

Lam et al., <http://www.jgp.org/cgi/content/full/jgp.201511431/DC1>

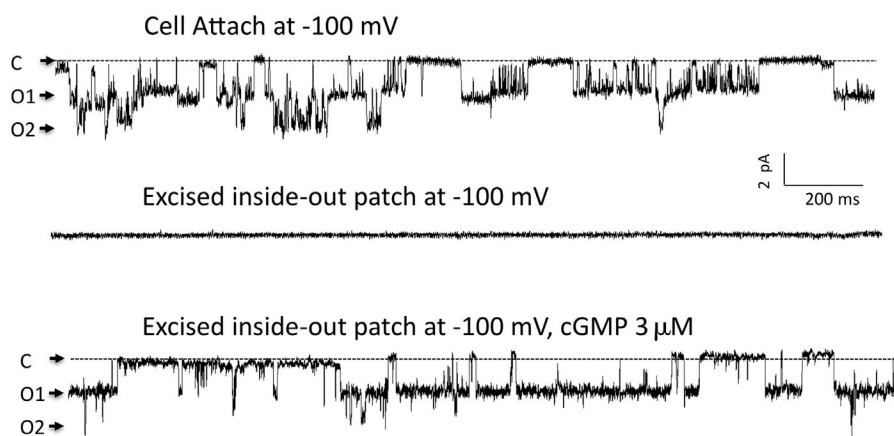
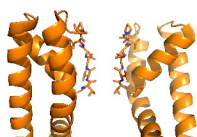


Figure S1. Sample traces of single-channel recordings of *Drosophila* CNGA expressed in HEK cell. All three traces are from a single patch. The top trace is recorded in cell-attached configuration. The patch contained multiple channels, and the endogenous cytosolic cyclic nucleotides likely allowed some channel activities. For the analysis of single-channel conductance, only the part of the trace with single-channel opening was used to generate the histogram. The middle trace is recorded from the excised inside-out patch in which all cytosolic cyclic nucleotides were washed out and no channel activity was observed. The bottom trace is recorded from the same excised inside-out patch with $3 \mu\text{M}$ cGMP added in the bath solution, which shows channel activities triggered by cGMP. The addition of cGMP in a high concentration resulted in macroscopic currents on the same patch.



Video 1. Overall structure of NaK2CNG and morph from the filter structure of NaK2CNG-E to that of NaK2CNG-Dm.