



**S5 Fig. Replacements of essential residues affects DSF-triggered RpfC conformational change.** Limited proteolysis was used to analyze interactions between DSF and RpfC liposomes with corresponding replacement. SDS-PAGE of samples and molecular weight analysis revealed DSF-dependent changes in the trypsinolysis pattern, as indicated by asterisks. Replacements in RpfC are: (A) S3A; (B) D17A; (C) S18A; and (D) E19A. Each lane contains 0.32  $\mu$ g RpfC liposome and 1.13 mM non-hydrolyzable ATP analog adenosine 5' ( $\beta,\gamma$ -imido) triphosphate (AMP-PNP) as a mimic for nucleotide binding. Each experiment was independently repeated three times and a representative experiment is shown.