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Journal of Andrology, Vol 22, Issue 1 136-141, Copyright © 2001 by The American Society of Andrology

JOURNAL ARTICLE

Androgen-Dependent transcriptional regulation of the prostate-specific antigen gene by thyroid hormone 3,5,3'-Ltriiodothyronine

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Prostate-specific antigen (PSA) is the most useful biomarker for human prostate cancer and may play a role in prostate tumor biology. Androgens, via their receptors, are the major positive regulators of PSA expression. Recently, we showed that thyroid hormone 3,5,3'-Ltriiodothyronine (T3) also increases androgen-dependent PSA expression, even though androgen receptor expression is not affected. This report demonstrates for the first time that there is a functional T3-responsive element (TRE) in the 5'-promoter region of the PSA gene. Mutation of this TRE reduced the T3-enhanced androgenic activation of the PSA

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promoter. Our study provides direct evidence that the PSA gene is regulated by T3 at the

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