**Supplementary information**

**Regulation of transient receptor potential canonical 4 activity by phospholipase C-δ1**

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**Supplementary Figure S1.** Images of PLCδ1 and PLCδ3. HEK293 cells are overexpressed with EYFP-PLCδ1 or EYFP-PLCδ3.

**Supplementary Figure S2.** Fullblot images for Figure 1e. The area enclosed by the red dashed box is the cropping locations.

**Supplementary Figure S3.** Expression pattern of PLCδ1 mutant.

(a) Images of PLCδ1 mutants. HEK293 cells are overexpressed with YFP-PLCδ1 (K30A/K32A) or YFP-PLCδ1 (H311A). (b) Localizations of TRPC4 and PLCδ mutant. *Upper panel*: TRPC4 with PLCδ1 (K30A/K32A); *Lower panel*: TRPC4 with PLCδ1 (H311A); ECFP-tagged channel and EYFP-tagged PLCδ were co-expressed in HEK293 cells. The area enclosed by the red dashed box is the zoomed region indicated by arrow in overlay images