
Supplementary information

A receptor–channel trio conducts Ca signalling for pollen tube reception

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Supplementary Information

Title: A receptor-channel trio conducts Ca^{2+} signaling for pollen tube reception

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Supplementary information

Supplementary Fig. 1.

Uncropped images for Fig1a (a), 1b (b), 1c (c) and 2c (d).

Supplementary Video 1.

Under control conditions, $[\text{Ca}^{2+}]_{\text{cyt}}$ in Col-0 synergids remains low and steady. Scale bar is 20 μm .

Supplementary Video 2.

Application of 500 nM RALF4 elicits $[\text{Ca}^{2+}]_{\text{cyt}}$ changes in Col-0 synergids.

Supplementary Video 3.

Application of 500 nM RALF34 fails to elicit a $[\text{Ca}^{2+}]_{\text{cyt}}$ change in Col-0 synergids.

Supplementary Video 4.

Pollen tube induced $[\text{Ca}^{2+}]_{\text{cyt}}$ change in Col-0 synergids. Pollen tubes were labeled by RFP.

Supplementary Video 5.

$[\text{Ca}^{2+}]_{\text{cyt}}$ in *fer-4* synergids fails to respond to 500 nM RALF4.

Supplementary Video 6.

$[\text{Ca}^{2+}]_{\text{cyt}}$ in *lre-5* synergids fails to respond to 500 nM RALF4.

Supplementary Video 7.

$[Ca^{2+}]_{cyt}$ in *nta-3* synergids fails to respond to 500 nM RALF4.

Supplementary Video 8.

10 mM external $CaCl_2$ fails to trigger $[Ca^{2+}]_{cyt}$ elevation in mock HEK293T cells.

Supplementary Video 9.

10 mM external $CaCl_2$ fails to trigger $[Ca^{2+}]_{cyt}$ elevation in HEK293T cells expressing NTA alone.

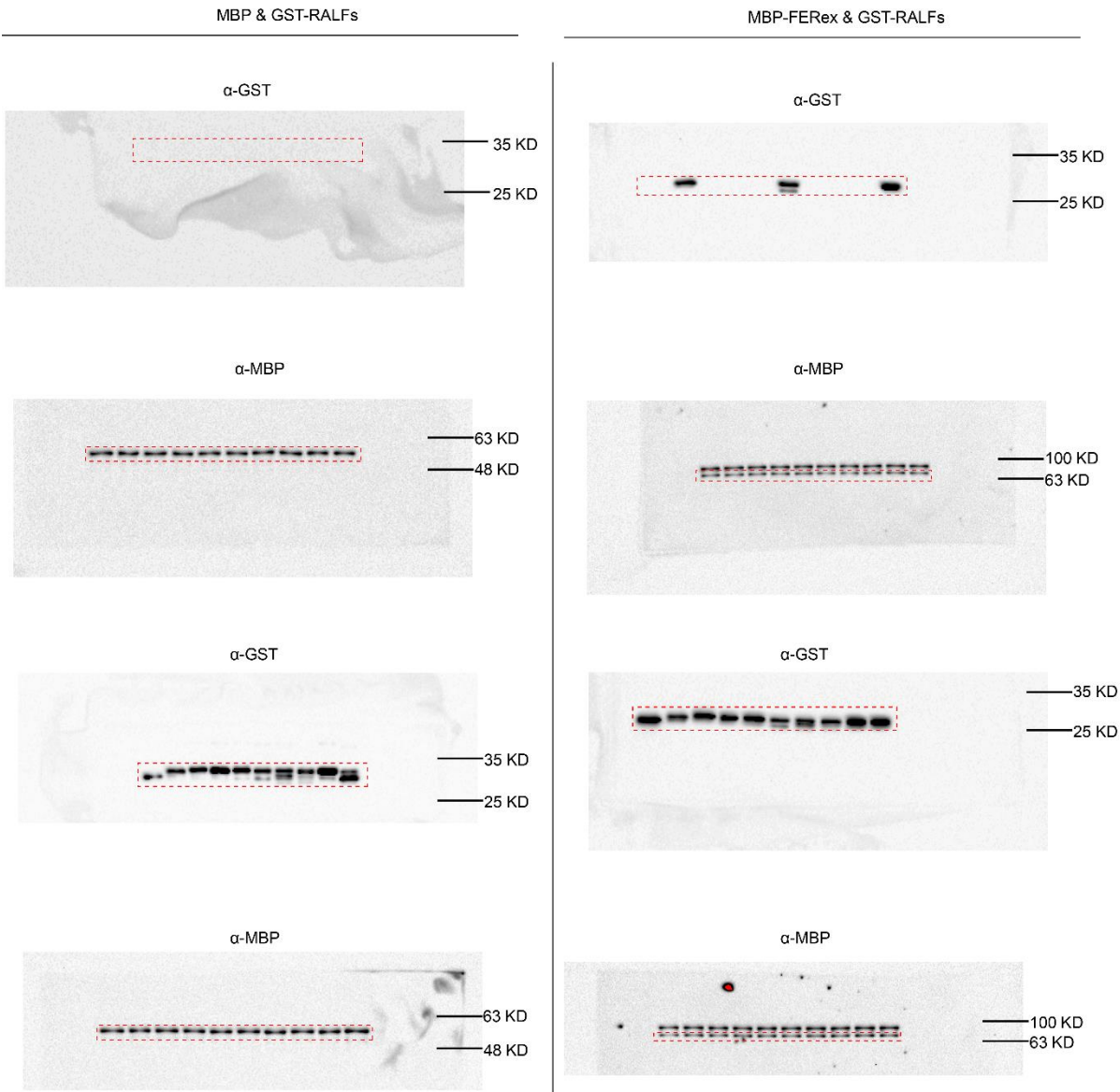
Supplementary Video 10.

10 mM external $CaCl_2$ triggers a strong $[Ca^{2+}]_{cyt}$ elevation in HEK293T cells expressing FER-LRE-NTA.

Supplementary Fig. 1. Uncropped images for Fig. 1a, 1b, 1c and 2c

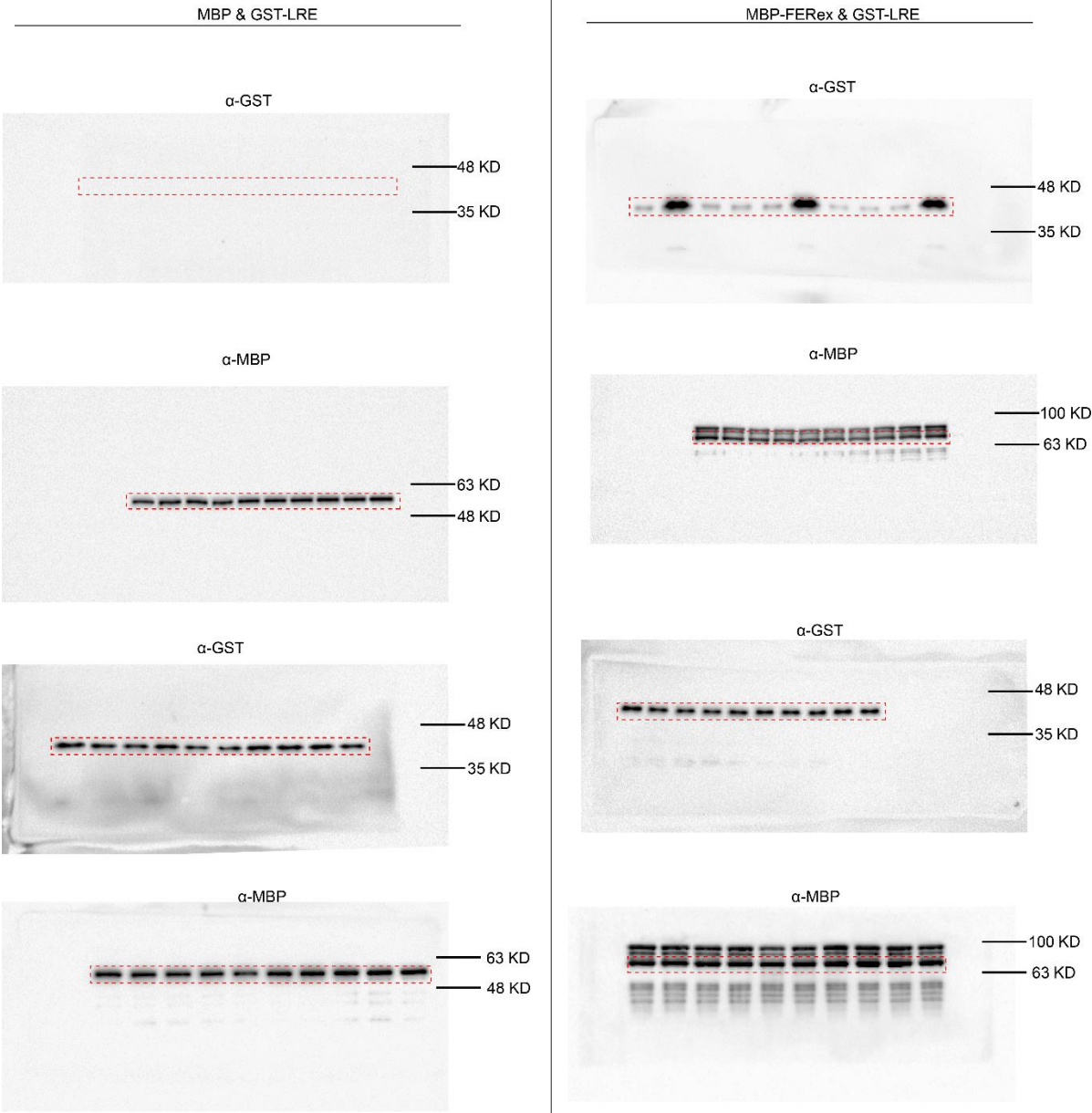
Supplementary Fig. 1a. Uncropped images for Fig. 1a

Fig. 1a

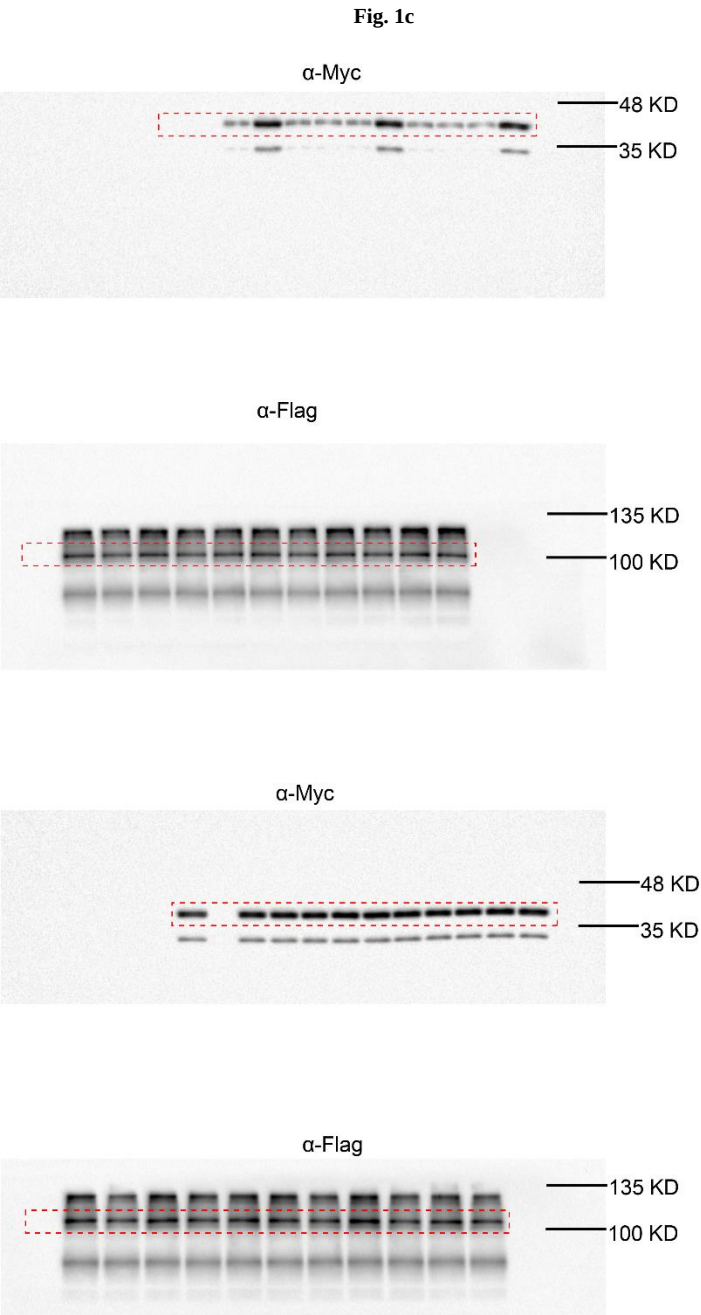


Supplementary Fig. 1b. Uncropped images for Fig. 1b

Fig. 1b



Supplementary Fig. 1c. Uncropped images for Fig. 1c



Supplementary Fig. 1d. Uncropped images for Fig. 2c

Fig. 2c

