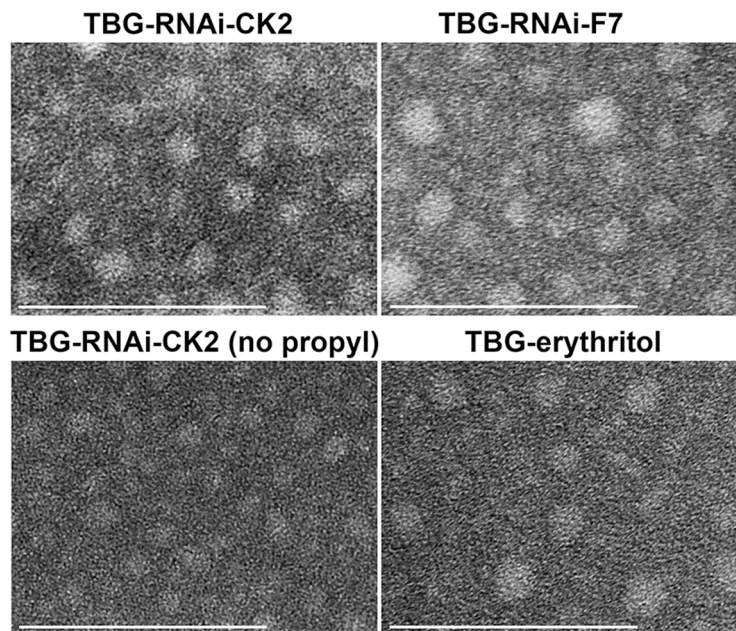


## CK2 targeted RNAi therapeutic delivered via malignant cell-directed tenfibgen nanocapsule: dose and molecular mechanisms of response in xenograft prostate tumors

### Supplementary Materials



**Supplementary Figure S1: Nanocapsule morphology.** Transmission electron micrographs of TBG-RNAi-CK2, TBG-RNAi-F7, TBG-RNAi-CK2-no propyl, and TBG-erythritol nanocapsules used for different *in vivo* studies. Scale bar represents 100 nm. Original magnification 80,000.

**Supplementary Table S1: TBG nanocapsule characteristics and information**

Cargo	Particle Size (nm) <sup>a</sup>	Zeta Potential (meV) <sup>b</sup>	Morphology <sup>c</sup>	Sequence <sup>d</sup>
RNAi-CK2	20.5 ± 2.1	-1.19 ± 1.05	Uniform, Single Capsules	5'ATACAACCCAAACT ccacau(propyl)3'
RNAi-CK2 (no propyl)	18.9 ± 1.7	-12.25 ± 7.4	Uniform, Single Capsules	5'ATACAACCCAAA CTccacau3'
RNAi-F7	21.9 ± 2.3	1.49 ± 0.99	Uniform, Single Capsules	5'GUAAGACTTGAG Augaucc(propyl)3'
Erythritol	22.8 ± 1.9	1.07 ± 0.67	Uniform, Single Capsules	N/A

<sup>a</sup>Mean ± SD of the average elliptical diameter determined from TEM micrographs measuring at least 15 nanocapsules.

<sup>b</sup>Average surface charge measured by dynamic light scattering across a 20 volt potential in 1 mM KCl at 2 µg/ml. Data shown is the mean ± SD of 3 independent measurements.

<sup>c</sup>Morphology of all nanocapsules determined by visual AFM and TEM observation.

<sup>d</sup>Sense strand sequence. Upper case letters represent phosphodiester DNA chemistry; small case letters represent 2' O-methyl RNA chemistry.