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Author	Angelika Danielsson	
Title (English)	Prostate cancer gene therapy based on an adenoviral vector with tissue specific expression	
Title (Swedish)		
Abstract	Gene therapy is a novel promising treatment strategy for cancer. In this study the regulatory elements of an adenoviral vector for prostate cancer gene therapy has been improved. A previously constructed vector had transgene expression under control of a recombinant prostate specific promoter called PPT (PSA enhancer, PSMA enhancer, TARP promoter) shielded by the H19 DNA insulator. However, the H19 insulator is large and the cloning capacity of the vector is limited. In this study two shorter insulators were evaluated regarding expression level and tissue specificity in adenoviral vectors constructed by the AdEasy™ vector system. A shorter variant of the H19 was found to yield twice as high expression in prostate cancer cell lines than the old insulator without losing in specificity. It is therefore a good alternative to achieve more cloning capacity in the vector.	
Keywords	Prostate cancer, gene therapy, adenovirus, insulator, AdEasy™ vector system, luciferase assay	
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