

**Supplementary Table 5** Sequences of the primers used in qRT-PCR assay.

<b>Target gene</b>	<b>Forward primer (5'-3')</b>	<b>Reverse primer (5'-3')</b>	<b>Application</b>
<i>GAPDH</i>	ACCACAGTCCATGCCATCAC	ATGACCTTGCCCACAGCCTT	qRT-PCR
<i>RANKL</i>	ACTATTAATGCCACCGACA	AGGGTATGAGAACTTGGGAT	qRT-PCR
<i>MAGEB2</i>	GCTGCGGGTGTTCATCCA	TGGTTAGAGGATCTTCGCTTGG	qRT-PCR
<i>MMP2</i>	GATACCCCTTTGACGGTAAGGA	CCTTCTCCCAAGGTCCATAGC	qRT-PCR
<i>CHST15</i>	TCGTGTGGACAGTAAGCAGAT	TGTAAGAAGCCATTACCAAGGTC	Off-target analysis
<i>ULK4</i>	GAAATAACCAACTGGGTCCGT	CTGTGCAGAGTTCACCACT	Off-target analysis
<i>SGPL1</i>	CAGCTAATTGCATGGAGTGTCG	CCTTGACCATAAACTCTCTGGC	Off-target analysis
<i>TRAPPC9</i>	ACGGCTCCACACTGTATGACT	TCCTCGTAGTTGGGGTAGAAAG	Off-target analysis
<i>TACR2</i>	AGCAAGTCTACCTGGCACTCT	GAAACCTGTGGTTGAGACAGC	Off-target analysis
<i>LPCAT3</i>	GGAGCTGAGCCTTAACAAGTT	CAAAGCAAAGGGTAACCCAG	Off-target analysis
<i>FRMD4A</i>	TGAAACGGGACACTTAAACTGG	AACCACGGGTCCTGACTTTTT	Off-target analysis
<i>IDH2</i>	CCCGTATTATCTGGCAGTTCATC	ATCAGTCTGGTCACGGTTTGG	Off-target analysis
<i>FARS2</i>	CACATCCTTCCTTTGAGATGGAG	CCAGCCGATTCCGGTCTTGA	Off-target analysis
<i>KCNQ2</i>	TGCCTGGTACATCGGCTTC	GTAGGTGTCAAAGTGGTCGTTC	Off-target analysis

Ten pairs of primers used for off-target analysis were derived from the PrimerBank [1].

## Supplementary References

1 Spandidos A, Wang X, Wang H, *et al. Nucleic Acids Res* 2010; 38:D792-799.