

SUPPLEMENTAL DATA

CRISPR-Cas12a genome editing at the whole-plant level using two compatible RNA virus vectors

Mireia Uranga, Marta Vazquez-Vilar, Diego Orzáez, and José-Antonio Daròs*

Instituto de Biología Molecular y Celular de Plantas (Consejo Superior de Investigaciones Científicas-Universitat Politècnica de València), Valencia, Spain

*Address correspondence to: *José-Antonio Daròs, IBMCP (CSIC-Universitat Politècnica de València), Avenida de los Naranjos s/n, 46022 Valencia, Spain.*

Figure S1. Full sequence of the wild-type tobacco etch virus (TEV), the defective viral vector TEV Δ NiB and their derived recombinant viruses, TEV Δ NiB::crtB and TEV Δ NiB::LbCas12a. Wild-type TEV sequence corresponds to Genbank accession number DQ986288 including two silent mutations (G273A and A1119G, in red). Limits between TEV cistrons are marked on blue background. cDNAs corresponding to *P. ananatis* phytoene synthase (crtB) and Cas12a from *Lachnospiraceae bacterium* ND2006 (LbCas12a) are on yellow and dark green backgrounds, respectively. Nucleoplasmic nuclear localization signal (NLS) and human influenza hemagglutinin (3xHA) tag are underlined, doubly and dotted, respectively. In the inserted cDNAs, sequences corresponding to native TEV NIaPro cleavage sites are in black.

>TEV (DQ986288, G273A and A1119G)

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>TEVΔIb::crtB (insert between positions 6981-6982 of TEVΔIb)

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>TEVΔIb::LbCas12a (insert between positions 6981-6982 of TEVΔIb)

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