Supporting Information for "Down-regulation of androgen receptor transcription by promoter G-quadruplex stabilization as a potential alternative treatment for castrate-resistant prostate cancer"

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Name	Sequence
AR Sequence 1	AGGGGAGGGGAGAAAAGGAAAGGGGAGGGGAGGGA
AR Sequence 2	AGGGGAGGGGAGAAAAGGAAAGGGGAGGGGA
AR Sequence 3	AGGGGAGAAAAGGAAAGGGGAGGGGAGGGA
AR Sequence GG del	AGGGGAGGGGAGAAAAAAAGGGGAGGGGAGGGA
FRET Sequence 3	FAM-AGGGGAGAAAAGGAAAGGGGAGGGGAGGGA-TAMRA
FRET Telomere	FAM- GGGTTAGGGTTAGGGTTAGGG-TAMRA
FRET Duplex	FAM- TATAGCTATA-HEG-TATAGCTATA-TAMRA
AR (RT qPCR)	QT00073451 (Qiagen®)
Sp1 (RT qPCR)	QT01870449 (Qiagen®)
Myc (RT qPCR)	QT00035406 (Qiagen®)
Jun (RT qPCR)	QT00242956 (Qiagen®)
TBP Fwd (RT qPCR)	GAATATAATCCCAAGCGGTTTG
TBP Rev (RT qPCR)	ACTTCACATCACAGCTCCCC
FKBP5 Fwd (RT qPCR)	AAAAGGCCACCTAGCTTTTTGC
FKBP5 Rev (RT qPCR)	CCCCCTGGTGAACCATAATACA

PSA Fwd (RT qPCR)	AGAAGCATTCCCAACCCTG
PSA Rev (RT qPCR)	GTCGTGGCTGGAGTCATC
SDH Fwd (RT qPCR)	TGGGAACAAGAGGGCATCTG
SDH Rev (RT qPCR)	CCACCACTGCATCAAATTCATG
NKX3.1 Fwd (RT qPCR)	AGAAGGCCTCCTCTTTCAGG
NKX3.1 Rev (RT qPCR)	GCCAAGAACCTCAAGCTCAC
AR promoter Fwd (PCR)	TGAGGGTTCCTAGAGCAAATGGCA
AR promoter Rev (PCR)	TACCAGGCACTTTCCTTGCTTCCT

Table S1. Oligonucleotides used for biophysical characterisation, RT qPCR and PCR amplification.

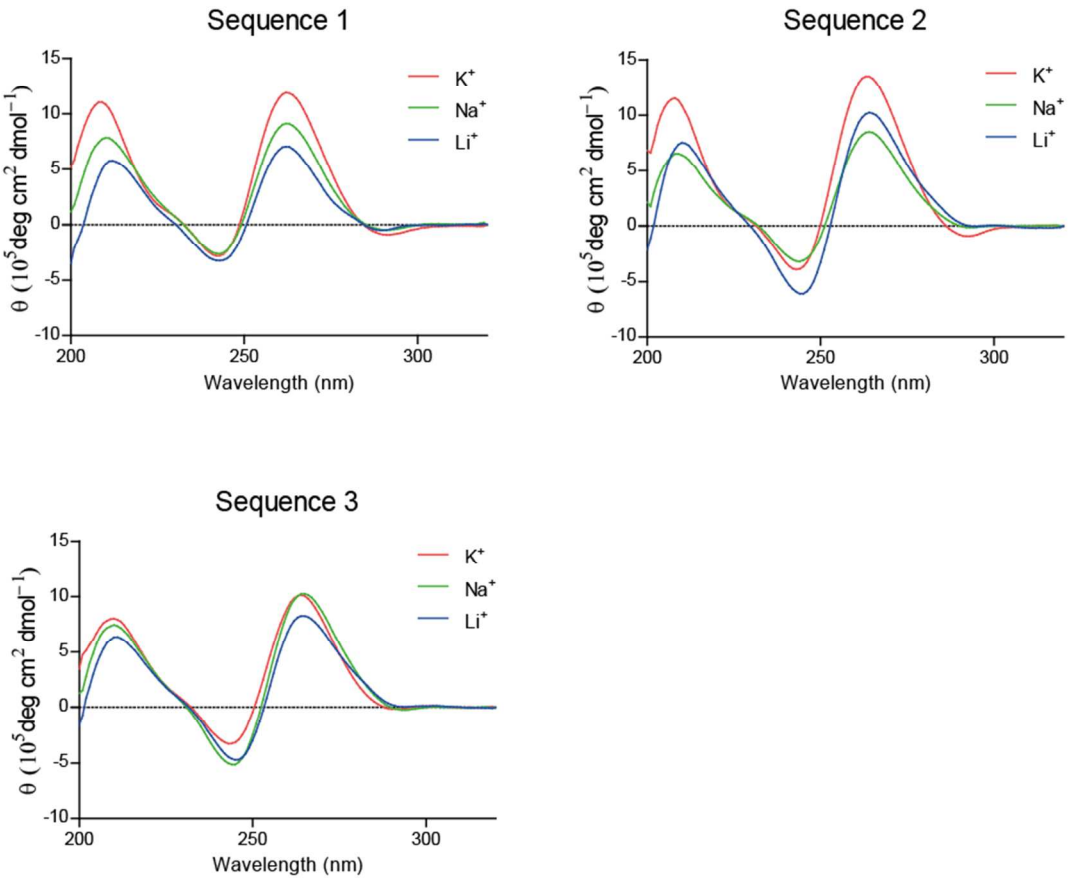

Figure S1. Circular dichroism spectra for the three sequences indicating parallel quadruplex conformation in a 100 mM K^+, Na^+ or Li^+ buffer.

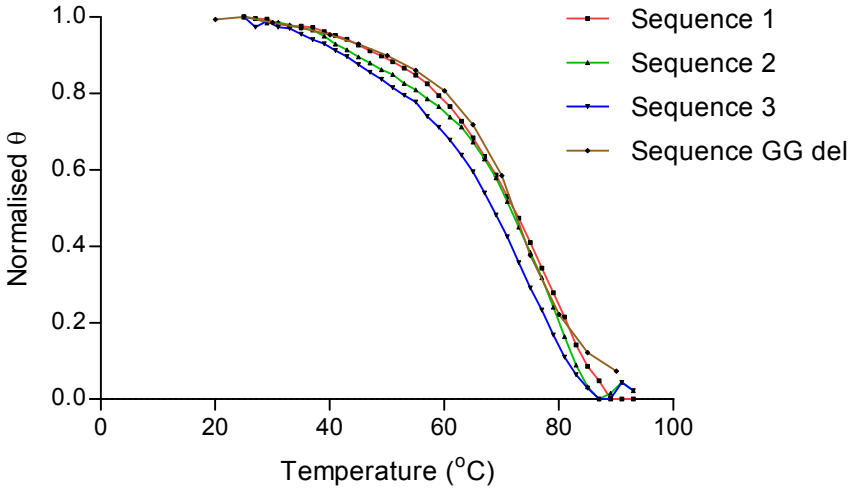

Figure S2. Circular dichroism thermal melting spectra for the three sequences in a 100 mM K^+ buffer at a wavelength of 260 nm.