FOXM1 promotes the progression of prostate cancer by regulating **PSA** gene transcription

Supplementary Materials

Primers for FOXM1 binding sites in PSA enhancer

Primer set 1: Primer set 3:

Forward: AGATAGAGTGCACAGGTCTGGA Forward: TCAGCCTTTGTCTCTGATGAAG
Reverse: TTCCTCATGCTCCTGAAATAGA Reverse: CAGGCTTGCTTACTGTCCTAGA

Primer set 2: Primer set 4:

Forward: GGTCCCCTCCTATCTCTATTCC Forward: GACAGTAAGCAAGCCTGGATCT Reverse: GTAAAAGCCTTTGCCTCTGACT Reverse: TTTAATGGTGGAACGTTGAGAC

Primers for FOXM1 binding sites in PSA promoter:

Primer set 5:

Forward: GCATGAGGATGATTCTGACCT Reverse: GATCTGTGGACCACAAGATC

-4518 -4476 -4225 -4179 -4079 -3955 -672 -395 -170 +1 -4298 -4143 -4016 PSA Enhancer PSA Promoter

-5292 to -3709: PSA Enhancer FOXM1 Binding Site
-677-+1: PSA promoter ARE Binding Site

Supplementary Figure 1: Several FOXM1 cis-regulatory elements were identified in PSA promoter/enhancer regions, each immediately adjacent to an ARE. Schematic representation and gene sequence of PSA enhancer/promoter. The red boxes represent the androgen-responsive elements, and the green boxes represent the FOXM1 binding sites. Four *cis*-regulatory elements of FOXM1 have been identified within the PSA enhancer/promoter; three are located in the PSA enhancer regions, and one is located in the PSA promoter region. The putative FOXM1 binding sites are close to ARE binding sites.