**Table S1. Macronutrients composition in diet**

|  |  |  |
| --- | --- | --- |
| Ingredient | %/kcal | kcal/g |
| Protein | 18.1 | 0.72 |
| Fat | 5.1 | 0.46 |
| Carbohydrate | 65.2 | 2.61 |
| Others1 | 11.6 | - |
| Total | 100 | 3.79 |

1Includes fiber, ash, etc.

**Table S2. A list of differentially expressed genes1 in RNA sequencing dataset of male mice**

|  |  |  |
| --- | --- | --- |
| **Gene symbol** | **Fold change** | ***p*-value** |
| *Cyp2b10* | -100.33 | 0.0053 |
| *Selenbp2* | -10.43 | 0.0217 |
| *Htra4* | -10.23 | 0.0364 |
| *Lncbate1* | -9.99 | 0.0256 |
| *Yipf3* | -9.48 | 0.0068 |
| *Ncam2* | -7.03 | 0.0403 |
| *Mtg1* | -6.59 | 0.0223 |
| *Nbr1* | -5.87 | 0.0203 |
| *TrnH* | -5.84 | 0.0206 |
| *Cops8* | -5.43 | 0.0421 |
| *Clec2h* | -5.17 | 0.0383 |
| *Gopc* | -4.85 | 0.0195 |
| *Enho* | -4.77 | 0.0289 |
| *Rab3gap2* | -4.73 | 0.0217 |
| *Ndufs7* | -4.66 | 0.0327 |
| *Xrcc2* | -4.63 | 0.0301 |
| *Sebox* | -4.61 | 0.0040 |
| *Adamdec1* | -4.48 | 0.0282 |
| *Smc1b* | -4.43 | 0.0115 |
| *Tmem70* | -4.24 | 0.0155 |
| *Lin7a* | -4.09 | 0.0422 |
| *Nudcd1* | -4.07 | 0.0112 |
| *Rtn3* | -3.96 | 0.0441 |
| *Rxra* | -3.93 | 0.0245 |
| *Cyp2c40* | -3.85 | 0.0495 |
| *Cyp2c70* | -3.60 | 0.0168 |
| *Gypc* | -3.57 | 0.0093 |
| *Tspyl4* | -3.54 | 0.0123 |
| *Sdc1* | -3.44 | 0.0179 |
| *Aldh1b1* | -3.32 | 0.0040 |
| *Fdx1l* | -3.27 | 0.0409 |
| *Fam35a* | -3.27 | 0.0348 |
| *Cth* | -3.26 | 0.0032 |
| *Igf1* | -3.25 | 0.0198 |
| *Ppm1b* | -3.25 | 0.0010 |
| *Lrsam1* | -3.08 | 0.0240 |
| *Trappc2* | -3.06 | 0.0422 |
| *Cyp2c50* | -3.04 | 0.0488 |
| *Dbt* | -2.93 | 0.0219 |
| *Cnot9* | -2.90 | 0.0060 |
| *Zfp326* | -2.87 | 0.0415 |
| *Abtb2* | -2.81 | 0.0299 |
| *Abat* | -2.72 | 0.0325 |
| *Actr5* | -2.72 | 0.0138 |
| *Slco2a1* | -2.66 | 0.0370 |
| *Ivd* | -2.62 | 0.0240 |
| *Ralgapa1* | -2.58 | 0.0003 |
| *Rnd1* | -2.55 | 0.0157 |
| *Oat* | -2.38 | 0.0393 |
| *Gls2* | -2.37 | 0.0146 |
| *Raver2* | -2.35 | 0.0340 |
| *Dtx4* | -2.34 | 0.0471 |
| *Cyp2c37* | -2.28 | 0.0013 |
| *Bhmt* | -2.26 | 0.0243 |
| *Ngef* | -2.24 | 0.0477 |
| *Tstd1* | -2.21 | 0.0339 |
| *Cul3* | -2.14 | 0.0097 |
| *Upf1* | -2.10 | 0.0409 |
| *Ppm1k* | -2.08 | 0.0332 |
| *Ugt2b1* | -2.06 | 0.0120 |
| *Anp32b* | -2.03 | 0.0383 |
| *Kynu* | -2.02 | 0.0253 |
| *Pex26* | 2.02 | 0.0211 |
| *Dynll1* | 2.03 | 0.0443 |
| *Id1* | 2.05 | 0.0217 |
| *Rsph3b* | 2.09 | 0.0358 |
| *Nenf* | 2.09 | 0.0402 |
| *Lyrm1* | 2.12 | 0.0223 |
| *Acnat2* | 2.13 | 0.0290 |
| *Zfp689* | 2.13 | 0.0104 |
| *Pycrl* | 2.16 | 0.0030 |
| *Kdsr* | 2.17 | 0.0058 |
| *Rarres1* | 2.20 | 0.0115 |
| *Pltp* | 2.20 | 0.0216 |
| *Fads2* | 2.24 | 0.0347 |
| *Sult1c2* | 2.27 | 0.0368 |
| *Fer* | 2.28 | 0.0125 |
| *Ogg1* | 2.29 | 0.0413 |
| *Rnd2* | 2.30 | 0.0045 |
| *Shcbp1* | 2.31 | 0.0296 |
| *Foxm1* | 2.33 | 0.0421 |
| *Atat1* | 2.34 | 0.0450 |
| *Meis1* | 2.39 | 0.0021 |
| *Cyp2d40* | 2.43 | 0.0169 |
| *Snai1* | 2.45 | 0.0305 |
| *Kbtbd12* | 2.47 | 0.0204 |
| *Tmem39b* | 2.48 | 0.0140 |
| *Inhbe* | 2.49 | 0.0038 |
| *Gnb1l* | 2.53 | 0.0434 |
| *Ccnd1* | 2.54 | 0.0220 |
| *AW549542* | 2.59 | 0.0404 |
| *Pcp4l1* | 2.59 | 0.0276 |
| *Qsox2* | 2.64 | 0.0083 |
| *Ms4a4d* | 2.66 | 0.0219 |
| *Thrsp* | 2.66 | 0.0396 |
| *Uck1* | 2.72 | 0.0405 |
| *Gpi1* | 2.80 | 0.0122 |
| *Serpina12* | 2.80 | 0.0102 |
| *Mirt2* | 2.82 | 0.0282 |
| *B230206H07Rik* | 2.90 | 0.0351 |
| *AI450353* | 2.96 | 0.0405 |
| *Ptgis* | 2.96 | 0.0406 |
| *Cdc20* | 3.00 | 0.0064 |
| *Cd9* | 3.10 | 0.0050 |
| *Zbtb48* | 3.21 | 0.0189 |
| *Tmem86a* | 3.21 | 0.0042 |
| *Dancr* | 3.32 | 0.0416 |
| *Cpz* | 3.38 | 0.0235 |
| *Pygo1* | 3.46 | 0.0296 |
| *Tlr12* | 3.49 | 0.0101 |
| *Trp53inp2* | 3.54 | 0.0418 |
| *Plppr2* | 3.58 | 0.0415 |
| *Irak3* | 3.60 | 0.0038 |
| *Impa2* | 3.64 | 0.0036 |
| *Phf7* | 3.70 | 0.0172 |
| *Pde4a* | 3.71 | 0.0039 |
| *Cyp17a1* | 3.73 | 0.0051 |
| *Shisa5* | 4.08 | 0.0344 |
| *Skida1* | 4.10 | 0.0072 |
| *Mycn* | 4.24 | 0.0242 |
| *Ccnb2* | 4.29 | 0.0174 |
| *Zfp580* | 4.37 | 0.0290 |
| *Ccm2l* | 4.43 | 0.0024 |
| *Ube2c* | 4.43 | 0.0134 |
| *Cd248* | 4.49 | 0.0379 |
| *Hcn3* | 4.69 | 0.0015 |
| *Plcb1* | 4.72 | 0.0191 |
| *Lgi3* | 4.83 | 0.0285 |
| *G6pdx* | 4.95 | 0.0112 |
| *Emb* | 5.15 | 0.0204 |
| *Tnks2* | 5.30 | 0.0228 |
| *Rgs16* | 5.83 | 0.0368 |
| *Naa60* | 5.93 | 0.0401 |
| *Nek2* | 6.64 | 0.0385 |
| *Iglc3* | 7.82 | 0.0217 |
| *Fabp5* | 8.47 | 0.0015 |
| *Lrp2bp* | 9.12 | 0.0117 |
| *Lepr* | 13.24 | 0.0012 |
| *Pnpla3* | 14.51 | 0.0370 |

1 Genes with Fold Change > ±2 and p < 0.05 were selected as differentially expressed genes.

**Table S3. A list of differentially expressed genes1 in RNA sequencing dataset of female mice**

|  |  |  |
| --- | --- | --- |
| **Gene symbol** | **Fold change** | ***p*-value** |
| *Dnaic1* | -16.35 | 0.0006 |
| *Enho* | -12.97 | 0.0058 |
| *Cyp2b10* | -8.17 | 0.0052 |
| *TrnS2* | -7.95 | 0.0071 |
| *Sult2a7* | -7.33 | 0.0156 |
| *Selenbp2* | -6.50 | 0.0207 |
| *Nnmt* | -6.26 | 0.0293 |
| *Fmn1* | -5.63 | 0.0185 |
| *Atrnl1* | -5.17 | 0.0070 |
| *Zfp951* | -4.87 | 0.0387 |
| *Adgrf1* | -4.51 | 0.0382 |
| *Atp6v0d2* | -4.50 | 0.0006 |
| *Cables1* | -4.28 | 0.0059 |
| *Cth* | -3.81 | 0.0125 |
| *Msmo1* | -3.63 | 0.0007 |
| *Hmgn2* | -3.45 | 0.0297 |
| *Ttyh1* | -3.40 | 0.0273 |
| *Serpina1e* | -3.27 | 0.0128 |
| *Fgl1* | -3.26 | 0.0392 |
| *Cela1* | -3.06 | 0.0387 |
| *Lncbate1* | -3.04 | 0.0272 |
| *Ces1b* | -3.00 | 0.0100 |
| *E230013L22Rik* | -2.99 | 0.0417 |
| *Gadd45b* | -2.95 | 0.0404 |
| *Oat* | -2.95 | 0.0263 |
| *N4bp2l2* | -2.95 | 0.0382 |
| *Cyp2c54* | -2.93 | 0.0146 |
| *Ell3* | -2.68 | 0.0394 |
| *Cyp2b13* | -2.68 | 0.0035 |
| *Cyp2c37* | -2.67 | 0.0075 |
| *AW146154* | -2.66 | 0.0103 |
| *Krt23* | -2.66 | 0.0084 |
| *Hnf4aos* | -2.65 | 0.0360 |
| *Rgs1* | -2.62 | 0.0497 |
| *Cnot7* | -2.59 | 0.0398 |
| *Bhmt* | -2.50 | 0.0318 |
| *Mfsd9* | -2.49 | 0.0257 |
| *Pigr* | -2.46 | 0.0002 |
| *Fam25c* | -2.42 | 0.0330 |
| *Clcn2* | -2.38 | 0.0072 |
| *Ube2cbp* | -2.35 | 0.0286 |
| *Mup11* | -2.35 | 0.0418 |
| *Agmat* | -2.34 | 0.0200 |
| *Cyp2c50* | -2.34 | 0.0248 |
| *C9* | -2.28 | 0.0213 |
| *Ppm1k* | -2.28 | 0.0109 |
| *Clec2d* | -2.26 | 0.0348 |
| *Ube2u* | -2.25 | 0.0058 |
| *Ivd* | -2.21 | 0.0027 |
| *Colgalt2* | -2.21 | 0.0022 |
| *Cyp51* | -2.19 | 0.0441 |
| *Rab36* | -2.15 | 0.0427 |
| *Ppil2* | -2.15 | 0.0115 |
| *Elp6* | -2.12 | 0.0443 |
| *Pcbd2* | -2.12 | 0.0260 |
| *Gstk1* | -2.12 | 0.0116 |
| *Gpt* | -2.11 | 0.0237 |
| *Ifih1* | -2.11 | 0.0218 |
| *Pck1* | -2.10 | 0.0016 |
| *Rab11fip4os1* | -2.09 | 0.0341 |
| *Dtd2* | -2.07 | 0.0119 |
| *Dbt* | -2.07 | 0.0047 |
| *Metrn* | -2.07 | 0.0349 |
| *Tlcd2* | -2.05 | 0.0113 |
| *Sacm1l* | -2.05 | 0.0363 |
| *Setdb2* | -2.03 | 0.0482 |
| *Lin9* | -2.03 | 0.0380 |
| *Igfbp2* | -2.03 | 0.0260 |
| *Adh4* | -2.03 | 0.0146 |
| *Jund* | -2.02 | 0.0324 |
| *Sdf2l1* | -2.02 | 0.0065 |
| *Plpp5* | -2.00 | 0.0053 |
| *Rpap3* | -2.00 | 0.0298 |
| *Rab34* | 2.06 | 0.0384 |
| *Aldob* | 2.09 | 0.0290 |
| *Cyp2a4* | 2.12 | 0.0369 |
| *Slc44a3* | 2.15 | 0.0055 |
| *Cks1b* | 2.18 | 0.0121 |
| *Taf4* | 2.18 | 0.0494 |
| *Nab1* | 2.27 | 0.0324 |
| *Platr17* | 2.28 | 0.0416 |
| *Phgdh* | 2.28 | 0.0236 |
| *Khk* | 2.34 | 0.0072 |
| *Slc9a1* | 2.36 | 0.0465 |
| *Cotl1* | 2.38 | 0.0065 |
| *Cyp17a1* | 2.39 | 0.0473 |
| *Enpep* | 2.40 | 0.0008 |
| *Rrm2* | 2.42 | 0.0096 |
| *Acnat2* | 2.46 | 0.0233 |
| *Cyp2d40* | 2.47 | 0.0091 |
| *Hsd3b5* | 2.47 | 0.0082 |
| *B130006D01Rik* | 2.47 | 0.0203 |
| *Ugt1a5* | 2.48 | 0.0007 |
| *Osbpl5* | 2.49 | 0.0375 |
| *Dancr* | 2.60 | 0.0270 |
| *Sec31b* | 2.60 | 0.0105 |
| *Sowahb* | 2.61 | 0.0208 |
| *Impa2* | 2.65 | 0.0358 |
| *Polr3gl* | 2.67 | 0.0027 |
| *Pygo1* | 2.72 | 0.0422 |
| *Tgfb3* | 2.76 | 0.0146 |
| *Gabbr2* | 2.80 | 0.0384 |
| *Fam84b* | 2.81 | 0.0158 |
| *Sult1c2* | 2.95 | 0.0017 |
| *Scd4* | 3.04 | 0.0290 |
| *Mfsd2a* | 3.05 | 0.0205 |
| *Igf2bp2* | 3.17 | 0.0035 |
| *Cd8b1* | 3.17 | 0.0374 |
| *Extl1* | 3.19 | 0.0117 |
| *Cd9* | 3.20 | 0.0029 |
| *Fam151a* | 3.22 | 0.0114 |
| *Atat1* | 3.23 | 0.0440 |
| *Pde4a* | 3.28 | 0.0049 |
| *Ccm2l* | 3.30 | 0.0314 |
| *Pltp* | 3.35 | 0.0240 |
| *Rnd2* | 3.40 | 0.0004 |
| *E130102H24Rik* | 3.52 | 0.0199 |
| *Dgkq* | 3.60 | 0.0067 |
| *Apold1* | 3.66 | 0.0212 |
| *Ttbk1* | 3.94 | 0.0394 |
| *Scd3* | 4.07 | 0.0376 |
| *Ly6k* | 4.10 | 0.0348 |
| *Scd1* | 4.16 | 0.0208 |
| *Pgd* | 4.21 | 0.0145 |
| *Safb2* | 4.21 | 0.0194 |
| *Serpina12* | 4.30 | 0.0070 |
| *Ccdc159* | 4.49 | 0.0185 |
| *Gpi1* | 4.70 | 0.0119 |
| *Tbc1d31* | 5.02 | 0.0249 |
| *Acly* | 5.03 | 0.0447 |
| *Adcy1* | 5.04 | 0.0273 |
| *Tsc22d1* | 5.23 | 0.0082 |
| *Fabp5* | 5.60 | 0.0341 |
| *Lepr* | 6.22 | 0.0049 |
| *Slc5a1* | 6.59 | 0.0003 |
| *Thrsp* | 6.71 | 0.0272 |
| *F730035M05Rik* | 6.93 | 0.0181 |
| *Atp2b2* | 7.15 | 0.0329 |
| *Elovl6* | 7.56 | 0.0097 |
| *Hcn3* | 9.46 | 0.0001 |
| *Apoa4* | 12.72 | 0.0000 |
| *Fam83a* | 13.64 | 0.0074 |
| *Sult2a3* | 13.84 | 0.0054 |
| *Ly6d* | 16.10 | 0.0080 |
| *Gldn* | 16.67 | 0.0032 |
| *Pnpla3* | 20.45 | 0.0049 |

1 Genes with Fold Change > ±2 and p < 0.05 were selected as differentially expressed genes.

**Table S4. A list of differentially expressed genes1 in RNA sequencing dataset**

|  |  |  |
| --- | --- | --- |
| **Gene symbol** | **Fold change** | ***p*-value** |
| *Cyp2b10* | -31.44 | 0.00888 |
| *Htra4* | -9.84 | 0.00122 |
| *Enho* | -8.35 | 0.00001 |
| *Selenbp2* | -7.27 | 0.00246 |
| *Nnmt* | -7.04 | 0.00600 |
| *Dnaic1* | -6.18 | 0.00880 |
| *Lncbate1* | -5.51 | 0.00393 |
| *Atp6v0d2* | -4.67 | 0.04247 |
| *Sycp3* | -4.18 | 0.00201 |
| *Tspyl4* | -4.10 | 0.00091 |
| *TrnS2* | -4.07 | 0.02765 |
| *Serpina3a* | -3.97 | 0.00267 |
| *Apmap* | -3.85 | 0.00446 |
| *Rian* | -3.54 | 0.02136 |
| *Yipf3* | -3.53 | 0.02494 |
| *Ranbp3l* | -3.45 | 0.00123 |
| *Cth* | -3.43 | 0.00027 |
| *Dhrs11* | -3.36 | 0.01605 |
| *Dmwd* | -3.29 | 0.00503 |
| *Fmn1* | -3.26 | 0.02663 |
| *Atrnl1* | -3.10 | 0.01591 |
| *Rab3gap2* | -3.10 | 0.01482 |
| *N4bp2l2* | -3.08 | 0.00755 |
| *Pigr* | -3.04 | 0.00308 |
| *TrnH* | -3.00 | 0.01788 |
| *Gopc* | -2.94 | 0.03142 |
| *Ces1b* | -2.94 | 0.00138 |
| *Pmm1* | -2.94 | 0.00880 |
| *Abcc3* | -2.90 | 0.02908 |
| *Cables1* | -2.88 | 0.02829 |
| *Mtg1* | -2.87 | 0.00676 |
| *Xrcc2* | -2.82 | 0.00806 |
| *Trp53inp1* | -2.79 | 0.03022 |
| *Cyp2c54* | -2.77 | 0.00031 |
| *Cops8* | -2.72 | 0.02562 |
| *Cyp2c37* | -2.70 | 0.02206 |
| *Cela1* | -2.69 | 0.00503 |
| *Cyp2c50* | -2.67 | 0.00026 |
| *Plpp5* | -2.67 | 0.00681 |
| *Krt23* | -2.65 | 0.03443 |
| *Mug1* | -2.65 | 0.01429 |
| *Oat* | -2.63 | 0.00049 |
| *Smc1b* | -2.56 | 0.01269 |
| *Setdb2* | -2.50 | 0.03999 |
| *Lrsam1* | -2.50 | 0.01986 |
| *Zfp677* | -2.47 | 0.04181 |
| *Rtn3* | -2.46 | 0.00676 |
| *Clcn2* | -2.44 | 0.00018 |
| *Cnot9* | -2.42 | 0.00752 |
| *Sdc1* | -2.41 | 0.00682 |
| *Dbt* | -2.41 | 0.00016 |
| *Ivd* | -2.39 | 0.00006 |
| *Serpina1a* | -2.38 | 0.01277 |
| *Blvra* | -2.38 | 0.01738 |
| *Peli1* | -2.37 | 0.03391 |
| *Bhmt* | -2.36 | 0.00032 |
| *Plxnc1* | -2.35 | 0.03956 |
| *Zfp277* | -2.33 | 0.00506 |
| *Dcxr* | -2.33 | 0.00312 |
| *Msmo1* | -2.32 | 0.00326 |
| *Gls2* | -2.31 | 0.00065 |
| *Ndufs7* | -2.29 | 0.01569 |
| *Fancm* | -2.29 | 0.04720 |
| *Rnf125* | -2.28 | 0.04155 |
| *Abat* | -2.27 | 0.00258 |
| *S100a10* | -2.26 | 0.04457 |
| *Cyp2c68* | -2.25 | 0.04451 |
| *Alg1* | -2.23 | 0.02044 |
| *Cyp2c70* | -2.22 | 0.03054 |
| *Aox3* | -2.22 | 0.04209 |
| *Arhgap42* | -2.21 | 0.02751 |
| *Aldh1b1* | -2.20 | 0.05000 |
| *Eid1* | -2.18 | 0.03214 |
| *Ppm1k* | -2.17 | 0.00017 |
| *Fam25c* | -2.16 | 0.00288 |
| *Antxr2* | -2.15 | 0.00340 |
| *Rnd1* | -2.15 | 0.00785 |
| *Ccdc122* | -2.14 | 0.03488 |
| *Mfsd9* | -2.14 | 0.00515 |
| *Trappc2* | -2.14 | 0.00834 |
| *AW146154* | -2.10 | 0.00790 |
| *Ugt1a10* | -2.10 | 0.03146 |
| *Polb* | -2.09 | 0.00277 |
| *Tat* | -2.09 | 0.00636 |
| *Zfp560* | -2.04 | 0.04694 |
| *Gpt* | -2.04 | 0.00009 |
| *Hnf4aos* | -2.03 | 0.03516 |
| *Ppm1b* | -2.02 | 0.02453 |
| *Dleu2* | -2.00 | 0.00500 |
| *Slc6a13* | 2.00 | 0.04140 |
| *Phf7* | 2.01 | 0.02705 |
| *Chek2* | 2.03 | 0.02922 |
| *Smox* | 2.05 | 0.00578 |
| *Khk* | 2.07 | 0.00059 |
| *Acss2* | 2.10 | 0.02291 |
| *Cks1b* | 2.12 | 0.01655 |
| *Bmyc* | 2.14 | 0.00550 |
| *Ube2c* | 2.16 | 0.02477 |
| *Renbp* | 2.16 | 0.03866 |
| *Cngb1* | 2.18 | 0.01793 |
| *Rab34* | 2.20 | 0.00834 |
| *Uck1* | 2.21 | 0.00194 |
| *Lrrk1* | 2.21 | 0.04065 |
| *Rbm3* | 2.23 | 0.03229 |
| *Gabbr2* | 2.23 | 0.02734 |
| *Adrb1* | 2.24 | 0.04815 |
| *Tgfb3* | 2.27 | 0.01397 |
| *Plxna4os1* | 2.29 | 0.01595 |
| *Sec31b* | 2.30 | 0.00015 |
| *Dubr* | 2.30 | 0.03754 |
| *Extl1* | 2.36 | 0.01092 |
| *Epsti1* | 2.38 | 0.04904 |
| *Trim80* | 2.41 | 0.03867 |
| *Osbpl5* | 2.45 | 0.00157 |
| *Cyp2d40* | 2.48 | 0.00005 |
| *Surf2* | 2.48 | 0.02860 |
| *Dgkq* | 2.50 | 0.03950 |
| *G0s2* | 2.53 | 0.01374 |
| *Sult1c2* | 2.53 | 0.00079 |
| *Plppr2* | 2.56 | 0.00777 |
| *Tlr12* | 2.63 | 0.00461 |
| *Gpx8* | 2.69 | 0.03991 |
| *Icam4* | 2.70 | 0.02350 |
| *Iglc3* | 2.70 | 0.01948 |
| *Bex4* | 2.70 | 0.02832 |
| *Mfsd2a* | 2.73 | 0.00506 |
| *Cygb* | 2.73 | 0.01440 |
| *Pltp* | 2.76 | 0.00030 |
| *Safb2* | 2.81 | 0.01623 |
| *Rnd2* | 2.81 | 0.00001 |
| *Pgd* | 2.82 | 0.00315 |
| *Mr1* | 2.87 | 0.00725 |
| *Igf2bp2* | 2.89 | 0.00026 |
| *Dancr* | 2.92 | 0.00068 |
| *Naa60* | 2.94 | 0.00695 |
| *Atat1* | 2.95 | 0.00781 |
| *Hba-a1* | 2.96 | 0.04736 |
| *Tsc22d1* | 3.05 | 0.00399 |
| *Scd3* | 3.08 | 0.01142 |
| *Hbb-bs* | 3.09 | 0.02889 |
| *Impa2* | 3.11 | 0.00018 |
| *Cd9* | 3.12 | 0.00000 |
| *Tnks2* | 3.22 | 0.00728 |
| *Acly* | 3.24 | 0.01966 |
| *Peg10* | 3.25 | 0.02675 |
| *Plscr2* | 3.31 | 0.01403 |
| *Pde4a* | 3.31 | 0.00051 |
| *Bicd1* | 3.34 | 0.04493 |
| *Scd1* | 3.40 | 0.00291 |
| *Ccne1* | 3.43 | 0.04475 |
| *Pcyt2* | 3.46 | 0.04863 |
| *Fam151a* | 3.47 | 0.00883 |
| *Tbc1d31* | 3.50 | 0.00140 |
| *Gpi1* | 3.60 | 0.00023 |
| *Acaca* | 3.66 | 0.01294 |
| *Ccm2l* | 3.71 | 0.00025 |
| *Serpina12* | 3.79 | 0.00272 |
| *Luc7l* | 3.84 | 0.03748 |
| *Lgi3* | 3.86 | 0.00238 |
| *Mup17* | 3.94 | 0.01403 |
| *Atp2b2* | 3.97 | 0.04003 |
| *Adcy1* | 4.11 | 0.00254 |
| *Mycn* | 4.26 | 0.00120 |
| *Thrsp* | 4.37 | 0.00028 |
| *Rgs16* | 4.66 | 0.00793 |
| *Lrp2bp* | 4.85 | 0.00047 |
| *G6pdx* | 5.09 | 0.00069 |
| *Elovl6* | 5.56 | 0.00179 |
| *Gldn* | 5.69 | 0.03116 |
| *Fam83a* | 5.90 | 0.00979 |
| *Dbp* | 6.41 | 0.00952 |
| *Fabp5* | 6.56 | 0.00018 |
| *Hcn3* | 6.71 | 0.00001 |
| *Lepr* | 8.05 | 0.00078 |
| *Apoa4* | 10.03 | 0.00001 |
| *Ly6d* | 12.64 | 0.00056 |
| *Pnpla3* | 16.21 | 0.00006 |

1 Genes with Fold Change > ±2 and p < 0.05 were selected as differentially expressed genes.

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**Figure S1. Fructose increased fat accumulation in Oil Red O stained liver tissues of mice.** Representative images are shown, and Oil Red O stained area were quantified using ImageJ software (National Institutes of Health, Bethesda, MD, USA). Data were expressed as means ± standard error of means. \*\*\*\* indicates *p* < 0.0001.