

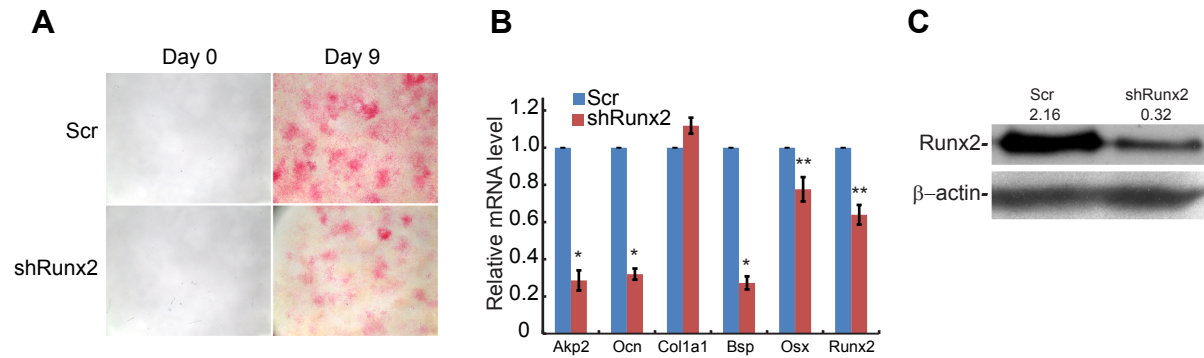


Figure S3. Verification of Runx2 knockdown by shRunx2 in MC3T3 cells. (A) Alkaline phosphatase staining of cells from Runx2 shRNA (shRunx2) knockdown and scramble shRNA control (Scr). Runx2 shRNA clearly decreased alkaline phosphatase staining. (B) Expression of osteogenic marker *Ocn*, *Bsp*, *Akp2*, *Osx*, *Col1a1*, *Runx2* upon Runx2 knockdown (shRunx2), when compared with scramble control (Scr). 5 out of 6 markers showed significant decrease in mRNA level upon Runx2 knockdown (*: $p < 0.01$, **: $p < 0.05$, t-test). (C) Runx2 protein level decreased by 80% upon Runx2 shRNA treatment (shRunx2), in contrast to scramble shRNA control (Scr).