

# Stability of intramolecular quadruplexes: sequence effects in the central loop

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## Supplementary information:

### ***Figure S1: Example of raw melting profiles.***

A & B) Absorbance at 295 nm vs temperature in sodium (**A**) and potassium (**B**). Baselines chosen for  $T_m$  determination and van't Hoff analysis are also shown.  
C & D) Van't Hoff analysis of the corresponding data in sodium (**C**) and potassium (**D**).

### ***Figure S2: Non denaturing gel electrophoresis of all 36 sequences analyzed by UV-shadow (in sodium).***

Each strand was incubated at a strand concentration of 30  $\mu$ M in a 100 mM NaCl 10 mM Tris/HCl pH 7.5 buffer. The gel was prepared at 15% acrylamide supplemented with 20mM of NaCl and run at 20°C. Size markers are present on the left (the 3 intense blurry bands correspond to the dyes used to monitor migration).

### ***Figure S3: Effects of various parameters on $T_m$ .***

Results are shown for sodium (blue) or potassium (red) conditions. Error bars correspond to S.D.

### ***Figure S4: Effects of various parameters on $\Delta G^\circ$ .***

Results are shown for sodium (blue) or potassium (red) conditions. Error bars correspond to S.D.

### ***Figure S5: DSC data.***

Raw profiles are shown for the 3 sequences in sodium (left) or potassium (right).

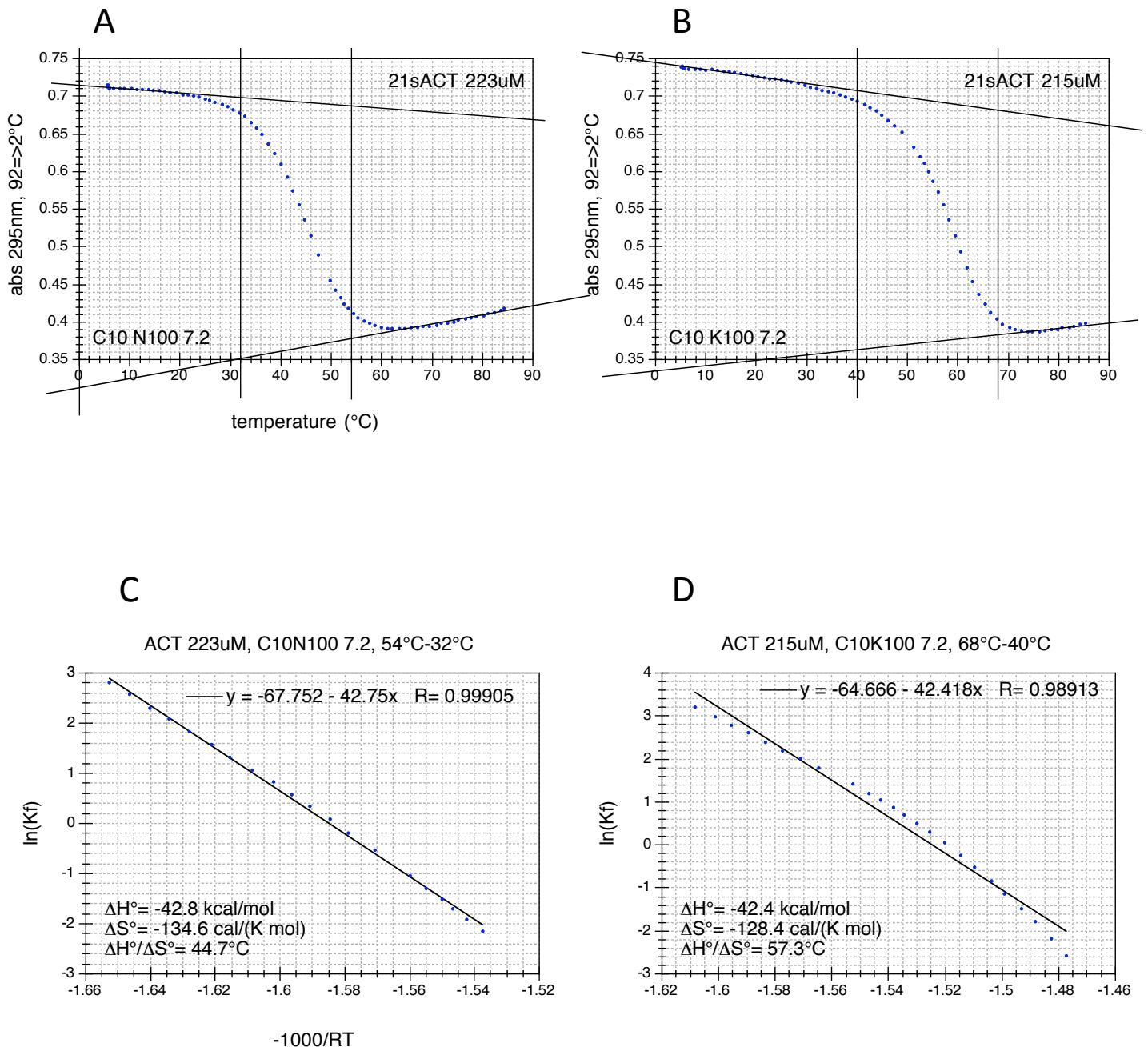


Figure S1

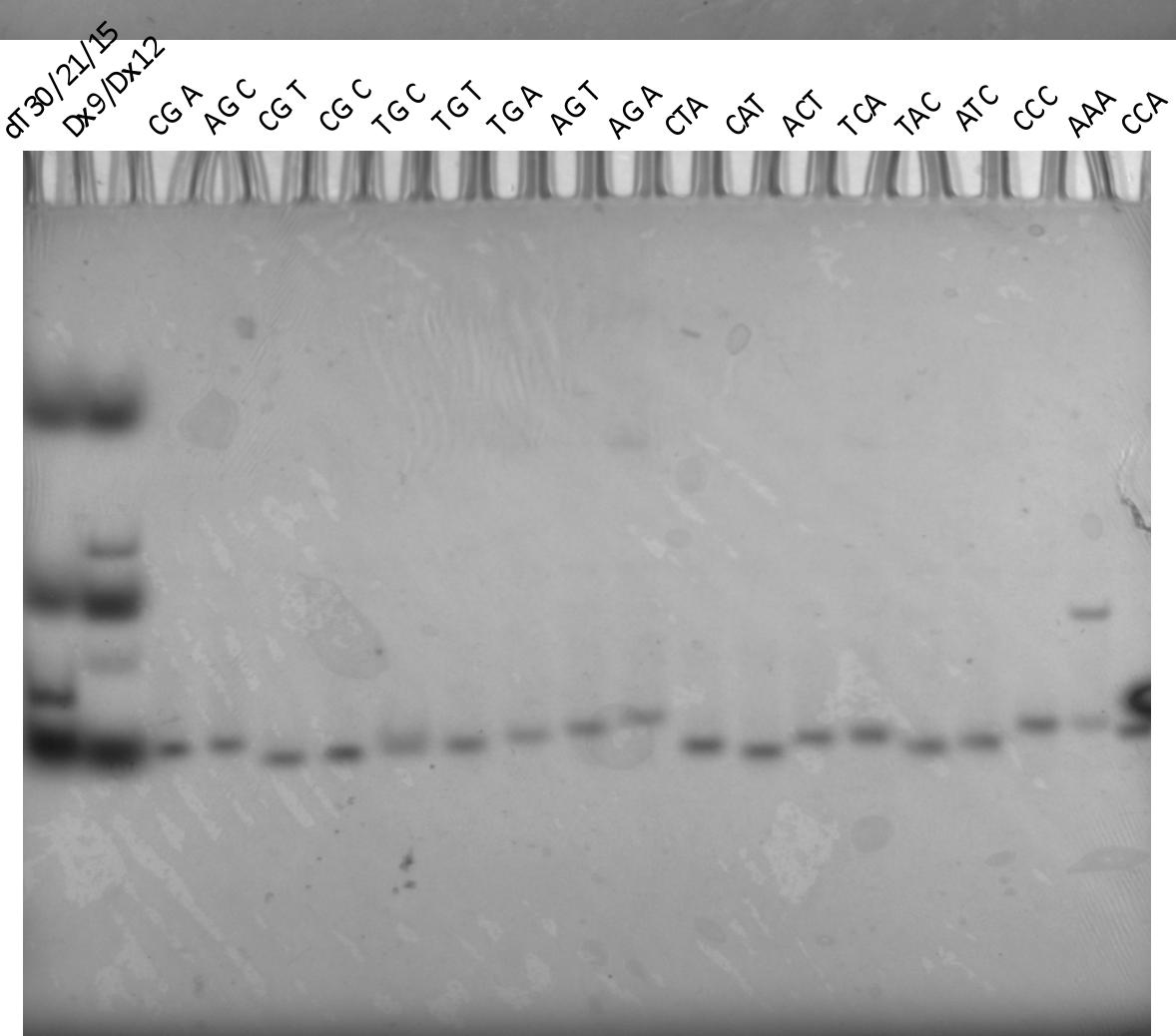
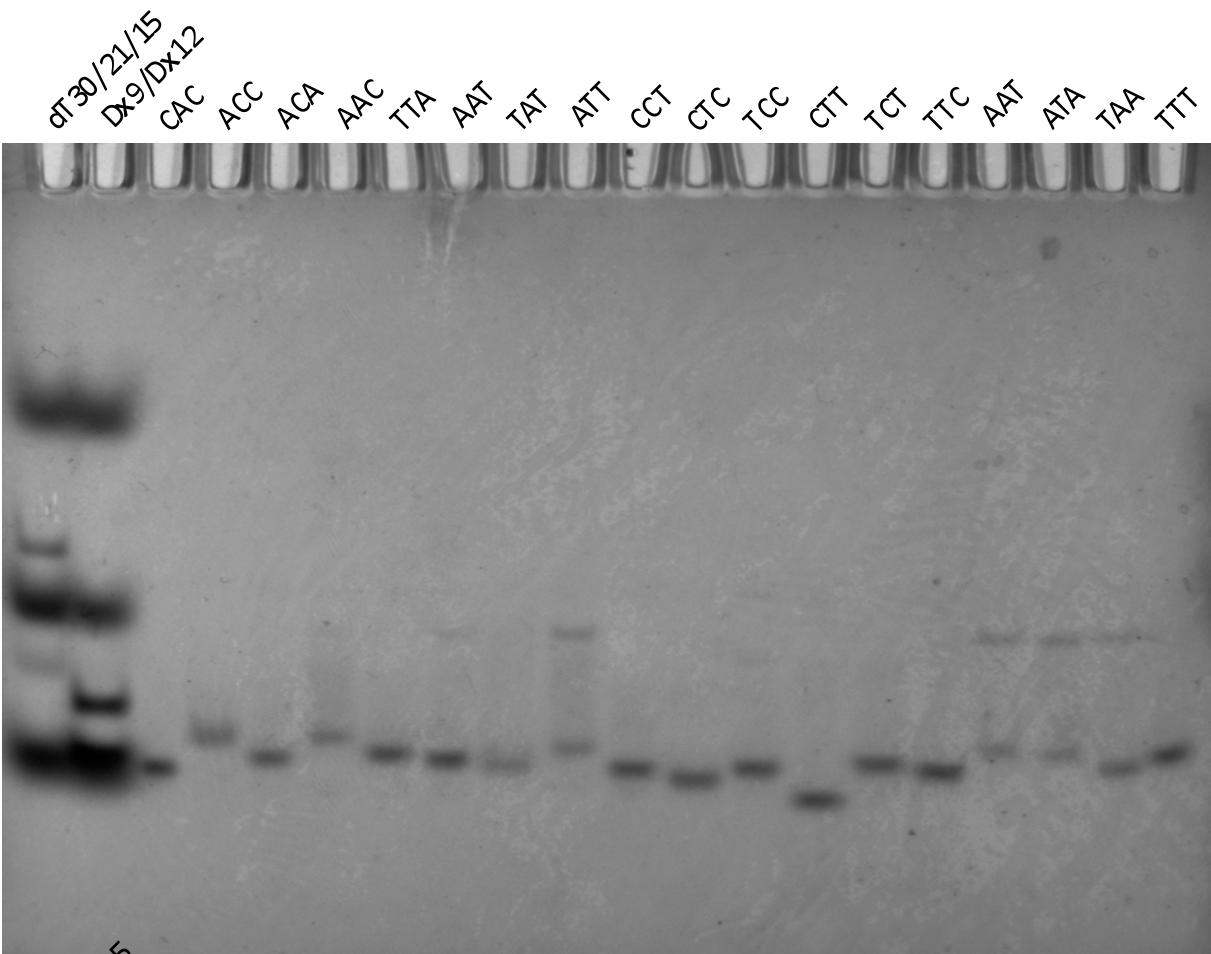
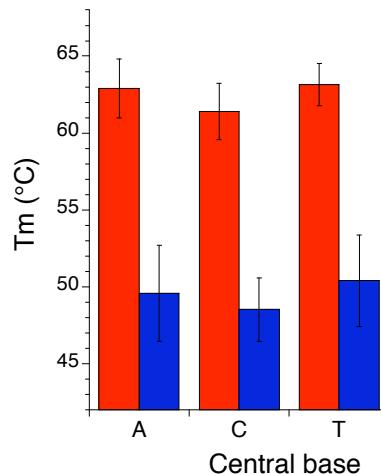
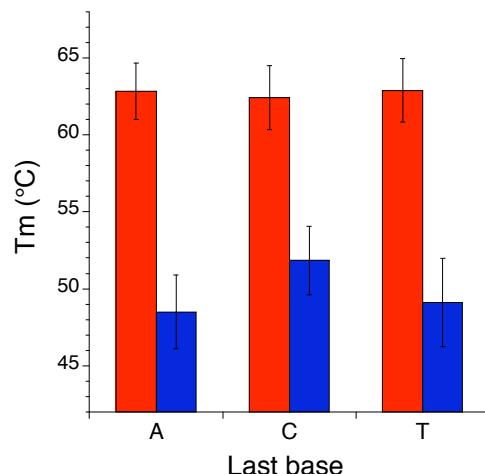
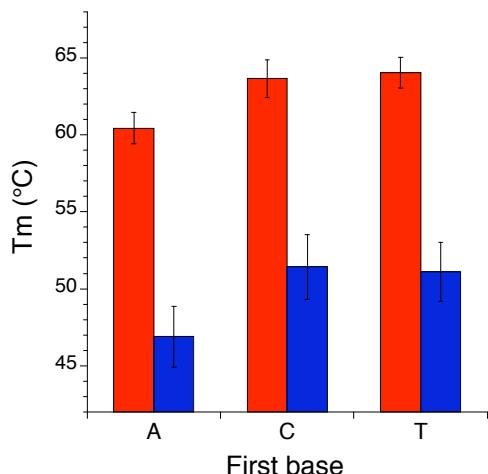
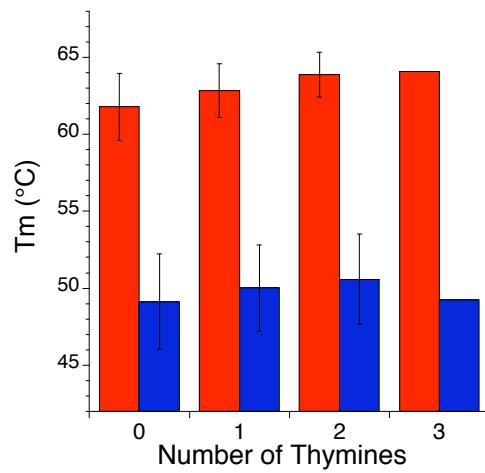
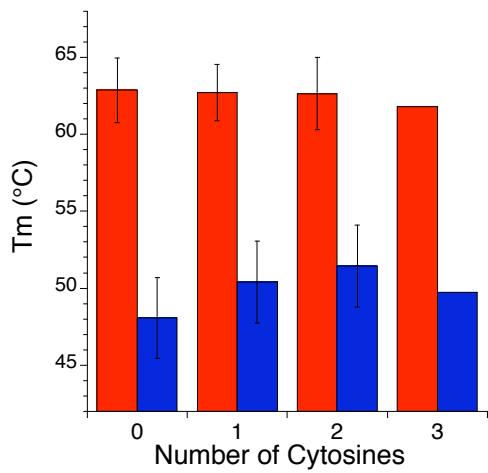
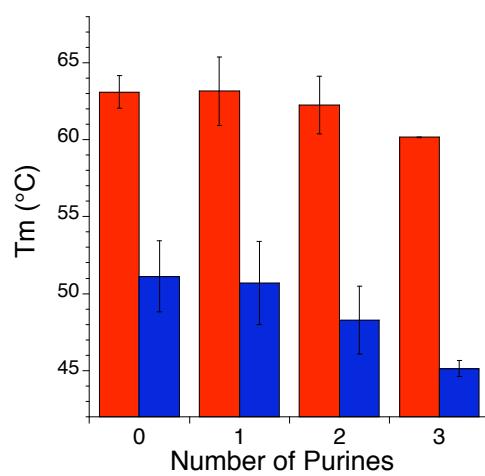
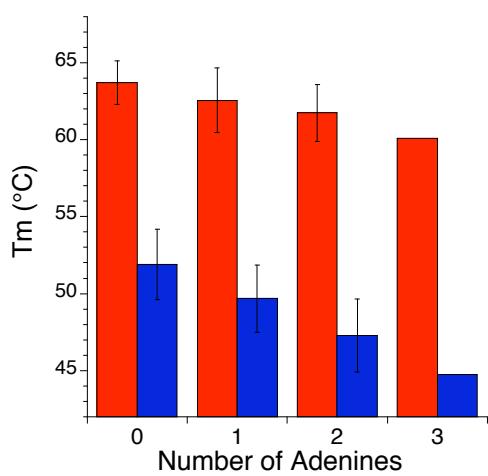
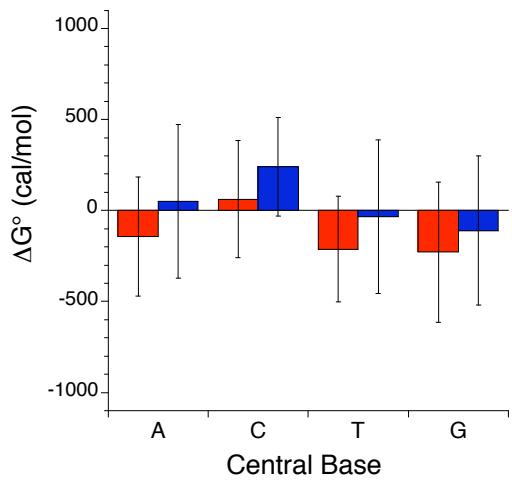
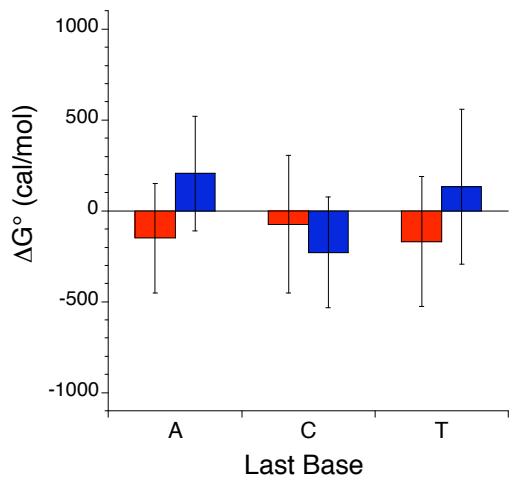
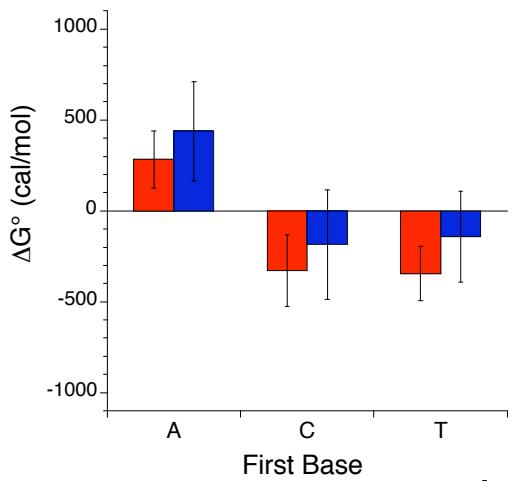
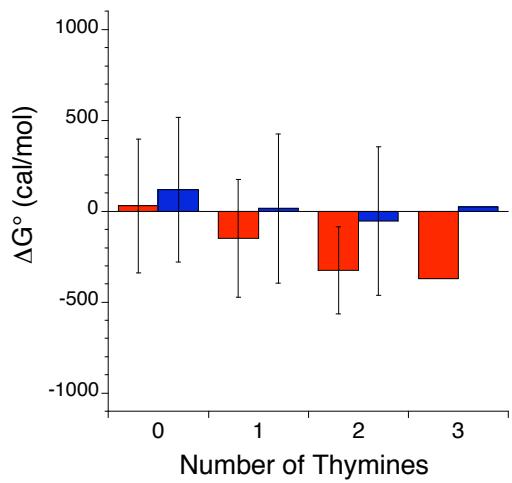
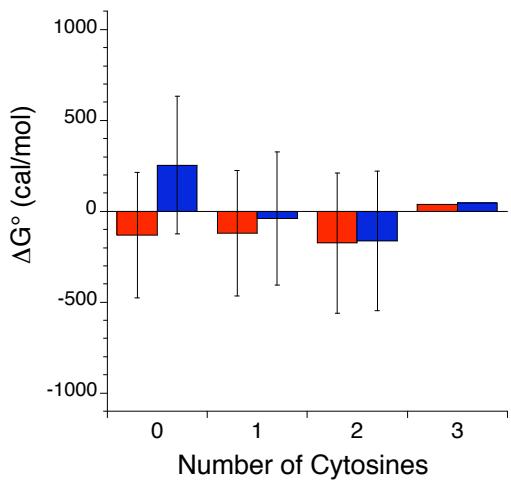
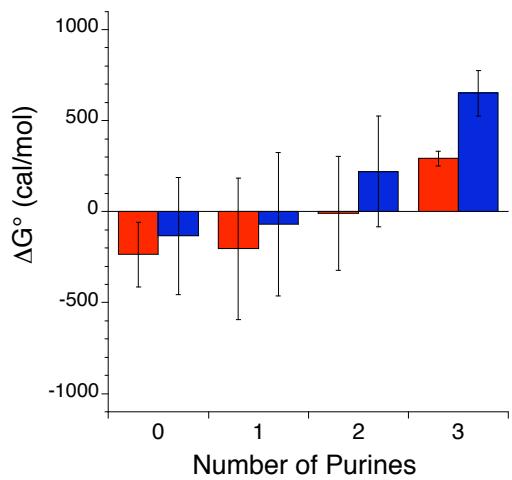
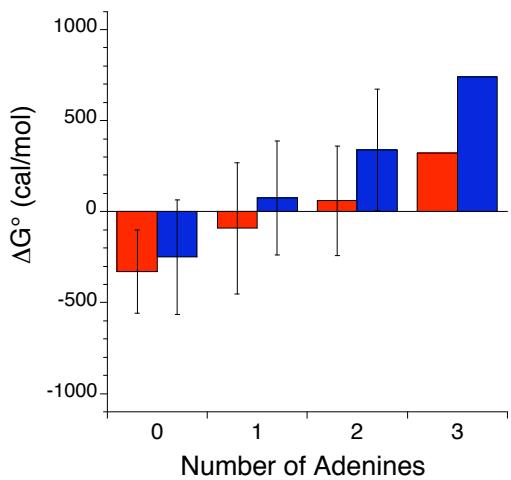


Figure S2





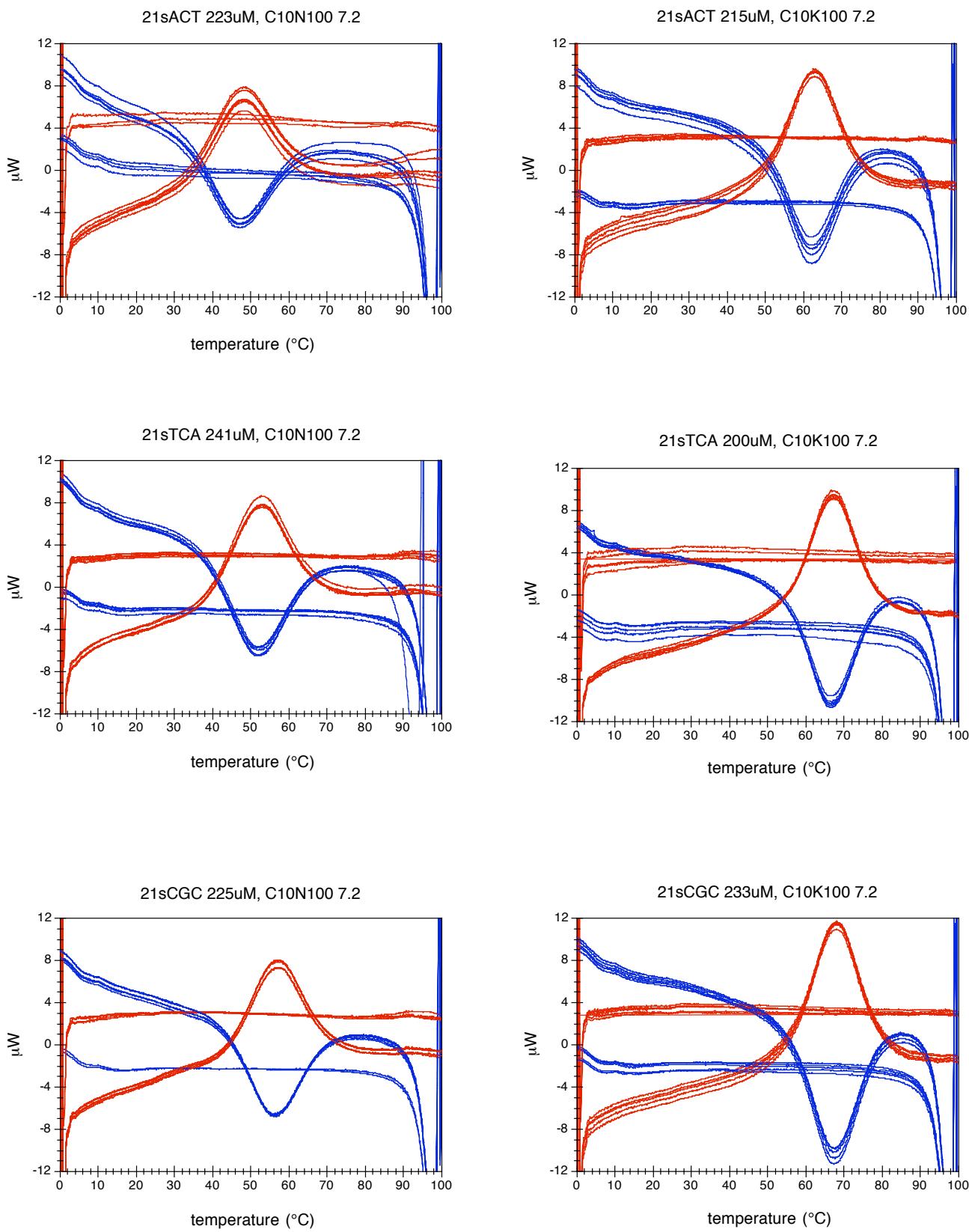


Figure S5