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| **Supplemental Table 1.** Primer sequences used in quantitative RT-PCR assays

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| Gene | Forward 5’-3’ | Reverse 5’-3’ |
| *Ucp1* | CACCTTCCCGCTGGACACT | TCGGCAATCCTTCTGTTT |
| *Prdm16* | CAGCACGGTGAAGCCATTC | GCGTGCATCCGCTTGTG |
| *PGC1α* | ACAGGAACAGCAGCAGAG | TAAGGTTCGCTCAATAGTC |
| *Cidea* | TGCTCTTCTGTATCGCCCAGT | GCCGTGTTAAGGAATCTGCTG |
| *Dio2* | AATTATGCCTCGGAGAAGACCG | GGCAGTTGCCTAGTGAAAGG |
| *Cox8b* | GAACCATGAAGCCAACGACT | GCGAAGTTCACAGTGGTTCC |
| *mtTFA* | GTCTGTATTCCGAAGTGTTT | TTGCATCTGGGTGTTTAG |
| *ATP syn* | GGTTCATCCTGCCAGAGACTA | AATCCCTCATCGAACTGGACG |
| *Cpt1b* | ATGTATCGCCGCAAACTG | CCTGGGATGCGTGTAGTG |
| *LCAD* | TCACCAACCGTGAAGCTCGA | CCAAAAAGAGGCTAATGCCAT |
| *MCAD* | ATGCCTGTGATTCTTGCT | TAACATACTCGTCACCCTTC |
| *PPARγ* | TGCTGTTATGGGTGAAACTCT | CGCTTGATGTCAAAGGAATGC |
| *CEBPβ* | ACGACTTCCTCTCCGACCTCT | CGAGGCTCACGTAACCGTAGT |
| *ACC* | TGTTGGGGTTATTTCAGTGTTGC | TGTCCAGCCAGCCAGTGTCG |
| *FASN* | CACAGATGATGACAGGAGATGGA | TCGGAGTGAGGCTGGGTTGATA |
| *CD36* | GATGACGTGGCAAAGAACAG | TCCTCGGGGTCCTGAGTTAT |
| *IL-6* | TAGTCCTTCCTACCCCAATTTCC | TTGGTCCTTAGCCACTCCTTC |
| *TNFα* | ACACTCAGATCATCTTCTCAAAATTCG | GTGTGGGTGAGGAGCACGTAGT |
| *36b4* | GAAACTGCTGCCTCACATCCG | GCTGGCACAGTGACCTCACACG |
| *18S* | AGTCCCTGCCCTTTGTACACA | CGATCCGAGGGCCTCACT |

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| **Supplemental Table2.** Primer sequences used in ChIP-qPCR and (h)MeDIP

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| Gene | Forward 5’-3’ | Reverse 5’-3’ |
| *Ucp1* enhancer | TCTACAGCGTCACAGAGGGT | TGATTTCTGCTCTTCTGGCA |
| *Ucp1* TSS | AGTCCCACTAGCAGCTCTTTG | GACCCGTTAAGCCCAGATT |
| Dio2 | GCTCTTAACCACTGAGCCATC | ATGCCATAGACATACAAGCAACC |
| Prdm16 (h)MeDIP a | AGAGAGAAGTGAGGTGAAGACCGAGAA | ACACACTATCTTCATCTCCCTAGCATTGT |
| Prdm16 (h)MeDIP b | GCATGTGCGAAGGTGTCCAAA | TGGATCGCATGGTGTCGGCT |
| Prdm16 (h)MeDIP c | CCAAAGCTTGAAGGAGAGAGACGTAAA | TCGGTTCTTGGCCTCCAGAGAAG |
| Negtive | CTGGGACGATGAATGAGGAT | AGCAGCTGGCACCTAAACAG |

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