

Figure S1. A, homology model of TASK-3 potassium channel and docking predictions for A1899. Top pose for A1899 within TASK-3 pore. Residues Leu-122 (colored red) and Leu-239 (colored purple) are shown within TASK-3 subunit A (colored green) and subunit B (colored blue).

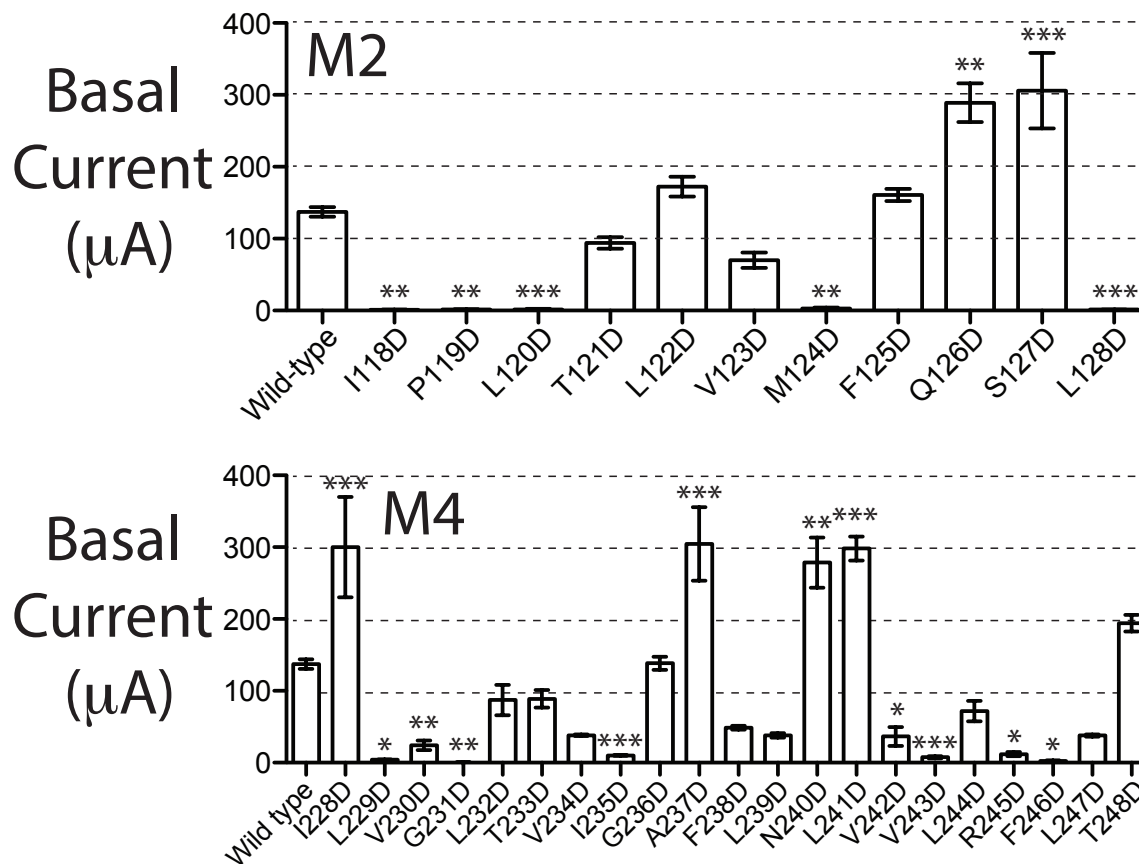


Figure S2. Effect of aspartate scanning mutagenesis in the TASK-3 pore on basal potassium current levels. Data (mean \pm SEM; n = at least 3, each) were derived from Ussing chamber potassium current recordings using Fischer rat thyroid cell monolayers transiently expressing each of the various TASK-3 mutant channels. M2, second transmembrane domain; M4, fourth transmembrane domain. Asterisks (***, **, and *) indicate significance ($P < 0.001$, $P < 0.01$, and $P < 0.05$, respectively) relative to wild-type TASK-3.