Table 2S. The *Tm* of DNA in complex with protein.

	Tm of the DNA (°C)
$(GCGATCGC)_2$	34.2
Wt-Sac7d-DNA	64.2
M29F-DNA	48.6
V26F/M29F-DNA	58.5

Thermal denaturation of DNA $(GCGATCGC)_2$ (80 μM bases) alone and saturated with 400 μM protein monitored by the change in UV absorbance at 260 nm in pH 7.4, 20mM Tris-Cl buffer. In the presence of protein, the DNA melting temperature was increased ~30 ºC above that of DNA alone.