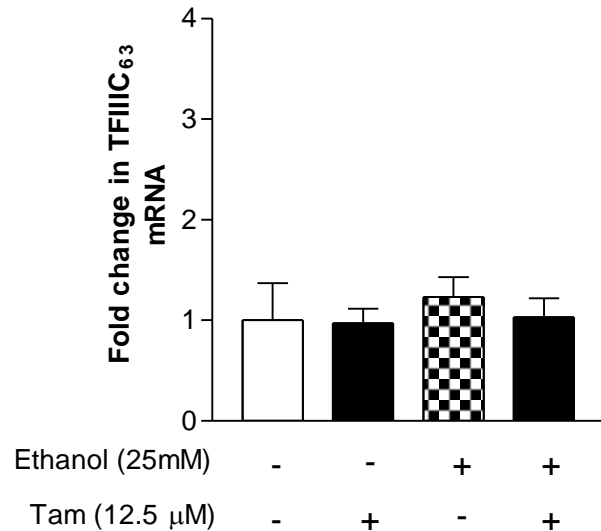


Tamoxifen represses alcohol-induced transcription of RNA polymerase III-dependent genes in breast cancer cells

Supplementary Material



S. 1: Tam does not affect TFIIIC63 gene transcription. ER+ MCF-7 cells were starved in DMEM/12 for 3 h, pretreated with 12.5 μM Tam for 1 h, and then treated with 25 mM ethanol for another 1 h as indicated in **Fig. 1**. RNA was isolated from these cells and RT-qPCR was performed to measure the amounts TFIIIC₆₃ transcription. The fold change was calculated by normalizing to the amount of GAPDH mRNA. The bars represent Mean \pm SE of at least three independent determinations.

Table S1: Primer Sets for Quantitative RT-PCR

Target	Primers	Annealing Temperature
Pre-tRNA ^{Leu} (1)	(F) 5'-GTC AGG ATG GCC GAG TGG TCT AAG-3' (R) 5'-CCA CGC CTC CAT ACG GAG AAC CAG AAG ACC C-3'	61°
5S rRNA (2)	(F) 5' GGC CAT ACC ACC CTG AAC GC 3' (R) 5' CAG CAC CCG GTA TTC CCA GG 3'	61°
Human Bf1 (3)	(F) 5' CCT CGG GCC TCT GCG GAG CAG -3' (R) 5' TCA TCA ATG GTC AAC TGA CTG GTG G -3'	60°

GAPDH (2)	(F) 5'-TCC ACC ACC CTG TTG CTG TA-3' (R) 5'-ACC ACA GTC CAT GCC ATC AC-3'	61°
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Abbreviations: (F) = forward, (R) = reverse.

Table S2: Primer Sets for ChIP		
Target	Primers	Annealing Temperature
hBrf1 promoter -233/+42 (3)	(F) 5' CGT CCA GCT TTA GTC CCC GAC 3' (R) 5' CGA GCC CAA GGC GGC TTC G 3'	63°
hBrf1 promoter -1153/-941	(F) 5' GAG ACA GAG TTT CAC TAT TGT C 3' (R) 5' GGT ACA ACC GGT CCG ACC AGA GC 3'	62°
tRNA ^{Leu} gene (1)	(F) 5'-GTC AGG ATG GCC GAG TGG TCT AAG-3' (R) 5'-CCA CGC CTC CAT ACG GAG AAC CAG AAG ACC C-3'	61°
5S rRNA (2)	(F) 5' GGC CAT ACC ACC CTG AAC GC 3' (R) 5' CAG CAC CCG GTA TTC CCA GG 3'	61°

Supplemental references

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3. Zhang Q, Jin J, Zhong Q, Yu XL, Levy D, Zhong S. ER α mediates alcohol-induced deregulation of Pol III genes in breast cancer cells. *Carcinogenesis* 2013; 34: 28-37.