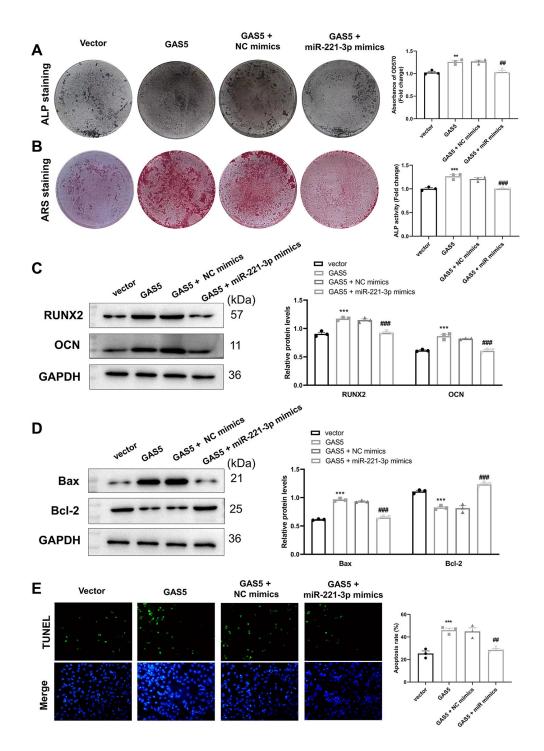
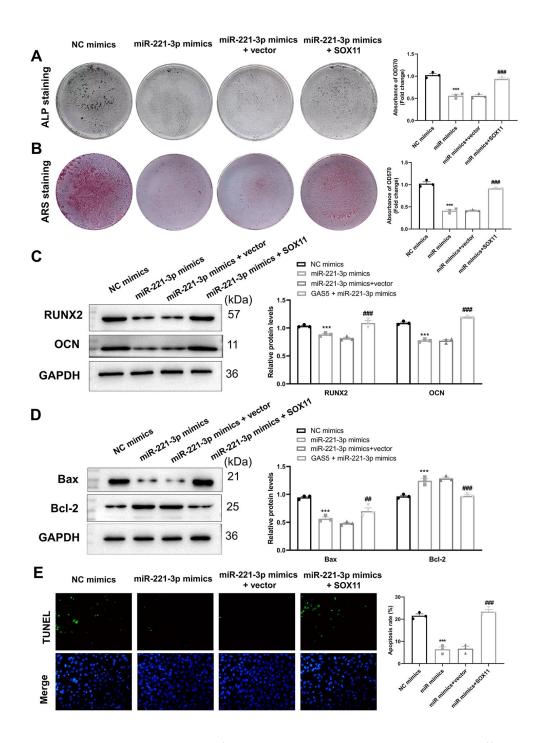
SUPPLEMENTARY FIGURES



Supplementary Figure 1. The role of GAS5 in the apoptosis and osteogenic differentiation of AFs was mediated by miR-221-3p. AFs were transfected with or without the GAS5 overexpression vector alone or with the NC or miR-221-3p mimics. (A) ALP and (B) ARS staining assays were used to evaluate the osteogenic differentiation level (n = 3). (C) The osteogenic differentiation-related markers were detected using western blotting (n = 3). (D) The apoptosis-related protein levels were measured using western blotting (n = 3). (E) TUNEL staining assay was employed to evaluate the apoptosis of AFs (n = 3). (**p < 0.01 and ***p < 0.001, vs. the vector group; ##p < 0.01 and ###p < 0.001, vs. the GAS5 group).



Supplementary Figure 2. SOX11 mediated the role of miR-221-3p in the apoptosis and osteogenic differentiation of Afs. AFs were transfected with or without miR-221-3p mimics alone or with the empty or SOX11 overexpression vector. (A) ALP and (B) ARS staining assays were used to evaluate the osteogenic differentiation level (n = 3). (C) The osteogenic differentiation-related markers were detected using western blotting (n = 3). (D) The apoptosis-related protein levels were measured using western blotting (n = 3). (E) TUNEL staining assay was employed to evaluate the apoptosis of AFs (n = 3). (***p < 0.001, vs. the NC mimics group; ##p < 0.01 and ###p < 0.001, vs. the miR-221-3p mimics group).