

Table S1. Oligonucleotide sequences for transfection

Gene	Primer sequence (5'-3')
scRNA (control RNA)	UCACAACCUCCUAGAAAGAGUAGA
TWF1 siRNA (siTWF1)	CGUUACCAUUUCUUUCUGUUU
miR-665-3p	ACCAGGAGGCUGAGGCCCCU
antimiR-665	AGGGGCCUCAGCCUCCUGGU

Table S2. Primer lists and conditions for *q*RT-PCR, RT-PCR, and cloning

(A) Mouse primer lists for *q*RT-PCR and RT-PCR

Gene	Primer sequence (5′-3′)		Product size	Annealing Temperature	Concentration		Cycle
					cDNA	Primer	
U6	F.P	CTCGCTTCGGCAGCACA	94	58	2 ng/μl	0.5 μM	40
	R.P	AACGCTTCACGAATTTGCGT					
PCNA	F.P	GAACCTGCAGAGCATGGACTC	201	58			
	R.P	GGTGTCTGCATTATCTTCAGCCC					
CCNB1	F.P	GAGCTATCCTCATTGACTGG	125	58			
	R.P	CATCTTCTTGGGCACACAAC					
CCND1	F.P	ACCAATCTCCTCAACGACCG	228	58			
	R.P	ACGGAAGGGAAGAGAAGGG					

(B) Primer lists for wild-type and mutant 3'UTR cloning

Gene	Primer sequence (5'-3')		Product size	Annealing Temperature	Concentration		Cycle
					cDNA	Primer	
TWF1 _{wt}	F.P	CCTAGAGAGATTTTGAGCCTC	649	58	2 ng/μl	0.5 μM	35
	R.P	ATTCTGGAATGTCCATTAC					
TWF1 _{mut}	F.P	CCTAGAGAGATTTTGAGCCTC	502				
	R.P	TGGTCTGCTCGTCGATTCTTAATGC					
	F.P	GCATTAAGAATCGACGAGCAGACCA	178				
	R.P	ATTCTGGAATGTCCATTAC					

Table S3. Antibodies list

Antibody	Type	Targeted species	Manufacturer	Cat. No.	Dilution ratio*
TWF1	Polyclonal	Rabbit	Proteintech, Rosemont, Illinois, USA	11732-1-AP	1:5,000
MyHC	Monoclonal	Mouse	DSHB, Iowa, IA, USA	MF20	1:1,000
MyoD	Monoclonal	Mouse	Santa Cruz Biotechnology, Dallas, TX, USA	sc-377460	1:1,000
MyoG	Monoclonal	Mouse	Santa Cruz Biotechnology, Dallas, TX, USA	sc-12732	1:1,000
YAP1	Monoclonal	Rabbit	Cell Signaling Technology, Danvers, MA, USA	14074S	1:10,000
p-YAP1	Polyclonal	Rabbit	Cell Signaling Technology, Danvers, MA, USA	4911S	1:10,000
Lamin B2	Monoclonal	Rabbit	Abcam, Cambridge, United Kingdom	ab151735	1:2,500
α -Tubulin	Monoclonal	Mouse	DSHB, Iowa, IA, USA	12G10	1:2,000
β -actin	Monoclonal	Rabbit	Sigma-Aldrich Chemical, St. Louis USA	A2066	1:10,000
Antibodies HRP-linked anti-rabbit IgG			Cell Signaling Technology, Danvers, MA, USA	#7074	1:10,000
Goat anti-mouse(H+L)			Invitrogen, Thermofisher Scientific, Waltham, MA, USA	#32430	1:2,000

*All blots were visualized using a Femto reagent (Thermofisher Scientific).

Table S4. Diet composition

(A) Normal fat diet (Purina Lab), Cat. 38057

Calories (%)		Fat component of total fat (gram%)		
		Saturated fatty acid	Unsaturated Fatty acids	Unidentified fat
Fat	12.41%	Arachidonic Acid (4.42%)	Omega-3 fatty acid (24.55%)	Unidentified (44.23%)
Carbohydrate	63.07%		Linoleic acid (24.15%)	
Protein	24.52%		Linolenic acid (2.65%)	
Total	100%	4.42% of total fat	51.35% of total fat	44.23% of total fat

(B) High fat diet (Research DYETS), Cat. D12492

Calories (%)		Fat component of total fat (gram%)	
		Saturated fatty acid	Unsaturated Fatty acids
Fat	60%	Palmitic acid (19.64) Stearic acid (10.59%) Myristoleic acid (1.10%)	Oleic acid (33.68%) Linoleic acid (28.37%) Linolenic acid (2.04%) Arachidonic acid (1.78%) Palmitoleic acid (1.33%) Docosapentaenoic acid (0.78%)
Carbohydrate	20%	Lau acid (0.8%) Margaric acid (0.35%) Arachidic acid (0.16%)	
Protein	20%	Pentadecanoic acid (0.08%) Capric acid (0.04%)	
Total	100%	32% of total fat	68% of total fat