

## Supplementary material

### **Functional differences in agonist-induced plasma membrane expression of Orai1 $\alpha$ and Orai1 $\beta$**

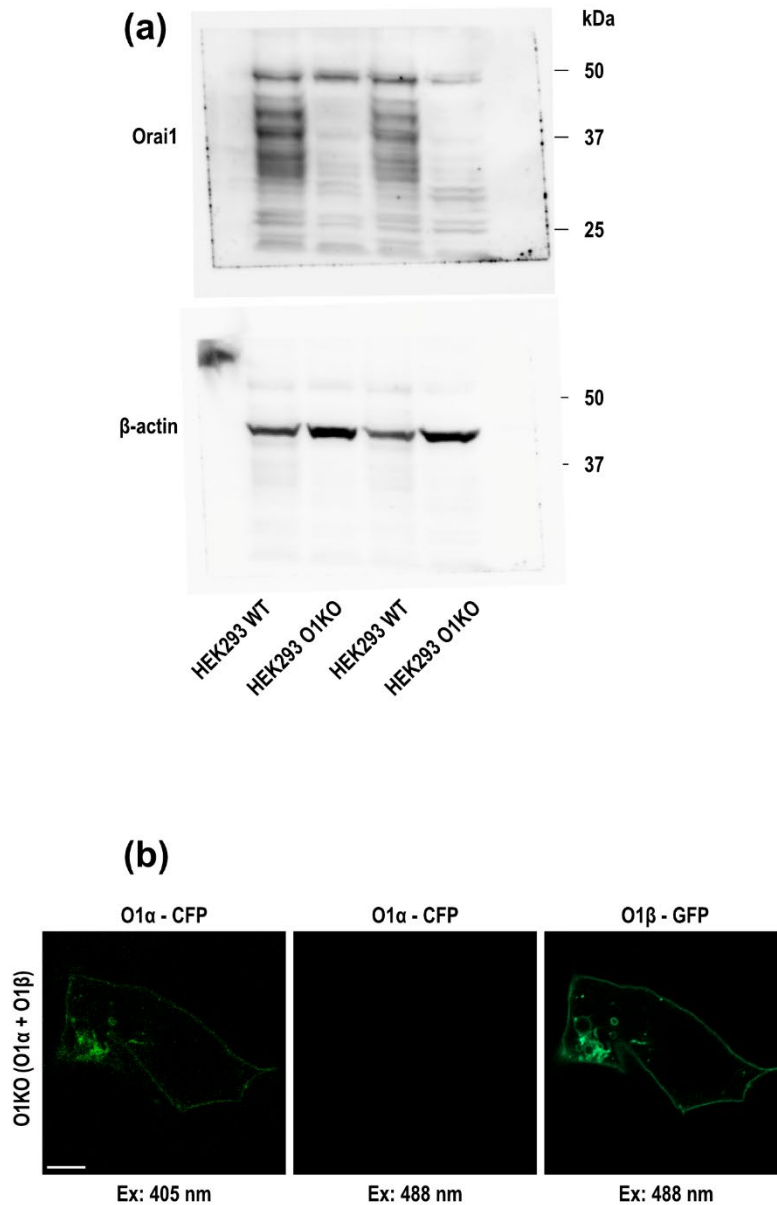
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Fig. S1



**Supplementary Fig 1. Orai1 expression in WT and Orai1-deficient HEK-293 cells.** (a) WT HEK-293 cells (HEK293 WT) and Orai1-deficient HEK-293 cells (HEK293 O1KO) were lysed and whole cell lysates were analyzed by SDS-PAGE and Western blotting using anti-Orai1 antibody, as indicated. Membranes were reprobed with anti- $\beta$ -actin antibody for protein loading control. Molecular masses indicated on the right were determined using molecular-mass markers run in the same gel. These results are representative of two separate experiments. (b) HEK-293 O1KO cells expressing both Orai1 $\alpha$ -CFP (O1 $\alpha$ -CFP) and Orai1 $\beta$ -GFP (O1 $\beta$ -GFP) were mounted on an inverted LSM900 confocal microscope (Carl Zeiss). Samples were excited at 405 nm or 488 nm and fluorescence emission was detected between 492–602 nm by an Airyscan detector.