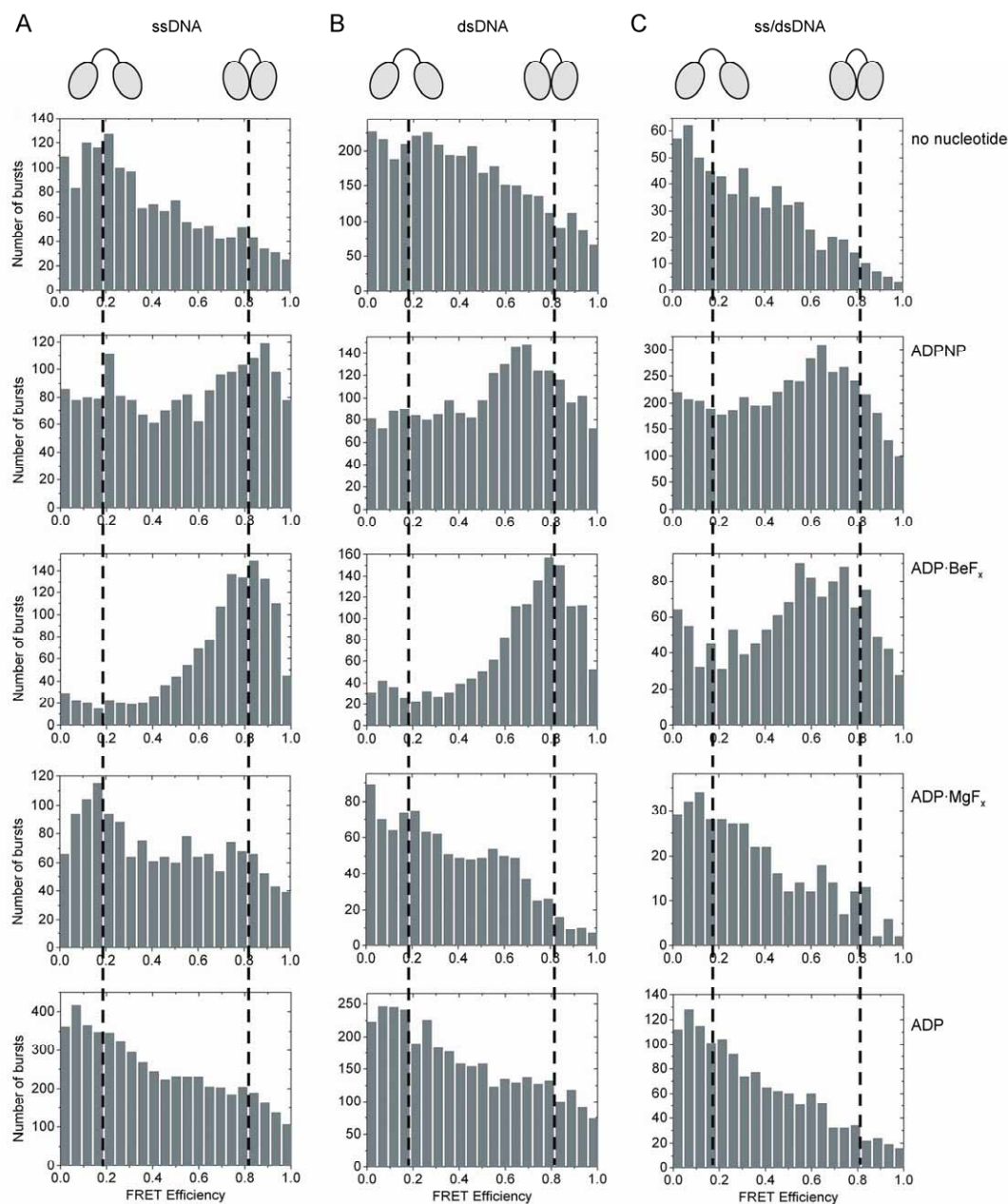


Supplementary Figure del Toro Duany & Klostermeier



Conformational changes in the helicase-like domain in the presence of DNA substrates

A: FRET histograms for rgyr_hel S169C/S341C in the presence of ssDNA, all nucleotide states (no nucleotide, ADPNP, ADP·BeF_x, ADP·MgF_x, ADP, from top to bottom).

B: FRET histograms for rgyr_hel S169C/S341C in the presence of dsDNA, all nucleotide states (no nucleotide, ADPNP, ADP·BeF_x, ADP·MgF_x, ADP, from top to bottom).

C: FRET histograms for rgyr_hel S169C/S341C in the presence of ss/dsDNA junction, all nucleotide states (no nucleotide, ADPNP, ADP·BeF_x, ADP·MgF_x, ADP, from top to bottom).

The DNA concentration was 0.5 mM. The nucleotide concentrations were 1 mM (ADP·BeF_x, ADP·MgF_x, ADP), and 5 mM (ADPNP). The FRET efficiencies for open (~0.2) and closed conformations (~0.8) are indicated by vertical lines, and the conformations are depicted as cartoons.