Supplemental materials

Table 1 List of chemicals used in the study

Chemicals	Source	Identifier
Nuciferine	AbMole	CAS: 475-83-2
Fructose (for animals)	Shandong Xiwang Sager Industry Co., Ltd.	CAS: 7660-25-5
Pioglitazone (for animals)	HEOWNS	CAS: 111025-46-8
Pioglitazone (for cells)	Sigma-Aldrich	CAS: 105355-27-9
Fructose (for cells)	Sigma-Aldrich	CAS: 57-48-7
DMEM	Gibco	CAT: 11965084
Opti-MEM	Gibco	CAT: 31985070
FBS	Zhejiang Tianhang Biological Technology Co., Ltd.	CAT: 11011-8611
HiScript II Q RT SuperMix for qPCR	Nanjing Vazyme Medical Technology Co., Ltd.	CAT: R222-01
ChamQ™ SYBR® qPCR Master Mix	Nanjing Vazyme Medical Technology Co., Ltd.	CAT: Q311-02/03
Cell lysis buffer	Beyotime Biotechnology	CAT: P0013
Phenylmethanesulfonyl fluoride	Beyotime Biotechnology	CAT: ST506
Modified Oil Red O Staining Kit	Beyotime Biotechnology	CAT: C0158M
Hematoxylin and Eosin Staining Kit	Beyotime Biotechnology	CAT: C0105M
Protein A+G Agarose	Beyotime Biotechnology	CAT: P2012
EZview Red Anti-HA Affinity Gel	Thermo Scientific	CAT: E6779-1ML
BODIPY™ 493/503 staining	Thermo Scientific	CAT: D3922
Lipofectamine 2000	Thermo Scientific	CAT: 11668019
Pierce™ BCA Protein Assay Kit	Thermo Scientific	CAT: 23227
MG132	Selleck	CAT: S2619
Chloroquine diphosphate	Selleck	CAT: S4157
Triglyceride (TG)	Nanjing Jiancheng Bioengineering Institute	CAT: A110-1
Total cholesterol (TC)	Nanjing Jiancheng Bioengineering Institute	CAT: A111-1
D-Glucose	Sigma-Aldrich	CAS: 50-99-7
Hoechst 33342	Thermo Scientific	CAT: 62249

Table 2 List of primers used in RT-qPCR and siRNA

ID	Sense primer (5’-3’)	Antisense primer (5’-3’)
hCARD6	ATCGAGGATGTAAGTGGACCC	GATTGAATCCCTAGCCGTCAC
hGAPDH	AAGAAGGTGGTGAAGCAGG	GTCAAAGGTGGAGGAGTGG
hMIB2	CATCGGCGACCTTGACACA	CGACTGCTACACGCAGGTT
hFASN	ATCTGGACCCTCCTACCTCTG	TTCATCCCCATTGACTGTGC
hACCα	GTTGTTGGCCTGCCTCT	TCTCTTCTGGCTCCTCCTC
hPPARα	TTGTGGCTGCTATCATTTGC	CATCCGACTCCGTCTTCTTG
hACOX1	TCACTTGGGCATGTTCCT	CCATCTCTGTCTGGGCAT
rCARD6	TTGTTGTTTCCTCAAGTGTCTG	GCTATTTCTGGGGTTATGGTC
rGAPDH	GGCTCTCTGCTCCTCCC	CCGTTCACACCGACCTT
rMIB2	AAGATTCTGGCAAGAGCACG	TGTTTCGCACATTCACATCG
rFASN	GAGGGTTTGGAGTTGAAGAGGA	CCAGGCTGACACGGTTGACA
rACCα	GAGGAGGGAAGGGAATCAGAAAAG	AGAGCAGTCACGACCAAACAAAGA
rPPARα	ATTTGCCAAGGCTATCCCAGG	CATCAAGGAGGACAGCATCGTG
rACOX1	GACTTTCTTGAGGGGAGCATC	CATCCACCAGAGCAACAGCAT
1siCARD6	GGAGUCCAGAUGAAGACACTT	GUGUCUUCAUCUGGACUCCTT
2siCARD6	GCACGAGAUGUGACGGCUATT	UAGCCGUCACAUCUCGUGCTT
siMIB2	UGGAGGUGGCGCUGGGUAATT	UUACCCAGCGCCACCUCCATT

h, homo sapiens; r, rat