Title: Supplementary Movie 1

Description: Representative micro-computed tomography images of the femurs of 11-week-old WT female mice treated with vehicle. Scrolling goes through the XY slice-stack. Scale bar, 1,000 μm.

Title: Supplementary Movie 2

Description: Representative micro-computed tomography images of the femurs of 11-week-old WT female mice treated with PTH. Scrolling goes through the XY slice-stack. Scale bar, 1,000 μ m.

Title: Supplementary Movie 3

Description: Representative micro-computed tomography images of the femurs of 11-week-old Slpi-KO female mice treated with vehicle. Scrolling goes through the XY slice-stack. Scale bar, 1,000 μ m.

Title: Supplementary Movie 4

Description: Representative micro-computed tomography images of the femurs of 11-week-old Slpi-KO female mice treated with PTH. Scrolling goes through the XY slice-stack. Scale bar, 1,000 µm.

Title: Supplementary Movie 5

Description: In vitro imaging of mock MC3T3-E1-EGFP cells in contact with TRAP-tdTomato+ primary osteoclasts. Filled arrowheads indicate direct osteoblast–osteoclast contact. Scale bar: 50 μ m. Playback speed = 1,440×.

Title: Supplementary Movie 6

Description: In vitro imaging of Slpi-overexpressing MC3T3-E1- EGFP cells in contact with TRAP-tdTomato+ primary osteoclasts. Filled arrowheads indicate direct osteoblast–osteoclast contact. Scale bar: 50 μ m. Playback speed = 1,440×