

File name: Supplementary Movie 1

Description: The top two SERINC5 AlphaFold models suggest a possible alternating access structural rearrangement for lipid flipping. The movie shows the view from within the lipid bilayer of the conformations predicted by the top two models. The transmembrane α -helices are colored as in **Fig. 1c-e**.

File name: Supplementary Movie 2

Description: The top two SERINC5 AlphaFold models suggest a possible alternating access structural rearrangement for lipid flipping. The movie shows the extracellular view of the conformations predicted by the top two models. The transmembrane α -helices are colored as in **Fig. 1c-e**.