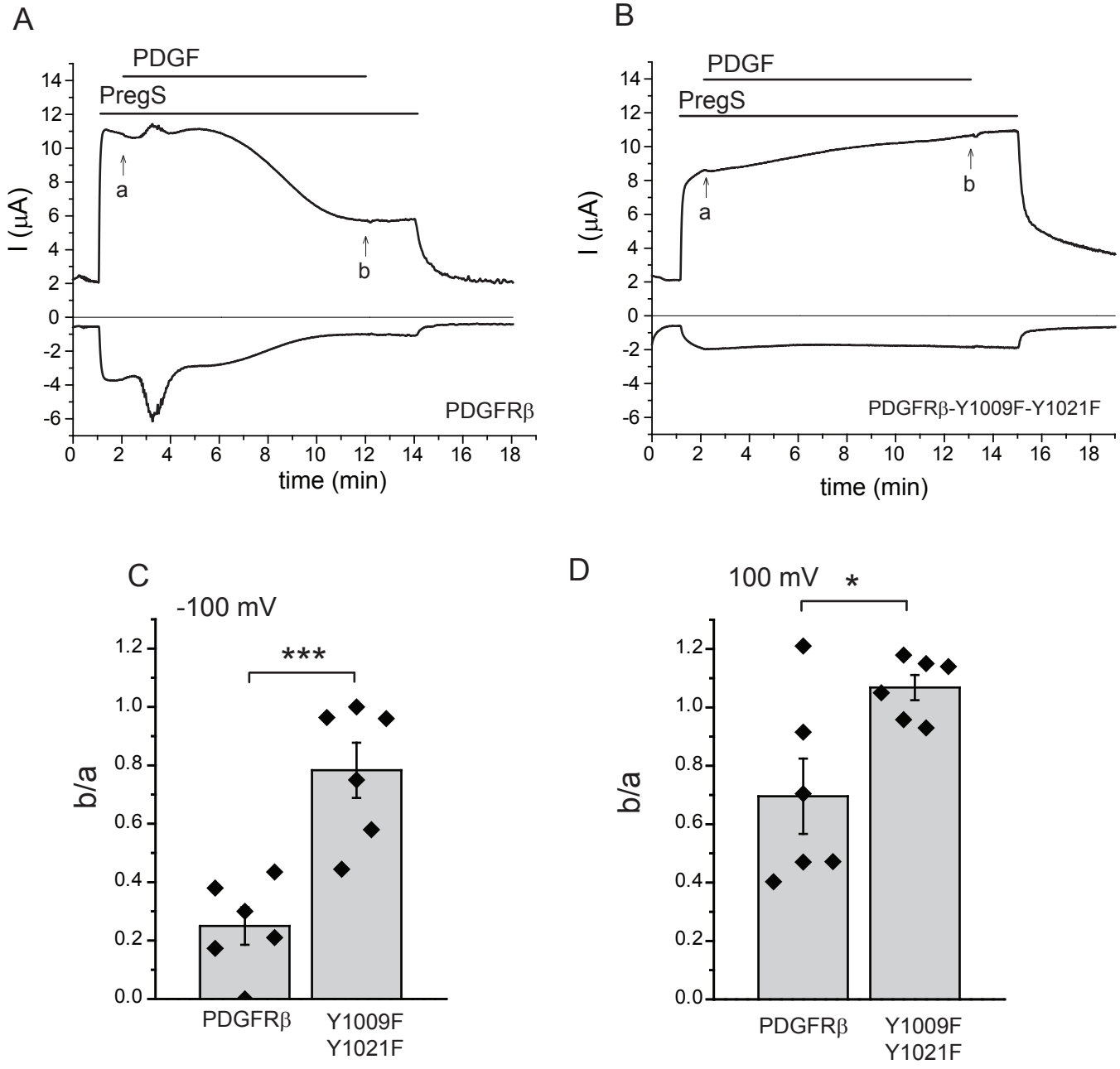

Figure 1 - figure supplement 3.

PLCγ activation by the PDGFRβ inhibits TRPM3 activity.

TEVC measurements were performed as described in Materials and Methods, in Xenopus oocytes injected with cRNA encoding hTRMP3 and either the wild-type PDGFRβ *(A)* or the Y1009F-Y1021F mutant *(B),* which does not activate PLCγ. Currents are plotted at 100 mV (upper trace) and -100 mV (lower trace); the applications of 50 ng/ml PDGF and 50 μM PregS are indicated by the horizontal lines. Note the development of the transient Ca^{2+}-activated Cl^- current indicating PLC activation in oocytes expressing the wild-type PDGFRβ, and the lack of it in the experiments with the Y1009F-Y1021F mutant. *(C)* Summary of the inhibition at -100 mV. *(D)* Summary of the inhibition at 100 mV (n=6 for both groups); b/a refers to the ratio between the current amplitudes at time points indicated by b and a in panels A and B. Statistical analysis was performed with two sample t-test *p=0.02, ***p=0.0008