

**Supplementary Figure S2. Schematic representation of the CsGTP4 characteristics. (A)** The predicted topology of the full-length CsGTP4 (1-496 aa.) showed 12 transmembrane segments with the intracellular facing short N-terminus (1-6 aa.) and long C-terminus (448-496 aa.) facing the intracellular region. The number of transmembrane domain and amino acid position showed by parenthesis with residue number. **(B)** CsGTP4 homology base model on solute carrier family 2, facilitated glucose transporter member 3 (PDB ID: 7spt.1.A) structure. The homology base model was constructed from Cys 3 (N-terminus, Blue color) to Ile 466 (C-terminus, Red color). The horizontal bars represent the expected lipid bilayer for boundaries of the 12 transmembrane domains. **(C)** Phylogenetic tree of putative glucose transporter in flukes (NCBI accession number shown in parenthesis) constructed using MEGA11 by ML method shows distance of relationship.