



**SUPPLEMENTARY FIG. S4.** Expression of DKK1 and FRZB in hChs and hMSCs. mRNA levels were determined by qRT-PCR analysis. The expression of *DKK1* and *FRZB* was standardized to *GAPDH* expression (**A**). In addition, secretion of DKK1 and FRZB was analyzed using ELISA (**B**). Bars show the mean  $\pm$  standard deviation. ELISA, enzyme-linked immunosorbent assay; hChs, human chondrocytes; hMSCs, human mesenchymal stem cells; RT, real time.