

Figure S1 MicroCT analysis for kl/kl mice. (A) Micro-computed tomography (μ CT) results of longitudinal sections of femurs from WT mice and kl/kl mice. μ CT images were taken 0.2 mm above the growth plate at the distal metaphysis and at the mid portion at the diaphysis. (B) Quantification of trabecular number (Tb.N), osteoclast surface/bone surface (Oc.S/BS) (%), and number of osteoclasts/bone perimeter (N.Oc./B.Pm.). Data are shown as mean \pm SD. * P <0.05.

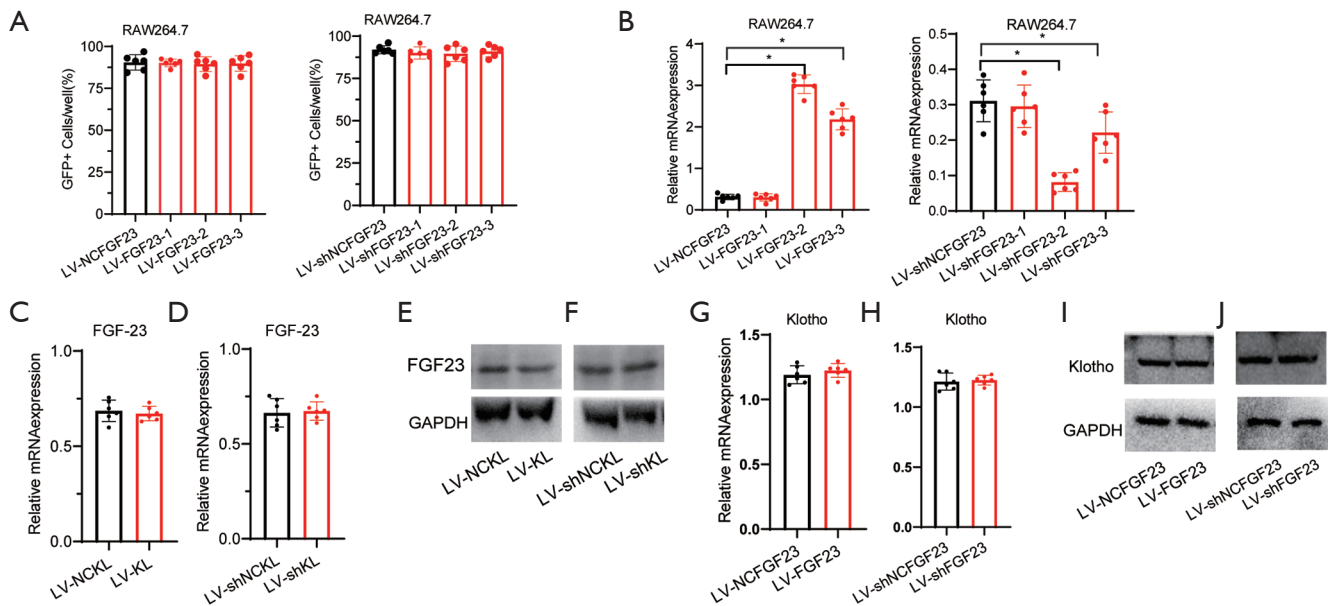


Figure S2 The independent expression of klotho and FGF23 during osteoclastogenesis. (A) Transfection efficiency assessed by immunofluorescent images for GFP+ cells. (B) Relative mRNA expression levels of klotho in RAW264.7 cells transfected with overexpression/knockdown lentivirus vector. Relative mRNA expression levels of FGF23 from RANKL-induced RAW264.7 cells at 1 d with (C) klotho overexpression and (E) knockdown. Western blot analysis of klotho, c-Fos, and NFATc1 from RANKL-induced RAW264.7 cells at 1 d with (D) klotho overexpression and (F) knockdown. Relative mRNA expression levels of FGF23 from RANKL-induced RAW264.7 cells at 1 d with (G) klotho overexpression and (I) knockdown. Western blot analysis of klotho, c-Fos, and NFATc1 from RANKL-induced RAW264.7 cells at 1 d with (H) klotho overexpression and (J) knockdown. Data are shown as mean \pm SD. * P <0.05. FGF23, fibroblast growth factor 23; RANK, nuclear factor kappa B; RANKL, nuclear factor kappa-B ligand.