FOXO1 Is a Key Mediator for Glucocorticoid-Induced Expression of Tristetraprolin in MDA-MB-231 Breast Cancer Cells

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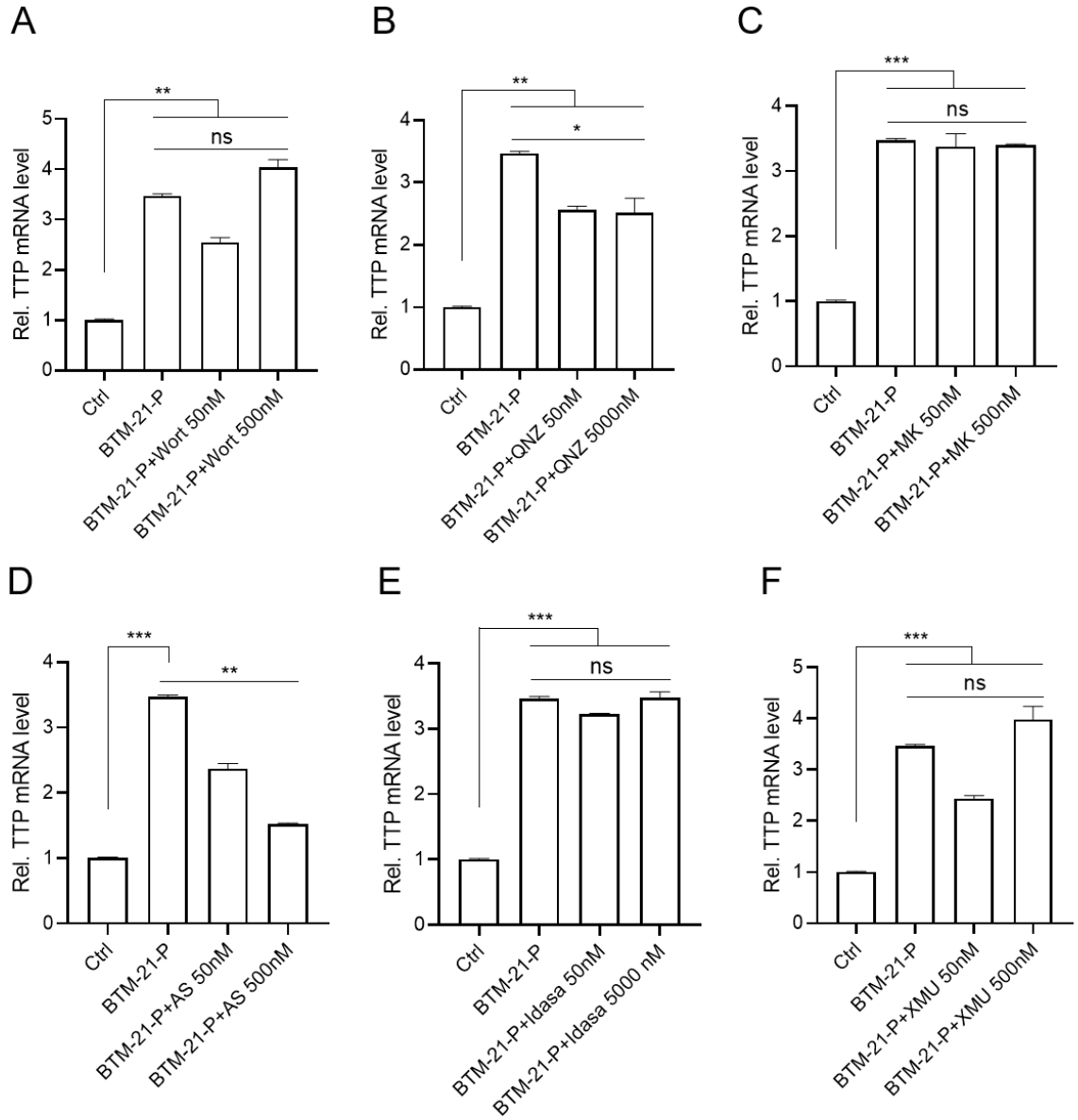
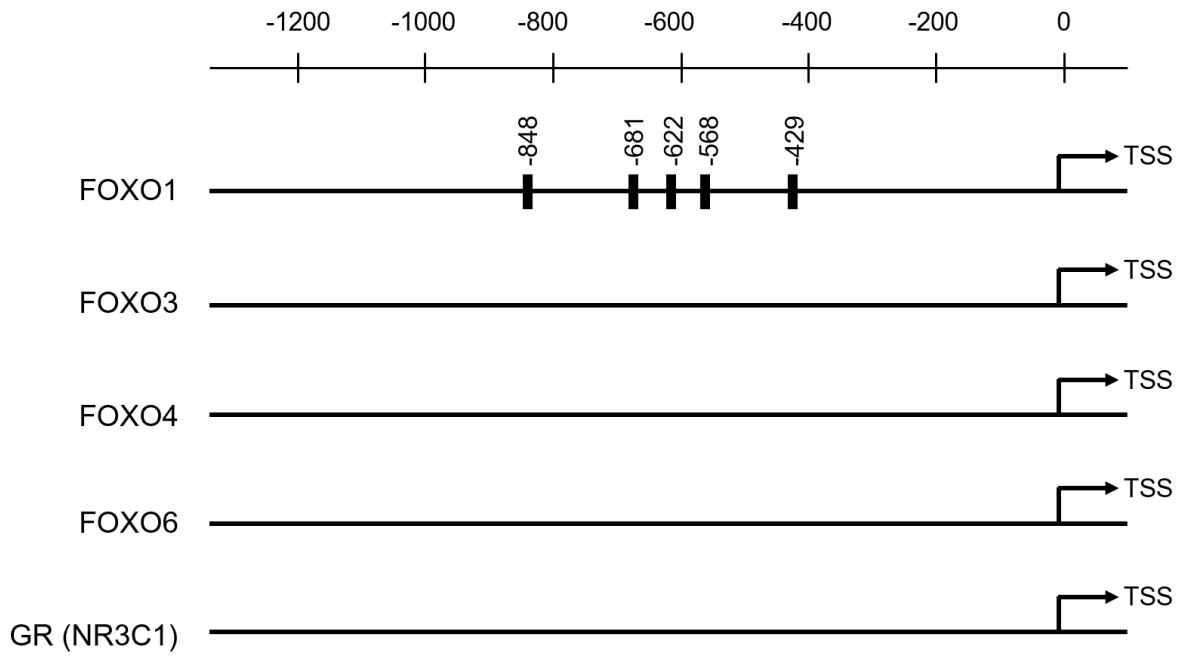


Supplement Figure S1. FOXO1 mediates BTM-21-P-induced TTP expression in MDA-MB-231 cells. MDA-MB-231 cells were incubated in the presence of indicated concentration of inhibitors against (A) PI3K (Wortmannin) (B) NF-κB (QNZ), (C) AKT (MK2206), (D) FOXO1 (AS1842856), (E) MDM2 (Idasanutlin), and (F) MST1/2 (XMU-MP-1) for 12 h, followed by stimulation with 500 nM BTM-21-P for 3 h. The expression level of TTP was analyzed by qRT-PCR. Fold change in expression level was calculated relative to that of DMSO control. The graphs are means ± SD of 3 independent experiment. (One-way ANOVA, *, $p<0.05$; **, $p<0.005$; ***, $p<0.001$). ns, not significant.



Supplementary Figure S2. The JASPAR prediction (*p* value = 0.001) for the binding positions of FOXO1, FOXO3, FOXO4, FOXO6, and GR (NR3C1) on the promoter of the TTP gene. TSS, transcription start site.