

**Supplementary Table 7. Primer sequences for bisulfite sequencing , ChIP, and Q-PCR analyses**

<b>Gene</b>	<b>Assay</b>	<b>Fwd Primer</b>	<b>Rev Primer</b>	<b>Size (bp)</b>
ACTB	ChIP	CGGGGTCTTTGTCTGAGC	CAGTTAGCGCCCAAAGGAC	128
GAPDH	gene expression Q-PCR	GAAGGTGAAGGTCGGAGTCA	AATTTGCCATGGGTGGAAT	162
GJA1	gene expression Q-PCR	GTGCCTGAACTTGCCTTTTC	CCCTCCAGCAGTTGAGTAGG	166
PDLIM2	bisulfite sequencing	GGTTTAAAGGTTTGGGAATTT	ATACAAACTAAACACCACCCTAC	217
PDLIM2	ChIP	GGCTCAAAGGTCTGGGAATC	CCAGGCCTAGCCTCTGTTC	89
RBP1	bisulfite sequencing	GTAGGGGAGGTATAGGTAGGTTGT	CCTAAACAAAAACACCAAATAAAC	389
RBP1	ChIP	AGTTTCCCTGCCAACTCTCTG	CTGCACGATCTCTTTGTCTGG	77
RBP1	gene expression Q-PCR	CAACTGGCTCCAGTCACTCC	TGCACGATCTCTTTGTCTGG	159
SERPINB5	ChIP	CAGGTAAGCAAGGTGGGGTA	AGCCCCAAAATGGACCTAAG	120
SERPINB5	bisulfite sequencing	TTGTTAAGAGGTTTGAGTAGGAGAG	CTTTAAAAACAACCCAAAATAAAC	334
SERPINB5	gene expression Q-PCR	CTACCCAAGGATGTGGAGGA	CAAGCCTGGGATCAATCAT	167
UBB	bisulfite sequencing	TAGTTGAAAAGTTTAAATTGTTTTT	CTCAAATCAACAAAACCCACTATC	408
UBB	ChIP	GGGGTGATAAGTGACGCAAC	ACAGGGACACAAACAAGCTC	103
UBB	gene expression Q-PCR	GCTTTGTTGGGTGAGCTTGT	TCACGAAGATCTGCATTTTGA	101
VIM	gene expression Q-PCR	CGAAAACACCTGCAATCTT	TTTGGACATGCTGTTCTGA	170