



Figure S1. Potentiation of the current of E166A_{CLC0} by intracellular Mg²⁺. (A) Nearly complete current block of E166A_{CLC0} by 10 mM CPA at -160 mV to ensure that the majority of the current in the recording patch was from the CLC-0 mutant. Horizontal dashed line indicates zero-current level. Inset shows the voltage protocol (from 0 mV to -160 mV) used to induced the current. (B) Representative traces showing the effect of 5 mM (upper panel) and 20 mM Mg²⁺ (lower panel) on the current of E166A_{CLC0} at +20 mV. Inset shows the voltage protocol (0 mV to +20 mV) used for the experiments. Dashed lines are the zero-current level. (C) Dose-dependent Mg²⁺ potentiation of the E166A_{CLC0} current (n = 3). The solid green line represents the Mg²⁺-dependent potentiation of WT_{16A}.