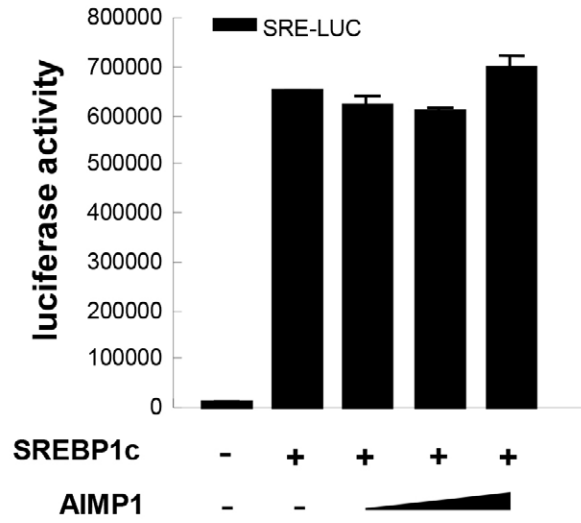


Supplemental material Fig. 1. AIMP1 had no effect on SREBP1c or ERR γ transcriptional activity.

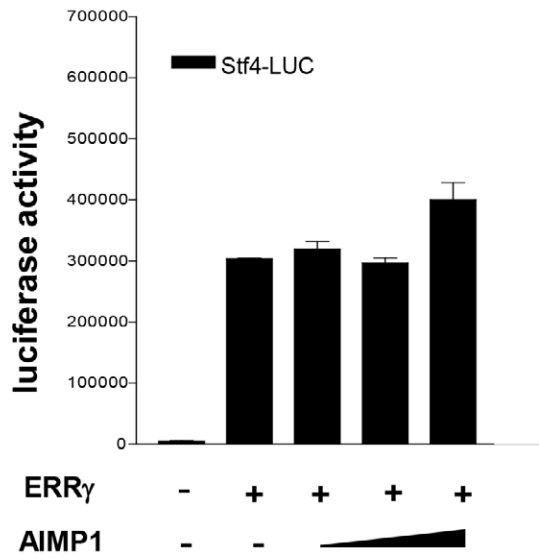
A. HEK293 cells were transfected with the indicated plasmids, viz., SREBP1c, AIMP1, and a reporter plasmid, viz. the SREBP1c-response element-luciferase (SRE-Luc). After transfection, cells were harvested for the luciferase assays. Luciferase activity was normalized to β -gal activity. **B.** HEK293 cells were transfected with the indicated plasmids, namely ERR γ , AIMP1, and a reporter plasmid, ERR γ -response element-luciferase (ERE-Luc). After transfection, cells were harvested for luciferase assays. Luciferase activity was normalized to β -gal activity. Data are presented as means and S.D. **C.** HEK293 cells were transfected with the indicated plasmids. After transfection, cells were harvested for the luciferase assays. Luciferase activity was normalized to β -gal activity.

Supplementary Table. 1. Specific primers for quantitative RT-PCR

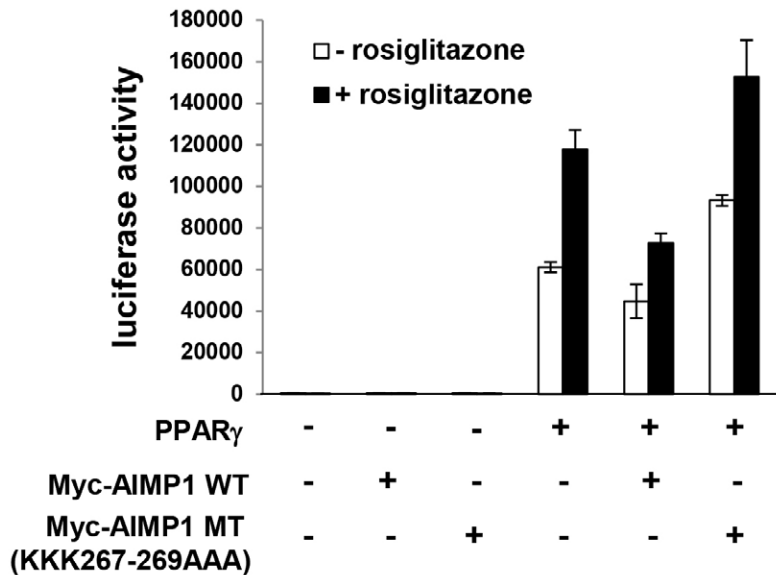
A



B



C



Supplemental Table 1. Primer sets used in quantitative RT-PCR analysis

No.	Gene Symbol	Gene name	Gene Accession #	Forward (5'-->3')	Reverse (5'-->3')	size (bp)	Annealing temp (°C)
1	AIMP1	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	NM_007926.2	TTTCTCTGCCGATTCTGGGGA	CCTGCTGCTTGAGATATTCGAT	109	55
2	AIMP2	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2 isoform 1	NM_001172146.1	CGT GCA GGA AAC ATC CGA	GTT ACG TCC AAG TCT GCA TCT	153	55
3	AIMP3	aminoacyl tRNA synthetase complex-interacting multifunctional protein 3	NM_025380.2	GACTGAAGCCGGGGAATAAGT	TAGACTCGGGCCATTGTTGT	80	55
4	EPRS	glutamyl-prolyl-tRNA synthetase	NM_029735.1	TGCGCTACCTGGCTAGAATTG	GCCTATCACACGAAGACAACCTT	120	55
5	LRS	leucyl-tRNA synthetase	NM_134137.2	CATTTGGGACACACGTTTTCC	GCATACCAGTACAGTCAACC	109	55
6	IRS	isoleucine-tRNA synthetase	NM_172015.3	CCTCCCTTTGCTACTGGACTG	TCTTCTGTCAACGTGAAACCC	108	55
7	MRS	methionyl tRNA synthetase	NM_001171582.1	TACCATTCTTACCAGGCCTA	GCAGATTGCACTAGCAGAGAA	80	55
8	DRS	aspartate--tRNA ligase, cytoplasmic isoform 1	NM_177445.5	CAGCAGTTAATGTCCAGGCT	GCCGAATGGCATCATCCAG	238	60
9	RRS	arginyl-tRNA synthetase	NM_025936.3	GACAAAGTTGAAATTGCGGGTC	GAGACTGGTTAGCTGTTCTGAC	81	55
10	VRS	valyl-tRNA synthetase	NM_011690.3	GGCCAGGTCTGTCACTCAAC	TTTCTCCGTTTCTTTGCCTC	94	60
11	WRS	tryptophanyl-tRNA synthetase	NM_011710.3	CTTCAACCAAGTAAAAGGCA	GATCTTCGGAAAAGAGTTGC	112	55
12	HRS	histidyl-tRNA synthetase	NM_008214.4	GAGGAGCTGGTACGACTCCA	GGCGTTTAAAACAGCGGATG	238	60
13	Sirt1	sirtuin 1	NM_019812.2	CAGCATCTTGCTGATTTGT	GCACCGAGGAACACTGAT	83	55
14	PPARgamma1	peroxisome proliferator-activated receptor gamma isoform 1	NM_001127330.1	GGAAGACCACTCGCATTCTT	GTAATCAGCAACCATTGGGTCA	121	55
15	PPARgamma2	peroxisome proliferator-activated receptor gamma isoform 2	NM_011146.3	TCGCTGATGCACTGCCTATG	GAGAGGTCCACAGAGCTGATT	103	55
16	aP2	fatty acid binding protein 4, adipocyte	NM_024406.2	AAGGTGAAGAGCATCATAACCCT	TCACGCCTTTCATAACACATTCC	133	55
17	LPL	lipoprotein lipase	NM_008509.2	GGGAGTTTGGCTCCAGATTT	TGTGTCTTCAGGGTCTTAG	115	55
18	C/EBPalpha	CCAAT/enhancer binding protein (C/EBP), alpha	NM_007678.3	CAAGAACAGCAACGAGTACCG	GTCCTGGTCAACTCCAGCAC	124	55
19	GAPDH	glyceraldehyde-3-phosphate dehydrogenase	NM_008084.2	AGTGCGGTGTGAACGGATTTG	GGGGTCTGTGATGGCAACA	95	55