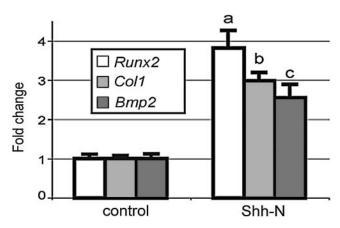


SUPPLEMENTAL FIG. S1. Bipotent differentiation with N-terminal Sonic Hedgehog (Shh-N) or cyclopamine. (A) Staining for both oil red O and alkaline phosphatase at day 7 bipotent differentiation with Shh-N ($500\,\text{ng/mL}$) or vehicle control. (B) Staining for oil red O and alkaline phosphatase with cyclopamine ($10\,\mu\text{M}$) or vehicle control. Whole well images are presented above and random microscopic fields below.



SUPPLEMENTAL FIG. S2. Gene expression after 24 h of treatment with Shh-N. Gene expression of *Runx2*, *Col1*, and *Bmp2* in mouse adipose-derived stromal cells after 24 h in culture with Shh-N ($500 \, \text{ng/mL}$) or vehicle control, by quantitative real-time polymerase chain reaction. After 24 h, mASCs were then grafted into our tibial defect model. Values are normalized to control groups, ${}^{a,b,c}p < 0.01$.