

Supplemental Information

Table S1. Mouse primers used for PCR analysis

Gene		Primer Sequence	Ta(°C)	PCR product (bp)
<i>PGC-1alpha</i>	Forward	CACCAAACCCACAGAAAACAG	60	125
	Reverse	GGGTCAGAGGAAGAGATAAAGTTG		
<i>PGC-1beta</i>	Forward	GGTGTTCGGTGAGATTGTAGAG	60	131
	Reverse	GTGATAAAACCGTGCTTCTGG		
<i>NRF-1</i>	Forward	AATGTCCGCAGTGATGTCC	60	149
	Reverse	GCCTGAGTTTGTGTTTGCTG		
<i>NRF-2</i>	Forward	TGAAGTTCGCATTTTGATGGC	60	149
	Reverse	CTTTGGTCCTGGCATCTCTAC		
<i>TFAM</i>	Forward	CACCCAGATGCAAACTTTCAG	60	147
	Reverse	CTGCTCTTTATACTTGCTCACAG		
<i>TFB1M</i>	Forward	ATAGAGCCCAAGATCAAGCAG	60	146
	Reverse	TGTAACAGCCTTCCAGTGC		
<i>TFB2M</i>	Forward	ACCAAAACCCATCCCGTC	60	141
	Reverse	TCTGTAAGGGCTCCAAATGTG		
<i>NDUFS8</i>	Forward	G TTCATAGGGTCAGAGGTCAAG	60	115
	Reverse	TCCATTAAGATGTCCTGTGCG		
<i>ND1</i>	Forward	TGCACCTACCCTATCACTCA	60	148
	Reverse	GGCTCATCCTGATCATAGAATGG		
<i>COX5b</i>	Forward	ACCCTAATCTAGTCCCGTCC	60	89
	Reverse	CAGCCAAAACCAGATGACAG		
<i>COX1</i>	Forward	CCCAGATATAGCATTCCCACG	60	117
	Reverse	ACTGTTTATCCTGTTTCTGC		
<i>MCAD</i>	Forward	TGTTAATCGGTGAAGGAGCAG	60	133
	Reverse	CTATCCAGGGCATACTTCGTG		
<i>LCAD</i>	Forward	GGTGGAAAACGGAATGAAAGG	60	123
	Reverse	GGCAATCGGACATCTTCAAAG		
<i>CPT1b</i>	Forward	CCTCCGAAAAGCACCAAAAC	60	143
	Reverse	GCTCCAGGGTTCAGAAAGTAC		
GLUT1	Forward	TCAAACATGGAACCACCGCTA	60	123
	Reverse	AAGAGGCCGACAGAGAAGGAA		
GLUT4	Forward	ACCGGATTCCATCCCACAAG	60	137
	Reverse	TCCCAACCATTGAGAAATGATGC		
<i>Rsp18</i> (mtDNA analysis)	Forward	TGTGTTAGGGGACTGGTGGACA	60	195
	Reverse	CATCACCCACTTACCCCCAAA		
<i>COX2</i> (mtDNA analysis)	Forward	ATAACCGAGTCGTTCTGCCAAT	60	180
	Reverse	TTTCAGAGCATTGGCCATAGAA		

Ta, Temperature of annealing

Table S2. Rat primers used for PCR analysis

Gene		Primer Sequence	Ta(°C)	PCR product (bp)
<i>PGC-1alpha</i>	Forward	CTGCTCTTGAGAATGGATATACTT	58	153
	Reverse	CATACTTGCTCTTGGTGGAA		
<i>TFAM</i>	Forward	AAATGGCTGAAGTTG GGC GAA GTG	59	119
	Reverse	AGC TTC TTG GGC GAA GTG		
<i>COX4</i>	Forward	GGCAGAATGTTGGCTACC	59	107
	Reverse	GCATAGTCTTCACTCTTCACAA		
<i>COX2</i>	Forward	CCAGTATTAGCAGCAGGTATC	58	119
	Reverse	CCGAAGAATCAGAATAGGTGTT		
<i>Troponin 1 Fast</i>	Forward	CTGAGGGGCAAGTTCAAGAG	58	224
	Reverse	ATCTTCTTCCGACCCTCCAT		
<i>Troponin 1 Slow</i>	Forward	GACTGGAGGAAGAACGTGGA	58	203
	Reverse	GCTTGAACCCAAGAGAGCTG		
<i>MyHCIIa</i>	Forward	CTGAGGAACAATCCAACACAAA	60	188
	Reverse	TCTCTTCGGTCATTCTACAGCA		
<i>MyHCIIb</i>	Forward	AGAAAATCAAGAAGCAAATTGACC	58	207
	Reverse	ACTCCACTACTCTGAGGTGGTTTC		
Actin	Forward	CACCCGCGAGTACAACCTTC	59	207
	Reverse	CCCATACCCACCATCACACC		

Ta, Temperature of annealing