Supplementary table S1: Primer sequence details.

Gene	Primer sequence	
	Forward (5'-3')	**Reverse (5'-3')**
AdipoQ	CATGCCGAAGATGACGTTAC	AGGACCAAGAAGACCTGCAT
CDH13 108	GCCCTCGTGAGCCTTCTTC	CACCCTGAGGTCCGTGATGT
PPAR-γ	TGAAAGAAGCGGTGAACCACTG	TGGCATCTCTGTGTCAACCATG
PLIN1	GCTGTCTGAGACTGAGGTGG	TGCAGAACTCTCTGGAGCAC
Leptin	GAAAATGTGCTGGAGACCCC	TCCAAGCCAGTGAGCCTCT
mTOR	TTCCTGAACAGCGAGCACAA	GTAGCGGATATCAGGGTCAGG
CD142	ACCTTACCGAGACACAAACCT	CTTTCCCGTGCTTGAGCCTT
RPLPO -13	CCCCACAAGACCAAGAGAGG	CCCCAGGTAAGCAAACTTTCTG

Supplementary table S2: Primary antibody for Immunoblot analysis.

Primary antibody	Dilution	MW	Cat. No.
anti-H Cadherin [EPR9621]	1/1000	105 130	ab167407 abcam, USA
anti-Adiponectin	1/1000	26	ab22554 abcam, USA
anti-APPL1	1/1000	79	MA5-26917 Invitrogen, USA
anti-PI3 Kinase p110 beta	1/1000	110	ab151549 abcam, USA
anti-ERK1/2	1/1000	42 44	ab17942 abcam, USA
anti-phosphoERK1/2 (Erk1 (pT202/pY204) + Erk2 (pT185/pY187)	1/1000	42 44	ab4819 abcam, USA
anti-AMPKalpha	1/1000	64	BF2001 Affinity Biosciences, China
anti-Phospho-AMPKalpha (Thr172) (40H9)	1/1000	62	#2535 Cell Signaling Technology, Inc., USA
anti-Akt (5G3)	1/1000	60	#2966 Cell Signaling Technology, Inc., USA
anti-phospho-Akt (Ser473) (D9E) XP®	1/1000	60	#4060 Cell Signaling Technology, Inc., USA
anti-GAPDH	1/5000	37	sc-32233 Santa Cruz Biotechnology, Inc., USA
anti-actin (20-33)	1/1000	42	A5060 SigmaAldrich, USA
anti-H Cadherin antibody [EPR9621] ab167407	1/500	105 130	Abcam
anti-ERGIC53 rabbit polyclonal Santa Cruz sc-66880	1/1000	53	Santa Cruz Biotechnology |