637 | 8.511749957 | 8.309466749 | 8.709969477 |
| Tubb4b | 10.08233569 | 10.09608323 | 10.13259396 | 9.848647213 | 9.704902657 | 9.844170445 |
| Tufm | 8.242694171 | 8.305129966 | 8.213378775 | 8.194881497 | 8.12683825 | 8.28370345 |
| Tuft1 | 4.48371173 | 4.814389099 | 2.346809092 | 4.863970092 | 3.749675008 | 4.397591105 |
| Txlnb | 5.092852815 | 5.169039459 | 4.81963345 | 4.811344491 | 4.952570441 | 4.494694577 |
| Txndc5 | 8.786579996 | 8.664676202 | 8.757001731 | 8.855026845 | 8.509380534 | 8.555359192 |
| Txnrd1 | 10.40935334 | 10.28548833 | 10.4595534 | 10.18101028 | 10.3525396 | 10.1960223 |
| U2af2 | 10.56521228 | 10.54347082 | 10.67644663 | 10.3252252 | 10.22192985 | 10.28185321 |
| U2surp | 10.86828181 | 10.94740245 | 10.8768443 | 10.93733306 | 10.95597316 | 10.85865097 |
| Uaca | 8.760750124 | 8.60540119 | 9.0283369 | 8.298889428 | 8.36652511 | 8.63206889 |
| Uba52 | 10.32461821 | 10.46227364 | 10.2432879 | 10.0565299 | 10.14505566 | 10.16500964 |
| Ubap2l | 10.16244672 | 10.0026902 | 10.40804011 | 10.15352749 | 10.03635479 | 10.22284352 |
| Ubash3b | 7.769978849 | 7.925480107 | 7.122782017 | 7.753790403 | 7.389801017 | 7.832813749 |
| Ube2c | 8.391501811 | 8.296160943 | 8.655735526 | 8.142588557 | 7.905586346 | 7.842069961 |
| Ube2d1 | 8.138232202 | 8.231766236 | 8.435454165 | 8.230390494 | 8.062861048 | 8.199787102 |
| Ube2n | 9.564878237 | 9.38052492 | 9.334575175 | 9.450870792 | 9.421456218 | 9.587737299 |
| Ube2s | 9.211470278 | 9.226959068 | 9.320712856 | 8.855026845 | 8.881125584 | 8.78387832 |

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|---|---|---|---|---|---|---|
| Ube3a | 11.38734398 | 11.39278351 | 11.25764166 | 11.33695586 | 11.38888213 | 11.35046055 |
| Ubqln2 | 10.15849563 | 9.970165567 | 10.30795364 | 10.08035539 | 10.07109885 | 10.20501822 |
| Ubqln4 | 9.548365278 | 9.440093886 | 9.607179872 | 9.310982162 | 9.258065604 | 9.180349186 |
| Ubr3 | 10.81468398 | 10.66805073 | 10.72066362 | 10.83230079 | 10.86198188 | 10.77050124 |
| Ubr7 | 9.330382872 | 9.201566139 | 9.178079794 | 8.924809803 | 8.883185197 | 8.903648757 |
| Ubxn7 | 11.39450053 | 11.26760511 | 11.47583195 | 11.22132919 | 11.42325948 | 11.2295925 |
| Uchl3 | 8.466923617 | 8.360674473 | 7.876927609 | 8.350517414 | 8.460560049 | 8.509621381 |
| Uggt2 | 9.587095578 | 9.629331842 | 9.466330737 | 9.457307408 | 9.611092024 | 9.534491441 |
| Ugt1a6a | 2.904029779 | 2.56572585 | 2.72911076 | 1.605542449 | 2.230948887 | 3.926671999 |
| Uhrf1 | 9.900310147 | 9.683071419 | 9.942014857 | 9.768096041 | 9.420038293 | 9.234071994 |
| Ulk2 | 10.46799589 | 10.44411835 | 10.42918971 | 10.50994289 | 10.53521171 | 10.55241761 |
| Unc13a | 10.21189703 | 10.25572621 | 10.25244446 | 10.24192909 | 10.31945863 | 10.37087943 |
| Unc13c | 7.05376114 | 7.600699962 | 6.587257783 | 6.905332463 | 7.55910193 | 7.612529102 |
| Unc45b | 1 | 1 | 1 | 3.217496026 | 2.424393538 | 1 |
| Unc5d | 8.895039088 | 9.187083725 | 8.861232178 | 9.074669371 | 9.439763542 | 9.415527885 |
| Unc79 | 10.30777086 | 10.39805402 | 10.48774124 | 10.36456595 | 10.41009568 | 10.53111472 |
| Unc80 | 8.158156364 | 8.107392546 | 7.618236209 | 8.345899565 | 8.265930954 | 8.270051993 |
| Ung | 6.211215576 | 6.059370691 | 6.249587406 | 5.96578166 | 5.968657436 | 5.776850189 |
| Upf2 | 9.170858387 | 9.256543922 | 9.372023724 | 9.069076627 | 8.96324773 | 9.086111278 |
| Upf3b | 8.268585917 | 8.465732417 | 8.376371725 | 8.317877694 | 8.443912394 | 8.486196965 |
| Urm1 | 7.426595337 | 7.546263538 | 7.475391307 | 7.147465445 | 7.137123938 | 6.769826698 |
| Use1 | 8.268585917 | 8.026550276 | 7.86742339 | 7.979250015 | 7.957334334 | 7.79518335 |
| Uso1 | 8.973597356 | 8.696836411 | 8.985047923 | 8.736545028 | 8.994068759 | 8.885857409 |
| Usp1 | 9.624813259 | 9.429195914 | 9.641041164 | 9.552567026 | 9.366570612 | 9.606869186 |
| Usp29 | 9.157063004 | 9.241048598 | 9.358518272 | 9.325128254 | 9.415776136 | 9.406197326 |
| Usp35 | 7.079064482 | 7.065993477 | 6.655113117 | 6.814662667 | 6.822030152 | 7.018684418 |
| Usp37 | 9.844840658 | 9.733774172 | 9.806840183 | 9.669905603 | 9.86144349 | 9.81626278 |
| Usp39 | 8.64691225 | 8.541057492 | 8.736265233 | 8.313154006 | 8.427070391 | 8.356561279 |
| Usp51 | 5.02503232 | 5.55722848 | 5.342954171 | 4.640865717 | 4.638225882 | 4.828538958 |
| Utp11l | 7.214626703 | 7.16784392 | 7.344499199 | 6.801231826 | 6.847569902 | 6.934649122 |
| Uty | 1 | 1 | 1 | 1.605542449 | 9.323232817 | 9.335864615 |
| Uvssa | 8.264915424 | 8.331707257 | 8.307755651 | 8.289300747 | 8.47428784 | 8.343585151 |
| Vars | 9.863163908 | 9.65411371 | 9.826593434 | 9.516036903 | 9.534536428 | 9.649669336 |
| Vasp | 8.301206774 | 8.3918807 | 8.054939026 | 7.899562588 | 7.822162881 | 8.228305017 |
| Vat1l | 9.094331856 | 9.237929461 | 9.045295227 | 9.046486289 | 9.086347782 | 9.25501321 |
| Vav3 | 8.538597609 | 8.481642877 | 7.86742339 | 8.331956663 | 8.541033209 | 8.199787102 |
| Vcpip1 | 9.822541079 | 9.756839142 | 9.748494973 | 9.722510428 | 9.882187587 | 9.880560254 |
| Vdac3 | 9.265737785 | 9.337458805 | 9.219757645 | 9.066272104 | 9.251702884 | 9.345659739 |
| Vegfa | 8.873507796 | 8.913681354 | 9.07862533 | 8.871185604 | 8.767531156 | 8.840394804 |
| Vezf1 | 10.08546055 | 9.953148676 | 10.33406504 | 10.07617938 | 10.1014919 | 10.02369556 |
| Vhl | 8.598153606 | 8.780678523 | 8.797601428 | 8.828790376 | 8.668309087 | 8.626722855 |
| Vim | 12.00505315 | 11.92137563 | 11.8695456 | 11.79597744 | 11.67700642 | 11.66729389 |
| Vkorc1 | 5.768201518 | 5.616073469 | 6.127499866 | 5.057148905 | 4.952570441 | 4.671251885 |
| Vma21 | 7.926866847 | 8.268914386 | 8.01245271 | 8.0938474 | 8.375331561 | 8.290481041 |
| Vmn1r32 | 1 | 1.985596612 | 2.346809092 | 2.851100857 | 1.742960444 | 2.976330056 |
| Vmp1 | 8.343584661 | 8.090199423 | 7.828767736 | 8.163733725 | 8.091646168 | 7.706744944 |
| Vps26a | 8.887897636 | 8.769921097 | 8.558680638 | 8.785111498 | 8.525293677 | 8.942894789 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Vps28 | 8.89028205 | 8.801955689 | 9.011176862 | 8.906110372 | 8.80712165 | 8.885857409 |
| Vps37b | 8.707660193 | 8.617452625 | 8.746670738 | 8.465669252 | 8.306400244 | 8.33049125 |
| Vstm2a | 7.800724456 | 7.886173697 | 7.799080743 | 8.200008034 | 8.174708068 | 8.03198727 |
| Vstm2b | 6.116632854 | 6.474193269 | 6.028636913 | 6.167675041 | 6.548598415 | 6.538882047 |
| Vsx2 | 4.75888608 | 3.782574642 | 3.280577348 | 4.579248421 | 4.335381646 | 3.617319577 |
| Vti1b | 8.388131439 | 8.612644125 | 8.396335926 | 8.142588557 | 8.34874928 | 8.249329503 |
| Was | 1.834785459 | 2.978340632 | 1 | 1 | 1.418787199 | 1.793876829 |
| Wasf1 | 8.068354845 | 7.71727479 | 8.479790635 | 8.490986459 | 8.294068628 | 8.290481041 |
| Wasl | 8.953215246 | 8.98796917 | 9.216018112 | 9.171799586 | 8.953479544 | 8.881375078 |
| Wbp11 | 8.589375434 | 8.678547025 | 8.81748071 | 8.615151257 | 8.463316077 | 8.76453655 |
| Wbp5 | 9.812518428 | 9.650599399 | 9.779230151 | 9.709987225 | 9.801721165 | 9.668002394 |
| Wbscr16 | 6.6087826 | 6.690421389 | 6.466552201 | 6.703542969 | 6.658499563 | 6.344163211 |
| Wbscr17 | 7.400068652 | 7.726206233 | 7.799080743 | 7.560066561 | 7.813548956 | 7.97422651 |
| Wdr37 | 9.630529443 | 9.40714985 | 9.494387746 | 9.613389863 | 9.775349147 | 9.576689791 |
| Wdr48 | 9.654573683 | 9.790227356 | 9.601458241 | 9.615309828 | 9.603616704 | 9.620381134 |
| Wdr62 | 6.597152809 | 5.894843895 | 6.781940076 | 6.551407287 | 6.04423294 | 5.923581073 |
| Wdr7 | 10.4397867 | 10.49203379 | 10.23407285 | 10.39058323 | 10.52535482 | 10.48014947 |
| Wdr90 | 8.796783834 | 8.818754334 | 8.851623649 | 8.588033395 | 8.692000395 | 8.474340572 |
| Wdsub1 | 5.962006808 | 5.474837936 | 6.466552201 | 5.484368924 | 5.383455101 | 4.752037851 |
| Wfdc2 | 2.904029779 | 4.433135735 | 4.46371154 | 4.053408608 | 3.126983752 | 2.303023309 |
| Wfikkn1 | 5.74730838 | 5.495880869 | 5.639468694 | 5.101656215 | 4.638225882 | 5.697480352 |
| Whamm | 6.342390651 | 6.681264926 | 6.917057967 | 7.093392124 | 7.073611394 | 6.863708404 |
| Whsc1 | 12.30673208 | 12.22923332 | 12.37031285 | 12.27335079 | 12.30283946 | 12.21124255 |
| Whsc1l1 | 10.45677831 | 10.29377295 | 10.62520307 | 10.34618621 | 10.51609389 | 10.4395652 |
| Wibg | 7.795645475 | 7.959962914 | 7.848225027 | 7.5993972 | 7.24995982 | 7.464562498 |
| Wipf2 | 7.972590348 | 7.833420063 | 7.876927609 | 8.168971945 | 8.204663426 | 7.896393726 |
| Wiz | 8.441134751 | 8.093654478 | 8.822408023 | 8.785111498 | 8.324702257 | 8.730051656 |
| Wnt9a | 4.077947413 | 3.478699897 | 2.72911076 | 5.379823897 | 4.598664013 | 3.780271631 |
| Wrb | 8.92790627 | 8.931167349 | 8.715226328 | 8.38693755 | 8.715308932 | 8.526943428 |
| Wsb2 | 9.46444163 | 9.506402174 | 9.54594017 | 9.476446726 | 9.453689693 | 9.559958272 |
| Xbp1 | 8.699525473 | 8.997222457 | 8.746670738 | 8.355120529 | 8.670695801 | 8.788673515 |
| Xiap | 9.950301668 | 9.81973435 | 9.848497276 | 9.955572051 | 10.10590795 | 10.07954651 |
| Xkr4 | 8.750287281 | 8.657690457 | 8.44826137 | 8.67159937 | 8.951517946 | 8.658505892 |
| Xpo1 | 11.79968306 | 11.63876888 | 11.70854144 | 11.66909616 | 11.58288696 | 11.55708839 |
| Xylt1 | 6.882295587 | 7.590953988 | 7.737808763 | 6.583144971 | 7.095094417 | 7.546116814 |
| Ylpm1 | 10.44141359 | 10.54914437 | 10.90382679 | 10.56163913 | 10.46887597 | 10.685639 |
| Ythdc2 | 9.125026374 | 9.046189808 | 9.0283369 | 8.915490384 | 9.079178821 | 8.807696486 |
| Ythdf1 | 8.934852867 | 8.814572975 | 9.086838916 | 8.580190881 | 8.870783182 | 8.840394804 |
| Ythdf3 | 10.62155036 | 10.44411835 | 10.63643802 | 10.49124568 | 10.6814423 | 10.43192267 |
| Ywhab | 10.53581546 | 10.54662555 | 10.68187901 | 10.68468546 | 10.71594042 | 10.7111208 |
| Ywhae | 11.3168608 | 11.25839898 | 11.72770895 | 11.4547619 | 11.30609951 | 11.52008256 |
| Zbtb16 | 5.682749757 | 5.796508198 | 5.76761879 | 6.081411933 | 6.101966287 | 6.444805259 |
| Zbtb33 | 9.213375952 | 9.076189655 | 9.230918434 | 8.98247462 | 9.225967625 | 9.244580598 |
| Zbtb38 | 8.264915424 | 8.692285755 | 8.570443605 | 8.653027659 | 8.561755649 | 8.730051656 |
| Zbtb39 | 8.482810658 | 8.380610926 | 8.429007674 | 8.413661705 | 8.424244176 | 8.425915907 |
| Zbtb6 | 9.0963986 | 8.917585487 | 8.797601428 | 8.906110372 | 8.995973385 | 9.042613165 |
| Zc3h10 | 7.889215153 | 7.219360232 | 7.818939792 | 7.199585062 | 7.066378704 | 7.066852093 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Zc3h12c | 9.725727428 | 9.50380754 | 9.811803909 | 9.558566454 | 9.592330593 | 9.241086228 |
| Zc3h13 | 10.08546055 | 9.896909772 | 10.29205691 | 10.01350046 | 10.03264836 | 10.09704896 |
| Zc3h4 | 9.81879074 | 9.894930849 | 10.25609087 | 9.979619595 | 9.732581793 | 9.746502994 |
| Zc3h6 | 7.727938134 | 7.841662625 | 7.651841978 | 7.781413557 | 7.733617806 | 7.523282183 |
| Zc3hav1l | 8.674842432 | 8.705894885 | 8.851623649 | 8.890340207 | 8.687293155 | 8.63206889 |
| Zcchc11 | 10.87371444 | 10.88944455 | 11.0611321 | 10.8976537 | 10.89501857 | 10.90686253 |
| Zcchc12 | 9.47718704 | 9.46164593 | 9.154828502 | 9.420447609 | 9.412927687 | 9.461296417 |
| Zcchc5 | 3.047666507 | 2.205919617 | 1 | 3.635872179 | 2.007489679 | 1 |
| Zcchc7 | 8.185595857 | 8.546110182 | 8.314765989 | 8.230390494 | 8.246862924 | 8.206969603 |
| Zdbf2 | 11.26175756 | 11.08958283 | 11.3594616 | 11.21120905 | 11.23409673 | 11.18300259 |
| Zdhhc21 | 9.79226179 | 9.661116753 | 9.727634952 | 9.766369125 | 9.85201044 | 9.780601468 |
| Zeb2 | 10.8999834 | 11.04922583 | 11.28199083 | 11.11203228 | 11.16974575 | 11.28324453 |
| Zer1 | 8.64408926 | 8.791356331 | 8.409493545 | 8.697204558 | 8.941669744 | 8.779067133 |
| Zfand4 | 6.43676005 | 6.536450301 | 6.740890878 | 6.4517769 | 6.101966287 | 5.888273572 |
| Zfhx2os | 5.868356087 | 5.941607358 | 6.655113117 | 6.167675041 | 5.921335734 | 6.627197922 |
| Zfhx3 | 11.68109888 | 11.50244919 | 11.81682018 | 11.77766357 | 11.56888001 | 11.79432315 |
| Zfhx4 | 11.54547222 | 11.46958502 | 11.57477875 | 11.50585161 | 11.49908186 | 11.51358022 |
| Zfp148 | 10.55096557 | 10.55228673 | 10.73118185 | 10.57551209 | 10.68085041 | 10.65707918 |
| Zfp207 | 11.51296094 | 11.46858743 | 11.62569942 | 11.38838578 | 11.41402954 | 11.36096254 |
| Zfp217 | 8.146234916 | 7.91380022 | 8.021050658 | 7.867702096 | 7.533103826 | 7.965782904 |
| Zfp280c | 9.123000266 | 8.907805273 | 8.912964789 | 8.851773261 | 8.995973385 | 9.10929611 |
| Zfp280d | 10.01181874 | 9.967343321 | 10.12064274 | 9.754222488 | 10.15275932 | 10.10283623 |
| Zfp281 | 9.524003912 | 9.49076391 | 9.589946453 | 9.427021088 | 9.368042046 | 9.464296639 |
| Zfp292 | 11.81262621 | 11.92283313 | 11.97121032 | 11.78578443 | 11.88298358 | 11.86072289 |
| Zfp316 | 9.456418189 | 9.34472636 | 9.372023724 | 9.121352176 | 9.070167232 | 9.093881028 |
| Zfp326 | 8.704953713 | 8.653014431 | 8.90369579 | 8.637996215 | 8.649071877 | 8.663735651 |
| Zfp334 | 9.839914898 | 9.825979519 | 9.838803268 | 9.871318391 | 9.76421692 | 9.595967765 |
| Zfp367 | 7.656896065 | 7.997334635 | 7.215596043 | 7.753790403 | 7.51727707 | 7.415802885 |
| Zfp395 | 5.307880412 | 5.387455657 | 5.76761879 | 5.379823897 | 5.383455101 | 5.613488471 |
| Zfp41 | 10.20807925 | 10.15183635 | 10.21171358 | 10.09693959 | 10.02613913 | 9.844170445 |
| Zfp423 | 9.475600008 | 9.40714985 | 9.693080644 | 9.497419019 | 9.432749729 | 9.505657507 |
| Zfp445 | 11.37292349 | 11.33629899 | 11.33983622 | 11.33404417 | 11.33384838 | 11.37298598 |
| Zfp455 | 4.80004717 | 4.433135735 | 4.46371154 | 5.673154141 | 5.599283728 | 5.327464956 |
| Zfp462 | 12.00862415 | 11.90278539 | 12.51352885 | 12.07765905 | 12.03660757 | 12.12476614 |
| Zfp503 | 7.433151493 | 7.299338803 | 7.330732364 | 7.014114022 | 6.60957971 | 7.066852093 |
| Zfp524 | 4.009405591 | 4.879886885 | 5.168191412 | 3.370835508 | 4.382735357 | 3.22300096 |
| Zfp580 | 5.46968923 | 5.341696146 | 6.189834702 | 5.267106973 | 4.855205563 | 5.036351157 |
| Zfp608 | 10.27347421 | 10.41541468 | 10.72724649 | 10.30870899 | 10.27935911 | 10.53540053 |
| Zfp609 | 9.799891399 | 9.614977273 | 10.22851544 | 9.957086823 | 9.749615404 | 10.0378623 |
| Zfp644 | 10.77329853 | 10.77950854 | 10.94394257 | 10.82899549 | 10.79955867 | 10.67013104 |
| Zfp651 | 8.177809111 | 8.079784332 | 8.220861814 | 8.104821966 | 7.864477522 | 8.095286392 |
| Zfp664 | 10.4822915 | 10.21744087 | 10.51994574 | 10.28839603 | 10.32173841 | 10.32705292 |
| Zfp704 | 10.95227011 | 11.12039746 | 11.15200586 | 11.09630918 | 11.19980325 | 11.25493636 |
| Zfp770 | 7.903449939 | 7.76572728 | 8.10432422 | 7.704139468 | 7.742720901 | 7.601670527 |
| Zfp788 | 8.975844362 | 9.074442122 | 8.841950696 | 9.023536586 | 9.111162273 | 9.147128257 |
| Zfp804a | 7.599764006 | 7.397652741 | 7.200535793 | 7.391055685 | 7.760756566 | 7.230864661 |
| Zfp804b | 3.511354355 | 3.974698911 | 3.678570668 | 5.186752068 | 5.262085683 | 4.752037851 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Zfp871 | 11.24927283 | 11.15015292 | 11.22172887 | 11.160173 | 11.32554175 | 11.06740115 |
| Zfp874b | 6.195876154 | 6.181291514 | 5.847135518 | 5.673154141 | 6.143798956 | 4.970351389 |
| Zfp931 | 6.270992534 | 6.862311704 | 6.632847408 | 6.551407287 | 7.29397293 | 6.769826698 |
| Zfp94 | 6.823622422 | 6.870391298 | 6.362144593 | 6.146587985 | 6.116045717 | 6.444805259 |
| Zfp97 | 4.80004717 | 4.597908067 | 3.990174756 | 3.045898796 | 3.234144523 | 3.926671999 |
| Zfpm2 | 8.201044388 | 8.484277645 | 8.314765989 | 8.452842071 | 8.181418771 | 8.588735424 |
| Zglp1 | 2.744494966 | 2.853470894 | 2.346809092 | 4.756726338 | 2.747440291 | 3.617319577 |
| Zic1 | 10.3237364 | 10.18703455 | 10.52297567 | 10.38384122 | 10.10502582 | 10.36607505 |
| Zic2 | 8.82447787 | 8.787094687 | 9.032595206 | 8.47838339 | 8.556602877 | 8.621356935 |
| Zic3 | 8.169980108 | 8.012016409 | 8.09620986 | 7.979250015 | 7.980606047 | 8.178022524 |
| Zim1 | 6.772836778 | 6.66277579 | 7.006366839 | 6.583144971 | 6.872665379 | 7.082557119 |
| Zkscan2 | 9.32510505 | 9.15602381 | 8.944945201 | 9.391611263 | 9.344317098 | 9.230552046 |
| Zkscan3 | 9.143134433 | 9.21431847 | 9.174230508 | 8.91860355 | 9.079178821 | 9.086111278 |
| Zmiz1 | 10.72736049 | 10.51669517 | 11.24117754 | 10.9403995 | 10.60613205 | 10.95990626 |
| Zmiz2 | 9.220973577 | 8.899933082 | 9.563704083 | 9.212954822 | 8.830791647 | 9.326002533 |
| Zmym1 | 8.571657212 | 8.703635593 | 8.460955881 | 8.465669252 | 8.577104454 | 8.375809226 |
| Zmym2 | 11.43752537 | 11.37550155 | 11.43620142 | 11.32527366 | 11.39250157 | 11.31765874 |
| Zmym6 | 9.41396142 | 9.245714695 | 9.178079794 | 9.418249777 | 9.230828084 | 9.381016726 |
| Zmynd8 | 10.10817164 | 10.264183 | 10.5214615 | 10.13491039 | 10.13558386 | 10.26646638 |
| Znrf3 | 7.81082909 | 7.293341578 | 7.695465596 | 7.732720314 | 7.834988096 | 7.832813749 |
| Zranb2 | 10.28348632 | 10.27867444 | 10.1832682 | 10.32052554 | 10.31565098 | 10.01962223 |
| Zranb3 | 7.701026658 | 7.667138317 | 7.748203182 | 7.136811703 | 7.116262226 | 7.173357913 |
| Zrsr2 | 8.246421563 | 8.124383183 | 7.789047758 | 8.142588557 | 7.933681068 | 7.982620987 |

**LX, ABX + Veh or ABX + FLX dams [normalized gene counts, Wald, p <0.05]**

| ABX + Veh 1 | ABX + Veh 2 | ABX + Veh 3 | ABX + FLX 1 | ABX + FLX 2 | ABX + FLX 3 |
|---|---|---|---|---|---|
| 9.163986653 | 9.214274677 | 9.195835242 | 9.029025996 | 8.834527523 | 8.986115537 |
| 5.20937531 | 4.763989148 | 5.42209455 | 4.950067607 | 5.036273452 | 5.211906216 |
| 6.146276344 | 5.784988506 | 6.178827647 | 5.933284016 | 5.805443346 | 6.333687577 |
| 4.448385543 | 5.113905184 | 4.94017096 | 4.366797664 | 4.356767986 | 4.683201781 |
| 1 | 1 | 1.520899766 | 1.40189026 | 2.34524792 | 1.961732649 |
| 7.317331132 | 7.148102294 | 7.437384541 | 7.293119087 | 7.021049908 | 7.298421905 |
| 9.28493458 | 9.306372523 | 9.14355004 | 9.3883937 | 9.598891342 | 9.51695334 |
| 9.426182478 | 9.491524603 | 9.545606703 | 9.728159687 | 9.738140258 | 9.764946512 |
| 7.948285383 | 8.044194949 | 8.038424687 | 7.792638854 | 8.149519283 | 7.72403707 |
| 2.459379109 | 4.231169995 | 3.163111837 | 3.074635247 | 1 | 1.559564046 |
| 5.768104837 | 6.455613719 | 6.672644045 | 6.183334418 | 6.386451309 | 5.540381827 |
| 1.662934613 | 3.091832257 | 3.531904981 | 2.192163608 | 3.029091357 | 2.275883944 |
| 9.639559871 | 9.811902817 | 9.782009896 | 9.913530849 | 10.09387029 | 9.966967599 |
| 6.574828051 | 6.57327552 | 6.596894388 | 6.862459978 | 6.717395152 | 6.842602549 |
| 5.066011601 | 3.241540814 | 3.8253578 | 3.458731245 | 4.650252065 | 3.932350938 |
| 7.025981046 | 6.866256711 | 6.857118337 | 6.6481605 | 6.838875062 | 7.17139837 |
| 7.586132639 | 7.726267866 | 7.639679523 | 7.661439291 | 8.009899129 | 7.423148832 |
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| 8.209371407 | 8.300295637 | 8.02403597 | 7.82160853 | 7.796530343 | 7.811838214 |
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| 8.034258568 | 7.81255509 | 7.639679523 | 8.120313546 | 8.291074833 | 8.25383437 |

| SPF + FLX v SPF + Veh p-value | ABX + FLX v SPF + FLX p-value | ABX + FLX v ABX + Veh p-value |
|---|---|---|
| 0.392814015 | 0.001884205 | 0.076007067 |
| 0.034683619 | 0.535804407 | 0.897614102 |
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| 0.027705121 | 0.488039803 | 0.413783661 |
| 0.034623626 | 0.340596856 | 0.287505874 |
| 0.023225193 | 0.072512433 | 0.822311727 |
| 0.253894014 | 0.521069976 | 0.003770737 |
| 0.786434653 | 0.030645572 | 0.000907783 |
| 0.02596836 | 0.099685887 | 0.6052294 |
| 0.22646001 | 0.036971446 | 0.130676784 |
| 0.046472897 | 0.377633863 | 0.423282134 |
| 0.033996648 | 0.250347824 | 0.560318607 |
| 0.131294501 | 0.442267845 | 0.001730664 |
| 0.063577776 | 0.01477023 | 0.199742438 |
| 0.04258494 | 0.169380551 | 0.811658475 |
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| 0.026806071 | 0.074347978 | 0.787306936 |
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| 0.455707299 | 0.007208238 | 0.004764486 |
| 0.10745715 | 0.003568716 | 0.493130289 |
| 0.062865243 | 0.631002286 | 0.001772798 |
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| 0.148313845 | 0.026950567 | 0.275888234 |
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| 0.206693658 | 0.040529729 | NA |
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| 0.849792062 | 0.883484774 | 0.015301553 |
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| 0.915908889 | 0.009304154 | 0.093222527 |

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| 0.391584237 | 0.001774093 | 6.88E-05 |
| 0.034385575 | 0.141831763 | 0.310744899 |
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| 0.035993532 | 0.095374271 | 0.410859086 |
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| 0.038715479 | 0.017418095 | 0.07344627 |
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