

Table S1. Primer and probe sequences for RT-PCR

Gene	Primer sequence (5'→3')	Probe R-sequence-Q (5'→3')
<i>Phosphate and pyrophosphate transporters</i>		
<i>Slc20a1</i>	F: CTCATCCTGGGCTTCATCAT	FAM-CATTTGTCTTGGCATTCTCCGTGGG-BHQ1
	R: CCGGATGGTTTCACTCACTT	
<i>Slc20a2</i>	F: GCTCTACCAATTGGCTTCTCG	R6G-ATCGTTGCCTCCTGGTTCATATCCC-BHQ1
	R: ACAGAGGAAGTGCCTGGAGA	
<i>Xpr1</i>	F: AAGACGTGATTCTGCGCTT	ROX-TGCTACAACCTTTAAGCCTCATGTTGGG-BHQ2
	R: CACGGAATTCACCACAGTTG	
<i>Ankh</i>	F: CAAGAGAGACAGGGCCAAAG	FAM-CAGTCTTCCACACCCTGATAGCCTBHQ1
	R: AAGGCAGCGAGATACAGGAA	
<i>MAPK signaling</i>		
<i>Mapk3</i>	F: TCCAAGGGCTACACCAAATC	FAM-CTACCTGGACCAGCTCAACCACA-BHQ1
	R: AGGTAGTTTCGGGCCTTCAT	
<i>Mapk1</i>	F: TTGCTGAAGCACCATTCAAG	R6G-CAGGACAAGGGCTCAGAGGACTG-BHQ1
	R: ACGGCTCAAAGGAGTCAAGA	
<i>Klotho/FGF23 regulatory axis</i>		
<i>Kl</i>	F: AGCTGCTTGTGTTGTGATGC	FAM-ATGGTGGCGGTTTTAAACAGGCA-BHQ1
	R: TACGGGGGTGCTGTAGAAAC	
<i>Fgfr2</i>	F: ACTGGACCAACACCGAAAAG	FAM-ACGAAACCAGCACTGGAGCCTTATT-BHQ1
	R: CTCCACCAGGCAGGTGTAAT	
<i>Fgf23</i>	F: TGGGCACTGCTAGAGCCTAT	ROX-CAAGGTGTACAGTGACCCCCAGC-BHQ2
	R: GCGGAGATCCATACAAAGGA	
<i>Canonical Wnt signaling and its inhibitors</i>		
<i>Ctnnb1</i>	F: GCCAGTGGATTCCGTA CTGT	Cy5-CACCACGCTGCATAATCTCCTGCT-BHQ2
	R: GAGCTTGCTTTCCTGATTGC	
<i>Wnt10b</i>	F: GCACTGTCTAGGGCAAGAG	Cy5-CCAGCCCTATTCTGGCTCTGTC-BHQ2
	R: CACTCCGCTTCAGGTTTTT	
<i>Fzd2</i>	F: GAACTCCTGCGCTACTCACC	ROX-CCTCAAGGTGCCGTCTATCTCA-BHQ2
	R: TCCTCCTGCGAGAAGAACAT	
<i>Dkk1</i>	F: TTACTGTGGGGAAGGCTGG	Cy5-CCAACAGCCTAAATGCGATGGACTC-BHQ2
	R: ACATCCTTGGGATTGAGCTG	
<i>Sost</i>	F: CAGCTCTCACTAGCCCCTTG	ROX-CTGCTTGACATGCAGCCTTCGT-BHQ2
	R: CGGTTTCATGGTCTGGTTGTT	
<i>Sfrp2</i>	F: TGTCCGATAGGGACCTGAAG	R6G-TGGGACAGAAACAGGGTGGAGAG-BHQ1
	R: CGAGAAGCCACTCCACTAGG	
<i>VDR/OPG/RANKL regulatory axis</i>		
<i>Vdr</i>	F: AACTCCTCCTCCTCAGCTC	ROX-CCTGTCTCCTCTCTCCATGCTGCBHQ2
	R: CTGGTCATCGGAGGTGAGAT	
<i>Cyp27b1</i>	F: GGTGAGAGGCTTGGCTAGTG	Cy5-ATGGGGACAGTTGAAACTGCACCTT-BHQ2
	R: TCTGGAGTTCAGGAGCCAGT	
<i>Tnfrsf11B</i>	F: GAATGGTCACTGGGCTGTTT	Cy5-TGGGAATGAAGATCCTCCAGCCC-BHQ2
	R: CCTCTTTCTCAGGGTGCTTG	
<i>Tnfrsf11</i>	F: CATCGGGTCCCATAAAGTCAGT	FAM-TCAGGCATCATGAAACCTCAGGGAG-BHQ1
	R: GAACTTGGGATTTGATGCTGGT	
<i>Lgr4</i>	F: GGGAAGAGCAGTCACCTCAG	R6G-CCCTCTTAGCTTTGCTGGGTGC-BHQ1
	R: TAACGATGGGGTTTCTCCTG	
<i>Other osteogenesis genes</i>		
<i>Sp7</i>	F: CACTGGCTCCTGGTCTCTC	R6G-AGCTCACTATGGCTCCAGTCCC-BHQ1
	R: GGGGCTGAAAGGTCAGTGTA	
<i>Bmp4</i>	F: TAGGAGCCATTCCGTAGTGC	ROX-TCTTGAGCCTTCCAGCAAGTTTGT-BHQ2
	R: CTTCCCGGTCTCAGGTATCA	

<i>Dmp1</i>	F: CGGCTGGTGGTCTCTCTAAG	R6G-CAGTCCAGTGAAGACAGCACGTCT-BHQ1
	R: CATCACTGTGGTGGTCCTTG	
<i>Reference gene</i>		
<i>Gapdh</i>	F: AGACAGCCGCATCTTCTTGT	R6G-TGCCAGCCTCGTCTCATAGACAAG-BHQ1
	R: CTTGCCGTGGGTAGAGTCAT	

Slc20a1 – solute carrier family 20 member 1 (Pit-1), *Slc20a2* – solute carrier family 20 member 2 (Pit2), *Xpr1* – xenotropic and polytropic retrovirus receptor 1, *Ankh* – ANKH PPI transport regulator, *Mapk3* – mitogen activated protein kinase 3 (Erk1), *Mapk1* – mitogen activated protein kinase 1 (Erk2), *KL* – Klotho, *Fgf23* – fibroblast growth factor 23, *Fgfr2* – fibroblast growth factor receptor 2, *Ctnnb1* – catenin beta 1, *Sfrp2* – secreted frizzled-related protein 2, *Fzd2* – frizzled class receptor 2, *Wnt10b* – Wnt family member 10B, *Sost* – sclerostin, *Dkk1* – dickkopf 1, *Vdr* – vitamin D receptor, *Cyp27b1* – cytochrome P450, family 27, subfamily b, polypeptide 1 (1-alpha-(OH)ase), *Tnfrsf11B* – TNF receptor superfamily member 11 B (OPG), *Tnfrsf11* – TNF superfamily member 11 (RANKL), *Lgr4* – leucine-rich repeat-containing G protein-coupled receptor 4, *Sp7* – Sp7 transcription factor (osterix), *Bmp4* – bone morphogenetic protein 4, *Dmp1* – dentin matrix acidic phosphoprotein 1, *Gapdh* – glyceraldehyde-3-phosphate dehydrogenase.