

Table SI. Sequences of primers used for quantitative PCR.

Oligomer	Forward primer, 5'→3'	Reverse primer, 5'→3'
GAPDH	GCATCCACTGGTGCTGCC	TCATCATACTTGGCAGGTTTC
SREBP2	AGAAAGAGCGGTGGAGTCCTTG	GAACTGCTGGAGAATGGTGAGG
LSS	GCACACCACAGACCTGAGTTTC	CAGTGTGCTGAAGGAGAAACCAC
HMGCR	GGTGCAAAGTTCCTTAGTGATG	GAATAGACACACCACGTTTCATG
MVK	CTGAAGTCAATCAACAAGTGGG	CTCTCAAGGAAGACATCGTCC
MVD	GACAAGAAGCAGACGGGCAGTAC	CGCTCAGGCACAACAGACTCAG
ID11	ATTGAAGTACAGCTCTCCGCACAG	CACATCTCCGCTAGAAGCTGAACC
FDPS	GGATGCCATCAACGACGCTCTG	CTCCAGCAGGTTCAAGTAGTAGGG
FDFT1	GCAAGGAGAAGGACCGACAA	GTCCCAGTCCTGTTTGGAGG
FASN	CAAGTGCAAACCAGACTTCTAC	GCACTTTCTTTTCCGGTACTTT
ACC	GGCCAGTGATATGCTGAGAT	AGGGTCAAGTGCTGCTCCA
CD36	CTTTGAAAGAACTCTTGTTGGGG	GTCTGTGCCATTAATCATGTGCG
SCD1	AACATTCAATCCCGGGAGAATA	GAAACTTTCTTCCGGTCGTAAG
SREBP-1C	GCTACCGGTCTTCTATCAATGA	CGCAAGACAGCAGATTTATTCA
PPARA	GAGCTGCAAGATTCAGAAGAAG	GAATCTTTCAGGTCGTGTTTAC
PPAR γ	CCAAGAATACCAAAGTGCGATC	TCACAAGCATGAACTCCATAGT
CLOCK	GGCTGAAAGACGGCGAGAACTT	GTGCTTCCTTGAGACTCACTGTG
BMAL1	ACCTCGCAGAATGTCACAGGCA	CTGAACCATCGACTTCGTAGCG
PER1	GAAACCTCTGGCTGTTCTTACC	AGGCTGAAGAGGCAGTGTAGGA
PER2	CTGCTTGTTCCAGGCTGTGGAT	CTTCTTGTTGGATGGCGAGCATC
CRY1	GGTTGCCTGTTTCTGACTCGT	GACAGCCACATCCAACCTCCAG
CRY2	GGACAAGCACTTGGAAACGGAAG	ACAAGTCCCACAGGCGGTAGTA
NR1D1	CAGGCTTCCGTGACCTTTCTCA	TAGGTTGTGCGGCTCAGGAACA
BHLHE41	GGCATTGGAGAAAGCAGTAGTC	AGTGGAACGCATCCAAGTCGGC
CPT1A	GGCATAAACGCAGAGCATTCTCTG	CAGTGTCCATCCTCTGAGTAGC
CRAT	AGAGCCTGTTGGCATCCTAACC	TTGTCCAGGCACACGGTGAAGA
GPAM	GCAAGCACTGTTACCAGCGATC	TGCAATCAGCCTTCGTCGGAAG
ACLY	AGGAAGTGCCACCTCCAACAGT	CGCTCATCACAGATGCTGGTCA
ACSL5	GCATCATTCGGCGGGACAGTTT	GTCAAGACTGGAGTGGAGATGG
ABCG8	GGTCCTTCTGATGACATCTGGC	CGTCTGTCGATGCTGGTCAAGT
CYP27A1	TCAGGAGACCATCGGCACCTTT	CCAGTCACTTCTTGTGCAAGG
APOA2	CGGATATGCAGAGCCTGTTTAC	CTCGTGTGTCTTCTCAAAGTATGC
HNF1A	AGAGACCTTGGTGGAGGAGTGT	GGCAAACCAGTTGTAGACACGC
FADS2	TTCCTGGAGAGCCACTGGTTTG	GAAGAAGGACTGCTCCACATTGC

ESR1	TCTGCCAAGGAGACTCGCTACT	GGTGCATTGGTTTGTAGCTGGAC
ESR2	GGTCCTGTGAAGGATGTAAGGC	TAACACTTGCGAAGTCGGCAGG

SREBP2, sterol regulatory element-binding protein 2; HMGCR, 3-hydroxy-3-methylglutaryl-coenzyme A reductase; MVK, mevalonate kinase; MVD, diphosphomevalonate decarboxylase; FDFT1, farnesyl-diphosphate farnesyltransferase 1; IDI1, isopentenyl-diphosphate Δ isomerase 1; FDPS, farnesyl diphosphate synthase; LSS, lanosterol synthase; PPAR, peroxisome proliferator-activated receptor; SCD1, stearoyl-CoA desaturase 1; FASN, fatty acid synthase; ACC, acetyl CoA carboxylase; CLOCK, clock circadian regulator; BMAL1, brain and muscle arnt-like protein 1; PER1, period circadian regulator 1; CRY1, cryptochrome circadian regulator 1; NR1D1, nuclear receptor subfamily 1 group D member 1; BHLHE41, basic helix-loop-helix family member e41; ESR, estrogen receptor; CRAT, carnitine O-acetyltransferase; FADS, fatty acid desaturase; HNF1A, HNF1 homeobox A; ACSL5, acyl-CoA synthetase long chain family member 5; ACLY, ATP citrate lyase; CPT1A, carnitine palmitoyltransferase 1A; APOA2, apolipoprotein A-II; ABCG8, ATP binding cassette subfamily G member 8; CYP27A1, family 27, subfamily a, polypeptide 1; GPAM, glycerol-3-phosphate acyltransferase, mitochondrial.

Table SII. Antibodies used for western blotting.

Antibody	Cat. no.	Supplier	Dilution
GAPDH	2118	CST	1:1,000
IDII	ab97448	Abcam	1:1,000
MVD	ab96226	Abcam	1:1,000
HMGCR	ab174830	Abcam	1:1,000
MVK	ab154515	Abcam	1:1,000
LSS	ab80364	Abcam	1:1,000
FASN	3180	CST	1:1,000
ACC	ab45174	Abcam	1:1,000
CLOCK	ET1704-82	HUABIO	1:1,000
BMAL1	ET1705-5	HUABIO	1:1,000
p-mTOR	2971	CST	1:1,000
mTOR	2972	CST	1:1,000
p-IRS1Tyr608	09-432	MilliporeSigma	1:1,000
IRS1	2382	CST	1:1,000
p-GYSSer641	3891	CST	1:1,000
GYS	3886	CST	1:1,000
H3	4499	CST	1:1,000
β -actin	8227	Abcam	1:1,000

HMGCR, 3-hydroxy-3-methylglutaryl-coenzyme A reductase; MVK, mevalonate kinase; MVD, diphosphomevalonate decarboxylase; FDFT1, farnesyl-diphosphate farnesyltransferase 1; IDII, isopentenyl-diphosphate delta isomerase 1; LSS, lanosterol synthase; FASN, fatty acid synthase; ACC, acetyl CoA carboxylase; CLOCK, clock circadian regulator; BMAL1, brain and muscle arnt-like protein 1; p-, phosphorylated; IRS1, insulin receptor substrate 1; GS, glycogen synthase; H3, histone 3.