



Suppl. Fig. 2. Phenotypic characterization of macroscopic and single-channel currents evoked by $cbv1+\beta(1-4)$ subunit expression in *Xenopus laevis* oocytes. A. Representative current records from I/O macropatches expressing different BK channel subunit combinations ($cbv1\pm\beta 1$, $\beta 2$, or $\beta 4$). Macroscopic currents were evoked by 200 ms-long, 10 mV depolarizing steps from -150 to $+70$ mV from a holding potential=0 mV. Red fitting lines underscore the different current activation/inactivation kinetics for each channel subunit combination. B. Original records of single BK channel activity showing that expression of $cbv1+\beta 3$ heteromers results in longer channel openings when compared to those from homomeric $cbv1$. $V_m=+40$ mV, free $[Ca^{2+}]_i=10$ μ M.