

Table SI. Catalogue numbers for all primary antibodies used in the present study.

Antibody description	Manufacturer	Cat. nos.
BrdU	Cell Signaling Technology, Inc.	5292S
Anti-histone acH3K9	Santa Cruz Biotechnology, Inc.	sc-8655
Anti-histone meH3K9	Abcam	ab8898
Anti-histone pH3S10	Santa Cruz Biotechnology, Inc.	sc-8656-R
Anti-histone pH3S28	Abcam	ab10543
Anti-Oct4	Abcam	Ab18976
Anti-Sox2	Abcam	ab97959
Anti-Nanog	Cell Signaling Technology, Inc.	3580
Anti-L-Myc	Abcam	ab28739
Anti-Collagen I	BIOSS	bs-0578R
Anti-BMP2	BIOSS	bs-1012R
Anti-Smad1	Acris Antibodies; OriGene	ABCA0328878
Anti-Smad2	Acris Antibodies; OriGene	ABCA2287131
Anti-Smad3	Acris Antibodies; OriGene	ABCA2287133
Anti-phospho-Smad3	BIOSS	bs-3425R
Anti-Smad7	BIOSS	bs-0566R
Anti-E-cadherin	BIOSS	bs-1519R
Anti-N-cadherin	BIOSS	bs-1172R
Anti-P38	BIOSS	bs-0637R
Anti-phospho-p38	BIOSS	bs-2210R
Anti-JNK	BIOSS	bs-10562R
Anti-phospho-JNK1	BIOSS	bs-17591R
Anti-CTGF	BIOSS	bs-0743R
Anti- β -actin	Affinity Biosciences	T0022

Table SII. Primer sequences of specific genes of BMP and TGF- β signaling pathways.

Gene	Primer sequences	Temperature ($^{\circ}$ C)	Length (bp)
BMP2	F: 5'-GGGACCCGCTGTCTTCTAGT-3' R: 5'-GCAACTCGAACTCGCTCAGGAC-3'	58.5	154
BMP3	F: 5'-TGACTTCTCTAACAAAGTCAGA-3' R: 5'-TGAGGATCCACGCAGAGAGGT-3'	60.5	159
BMP4	F: 5'-TTCCTGGTAACCGAATGCTGA-3' R: 5'-CCTGAATCTCGGCGACTTTTT-3'	63.5	114
Smad1	F: 5'-GCTTTGTGAAGGGCTGGGG-3' R: 5'-GGAGTATTGGGGTAAAGTAGAC-3'	55	147
Smad2	F: 5'-ATGTCGTCCATCTTGCCATTC-3' R: 5'-AATCGTCCTGTTTTCTTCAGCTT-3'	56	173
Smad4	F: 5'-AGCCATCATTATCCACTGAA-3' R: 5'-GGTGGTAGTGCTGTTATGATGAT-3'	59	296
PPAR- γ	F: 5'-ATCCCTGTGCCGTGCTG-3' R: 5'-GGGATACAAGCTCCACTT-3'	56	356
LPL	F: 5'-GAACTGGACGGCGGATG-3' R: 5'-CTGGATTACGATACTTCGACCT-3'	59	256
C/EBPA	F: 5'-GGCGGCATCTGCGAACACGA-3' R: 5'-GGCGGCTGGTAGGGAAAGAG-3'	62	389
C/EBPB	F: 5'-AGTACGGCTACGTGAGTCTG-3' R: 5'-GCTGTGCTTGTCACCGTCTTC-3'	57	416
422/aP2 (FABP4)	F: 5'-TACATGAAAGAAGTGGGCGT-3' R: 5'-AACTCTGGTGGCAGTGACA-3'	59	327
BMPR1A	F: 5'-CAAAAGCCCAGCTACGCCGGA-3' R: 5'-TGCCACCTTCTCCCCACGCC-3'	62.5	437
BMPR1B	F: 5'-GCCCCACCCCTCGTCCAAA-3' R: 5'-AGGCCTGATCCGCTCCCTGA-3'	62.5	512
BMPR2	F: 5'-TCAGCCGTTGCTTTTGATGACCA-3' R: 5'-CGACCCCGGCCAATCAGCTC-3'	63	615
ID1	F: 5'-GCGTGTGTTCCAGCGGACGA-3' R: 5'-CGGTGGCCGCCAATCGTTCT-3'	63.5	161
GAPDH	F: 5'-GGCAAGTTTACGGCACAGTCA-3' R: 5'-TAAGTCCCTGCACGATGCCAAAG-3'	60	364

F, forward; R, reverse; BMP, bone morphogenetic protein; PPAR- γ , peroxisome proliferator-activated receptor γ ; LPL, lipoprotein lipase; ID1, DNA-binding protein inhibitor ID-1.