



Supplementary Materials

Video S1. Opening of chain D. Schematic representation of *SoPIP2*;1 tetrameric assembly extracted from experimental setup 1 simulation from time $t_{start} = 500$ nanoseconds to time $t_{end} = 600$ nanoseconds. Each monomer is colored differently : in orange, chain A; in purple, chain B; in gray, chain C and in blue, chain D. Side chains of residues phosphorylated serine 188, arginine 187 and arginine 190 are represented. For chain D (in blue), we can see the establishment of salt bridges between phosphorylated serine 188 and arginine 187 first and then between phosphorylated serine 188 and arginine 190.