

Table SI. Primers used for reverse transcription quantitative polymerase chain reaction.

Gene	Forward sequence (5'-3')	Reverse sequence (5'-3')
Runx2	ATTACAGATCCCAGGCAGGCA	CAGAAGTCAGAGGTGGCAGTGT
Col1a1	TGACTGGAAGAGCGGAGAGT	GTTCGGGCTGATGTACCAGT
Osterix	CCTCTCGACCCGACTGCAGATC	AGCTGCAAGCTCTCTGTAACCATGAC
GAPDH	TGACCACAGTCCATGCCATC	GACGGACACATTGGGGGTAG
Mettl3	CTTTCTACCCCATCTTGAGTG	CCAACCTTCCGTAGTGATAGTC
Fto	GACTCGTCCTCACTTTCATCC	AAGAGCAGAGCAGCCTACAAC
Alkbh5	GTGGGACCTTTTGGGTTTCAG	GCATACGGCCTCAGGACATTA
IL-6	TCTATACCACTTCACAAGTCGGA	GAATTGCCATTGCACAACCTCTTT
TNF- α	CCACCACGCTCTTCTGTCTA	GGTCTGGGCCATAGAACTGA
IL-1 β	GAAATGCCACCTTTTGACAGTG	TGGATGCTCTCATCAGGACAG
RANKL	CAGCATCGCTCTGTTCCCTGTA	CTGCGTTTTCATGGAGTCTCA
OPG	ACCCAGAAACTGGTCATCAGC	CTGCAATACACACACTCATCACT
Wnt5a	ACACAACAATGAAGCAGGCCGTAG	GGAGTTGAAGCGGCTGTTGACC
M-CSF	AGTATTGCCAAGGAGGTGTCAG	ATCTGGCATGAAGTCTCCATTT
Nfatc1	CCCGTCACATTCTGGTCCAT	CAAGTAACCGTGTAGCTGCACAA
Ctsk	CACCCAGTGGGAGCTATGGAA	GCCTCCAGGTTATGGGCAGA
Dcstamp	TACGTGGAGAGAAGCAAGGAA	ACACTGAGACGTGGTTTAGGAAT
Acp5	ACCTTGGCAACGTCTCTGCAC	GTCCAGCATAAAGATGGCCACA
Smad1	GCTTCGTGAAGGGTTGGGG	CGGATGAAATAGGATTGTGGGG
Smad5	TTGTTTCAGAGTAGGAAGTCAAC	GAAGCTGAGCAAACCTCCTGAT
Smad9	CGGGTCAGCCTAGCAAGTG	GAGCCGAACGGGAACCTCAC
Smad6	GCAACCCCTACCACTTCAGC	GTGGCTTGTACTGGTCAGGAG
Smad7	GGGCTTTCAGATTCCCAACTT	AGGGCTCTTGGACACAGTAGA
Smurf1	ACACTGGCTACCAGCGTTTG	TCTGTCTCGGGTCTGTAAACTG
NOD1	CCCCTTCCCAGCTCATTCG	TGTGTCCATATAGGTCTCCTCCA
NOD2	CTCAGTCTCGCTTCCTCAGTA	CTTCGCCCACCACCACTATG
RIPK2	ATGCCACCTGAGAACTATGAGC	GCAAAGGATTGGTGACCTCTT
Ythdf2	AGGCGGGTCTGGATCTACT	ACCCGCCCATGTTTCAGATT

Table SII. Supplier, catalogue number and dilution of all antibodies.

Name	Cat. no.	Supplier	Dilution	Molecular weight,kDa
Col1a1	GB113041-100	Wuhan Servicebio Technology Co., Ltd.	1/1,000	170
Osterix	DF7731	Affinity Biosciences	1/1,000	45-47
Acp5	DF6989	Affinity Biosciences	1/1,000	37
Ctsk	DF6614	Affinity Biosciences	1/1,000	37-39
Smad1/5/9	AF0614	Affinity Biosciences	1/1,000	52-56
Smurf1	AF4623	Affinity Biosciences	1/1,000	81-86
NOD1	DF6378	Affinity Biosciences	1/1,000	108
NOD2	DF12125	Affinity Biosciences	1/1,000	115
Runx2	ab236639	Abcam	1/1,000	50-64
β -actin	ab8227	Abcam	1/2,000	43
Vinculin	ab129002	Abcam	1/20,000	124
Fto	ab280081	Abcam	1/1,000	58
Smad7	ab216428	Abcam	1/500	46
Mettl3	15073-1-AP	Proteintech Group, Inc.	1/1,000	65-70
Alkbh5	16837-1-AP	Proteintech Group, Inc.	1/3,000	40-50
Nfatc1	WL01632	Wanleibio Co., Ltd.	1/500	140
RIPK2	WL04530	Wanleibio Co., Ltd.	1/500	76
p65	WL01273b	Wanleibio Co., Ltd.	1/1,000	65
p-p65	WL02169	Wanleibio Co., Ltd.	1/500	65
I κ B α	WL01936	Wanleibio Co., Ltd.	1/500	32
p-I κ B α	WL02495	Wanleibio Co., Ltd.	1/500	32
p-Smad1/5/9	AP0850	ABclonal Biotech Co., Ltd.	1/1,000	60
p-p38	4511	Cell Signaling Technology, Inc.	1/1,000	43
p38	8690	Cell Signaling Technology, Inc.	1/1,000	40
p-ERK	4370	Cell Signaling Technology, Inc.	1/2,000	42-44
ERK	4695	Cell Signaling Technology, Inc.	1/1,000	42-44
p-JNK	4668	Cell Signaling Technology, Inc.	1/1,000	46-54
JNK	9252	Cell Signaling Technology, Inc.	1/1,000	46-54
m ⁶ A	HA721152	HUABIO	1/1,000	-
Ythdf2	26771-1-AP	Proteintech Group, Inc.	1/1,000	62-70
Secondary antibody	EM35111	Beijing Emarbio Science & Technology Co., Ltd.?	1/10,000	-

p-, phosphorylated.

Table SIII. Sequences for Mettl3 and Ythdf2 knockdown.

gene knockdown	Target sequences (5'-3')
Mettl3-shRNA	Anti-sense: GCACCCGCAAGATTGAGTTAT
Control-shRNA	ScrambledshRNA: TTCTCCGAACGTGTCACGT
siYthdf2	Sense: CCAUGAUUGAUGGACAGUCAGCUUU
	Anti-sense: AAAGCUGACUGUCCAUCAUCAUGG
siCtrl	Scrambled sense: UUCUCCGAACGUGUCACGUdTdT
	Scrambledanti-sense: ACGUGACACGUUCGGAGAAdTdT

Ctrl, control; Mettl3, methyltransferase-like 3;shRNA, short hairpin RNA; si, small interfering RNA; Ythdf2, YTH domain family 2.