

Figure S4. AdeB Protomer Classification. (A) Example extrusion tunnel measurements for resting (top left), access* (top right), binding (bottom left) and extrusion (bottom right) states. In the resting (AdeB-Et-II chain A), access* (AdeB-Et-III chain A) and binding (AdeB-Et-I chain C) states, the extrusion tunnel is closed with distances of 9.19 Å, 9.38 Å and 9.40 Å, respectively, between the Cα atoms of Q125 and Y749. In the extrusion protomer (AdeB-Et-I chain B), the extrusion tunnel is open with a measured distance of 14.01 Å between Q125 and Y749 allowing export of ligand. (B) Proton-relay network measurements. In the resting protomer (AdeB-Et-II chain A, top left), the NZ atom of K931 is within hydrogen bonding distance of the O atoms of N932 and T968. In the access* protomer (AdeB-Et-III chain A, top right), K931 swings away from N932 and T968 to interact with D407. In the binding protomer (AdeB-Et-I chain C, bottom left), NZ of K931 interacts with the O atoms of D407 and D408. In the extrusion protomer (AdeB-II chain B, bottom right), K931 swings back to interact with N932 and T968, where NZ of K931 is within hydrogen bonding distance NZ of K931 is within hydrogen bonding distance of C atoms of D407 and D408. In the extrusion protomer (AdeB-II chain B, bottom right), K931 swings back to interact with N932 and T968, where NZ of K931 is within hydrogen bonding distance of C atoms of D407 and D408.