

Supplementary Tables

Supplementary Table 1. Primary antibodies used for Western blot analysis

Antibody	Manufacturer	Dilution factor	Catalogue number
AMPK	Abcam, USA	1:1000	ab207442
p-AMPK	Abcam, USA	1:1000	ab133448
PGC-1 α	Proteintech, China	1:1000	20658-1-AP
NRF2	Abcam, USA	1:1000	ab76026
UCP1	Proteintech, China	1:500	23673-1-AP
TFAM	Abcam, USA	1:500	ab131607
COX IV	Proteintech, China	1:4000	11242-1-AP
CYTO C	Proteintech, China	1:2000	10993-1-AP
DRP1	Cell Signaling Technology, USA	1:1000	#8570
p-DRP1	Cell Signaling Technology, USA	1:1000	#3455
MFN2	Cell Signaling Technology, USA	1:1000	#9482
Complex I	Proteintech, China	1:1000	20312-1-AP
Complex II	Proteintech, China	1:1000	14865-1-AP
Complex III	Proteintech, China	1:1000	55090-1-AP
SGLT2	Abcam, USA	1:1000	ab37296
GAPDH	Bioworld, USA	1:5000	AP0063

AMPK, adenosine 5' monophosphate-activated protein kinase; PGC-1 α , peroxisome proliferator-activated receptor γ -coactivator factor-1; NRF2, nuclear factor erythroid 2-related factor 2; UCP1, uncoupling protein 1; TFAM, transcription factor A; COX IV, cytochrome C oxidase subunit IV; CYTO C, cytochrome C; DRP1, dynamin-related protein 1; MFN2, mitofusin-2; GAPDH, glyceraldehyde 3-phosphate dehydrogenase; SGLT2, Sodium-glucose co-transporter-2;

Supplementary Table 2. Sequences of primers used for RT-qPCR

Genes	Forward (5'-3')	Reverse (5'-3')
<i>Plin1</i>	GTCCGTCGGCTGTCCACCC	ATGCTGTTTCCTGGCGCTTCG
<i>Adrb3</i>	CAGGTTTGATGGCTATGAAGG	GGGCAACCAGTCAAGAAGATG
<i>Glut4</i>	GGAGGGAGCCTTTGGTATTT	CAGCACAGGACACTCATCTT
<i>Fasn</i>	TGTGGTGGGTTTGGTGAATTGT	ACGAGGTCATGCTTTAGCACC
<i>Pparg2</i>	TCGCTGATGCACTGCCTATG	GAGAGGTCCACAGAGCTGATT
<i>Srebf1</i>	CCTCTGATCTCATGGCTCATAAC	CTAGGGAAGTGTGTGTGTTTCT
<i>Pgc-1α</i>	GACAATCCCGAAGACACTACAG	AGAGAGGAGAGAGAGAGAGAGA
<i>Ucp1</i>	CTGCCAGGACAGTACCCAAG	TCAGCTGTTCAAAGCACACAAA
<i>Cox8b</i>	GCGAAGTTCACAGTGGTTCC	GGAACCATGAAGCCAACGACT
<i>Dio2</i>	GCTGCCGAATGTCAACGAATG	CTGGTTCAGACTCACCTTGGA
<i>Cytoc</i>	GCTACCCATGGTCTCATCGTG	CATCATCATTAGGGCCATCCT
<i>Tfam</i>	GTCCATAGGCACCGTATTGCG	CCCATGCTGGAAAAACACTTCG
<i>Mcp1</i>	CCACTCACCTGCTGCTACTCAT	TGGTGATCCTCTGTAGCTCTC
<i>Tnf</i>	GCCTCTTCTCATTCTGCTTGT	GGCCATTTGGGAAGTCTCAT
<i>F4/80</i>	CGTCAGGTACGGGATGAATATAAG	ATCTTGGAAGTGGATGGCATAG
<i>Ndufab1</i>	GGCTGCTGACTGGAAGTACT	CTAGGCCAGATGTGTGGGAG
<i>Ndufa8</i>	GAGTTTATGCTGTGCCGCTG	TACTCTGTGAAAGGCTCCGC
<i>Cox7a1</i>	AGTACACTTGAAAGGCGGGG	GCCCAGCCCAAGCAGTATAA
<i>Uqcrc2</i>	TCCGACCCCATCTTGCTTTG	CGGGGCAACTTTGAGGGAAT
<i>Atp5a1</i>	CATTTTGTGCCAGTCGTCCG	CAGCTGTGCCAGTCTTCTGA
<i>Idh3a</i>	GAGTACGCTCGGAACAACCA	AGTTCTCCGCAACTTCCCTG
<i>Cs</i>	TGTTTCAGGGGCCTTTAAGACT	CATGCTTCAGTCCCAGTTCAT
<i>Ogdh</i>	CCTGGGGATTTTGGATGCTGAT	GGCCATAGAACCCTCCTACTG
<i>Gapdh</i>	CATCACTGCCACCCAGAAGACTG	ATGCCAGTGAGCTTCCCCTTCAG

Plin1, perilipin1; *Adrb3*, beta3-adrenoceptor; *Glut4*, glucose transporter type 4; *Fasn*, fatty acid synthase; *Pparg2*, peroxisome proliferator-activated receptor 2; *Srebf1*, sterol regulatory element binding protein; *Pgc-1α*, peroxisome proliferator-activated receptor γ coactivator 1 α ; *Ucp1*, uncoupling protein 1; *Cox8b*, cytochrome c oxidase subunit 8B; *Dio2*, iodothyronine deiodinase 2; *Cytoc*, cytochrome c; *Tfam*, mitochondrial transcription factor A; *Mcp1*, monocyte chemotactic protein-1; *Tnf α* , tumor necrosis factor α ; *F4/80*, F4/80 antigen; *Ndufab1*, NADH:Ubiquinone oxidoreductase subunit AB1; *Ndufa8*, NADH:Ubiquinone oxidoreductase subunit A8; *Cox7a1*, cytochrome c oxidase polypeptide 7A1; *Uqcrc2*, cytochrome b-c1 complex subunit 2; *Atp5a1*, ATP synthase F1 subunit α ; *Cs*, citrate synthase; *Ogdh*, oxoglutarate dehydrogenase; *Gapdh*, glyceraldehyde 3-phosphate dehydrogenase