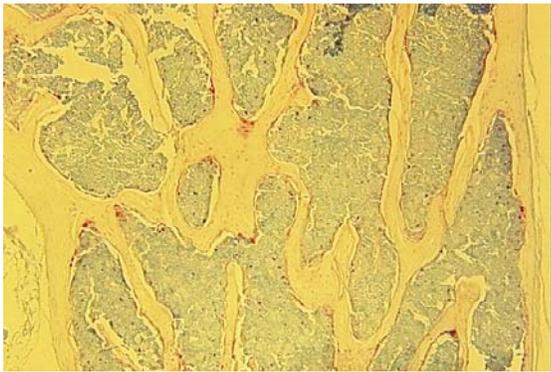
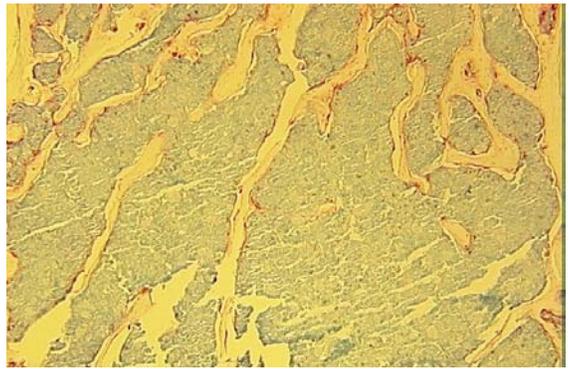
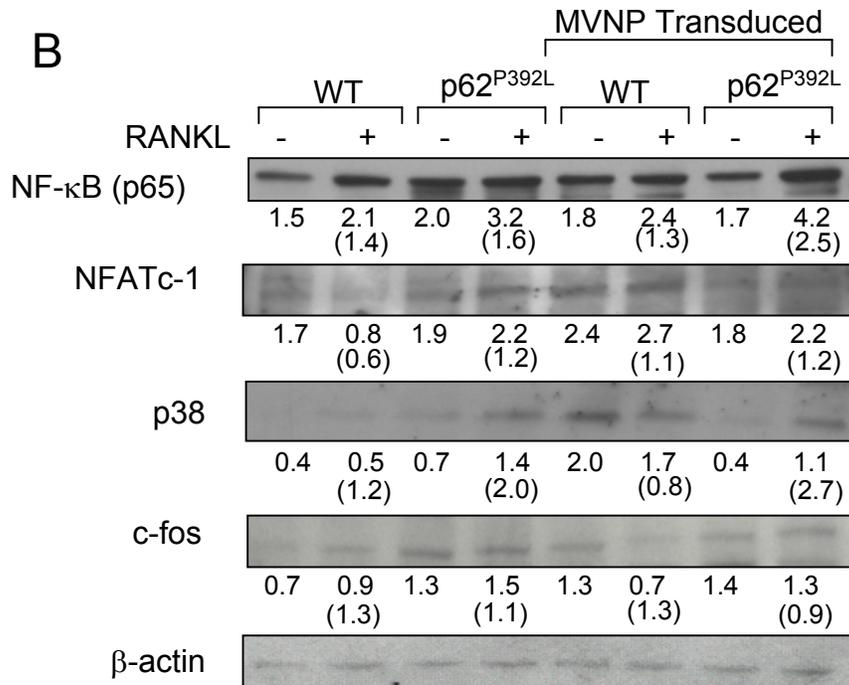
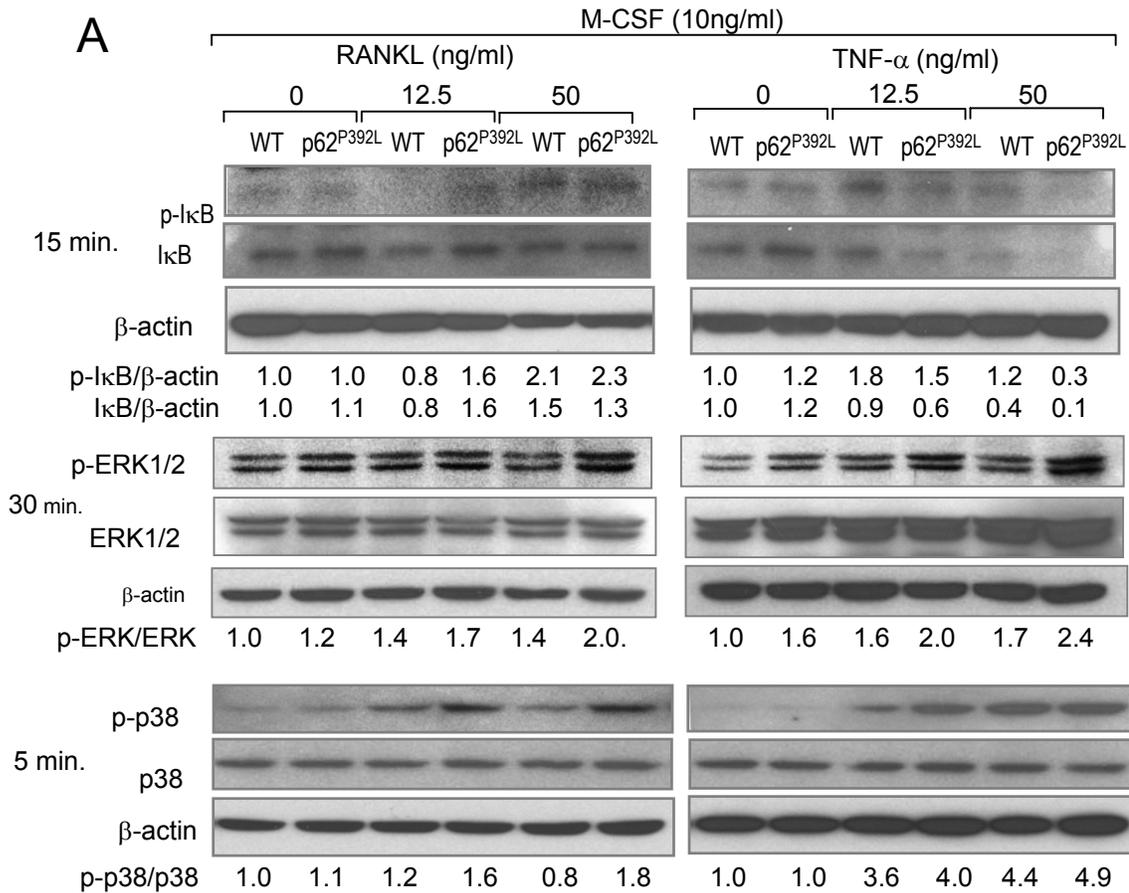


A



B





Supplemental Figure 1. Histologic studies of bones from TRAP-p62^{P392L} mice.

Vertebral cancellous bone from wild type littermates (A) or TRAP-p62^{P392L} mice (B).

Note increased osteoclast perimeter (red stain), reduced cancellous bone volume, fewer and thinner trabeculae, and loss of trabecular connectivity in TRAP-p62^{P392L} bone.

Supplemental Figure 2.

(A) RANKL and TNF- α increase phospho-I κ B α , ERK and p38MAPK in OCL precursors from TRAP-p62^{P392L} and wild type mice. OCL precursors (5×10^5 cells/well) from TRAP-p62^{P392L} and wild type mice were pretreated with M-CSF (10 ng/ml) for 4 days. Cells were then exposed to RANKL or TNF- α for the indicated periods. Cells were lysed, fractionated by SDS-PAGE, and analyzed by immunoblot using antibodies recognizing phosphorylated and total signaling molecules, and the ratios were shown. β -actin served as the loading control.

(B) Expression of signaling molecules by OCL precursors from MVNP or EV transduced TRAP-p62^{P392L} and WT mice. Cell lysates were obtained from day 4 CFU-GM-derived cells and were immunoblotted using anti- NF- κ B (p65), NFATc-1, p38MAPK or c-fos rabbit polyclonal antibody. The ratios with β -actin are shown.