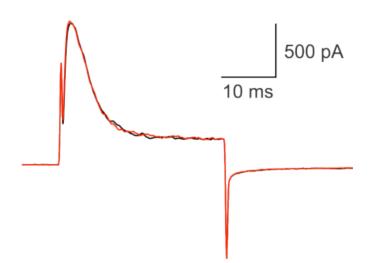


Supplementary Figure S1 Functional properties of double cysteine mutants. (a) Current traces in response to 30 ms depolarizations to +60 mV from a holding potential of -80 mV. In each case, the two consecutive traces were recorded ~1 min after patch excision. (b) Pictures of HEK cells expressing the intracellular cysteine less WT Shaker fused at the C-terminus with GFP (right) and the 2C-470C channel fusion construct (left). Similar results were observed in four independent parallel transfections with these two constructs.



Supplementary Figure S2 Functional properties of A2C mutant channels. The current traces shown were acquired in response to 30 ms depolarizations to +60 mV from a holding potential of -80 mV. Both current traces were recorded ~1 min after patch excision.