



S4. The knock-down of SOX9 gene in IDH1 R132C hMSCs.

hMSCs expressing *IDH1* R132C were treated with siRNA targeting the *SOX9* gene for 48 hours, and the expression of the *SOX9* gene as well as the expression of *COL2A1* gene was analyzed by qPCR. Two different siRNA targeting the *SOX9* gene were used. **, $p < 0.01$ by Dunnett's multiple comparisons test compared to cells treated with control siRNA (NC#1)