

Table S1. Reagent

Reagent	Source	Identifier
Triglyceride assay kit	Nanjing Jiancheng Bioengineering Institute	Cat: A110-2-1
Total cholesterol assay kit	Nanjing Jiancheng Bioengineering Institute	Cat: A111-2-1
Glycogen ELISA kit	MEI MIAN	Cat:MM-44379M1
Insulin ELISA kit	Elabscience	Cat: E-EL-M1382c
Glucocorticoid ELISA kit	MEI MIAN	Cat: MM-44378M1
FT3 ELISA kit	MEI MIAN	Cat: MM-0577M1
PEPCK activity kit	Cominbio	Cat: PEPCK-1-Y
G6pc ELISA kit	MEI MIAN	Cat: MM-0739M1

Table S2. Primer sequences

Gene	Primer	Sequence
<i>Actb</i>	Forward	GTGACGTTGACATCCGTAAAGA
	Reverse	GCCGGACTCATCGTACTCC
<i>G6pc</i>	Forward	GACTGGTTCAACCTCGTCTTC
	Reverse	GTCTCACAGGTGACAGGGAAC
<i>Pck1</i>	Forward	CAGGATCGAAAGCAAGACAGT
	Reverse	AAGTCCTCTTCCGACATCCAG
<i>Pygl</i>	Forward	GAGAAGCGACGGCAGATCAG
	Reverse	CTTGACCAGAGTGAAGTGCAG
<i>Gys2</i>	Forward	CGCTCCTTGTCGGTGACATC
	Reverse	CATCGGCTGTCGTTTTGGC
<i>Fasn</i>	Forward	CACAGTGCTCAAAGGACATGCC
	Reverse	CACCAGGTGTAGTGCCTTCCTC
<i>Acc1</i>	Forward	GTTCTGTTGGACAACGCCTTCAC
	Reverse	GGAGTCACAGAAGCAGCCCATT
<i>Cd36</i>	Forward	ATGGGCTGTGATCGGAACTG

---

	Reverse	GTCTTCCCAATAAGCATGTCTCC
<i>Pparg</i>	Forward	GTACTGTCGGTTTCAGAAGTGCC
	Reverse	ATCTCCGCCAACAGCTTCTCCT
<i>Ppara</i>	Forward	CAGAGGTCCGATTCTTCCAC
	Reverse	GATCAGCATCCCGTGTTTGT
<i>Acaa1a</i>	Forward	ACGCATCGCCCAATTTCTGA
	Reverse	CCAGACAGGGACATGGACTC
<i>Acox1</i>	Forward	TAACTTCCTCACTCGAAGCCA
	Reverse	AGTTCCATGACCCATCTCTGTC
<i>Ehhadh</i>	Forward	ATGGCTGAGTATCTGAGGCTG
	Reverse	ACCGTATGGTCCAAACTAGCTT
<i>Atgl</i>	Forward	ATGTTCCCGAGGGAGACCAA
	Reverse	GAGGCTCCGTAGATGTGAGTG
<i>Hsl</i>	Forward	GATTTACGCACGATGACACAGT
	Reverse	ACCTGCAAAGACATTAGACAGC
<i>Apob</i>	Forward	GCTCAACTCAGGTTACCGTGA
	Reverse	AGGGTGTACTGGCAAGTTTGG
<i>Apoe</i>	Forward	CTCCCAAGTCACACAAGAAGTG
	Reverse	CCAGCTCCTTTTTGTAAGCCTTT
<i>GR</i>	Forward	TTCGCAGGCCGCTCAGTGTT
	Reverse	AGGTGGTCCCGTTGCTGTGGA
<i>Klf9</i>	Forward	CGAGCGGCTGCGACTACCTG
	Reverse	GGGCTGTGGGAAGGACTCGAC
<i>Klf10</i>	Forward	AGCTGCGACTGGAAGTCTCA
	Reverse	CCTCGGAGGTATCAGACACTG
<i>Klf15</i>	Forward	GGCAGTGGAGGTATTGGAGAT
	Reverse	GGTCCCTGCTACCGTTCTCT
<i>Ppargc1a</i>	Forward	TCGATGTGTCGCCTTCTTGC
	Reverse	ACGAGAGCGCATCCTTTGG

---

Table S3. Primer Antibody

Antibody	Source	Identifier	Dilution
PYGL	Proteintech	Cat: 15851-1-AP	WB: 1:1000
GYS2	Proteintech	Cat: 22371-1-AP	WB: 1:1000
GR	Proteintech	Cat: 24050-1-AP	WB: 1:1000
			IP: 1.0 µg for IP
Ubiquitin	Proteintech	Cat: 10201-2-AP	WB: 1:1000
KLF9	Abclonal	Cat: A7196	WB: 1:1000
IRS-1	CST	Cat: 3407T	WB: 1:1000
FoxO1	Abcam	Cat: ab179450	WB: 1:1000
p-FoxO1	CST	Cat: 9461T	WB: 1:1000
AKT	CST	Cat: 4691T	WB: 1:1000
p-AKT	CST	Cat: 4060T	WB: 1:1000
FGF21	Abcam	Cat: ab171941	WB: 1:1000
Actin	Abmart	Cat: T40104	WB: 1:5000