

Supplementary Information

The role of CREB3L4 in the proliferation of prostate cancer cells

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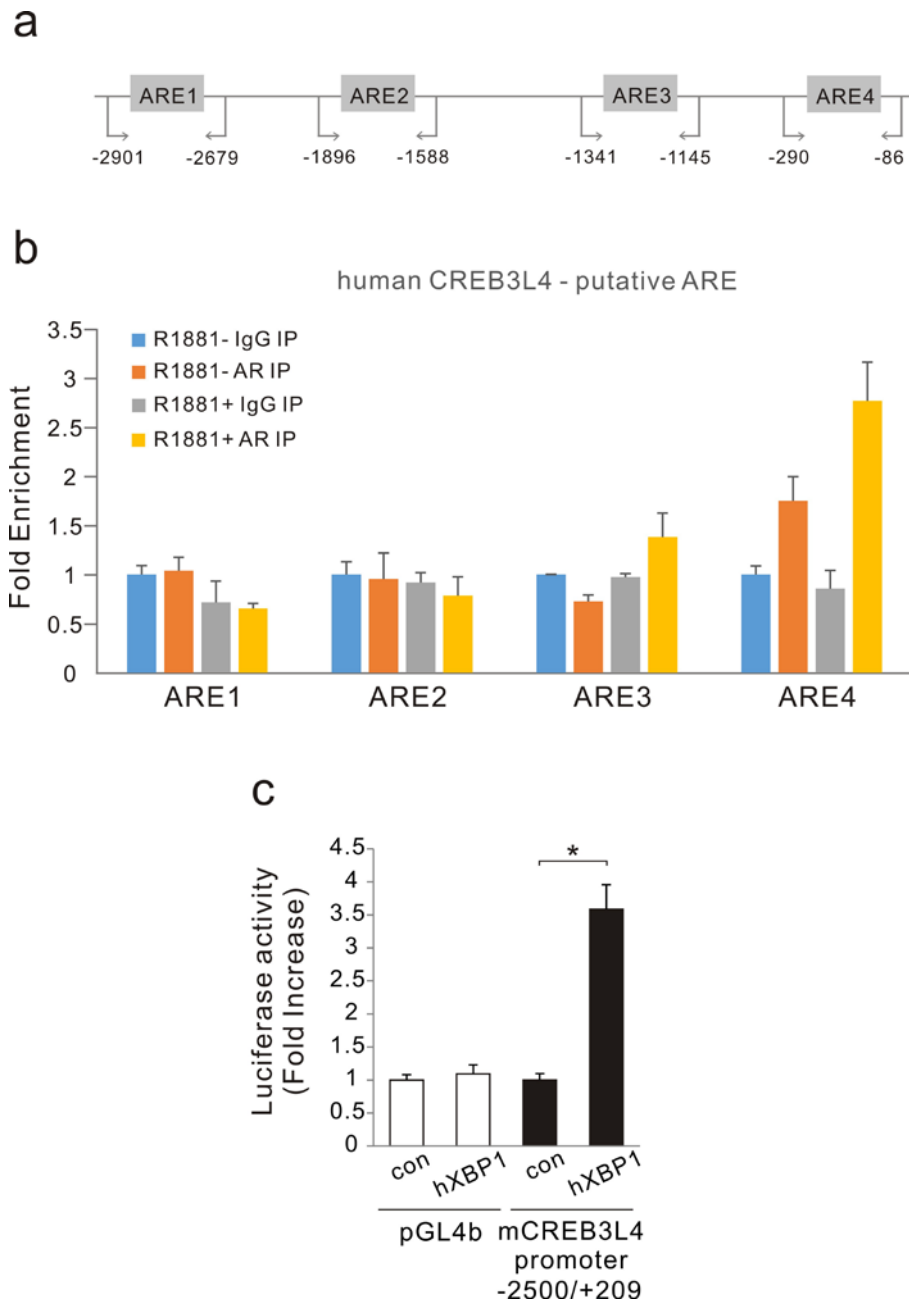
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Supplementary Figure 1. Effect of AR and XBP1 on *CREB3L4* promoter activity. (a) Putative androgen response element (ARE) within 3kb of human *CREB3L4* promoter. (b) Chromatin immunoprecipitation (ChIP) assays were performed on LNCaP cells treated with synthetic androgen (R1881). Normal IgG was used as a negative control for ChIP. The ARE of the *CREB3L4* gene promoter was amplified, following ChIP pulldown, to determine AR-to-DNA binding, which was normalized to total input DNA. Error bars represent means $\pm$ S.E. (c) Luciferase activity of mouse *Creb3l4* gene promoter covering a -2500/+209 region. The human spliced isoform of XBP1 was transfected with mouse *Creb3l4* gene promoter reporter or pGL4b in HEK293 human kidney cells. Luciferase activity was normalized to *Renilla* luciferase activity, to adjust for transfection efficiency. Normalized activities are shown as means $\pm$ S.E. (error bars), $n = 3$, and reporter activities expressed as folds-increase, relative to basal activity. * $p < 0.05$