

Table S3.1 List of selected protein receptors, Predicted molecular weight, Protein ID, Locus Tag, Epitopes, Immunoblot and Immunolocalization dilutions

Receptor Name	Short name	Protein ID	Locus Tag	Peptide Antigen (Epitope)	Antigen Concentration	pAB Stock Concentration	Immunolocalization Dilution	Immunoblot Dilution
Transient receptor potential cation channel, subfamily A, member 1	TRPA1	KXJ18086.1	AIPGENE8555	GSTSVDLNEYREPW	2mg/ml	0.623mg/ml	1:100	1:250
Prostaglandin E2 receptor 4	EP4	KXJ28775.1	AIPGENE3997	VSERGRNKDDKKSS	2mg/ml	0.915mg/ml	1:100	1:1000
Prostaglandin E ₂ receptor 2	EP2	KXJ26289.1	AIPGENE315	QTQDVSGVTDRQPA	2mg/ml	0.743mg/ml	1:100	1:1000
Glutamate receptor inotropic, kainate 2	GRIK2	KXJ18488.1	AIPGENE1622	TSSDEGIKKATEGN	2mg/ml	0.322mg/ml	1:50	1:4000

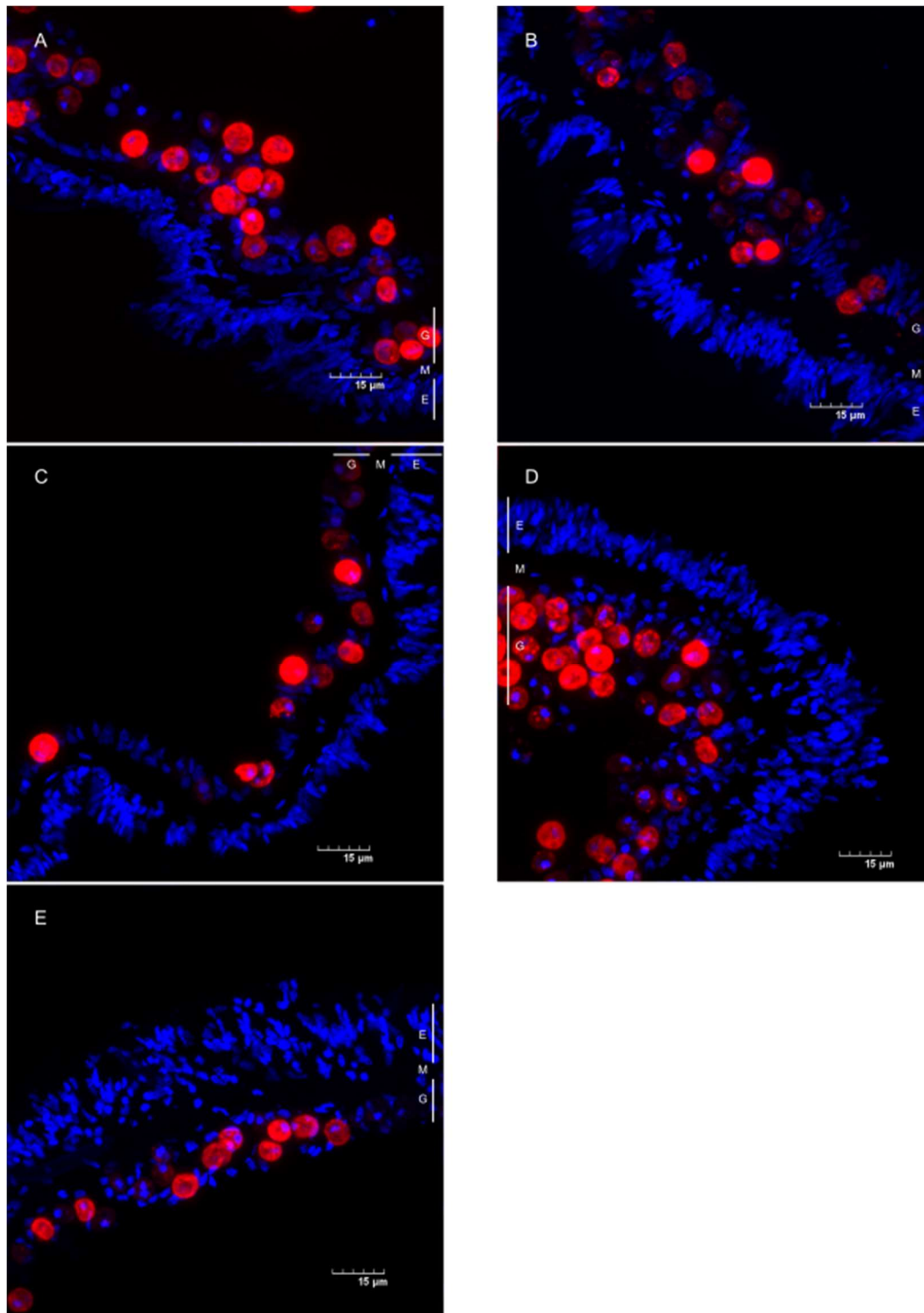


Figure S3.1 Immunolocalization controls consisting of antigen pre-absorption of (A) anti-TRPA1, (B) anti-GRIK2, (C) anti-EP2, (D) anti-EP4, and secondary antibody controls of symbiotic anemones (E). Red: chlorophyll autofluorescence of the symbionts; blue: nuclear staining using DAPI. G = gastrodermis; M = mesoglea; E = epidermis.