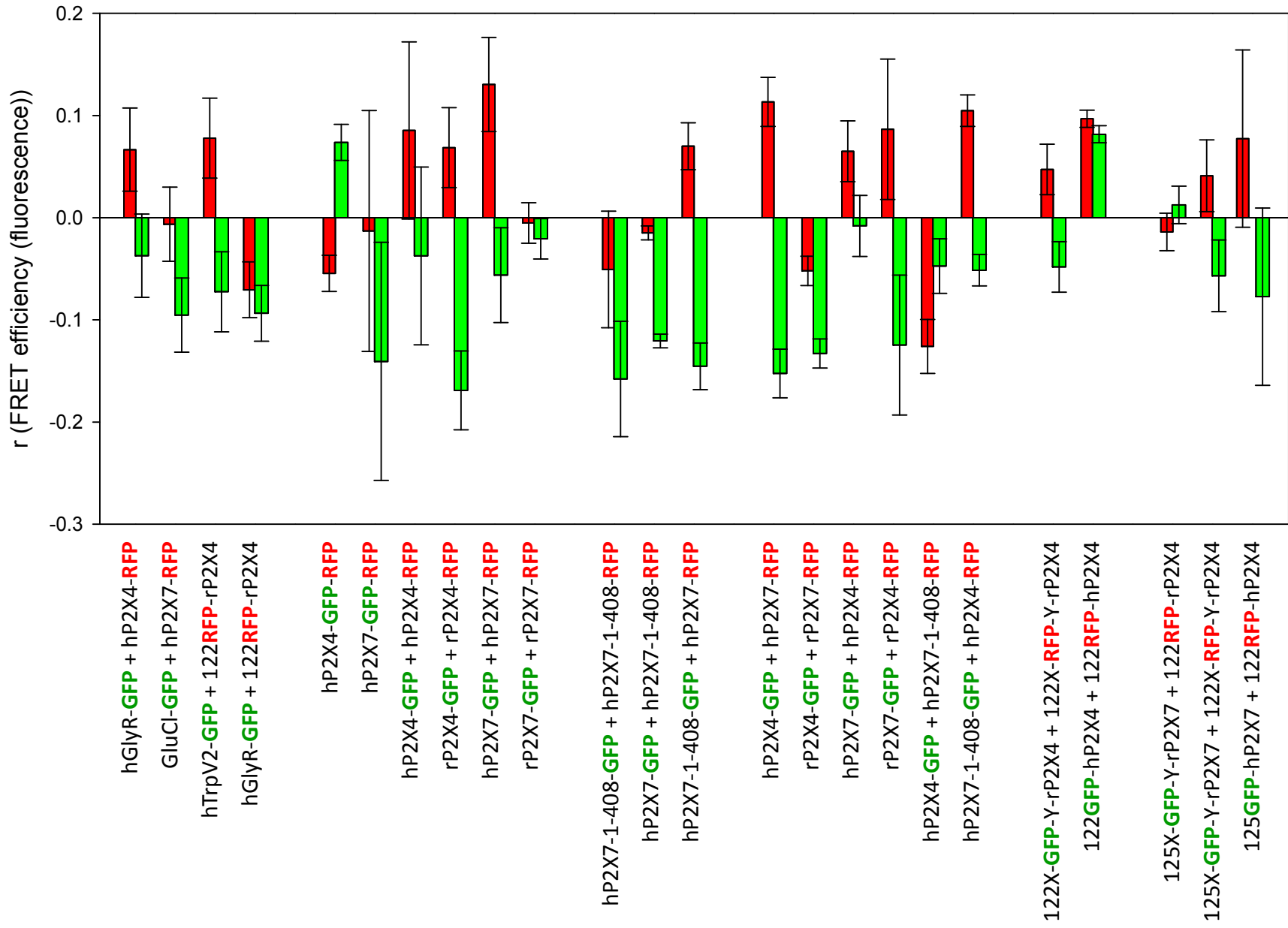


Supplemental Figure 1. Dependence of FRET on expression of fluorescence-labeled P2X4 and P2X7 constructs. The linear correlation coefficients r between the mean GFP (green bars) or the mean RFP (red bars) fluorescence levels and the corresponding FRET efficiency for the same construct combinations and at the same regions of interests (ROIs) used in Fig. 3 are shown. Only ROIs with acceptor (RFP) bleaching of >30 % were used. None of the correlations reached significance indicating an independence of the FRET efficiency on the expression level of the fluorescence-labeled constructs. Means \pm SEM of 16–150 ROIs from 5–20 cells.

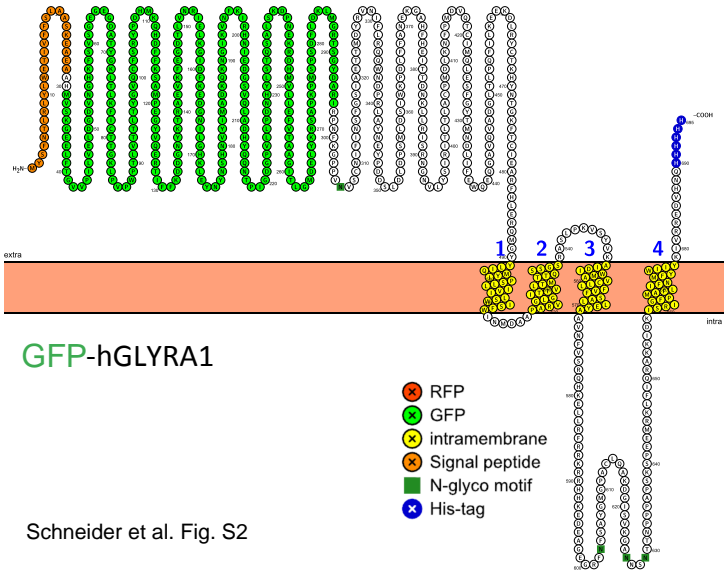
Supplemental Figures 2–27: Topology models of the various FRET constructs. The sequenced coding regions of the various ion channel constructs were copied from the VNTi files and translated into protein sequences using the EMBOSS tool program (<http://www.ebi.ac.uk/emboss/transeq/>). The indicated locations of the transmembrane segments were taken from the UniProt Knowledgebase (UniProtKB) (<http://www.uniprot.org/uniprot/>) on August, 2017. The topology cartoons were drawn using Protter at wlab.ethz.ch/protter/# (Omasits et al 2014). GFP and RFP residues are labeled green and red, respectively. The dark green squares in the ectodomains indicate Asp residues within the consensus sequence NXT/S for N-glycosylation. Where present, GAGA and AGAG linker sequences flanking the GFP or RFP moieties in the ectodomain are indicated in blue.

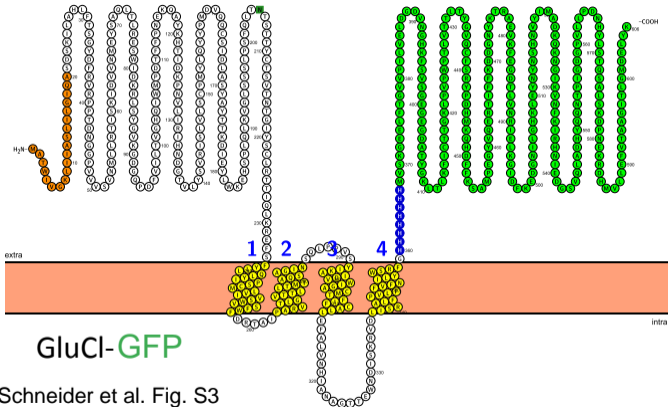
Omasits U, Ahrens CH, Müller S, Wollscheid B (2014) Protter: Interactive protein feature visualization and integration with experimental proteomic data. *Bioinformatics* 30: 884–886.

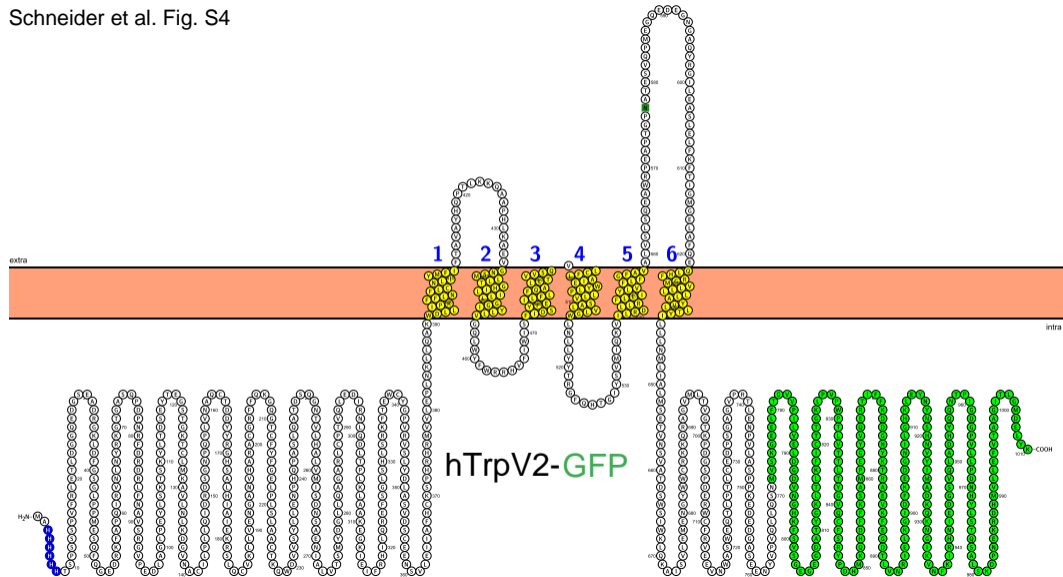
The UniProt Consortium (2017) UniProt: the universal protein knowledgebase. *Nucleic Acids Research*, 45: D158-D169. doi: 10.1093/nar/gkw1099

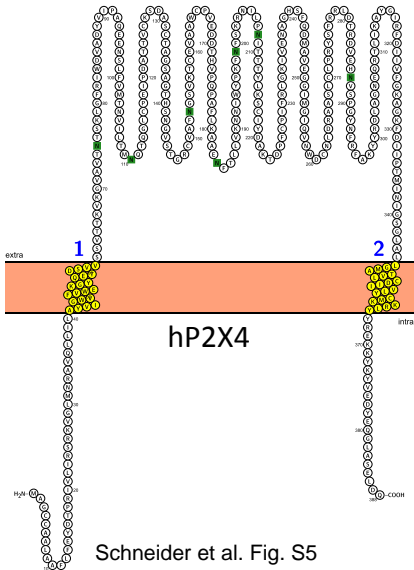


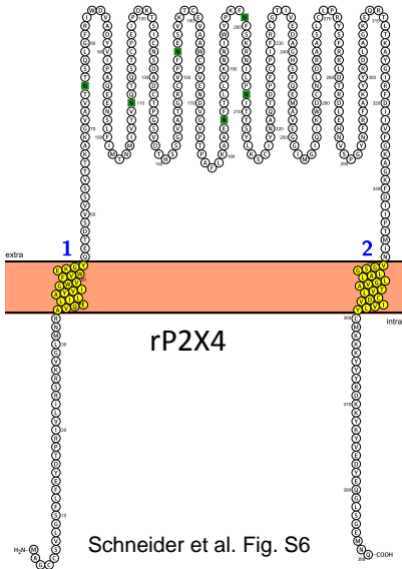
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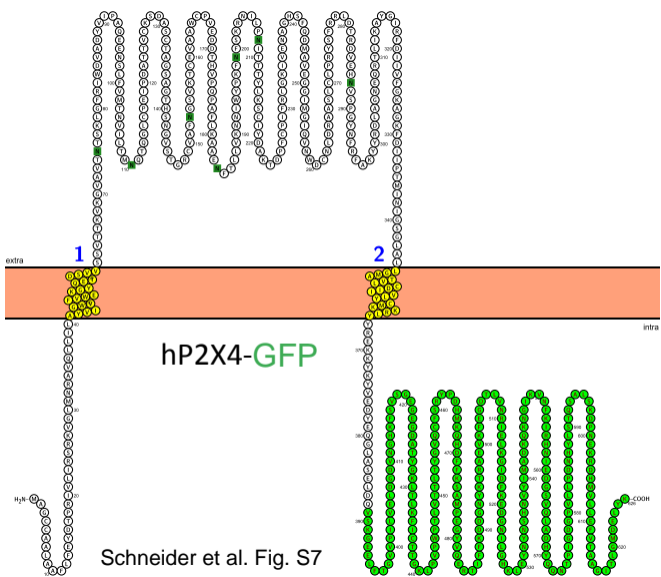


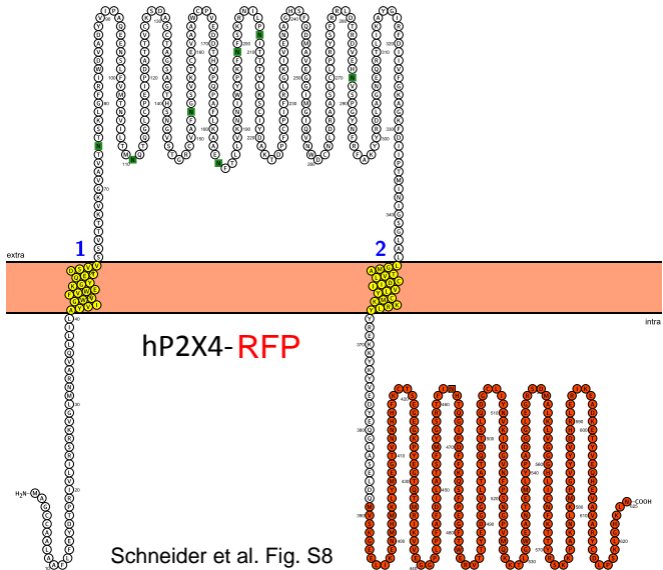


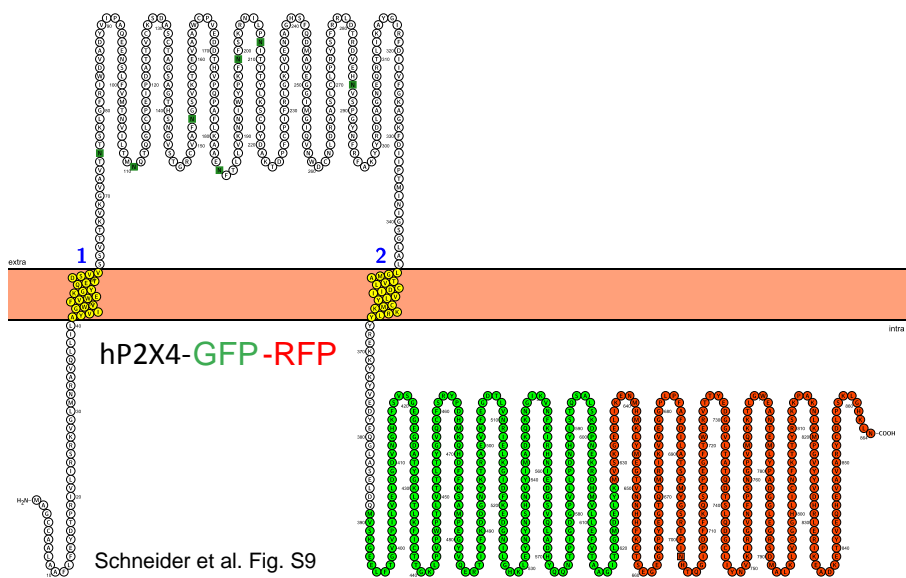


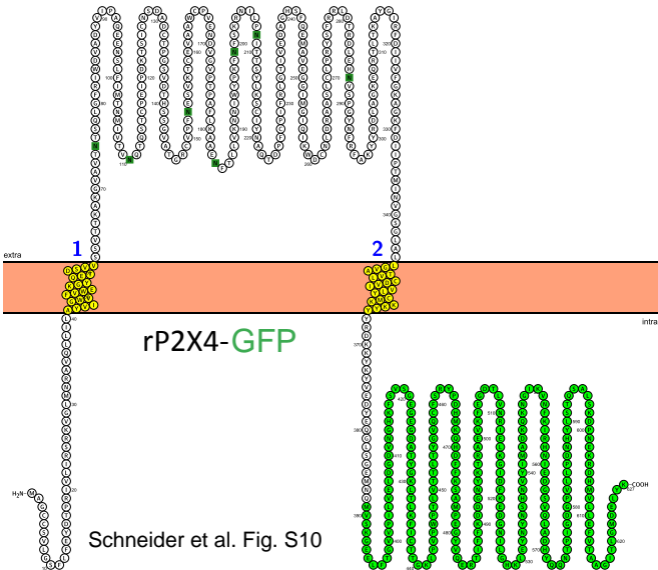


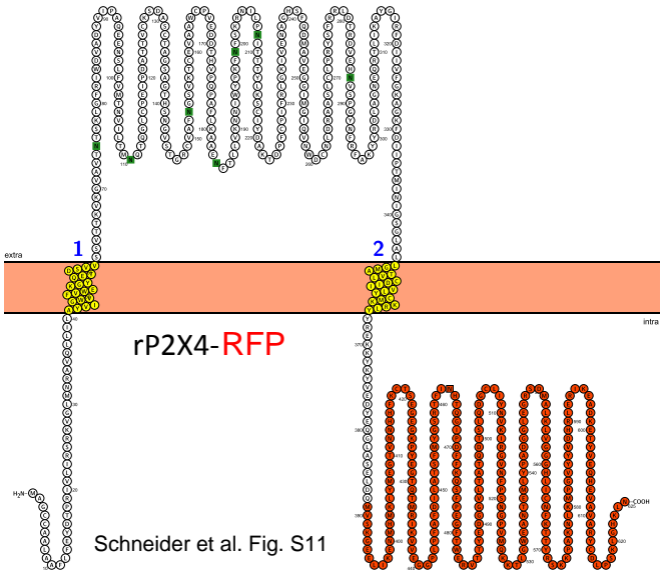


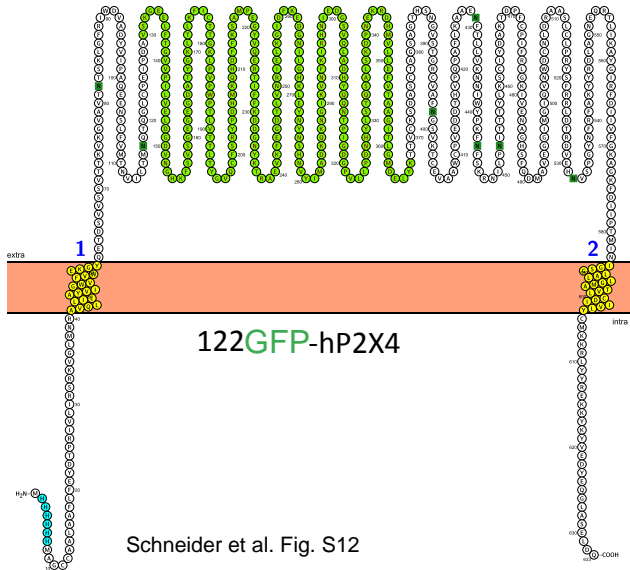


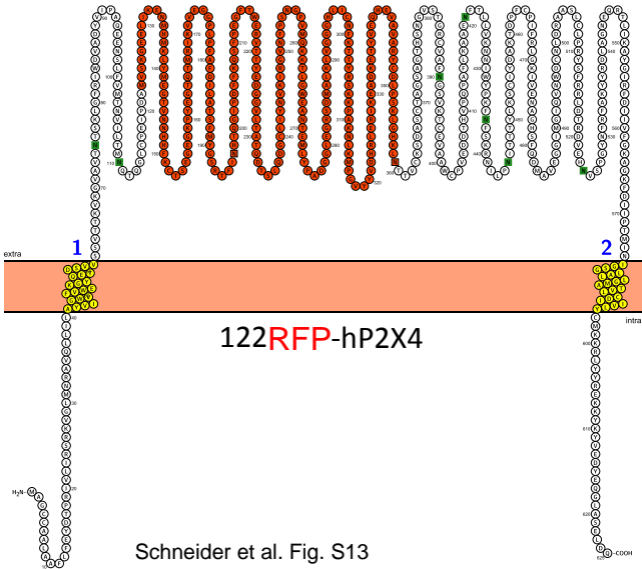


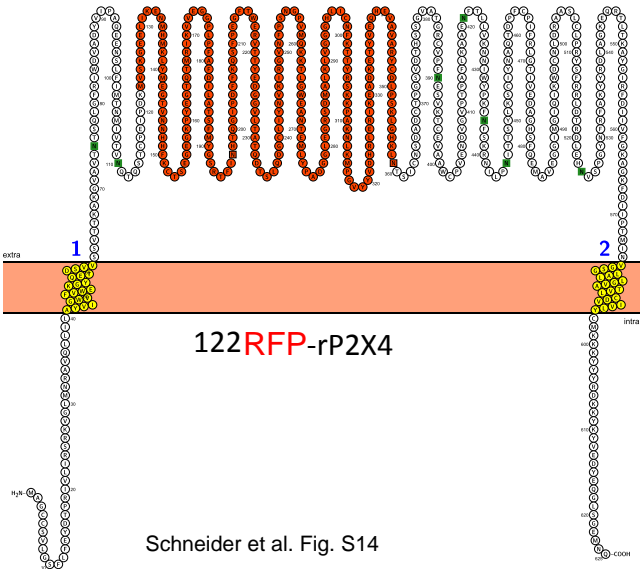


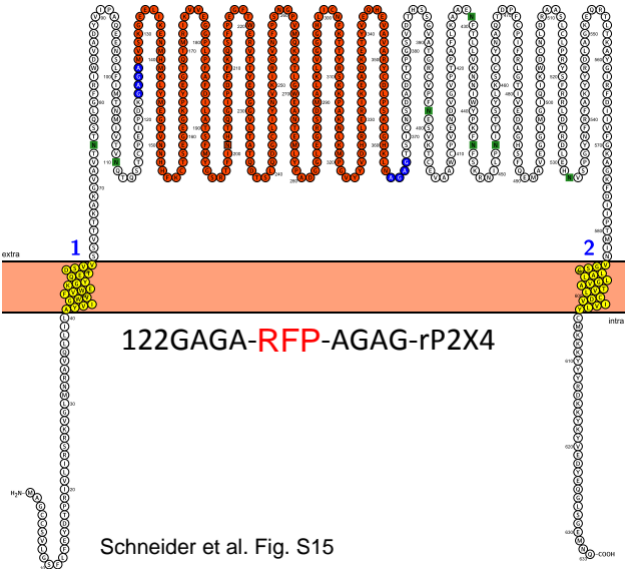


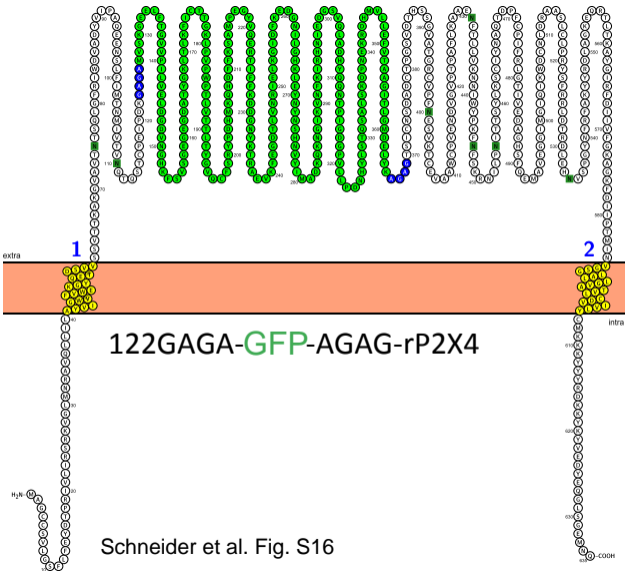


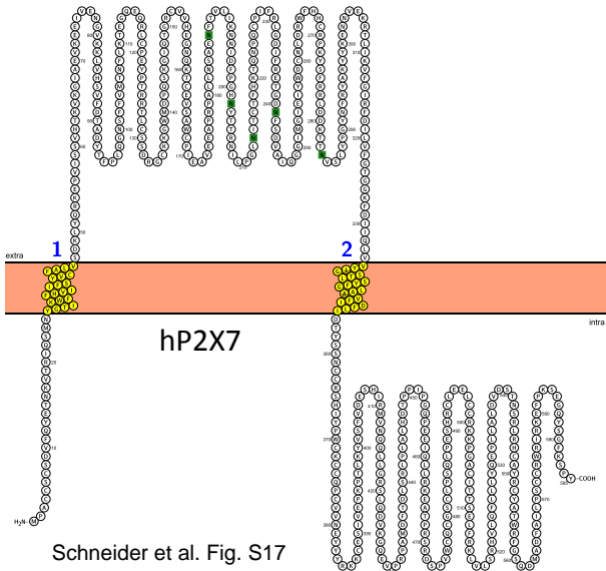


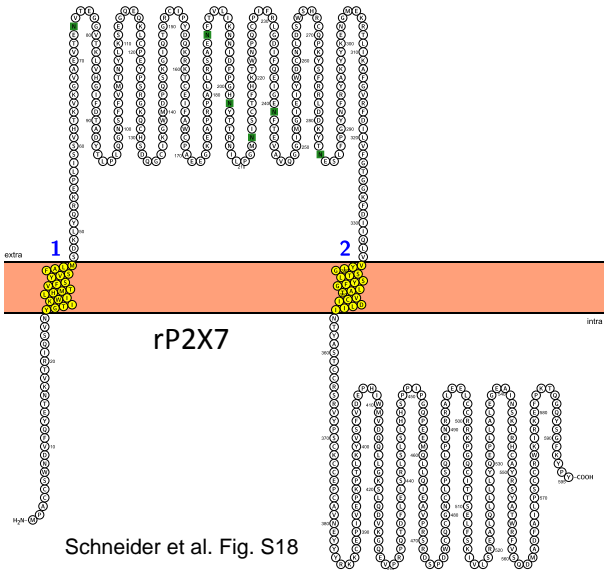


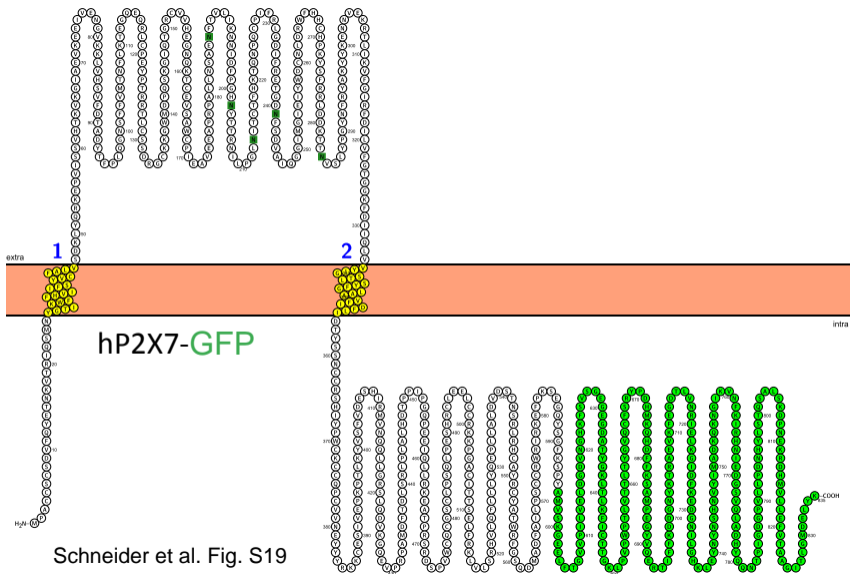


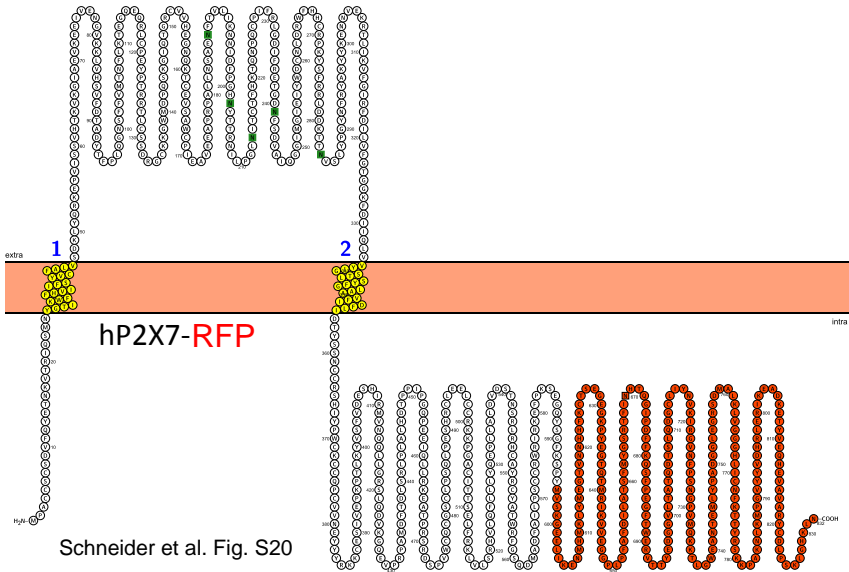


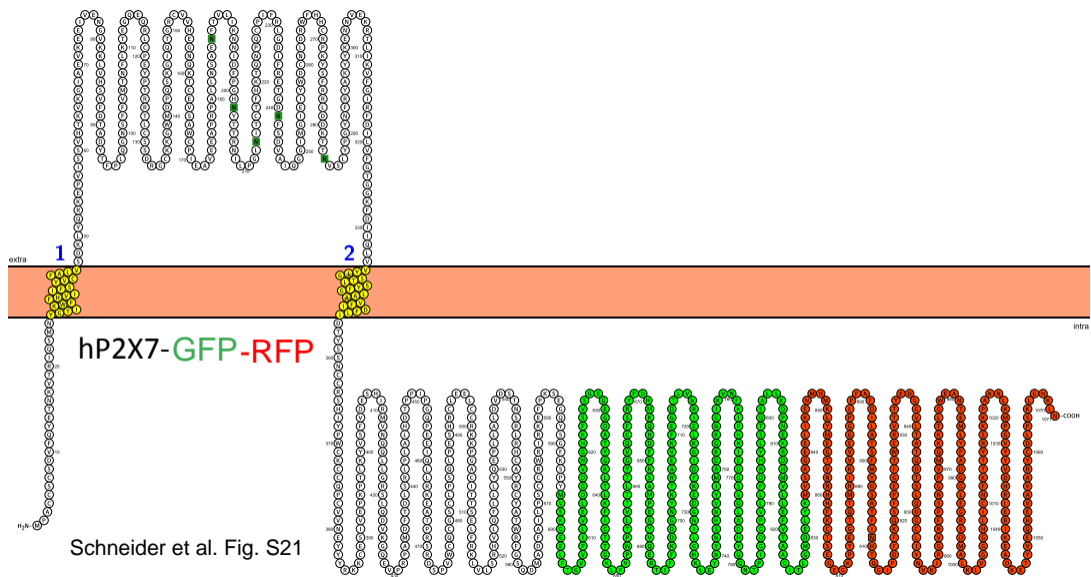


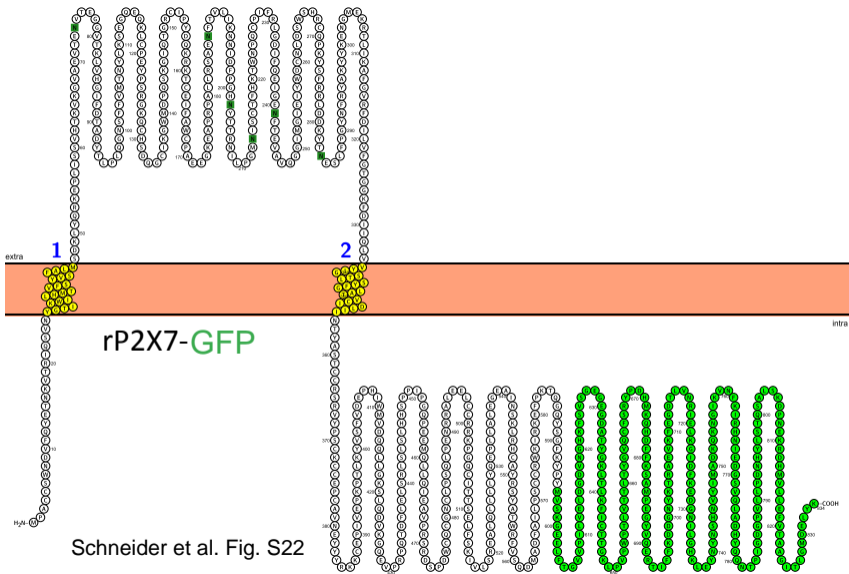


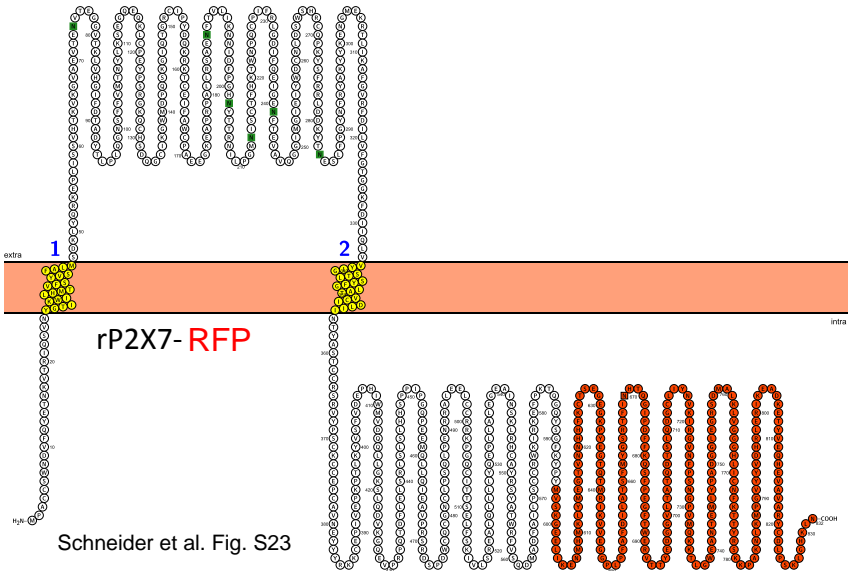


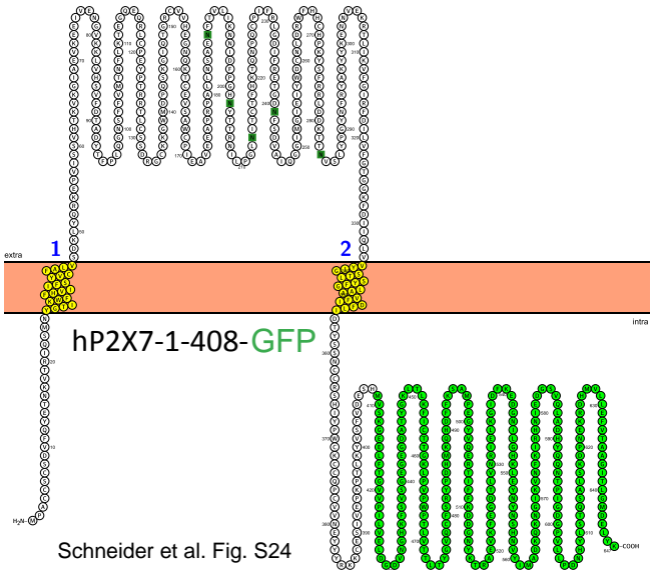


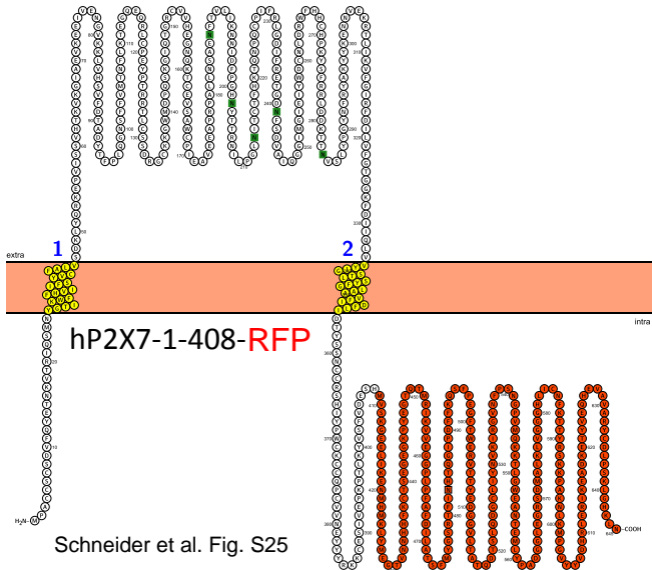












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