Osteoclast bone resorbing activity
Quantification of bone resorption by osteoclasts *in vitro* was measured by the OsteoLyse assay kit (Lonza) according to the manufacturer’s instructions.

**Figure S1.** Infected cells were cultured on europium-labeled human collagen-coated bone for 5 days with RANKL stimulation
Osteoclasts bone resorbing activity was measured using each cell culture supernatant by the OsteoLyse™ assay kit. The data represent the means ± S.D. of three experiments in duplicate.

**Figure S2.** Infected cells were cultured on europium-labeled human collagen-coated bone for 5 days with RANKL stimulation
Osteoclasts bone resorbing activity was measured using each cell culture supernatant by the OsteoLyse™ assay kit. The data represent the means ± S.D. of three experiments in duplicate.