Table S1 Primers used for fragment amplification

Sequence (5′-3′)	Purpose
F: CCGCTCGAGTCACGCAGCGAAAATGATCCG	Amplification of – 1649 to + 62 bp of
R: CCCAAGCTTAGCACTCACCTCCTCCGCAG	ACSL1
F: GTAGTGAGCGATTGTTCAGCGTTTG	qPCR for ACSL1
R: GCGAGAGGCAAGAAAGAGATCAGAG	
F: CATCACCATCGGCAACGA	qPCR for β-actin
R: GCGTAGAGGTCCTTCCTGATGT	
F: TAGACAAGAACAGCAACGAG	qPCR for C/EBPα
R: ACCTTCTGTTGAGTCTCCACG	
F: TAGCCCTCAAAACCGCACC	Polymorphism analysis
R: AGCACTCACCTCCTCCGCAG	
F: CATCAACAAAGGCGAACTC	RT-PCR validation of transcript variants
R: CTTTTCCTCCCAGGCTTGA	identified by PacBio-sequencing

Enzyme sites were underlined. F, forward; R, reverse; the same as below.

Table S2 siRNA sequence synthesized

Name	Sequence
siRNA-800	CAGCGGAAGCUCUGGAUAATT
	UUAUCCAGAGCUUCCGCUGTT
siRNA-1652	GGGUGGAGAUCAUGAGCAUTT
	AUGCUCAUGAUCUCCACCCTT
siRNA-2031	GGUCAGAGGUAUUAGUCUUTT
	AAGACUAAUACCUCCUGACCTT
siRNA-NC	UUCUCCGAACGUGUCACGUTT
	ACGUGACACGUUCGGAGAATT

Table S3 Primers used for site-directed mutagenesis

Name	Sequence (5′-3′)
F0	The same as that for amplification of – 1649 to
R0	+ 62 bp of ACSL1
C/EBPα-1MF	CTGCACATCGTAAATAAAATAGGAA
C/EBPα-1MR	CTATTTTATTTACGATGTGCAGGAC
C/EBPα-2MF	CGGATTCGTTAATCCCGGGACA
C/EBPα-2MR	TGTCCCGGGATTAACGAATCCG
CREB-1MF	CTGCCATTAGTTGGAACCAGTGCG
CREB-1MR	ACTGGTTCCAACTAATGGCAGTGTT
CREB-2MF	CGCGCGACCAAACGGGAAGGC
CREB-2MR	GCCTTCCCGTTTGGTCGCGCGC
− 517G>T-MF	CAGGTCTGTGTCAAAACCCCAC
− 517G>T-MR	GTGGGGTTTTGACACAGACCTG
− 311T>G-MF	GCCCCCCCGCGGATTCGTTAT
− 311T>G-MR	AACGAATCCGCGGGGGGGCA

Table S4 Schemes for site-directed mutagenesis using overlap-extension PCR

Sites	Reaction A	Reaction B	Templates for A and B	Reaction C	Templates for C
C/EBPα-1	F2/C/EBPα-1MR	C/EBPα-1MF/R0	pF2/R0	F2/R0	Products of reactions A and B
C/EBPα-2	F2/C/EBPα-2MR	C/EBPα-2MF/R0	pF2/R0	F2/R0	
C/EBPα-double	F2/C/EBPα-2MR	C/EBPα-2MF/R0	pF2/R0*	F2/R0	
CREB-1	F2/CREB-1MR	CREB-1MF/R0	pF2/R0	F2/R0	
CREB-2	F3/CREB-1MR	CREB-1MF/R0	pF3/R0	F3/R0	
− 517G>T	F2/ − 517G>T-MR	− 517G>T-MF/R0	pF2/R0	F2/R0	
− 311T>G	F2/ − 311T>G -MR	− 311T>G -MF/R0	pF2/R0	F2/R0	
SNP-double	F2/ − 311T>G -MR	− 311T>G -MF/R0	pF2/R0**	F2/R0	

Plasmids pF2/R0* containing mutated sites of C/EBPα-1; pF2/R0** containing mutated sites of SNP − 517G>T.

Table S5 Oligonucleotides used for electrophoretic mobility shift assay

	Name	Sequence (5′-3′)
Site 1	Bio-probe-F	bio-GACAGATATAGATTTGGACCTAGCC
	Bio-probe-R	bio-GGCTAGGTCCAAATCTATATCTGTC
	Competitor-F	GACAGATATAGATTTGGACCTAGCC
	Competitor-R	GGCTAGGTCCAAATCTATATCTGTC
	Competitor-mut-F	GACAGATATAGGCCCTTACCTAGCC
	Competitor-mut-R	GGCTAGGTTTCCCGCTATATCTGTC
Site 2	Bio-probe-F	bio-AGGCTTCCATTAGGAAATTCGTTCC
	Bio-probe-R	bio-GGAACGAATTTCCTAATGGAAGCCT
	Competitor-F	AGGCTTCCATTAGGAAATTCGTTCC
	Competitor-R	GGAACGAATTTCCTAATGGAAGCCT
	Competitor-mut-F	AGGCTTCCATTAGACCCGTCGTTCC
	Competitor-mut-R	GGAACGAGCCCACTAATGGAAGCCT