**Supplementary Table 1. Primer sequences.**

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| **Gene (*Mus musculus*)** |  | **5′→3′ sequence** |
| *Fabp1* | Forward | ATGAACTTCTCCGGCAAGTACC |
| Reverse | CTGACACCCCCTTGATGTCC |
| *Fatp1* | Forward | CGCTTTCTGCGTATCGTCTG |
| Reverse | GATGCACGGGATCGTGTCT |
| *Cd36* | Forward | ATGGGCTGTGATCGGAACTG |
| Reverse | TTTGCCACGTCATCTGGGTTT |
| *Mttp* | Forward | ATACAAGCTCACGTACTCCACT |
| Reverse | TCTCTGTTGACCCGCATTTTC |
| *Apob* | Forward | TGGGCTACATCAGGCTTTGAG |
| Reverse | CTCTCCTACAACCTTCCCCTC |
| *Acc1* | Forward | ATGGGCGGAATGGTCTCTTTC |
| Reverse | TGGGGACCTTGTCTTCATCAT |
| *Fasn* | Forward | GGAGGTGGTGATAGCCGGTAT |
| Reverse | TGGGTAATCCATAGAGCCCAG |
| *Scd1* | Forward | GCAAGCTCTACACCTGCCTCTT |
| Reverse | CGTGCCTTGTAAGTTCTGTGGC |
| *Dgat1* | Forward | CTGATCCTGAGTAATGCAAGGTT |
| Reverse | TGGATGCAATAATCACGCATGG |
| *Dgat2* | Forward | CGAGACACCATAGACTACTTGCT |
| Reverse | GCGGTTCTTCAGGGTGACTG |
| *Cpt1a* | Forward | CTCCGCCTGAGCCATGAAG |
| Reverse | CACCAGTGATGATGCCATTCT |
| *Acads* | Forward | TGGCGACGGTTACACACTG |
| Reverse | GTAGGCCAGGTAATCCAAGCC |
| *Acadm* | Forward | AGGGTTTAGTTTTGAGTTGACGG |
| Reverse | CCCCGCTTTTGTCATATTCCG |
| *Acadl* | Forward | TCTTTTCCTCGGAGCATGACA |
| Reverse | GACCTCTCTACTCACTTCTCCAG |
| *Acadvl* | Forward | CTACTGTGCTTCAGGGACAAC |
| Reverse | CAAAGGACTTCGATTCTGCCC |
| *Acox1* | Forward | TAACTTCCTCACTCGAAGCCA |
| Reverse | TAACTTCCTCACTCGAAGCCA |
| *Tet1* | Forward | ATTTCCGCATCTGGGAACCTG |
| Reverse | GGAAGTTGATCTTTGGGGCAAT |
| *Tet2* | Forward | ACCTGGCTACTGTCATTGCTCC |
| Reverse | TGCAGTGACTCCTGAGAATGGC |
| *Tet3* | Forward | CTCCCCTGCTGTCTTCAGA |
| Reverse | CCTGAGGCTCTGTGGAAGTA |
| *Dnmt1* | Forward | GGACAAGGAGAATGCCATGAAGC |
| Reverse | TTACTCCGTCCAGTGCCACCAA |
| *Dnmt3a* | Forward | CGCAAAGCCATCTACGAAGTCC |
| Reverse | GCTTGTTCTGCACTTCCACAGC |
| *Dnmt3b* | Forward | CGCACAACCAATGACTCTGCTG |
| Reverse | GGTGACTTCAGAAGCCATCCGT |
| *Gapdh* | Forward | AACTCCCACTCTTCCACCTTCG |
| Reverse | TCCACCACCCTGTTGCTGTAG |
| **Gene (*Homo sapiens*)** |  | **5′→3′ sequence** |
| *RASAL2* | Forward | GACAGAAACACGAGCTTTCGG |
| Reverse | CATGGGAACGTGACTCTTTTAGT |
| *TET1* | Forward | CATCAGTCAAGACTTTAAGCCCT |
| Reverse | CGGGTGGTTTAGGTTCTGTTT |
| *GAPDH* | Forward | GAGTCAACGGATTTGGTCGT |
| Reverse | CATGGGTGGAATCATATTGGA |