

Supplementary Text

The PSA61-Luc plasmid (Cleutjens et. al. 1997 Molecular Endocrinology) carries a 6-kb fragment of the promoter/enhancer region of the PSA/KLK3 gene. This fragment harbors a 440-bp regulatory region (shown underlined) which contains three GATA2 binding motifs and one ARE. Two additional AREs and several GATA2 binding motifs are also present on this plasmid further downstream, prior to the luciferase gene.

The green letter A is the transcription start site of KLK3

Three AREs are shown highlighted in yellow.

GATA2 consensus binding sequences W/GATA/R, where W can be A or T and R can be A or G, are highlighted in turquoise.

5' end of a sequence 6000bp upstream of KLK3 TSS:

CATCTCTGTGACTCATGTTATTGTACTTTAAAGTGGAAATAATAACAGTTCCTGTACAGTTTAGGGCTTCCCAAGATGACCCTCCATTGACATCAGTTGAGATT
CCAGGAGAGTCCAAAAGATCATCCTTAAGGTTCAAGTCTGCTAGGATGCTCATGGTTGTGGTTTATTACAGCAAAGGATACAGATGAAAACTGGCAAGGG
AGAGGTGAATGAGGCAAAGACAAGGAGAAGCTCAAAGTGGAAAGCTTCTAGTTTTCTTTCCCGGTGACATCGTGAAAGCACTAGCATCTCTAAGCAATGATCT
GTGACAATATTACAGTGTATTGCCATCCAGGGAAGCTCAACTGAGCCTTGATGTCCAGAGATTTTTGTGTTTTTTCTGAGACTGAGTCTCGCTCTGTGCCAG
GCTGGAGTGCAGTGGTCAACCTTGGCTCACTGCAAGCTCCGCCTCCTGGGTTACGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCACCC
GCCACCAGCCTGGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTCACTGTGTTAGCCAGGATGGTCTCAGTCTCCTGACCTCGTGATCTGCCACCTTG
GCCTCCCAAAGTGTGGGATTACAGGGGTGAGCCACTGCGCCTGGCCGATCCAGAGATTTTTGGGGGGCTCCATCACACAGACATGTTGACTGTCTTATG
GTTGACTTTTAGTATCCAGCCCTCTAGAAATCTAGCTGATATAGTGTGGCTCAAACCTTCAGCACAAATCACACCGTTAGActatctGGTGTGGCCAAAC
CTTCAGGTGAACAAAGGCCTCTAAACTGGCAGGATATTCAAAGCATTAGAGATGACCTCTGCAAAGAAAAAGAAATGAAAAGAAAAAGAAAGAAAGAAA
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