

Supporting Information for:

DNA Base-Pair Flipping with Fluorescent Perylenediimide Pincers

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Table containing MALDI data (Table S1), UV-Vis melting curves of **PP**, **G1**, **GA** and **G2** (Figure S1a), UV-Vis melting curves of **A1**, **A2**, **A3** and **A4** (Figure S1b), Temperature dependence of the intensity of the long-wavelength CD band for conjugates of **PP**, **A1-4** (Figure S2), Temperature dependence of the excimer fluorescence intensity for conjugates **PP**, **A1-4** (Figure S3).

Table S1. m/z values for oligonucleotides determined by MALD-TOF mass spectrometry.

	m/z Calculated	m/z Determined
PP	6171.46	6177.30
A1	6788.86	6789.30
G1	6789.85	6790.51
A2	7406.26	7412.40
GA	7407.25	7409.88
G2	7408.24	7411.21
A3	8023.66	8030.70
A4	8641.06	8644.20

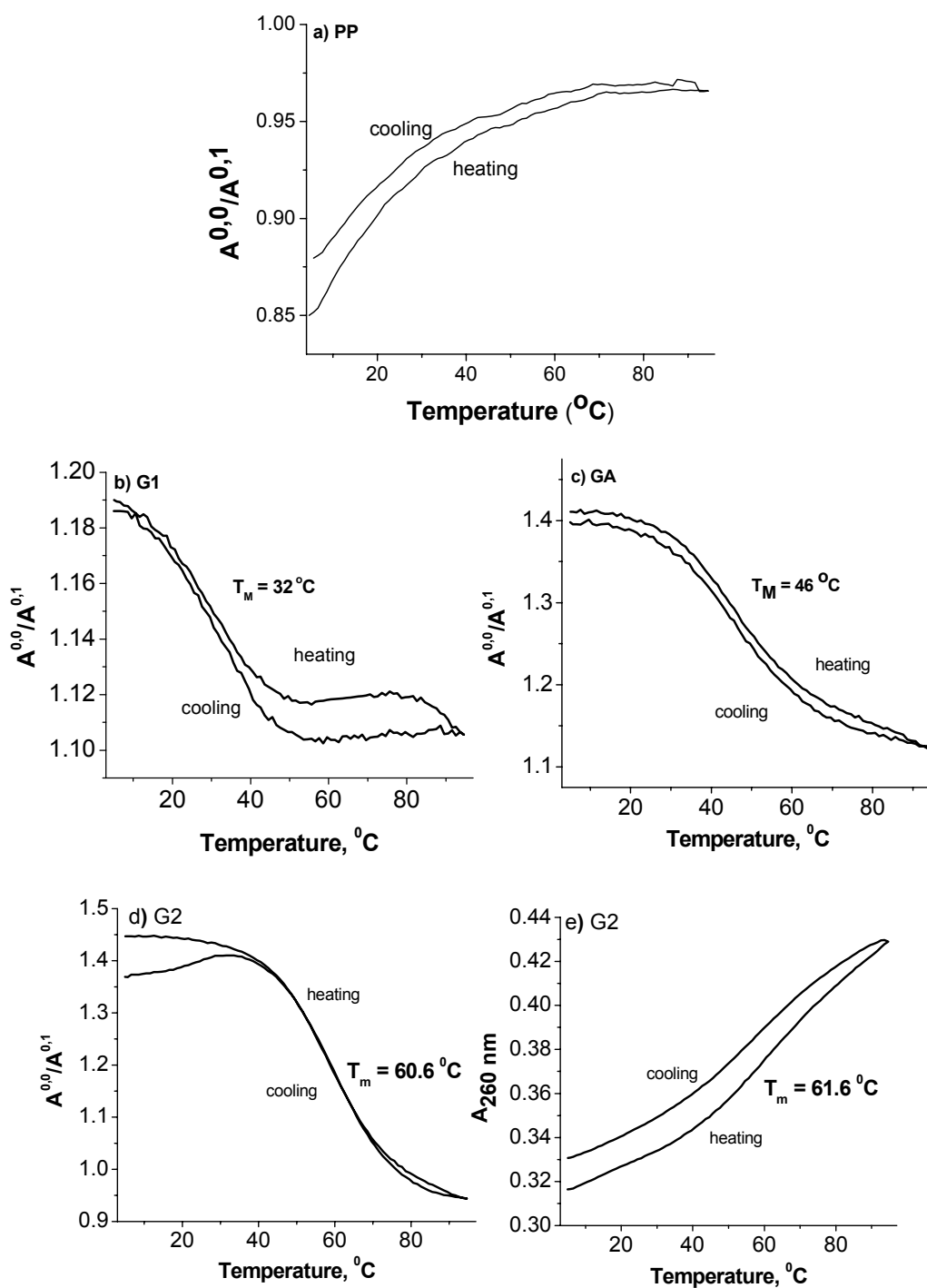


Figure S1a. UV/Vis melting curves monitored at the ratio $A^{0,0}/A^{0,1}$ for the PDI conjugate a) **PP**; b) **G1**; c) **GA** and d) **G2** in TE buffer pH = 7.2 (20 mM Tris, 2 mM EDTA) and NaCl (100 mM) and e) as monitored heating at 260 nm **G2** under similar conditions.

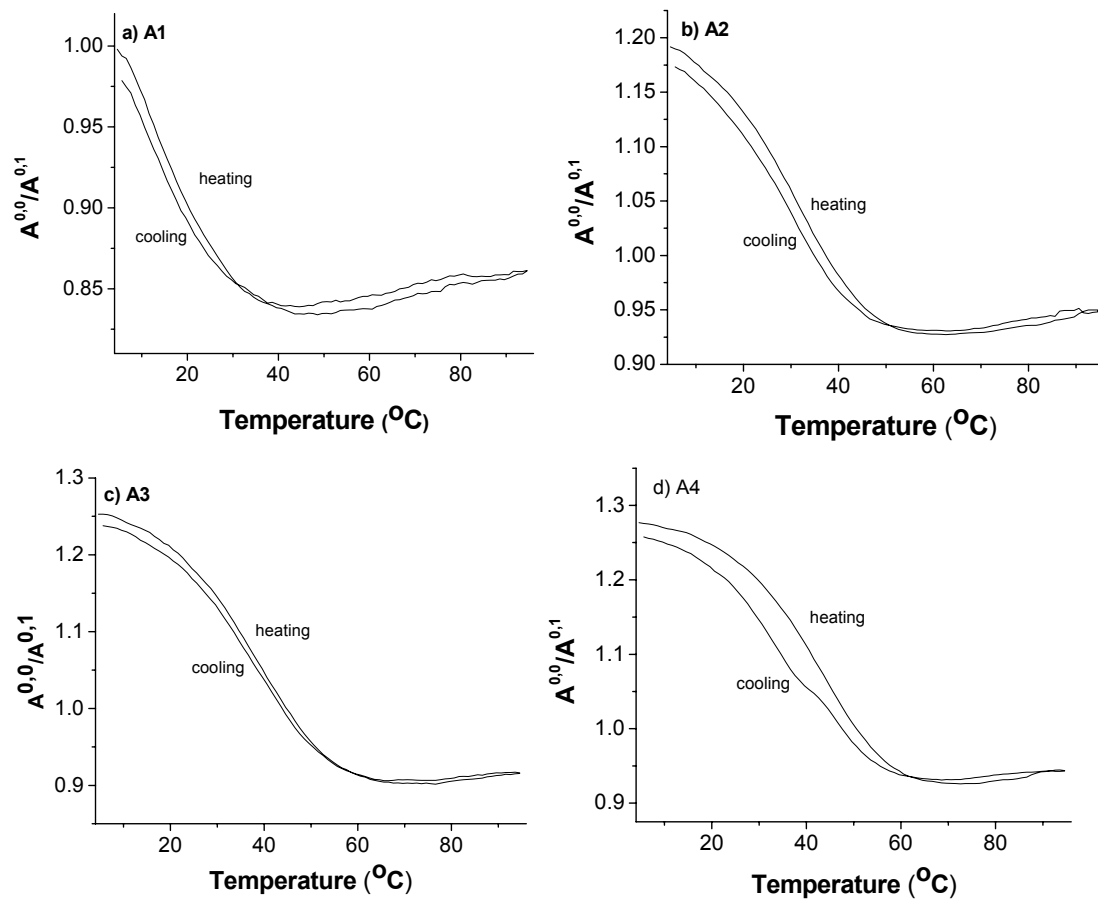


Figure S1b. UV/Vis melting curves monitored at the ratio $A^{0.0}/A^{0.1}$ for the PDI conjugate a) A1; b) A2; c) A3 and d) A4 in TE buffer pH = 7.2 (20 mM Tris, 2 mM EDTA) and NaCl (100 mM).

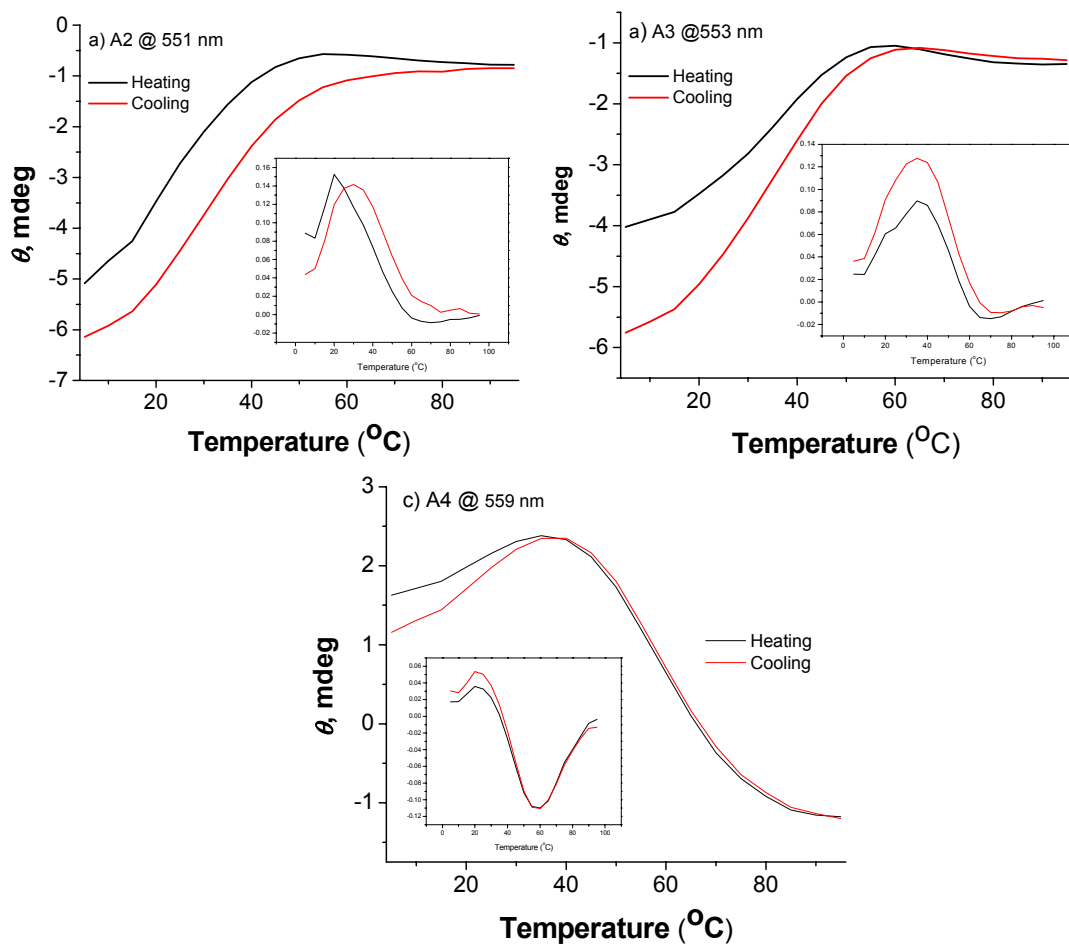


Figure S2. Temperature dependence of the intensity of the long-wavelength CD band for conjugates a) **A2**, b) **A3** and c) **A4** in TE buffer pH = 7.2 (20 mM Tris, 2 mM EDTA) and NaCl (100 mM). Derivative curves are shown as insets.

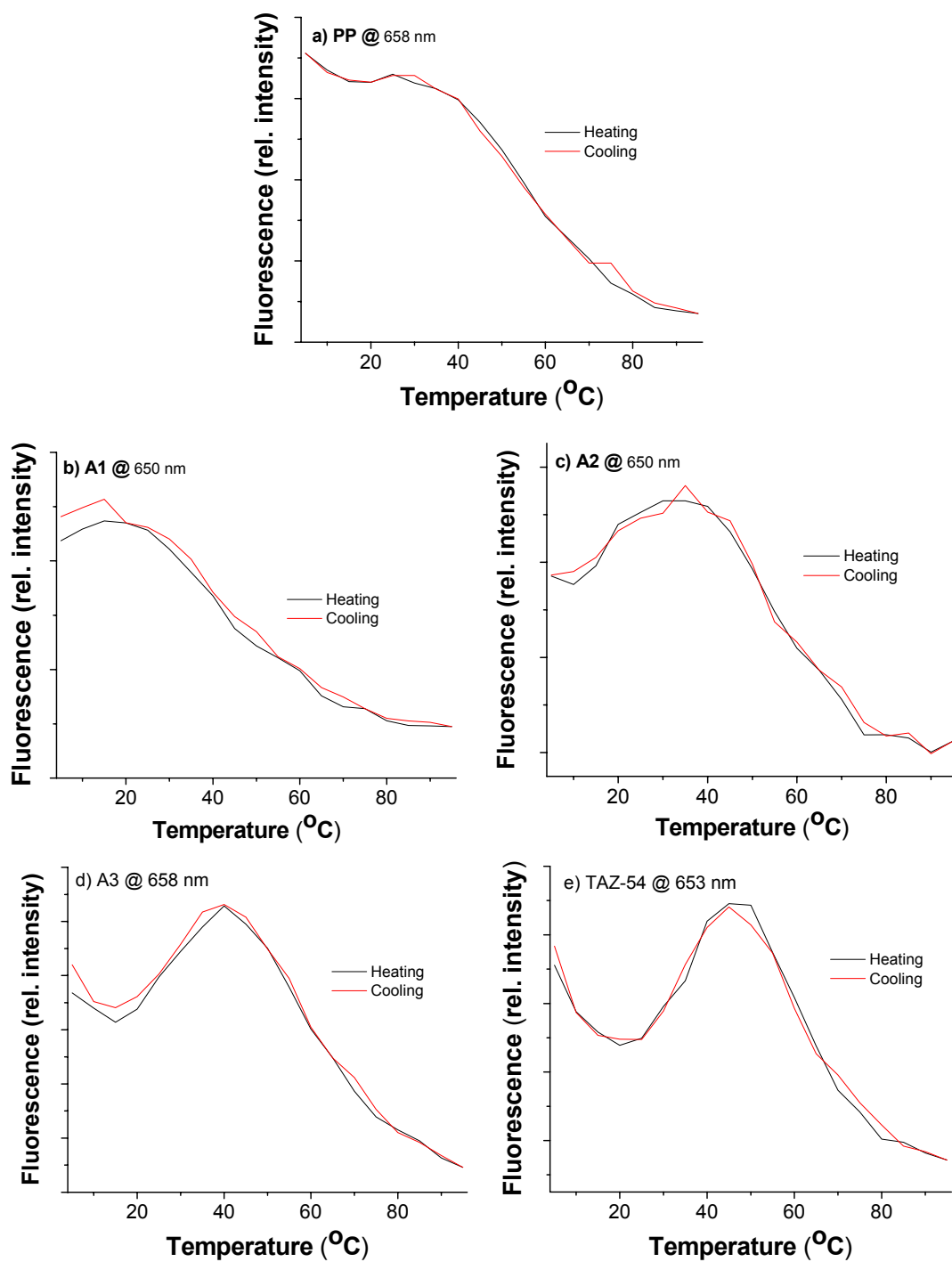


Figure S3. Temperature dependence of the excimer fluorescence intensity for conjugates a) PP; b) A1; c) A2; d) A3 and d) A4 in TE buffer pH = 7.2 (20 mM Tris, 2 mM EDTA) and NaCl (100 mM).