

S.F 1: UV and CD melting profile of 1.0μ M 25R*R•Y from 20 to 90°C at 260nm. Represent melting of the 19R TFO from 25RYduplex while the second transition at higher value represents the dissociation of the duplex to the single strands.



S.F 2: FTIR spectra of 25 RY duplex, TFO (19R) and 25R*R•Y triplex solution in 10mM Na-cacodylate buffer containing 120mM NaCl and 10 mM MgCl at pH 7.0 in the region of 1800 to 700 cm.



S.F 3: Representative ITC profile for 5µM 25RY interaction with 100µM TFO solution in 10mM Nacacodylate buffer containing 120mM NaCl and 10 mM MgCl at pH 7.0 at 25°C. The small spikes in the ITC profile (upper panel) represents heat of dilution correctioned by injecting the ligands into 25RY duplex-free buffer under identical experimental conditions and was subtracted from corresponding heat of the ligand–duplex complexation.