

Supplementary Information

Supplementary Figure 1. Localization and currents of homo- and heteromeric TRPC1 and TRPC5 channels:

Time course of whole-cell voltage ramps (A) and current-voltage relationships (B) for TRPC1 and/or TRPC5 over-expressing HEK293 cells upon activation with 100 μ M Carbachol (Cch). (C) Time course of whole-cell current for TRPC1 overexpression upon treatment with thapsigargin (TG, 1 μ M). Intracellular $[Ca^{2+}]_i$ of Fura-2 loaded cells overexpressing TRPC1 are compared with a mock-transfection and monitored upon a stimulation with (D) carbachol (Cch, 100 μ M) or (E) thapsigargin (TG, 1 μ M) and subsequent addition of 2mM Ca^{2+} . Localization of a representative CFP-TRPC5 expressing cell (F, left image) as well as one over-expressing YFP-TRPC1 (F, right image) as well as for a co-expression of CFP-TRPC5 (G, image 1) with YFP-TRPC1 (G, image 3), and their overlay (G, image 2).

Supplementary Figure 1

