

Table S1. Primer and probe sequences for quantitative *real-time* PCR

Target Gene	Forward Primer	Reverse Primer	Probe
Human: Analyses of adipose tissue samples			
<i>UCP1</i>	ACGACACGGTCCAGGAGTTC	ACCAGCTAAAATCTTGCTTCCT AAAC	TCACCGCAGGGAAAGAAACA GCACC
<i>COBL</i>	AAGCAATAGTAAGGGCTGTTT AACG	CACGGACACCCCTGAGATG	CATCCATGCACTCACGTTCTCT TACGCTG
<i>MKX</i>	GTGTCTCCATCGTCATCAGAAA CT	TTGCTTGGTCCTTTTCTGTTAG C	ATCGCACAGACACTCTGGAAA ACGGATC
<i>MYOC</i>	AAGCGACTAAGGCAAGAAAAT GA	CCAAATCCACGTAGAACTTC TCT	TGTCCCAGACCCGAGACACT GC
<i>ACTB</i>	CGAGCGCGGCTACAGCTT	CCTTAATGTCACGCACGATTT	ACCACCACGGCCGAGCGG
<i>TBP</i>	TTGTAACTTGACCTAAGACCA TTGC	TTCGTGGCTCTCTTATCCTCAT G	AACGCCGAATATAATCCCAAGC GGTTTG
<i>HPRT</i>	GGCAGTATAATCCAAAGATGG TCAA	GTCTGGCTTATATCCAACACTT CGT	CAAGCTTGCTGGTGAAAAGG ACCCC
Mouse: Analyses of adipose tissue samples			
<i>Pgc1a</i>	CTTTTGTGGACGGAAGCAAT	GAGTCTTGGGAAAGGACACG	
<i>Ucp1</i>	CCGAAACTGTACAGCGGTCT	CCGAGAGAGGCAGGTGTTTC	
<i>Cobl</i>	TGTTACGCAGCCGTTCAAGT	GCAACAGTAAGGCTGAGCATC TT	TCGCCGGGTCTCATCACTATC TGC
<i>Mkx</i>	TCAGAAACTGAAGGCACCTTT G	GCTTGGTCCCCTTCTGTTAGC	CTATCGCACAGACACCCCGGA CATC
<i>Myoc</i>	Predesigned assay		(Mm00447900_m1, Life Technologies)
<i>36b4</i>	AAGCGGCTCCTGGCATTGTCT	CCGCAGGGGCAGCAGTGGT	
Mouse: Analyses of HIB1B and 3T3-L1 cells			
<i>Pparg</i>	Predesigned assay		(Mm01184322_m1, Life Technologies)
<i>Ucp1</i>	Predesigned assay		(Mm01244861_m1, Life Technologies)
<i>Cobl</i>	TGTTACGCAGCCGTTCAAGT	GCAACAGTAAGGCTGAGCATC TT	TCGCCGGGTCTCATCACTATC TGC
<i>Mkx</i>	TCAGAAACTGAAGGCACCTTT G	GCTTGGTCCCCTTCTGTTAGC	CTATCGCACAGACACCCCGGA CATC
<i>Myoc</i>	Predesigned assay		(Mm00447900_m1, Life Technologies)
<i>Actb</i>	GCTCTGGCTCCTAGCACCAT	GCCACCGATCCACACCGCGT	TCAAGATCATTGCTCCTCTGA GCGC
<i>Tbp</i>	AATCTTGGCTGTAACTTGACC TAAAG	CGTGGCTCTCTTATCTCATGA TG	TCGTGCAAGAAATGCTGAATAT AATCCCAAGC

Primers and probes are given in 5'-3' direction.