



**S4 Fig: Validation of Alt and ModA ARTs inactivation via Alt E577A and ModA E165A mutations. (A-B)** Stain-free scan (TCE stain, loading control, left) and Western blot analysis (pan-ADPr antibody for ADP-ribosylation detection, right) to identify ADP-ribosylation events by ARTs and their mutants. Both mutants demonstrate complete abolishment of ADP-ribosylation.  $n = 3$  biological replicates, a representative example is shown.