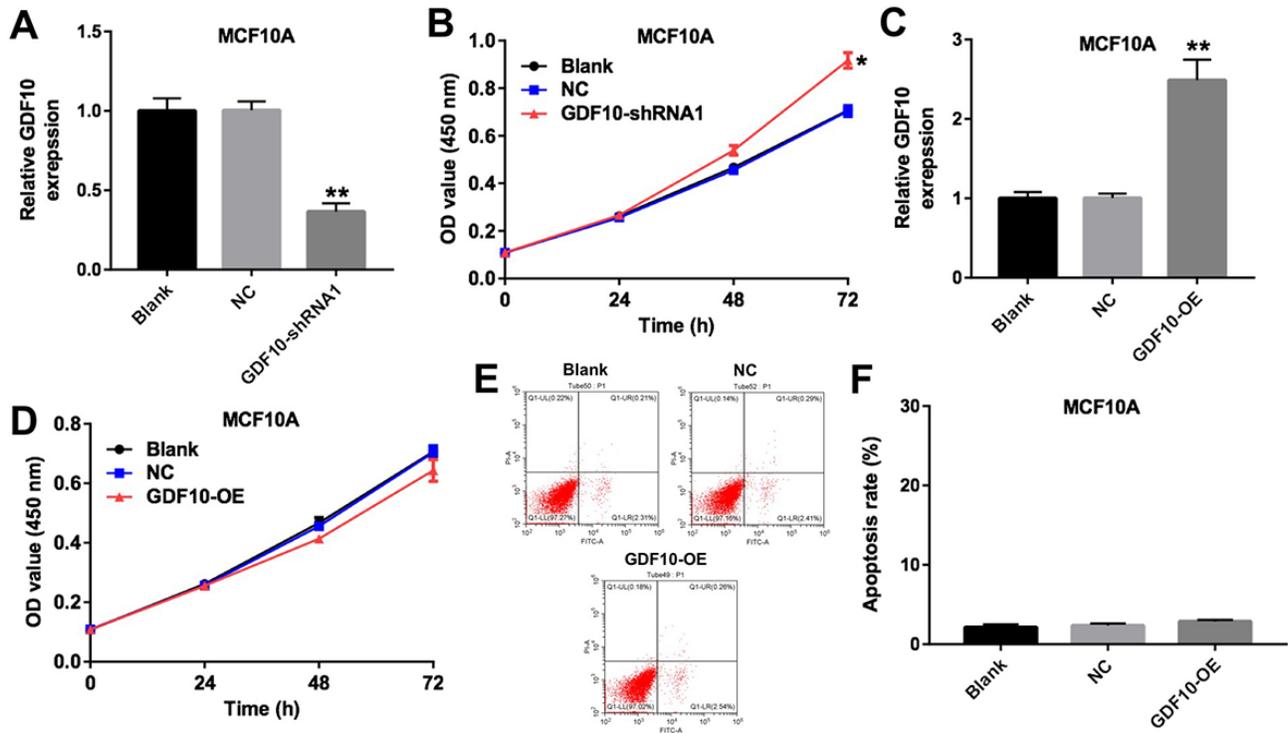
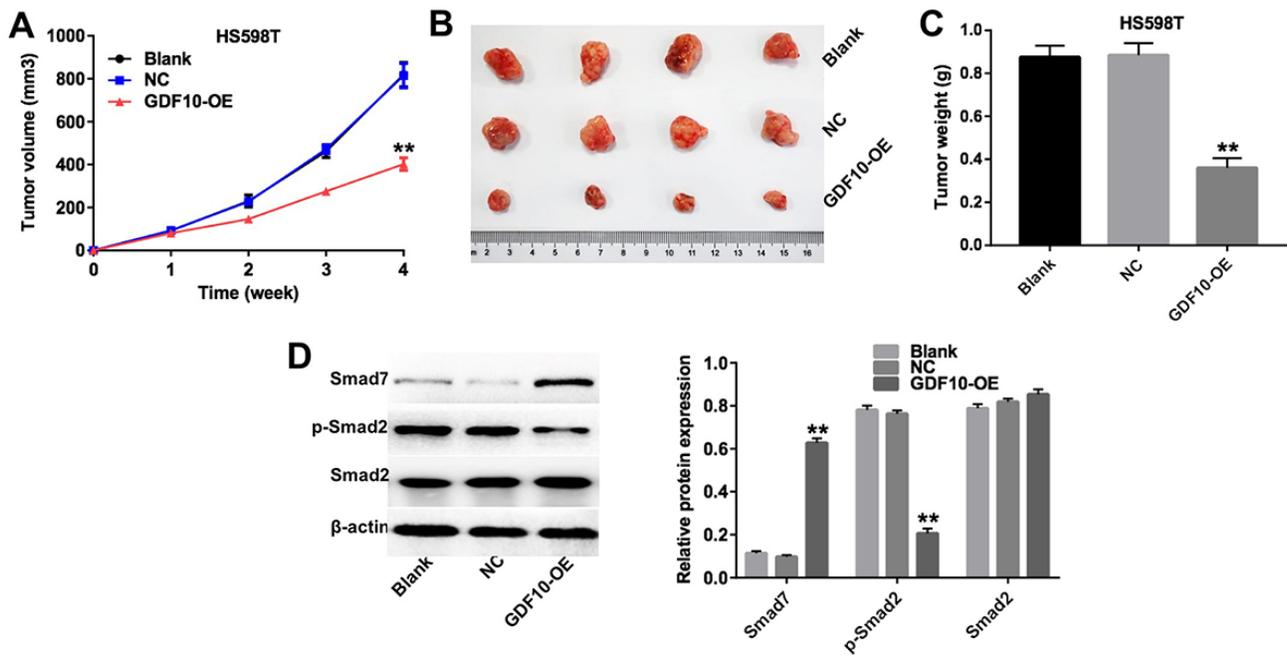


SUPPLEMENTARY MATERIAL



**Supplementary Figure 1. Downregulation of GDF10 promotes proliferation of MCF10A cells.** (A) GDF10 expression at the mRNA levels in MCF10A cells 72 h after transfection with NC or GDF10-shRNA1 for 72 h. \*\*P < 0.01, compared with the NC group. (B) Cell proliferation assay results. MCF10A cells were transfected with NC or GDF10-shRNA1 and the CCK-8 assay was conducted at 0, 24, 48, and 72 h. \*\*P < 0.01, compared with the NC group. (C) GDF10 expression at the mRNA levels in MCF10A cells 72 h after transfection with NC or GDF10 for 72 h. \*\*P < 0.01, compared with the NC group. (D) Cell proliferation assay results. MCF10A cells were transfected with NC or GDF10 and the CCK-8 assay was conducted at 0, 24, 48, and 72 h. \*\*P < 0.01, compared with the NC group. (E, F) Apoptosis rates detected through Annexin V/PI double staining and flow cytometry in NC and GDF10-overexpressing MCF10A cells. \*\*P < 0.01, compared with the NC group.



**Supplementary Figure 2. GDF10 expression inhibits HS598T xenograft growth.** (A) Tumor volumes were measured weekly post-inoculation of HS598T cells infected with lentiviruses carrying the GDF10 gene or non-coding controls (NC). \*\*P < 0.01, compared with the NC group. (B) Photographs of HS598T xenografts dissected 4 weeks after tumor cell inoculation. (C) Tumor weights. \*\*P < 0.01, compared with the NC group. (D) The expressions of Smad7, p-Smad2, Smad2 were investigated by western blotting in excised tumor samples.  $\beta$ -actin was used as internal control. Relative protein expression levels were quantified by densitometry and normalized to  $\beta$ -actin. \*\*P < 0.01, compared with the NC group.