

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: *MD simulation movie of Ion Transport via **TBP2** Gated Channel*

The movie provided along with the supporting information depicts the MD simulation representing passage of a sodium ion through the supramolecular assembly of **TBP2** molecules, embedded inside a POPC lipid membrane. The lipid molecules are not shown for clarity of representation. The sodium ion enters the ion channel; moves between successive **TBP2** molecules stacked upon each other and eventually get released.