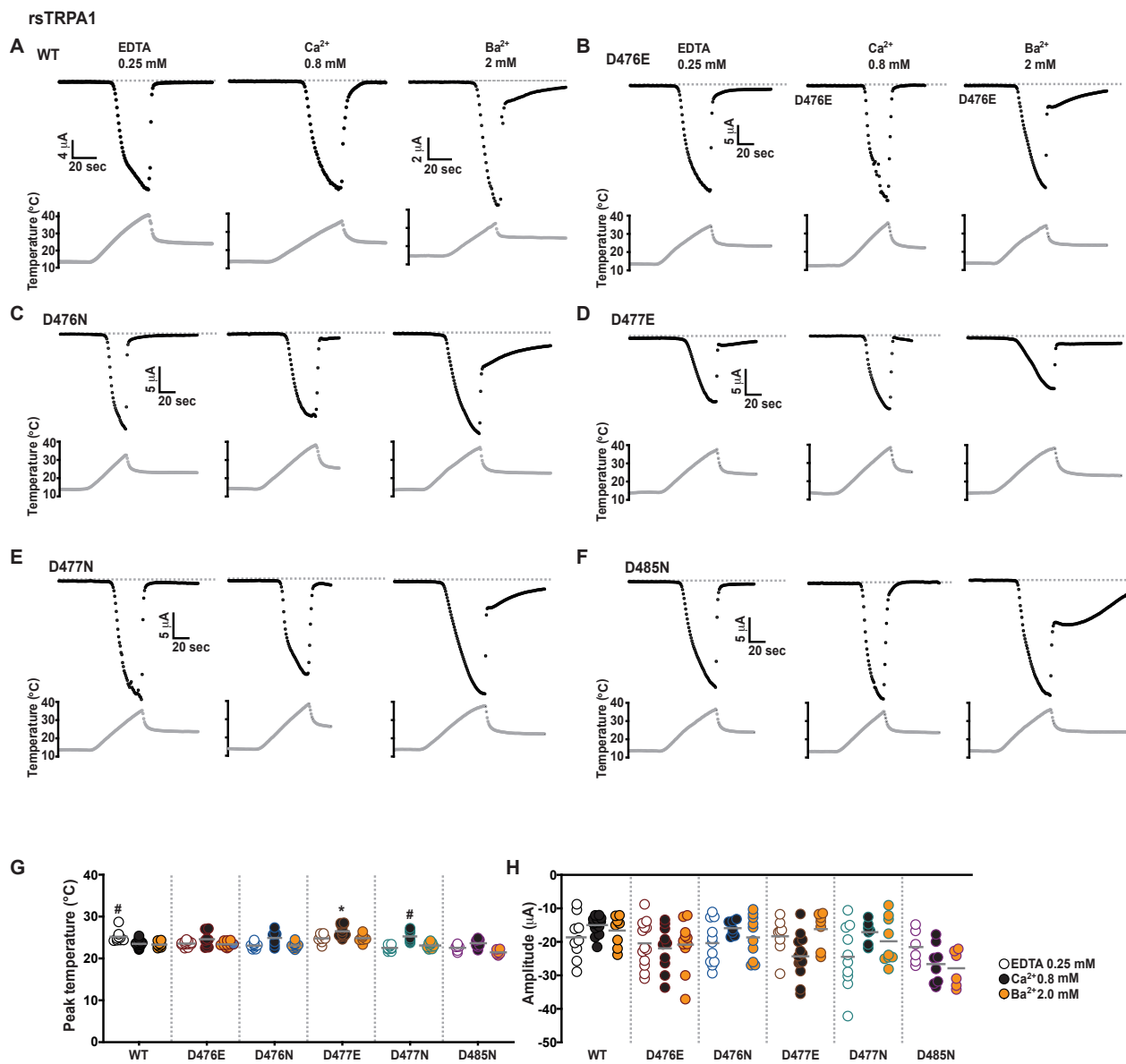


**Supplementary Fig. S1. Cooling-dependent deactivation of rsTRPA1 hindered by extracellular Ba<sup>2+</sup> and all Q10 data of rsTRPA1 plotted together.** (A) A representative temperature-dependent current recording with rsTRPA1 (left) and comparison of residual currents (middle) and time constants of slow deactivation after cooling (right). #*P* < 0.05, Dunn's test. (B) The LogQ10p data were dot-plotted all together with Ca<sup>2+</sup> (left) and with Ba<sup>2+</sup> (right).



**Supplementary Fig. S2. Supplementary traces and dot plots for Fig. 3.** (A-F) Representative temperature-dependent current recording with rsTRPA1 WT and variants. Extracellular cation conditions were indicated at the top of each column of panels. (G) Peak temperature dot plots of rsTRPA1 variants tested in Fig. 2. #*P* < 0.05, Dunn's test; \**P* < 0.05, Tukey's test. (H) Peak current amplitudes of experiments with rsTRPA1 variants.

