**Supplementary Table 10. Gene expression values of DEGs involved in metabolism-related terms in the liver.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene category** | **Ensemble ID** | **Symbol** | **No feeding group (Mean CPM)** | **Suckling group (Mean CPM)** | **Adult group (Mean CPM)** |
| Carbohydrate metabolism and energy production related genes | ENSAMEG00000000169 | NDUFA1 | 22.66  | 48.41  | 115.09  |
| ENSAMEG00000000613 | NDUFS4 | 22.79  | 38.15  | 76.24  |
| ENSAMEG00000001684 | ENSAMEG00000001684 | 4.99  | 2.21  | 74.21  |
| ENSAMEG00000002182 | ENSAMEG00000002182 | 27.95  | 64.56  | 98.95  |
| ENSAMEG00000002294 | NDUFA12 | 14.11  | 26.64  | 52.51  |
| ENSAMEG00000003731 | COX6B2 | 0.05  | 0.24  | 1.49  |
| ENSAMEG00000003836 | NDUFB6 | 26.84  | 43.44  | 89.87  |
| ENSAMEG00000004512 | NDUFA5 | 10.61  | 23.13  | 31.45  |
| ENSAMEG00000004761 | NDUFB4 | 16.50  | 30.48  | 62.65  |
| ENSAMEG00000004785 | NDUFA4L2 | 0.63  | 3.47  | 18.55  |
| ENSAMEG00000005633 | AOX2 | 0.62  | 1.34  | 4.29  |
| ENSAMEG00000006027 | NDUFB3 | 21.62  | 32.80  | 82.45  |
| ENSAMEG00000006153 | COX7B | 74.04  | 136.79  | 270.20  |
| ENSAMEG00000006494 | GBA3 | 0.66  | 0.03  | 22.84  |
| ENSAMEG00000007142 | COX17 | 24.41  | 41.30  | 90.50  |
| ENSAMEG00000007287 | UQCRB | 74.66  | 140.03  | 316.96  |
| ENSAMEG00000007629 | SI | 59.41  | 3.69  | 672.68  |
| ENSAMEG00000009142 | FDX1 | 6.84  | 10.29  | 37.55  |
| ENSAMEG00000010324 | ENPP3 | 0.50  | 1.37  | 154.64  |
| ENSAMEG00000010344 | NDUFS5 | 37.23  | 54.08  | 141.43  |
| ENSAMEG00000010954 | NDUFA2 | 37.05  | 76.79  | 141.77  |
| ENSAMEG00000011040 | NDUFC1 | 13.02  | 22.37  | 44.76  |
| ENSAMEG00000011122 | GBE1 | 7.44  | 8.00  | 42.11  |
| ENSAMEG00000011283 | ATP6V0E1 | 30.15  | 42.96  | 102.60  |
| ENSAMEG00000013441 | COX7C | 136.09  | 264.13  | 677.36  |
| ENSAMEG00000014360 | ETFB | 70.31  | 140.12  | 301.10  |
| ENSAMEG00000014690 | COX11 | 5.47  | 7.79  | 17.49  |
| ENSAMEG00000014965 | MGAM | 13.95  | 5.34  | 60.72  |
| ENSAMEG00000015328 | NDUFB2 | 22.35  | 47.42  | 101.62  |
| ENSAMEG00000015878 | GLRX2 | 9.22  | 17.89  | 32.55  |
| ENSAMEG00000017601 | GCK | 1.41  | 1.01  | 269.40  |
| ENSAMEG00000017762 | UQCRQ | 104.16  | 155.40  | 490.18  |
| ENSAMEG00000017831 | PYGM | 3.46  | 1.70  | 7.56  |
| **Gene category** | **Ensemble ID** | **Symbol** | **No feeding group (Mean CPM)** | **Suckling group (Mean CPM)** | **Adult group (Mean CPM)** |
| Lipid metabolism related genes | ENSAMEG00000000342 | CYP2J2 | 4.08  | 7.68  | 37.32  |
| ENSAMEG00000003107 | ENSAMEG00000003107 | 0.51  | 2.31  | 21.11  |
| ENSAMEG00000003132 | CYP2E1 | 213.43  | 29.88  | 578.53  |
| ENSAMEG00000003219 | PLA2G2F | 0.13  | 0.11  | 1.25  |
| ENSAMEG00000004236 | HSD17B6 | 30.33  | 36.60  | 165.14  |
| ENSAMEG00000004376 | ENSAMEG00000004376 | 19.95  | 6.02  | 437.39  |
| ENSAMEG00000004846 | SLC27A6 | 156.38  | 96.30  | 405.22  |
| ENSAMEG00000004853 | HSD17B12 | 12.59  | 24.63  | 42.08  |
| ENSAMEG00000005398 | ENSAMEG00000005398 | 38.51  | 47.11  | 305.90  |
| ENSAMEG00000005596 | MSMO1 | 46.47  | 77.25  | 348.50  |
| ENSAMEG00000005730 | ENSAMEG00000005730 | 67.48  | 130.28  | 916.66  |
| ENSAMEG00000006243 | ENSAMEG00000006243 | 3.96  | 6.16  | 445.10  |
| ENSAMEG00000008222 | SC5D | 27.13  | 34.09  | 136.80  |
| ENSAMEG00000008506 | ACSL1 | 36.99  | 47.38  | 139.07  |
| ENSAMEG00000008842 | CYP1A2 | 3.44  | 6.33  | 718.08  |
| ENSAMEG00000008843 | SLC27A2 | 9.60  | 9.72  | 231.01  |
| ENSAMEG00000009440 | ENSAMEG00000009440 | 138.82  | 55.68  | 512.23  |
| ENSAMEG00000011617 | COMT | 51.75  | 45.63  | 173.83  |
| ENSAMEG00000011718 | ENSAMEG00000011718 | 0.51  | 3.68  | 32.54  |
| ENSAMEG00000011749 | ENSAMEG00000011749 | 24.63  | 40.09  | 229.05  |
| ENSAMEG00000011824 | CYP2B6 | 0.10  | 5.09  | 346.07  |
| ENSAMEG00000012056 | SLC27A3 | 12.44  | 9.27  | 33.99  |
| ENSAMEG00000012518 | ACSBG1 | 0.38  | 0.25  | 5.60  |
| ENSAMEG00000012592 | INSIG2 | 3.00  | 2.39  | 10.27  |
| ENSAMEG00000013340 | ENSAMEG00000013340 | 0.19  | 0.32  | 8.08  |
| ENSAMEG00000013578 | PTGIS | 1.27  | 0.56  | 9.45  |
| ENSAMEG00000013878 | ENSAMEG00000013878 | 46.69  | 12.32  | 164.71  |
| ENSAMEG00000013900 | AGMO | 1.99  | 8.86  | 27.12  |
| ENSAMEG00000015532 | PTGS2 | 0.34  | 1.32  | 11.38  |
| ENSAMEG00000016104 | ENSAMEG00000016104 | 16.84  | 18.07  | 528.65  |
| ENSAMEG00000016630 | MVK | 12.54  | 15.27  | 85.38  |
| ENSAMEG00000017636 | CYP1B1 | 0.08  | 0.03  | 0.55  |
| ENSAMEG00000017684 | ENSAMEG00000017684 | 50.51  | 4.45  | 346.98  |
| ENSAMEG00000018008 | AKR1D1 | 47.05  | 27.05  | 154.31  |
| ENSAMEG00000018150 | PLAAT3 | 14.31  | 18.25  | 58.74  |
| ENSAMEG00000020100 | CH25H | 0.07  | 0.02  | 1.49  |
| **Gene category** | **Ensemble ID** | **Symbol** | **No feeding group (Mean CPM)** | **Suckling group (Mean CPM)** | **Adult group (Mean CPM)** |
| Amino acid and protein metabolism related genes | ENSAMEG00000000028 | CTH | 74.74  | 22.14  | 93.47  |
| ENSAMEG00000000467 | ENSAMEG00000000467 | 8.52  | 6.74  | 26.23  |
| ENSAMEG00000001013 | HRG | 164.01  | 133.34  | 1383.11  |
| ENSAMEG00000001045 | C5 | 175.63  | 159.85  | 891.95  |
| ENSAMEG00000001264 | CTSK | 14.88  | 6.64  | 26.52  |
| ENSAMEG00000002184 | COL14A1 | 12.32  | 4.67  | 54.60  |
| ENSAMEG00000002287 | ENSAMEG00000002287 | 5564.64  | 1229.72  | 95194.15  |
| ENSAMEG00000002621 | SERPINE1 | 8.92  | 13.86  | 230.71  |
| ENSAMEG00000002945 | CFD | 139.21  | 93.42  | 728.40  |
| ENSAMEG00000003004 | PCSK6 | 6.99  | 1.06  | 35.85  |
| ENSAMEG00000003447 | PCSK5 | 0.31  | 0.45  | 4.22  |
| ENSAMEG00000003817 | COL4A3 | 1.24  | 0.10  | 10.80  |
| ENSAMEG00000004015 | ENSAMEG00000004015 | 4.98  | 2.13  | 20.33  |
| ENSAMEG00000004046 | ENSAMEG00000004046 | 24.47  | 43.27  | 626.87  |
| ENSAMEG00000004084 | COL4A4 | 1.45  | 0.38  | 2.92  |
| ENSAMEG00000004524 | COL9A2 | 5.48  | 0.65  | 9.53  |
| ENSAMEG00000004675 | SHMT1 | 153.91  | 79.84  | 389.45  |
| ENSAMEG00000004751 | SCRN2 | 9.60  | 8.99  | 51.31  |
| ENSAMEG00000005123 | CPE | 1.00  | 0.64  | 8.91  |
| ENSAMEG00000005307 | PLAT | 0.96  | 0.82  | 5.98  |
| ENSAMEG00000005445 | AOX1 | 119.45  | 85.85  | 567.17  |
| ENSAMEG00000005491 | GPT | 21.61  | 14.63  | 101.71  |
| ENSAMEG00000005545 | MMP25 | 6.20  | 1.04  | 5.51  |
| ENSAMEG00000005696 | BHMT | 1398.08  | 917.05  | 6455.10  |
| ENSAMEG00000005739 | DMGDH | 245.59  | 133.03  | 775.84  |
| ENSAMEG00000006033 | CFLAR | 16.52  | 14.31  | 87.84  |
| ENSAMEG00000006251 | CTSB | 220.33  | 191.43  | 673.39  |
| ENSAMEG00000006287 | ENSAMEG00000006287 | 0.12  | 0.03  | 9.82  |
| ENSAMEG00000006522 | CTSV | 171.89  | 92.90  | 512.69  |
| ENSAMEG00000007262 | LACTB | 32.98  | 25.55  | 80.27  |
| ENSAMEG00000007801 | PAMR1 | 2.62  | 0.57  | 6.26  |
| ENSAMEG00000008108 | ITIH4 | 2969.02  | 362.61  | 9324.75  |
| ENSAMEG00000008612 | SDSL | 2.22  | 0.55  | 9.37  |
| ENSAMEG00000008632 | SDS | 23.45  | 1.37  | 159.16  |
| ENSAMEG00000008842 | CYP1A2 | 3.44  | 6.33  | 718.08  |
| ENSAMEG00000008883 | HDC | 0.11  | 0.38  | 3.79  |
| ENSAMEG00000009070 | PSEN2 | 5.82  | 3.12  | 16.90  |
| ENSAMEG00000009102 | ALAS1 | 25.64  | 16.83  | 405.80  |
| ENSAMEG00000009461 | GZMA | 0.13  | 0.75  | 5.31  |
| ENSAMEG00000009730 | ALDH8A1 | 86.10  | 42.91  | 200.35  |
| ENSAMEG00000010076 | ENSAMEG00000010076 | 229.08  | 298.90  | 1388.63  |
| ENSAMEG00000010195 | GCAT | 3.38  | 1.27  | 5.17  |
| ENSAMEG00000010760 | ENSAMEG00000010760 | 24.34  | 19.33  | 67.84  |
| ENSAMEG00000010813 | HTRA1 | 4.35  | 4.94  | 49.78  |
| ENSAMEG00000010855 | ADAM33 | 0.54  | 0.13  | 1.38  |
| ENSAMEG00000011357 | ADAM15 | 9.22  | 2.84  | 11.20  |
| ENSAMEG00000011447 | CSTB | 44.29  | 38.68  | 153.73  |
| ENSAMEG00000011536 | ADAMTSL2 | 7.82  | 4.24  | 158.94  |
| ENSAMEG00000012033 | ENSAMEG00000012033 | 42.22  | 11.95  | 125.80  |
| ENSAMEG00000012158 | COL5A3 | 4.23  | 0.93  | 25.47  |
| ENSAMEG00000012647 | GATM | 5.77  | 36.69  | 411.91  |
| ENSAMEG00000012753 | GNMT | 587.50  | 304.90  | 3563.02  |
| ENSAMEG00000012868 | FGL2 | 9.15  | 4.77  | 32.72  |
| ENSAMEG00000013144 | CPB2 | 216.60  | 174.37  | 991.99  |
| ENSAMEG00000013559 | C1RL | 8.00  | 3.62  | 20.49  |
| ENSAMEG00000013566 | C1R | 474.77  | 342.89  | 2416.12  |
| ENSAMEG00000013869 | A2M | 1435.33  | 507.57  | 3752.85  |
| ENSAMEG00000013878 | ENSAMEG00000013878 | 46.69  | 12.32  | 164.71  |
| ENSAMEG00000014033 | AOC1 | 0.05  | 0.05  | 19.33  |
| ENSAMEG00000014114 | TIMP2 | 5.44  | 3.96  | 13.10  |
| ENSAMEG00000014526 | SERPING1 | 655.24  | 313.24  | 2927.60  |
| ENSAMEG00000014850 | ENPEP | 3.75  | 2.07  | 30.77  |
| ENSAMEG00000015089 | XPNPEP2 | 0.67  | 0.33  | 2.98  |
| ENSAMEG00000015468 | TDO2 | 111.09  | 4.93  | 707.85  |
| ENSAMEG00000015492 | ADAMTS4 | 0.78  | 1.41  | 13.47  |
| ENSAMEG00000015783 | SLC16A10 | 6.63  | 3.44  | 29.49  |
| ENSAMEG00000015921 | ACE2 | 0.81  | 0.45  | 56.98  |
| ENSAMEG00000016040 | SPOCK1 | 1.82  | 0.36  | 4.68  |
| ENSAMEG00000016329 | ACMSD | 14.30  | 11.61  | 250.23  |
| ENSAMEG00000016366 | COL28A1 | 0.14  | 0.03  | 3.72  |
| ENSAMEG00000016398 | PHEX | 0.34  | 0.03  | 0.90  |
| ENSAMEG00000016417 | MMP2 | 13.17  | 3.52  | 16.85  |
| ENSAMEG00000016581 | HGF | 10.17  | 2.10  | 20.41  |
| ENSAMEG00000016700 | AGXT | 735.03  | 324.00  | 1762.62  |
| ENSAMEG00000016828 | ATP1B2 | 0.66  | 0.08  | 0.75  |
| ENSAMEG00000017272 | ADAMTS1 | 15.05  | 8.58  | 52.24  |
| ENSAMEG00000017421 | CRIM1 | 16.14  | 4.77  | 46.63  |
| ENSAMEG00000017742 | TFPI2 | 4.03  | 1.99  | 34.41  |
| ENSAMEG00000017754 | TINAGL1 | 23.94  | 11.73  | 102.27  |
| ENSAMEG00000017831 | PYGM | 3.46  | 1.70  | 7.56  |
| ENSAMEG00000018429 | ENSAMEG00000018429 | 0.50  | 0.22  | 8.64  |
| ENSAMEG00000018686 | ALDH1B1 | 0.33  | 0.08  | 6.42  |