

Figure S1

Schematic representation of APGM catalytic mechanism. Cap is colored in cyan and core domain in blue. Abbreviations: G1P, α -glucose 1-phosphate; G6P, glucose 6-phosphate; G16BP, α -glucose 1,6-bisphosphate.

- (1) Enyzme activation by phosphorylation of Asp8. (2-3) Substrate binding with closure of cap domain over the core domain. (4) Formation of G16BP intermediate. (5) Inversion of intermediate conformation, likely by its release from the active site and re-binding.
- (6) Release of final product and regeneration of activated form of the enzyme.