

File name: Supplementary Movie 1

Description: NKCC1 conformational changes. Four views of a morph showing the transition between NKCC1 outward-facing and inward facing structures. The morph shows the transition from the outwardfacing structure of NKCC_{iii} to the inward-facing structure (by homology to PDB-ID: 6NPL) and back outward. TM4,5 deep olive; TM1,6 orange; TM3 green; TM8 marine; TM9,10 blue; TM11,12 violet purple; ICL1 yellow; with gating residues R307, E389, D510, and K624 highlighted in red. K⁺ and Cl⁻ ions are colored purple and green, respectively.

File name: Supplementary Movie 2

Description: LeuT NKCC1 comparison. Comparing the transport conformational change in morphs of LeuT and NKCC1. The morphs show the transition from the outward-facing to inward-facing structures and back outward, for LeuT (PDB-IDs: 3TT3,3TT1) and NKCC1 (as in Movie 1). The “rocking bundle” consisting of TM1,2,6,7 is colored red; K⁺ and Cl⁻ ions are colored purple and green respectively.