

Supplementary information

Dual resistance of transgenic plants against *Cymbidium mosaic virus* and *Odontoglossum ringspot virus*

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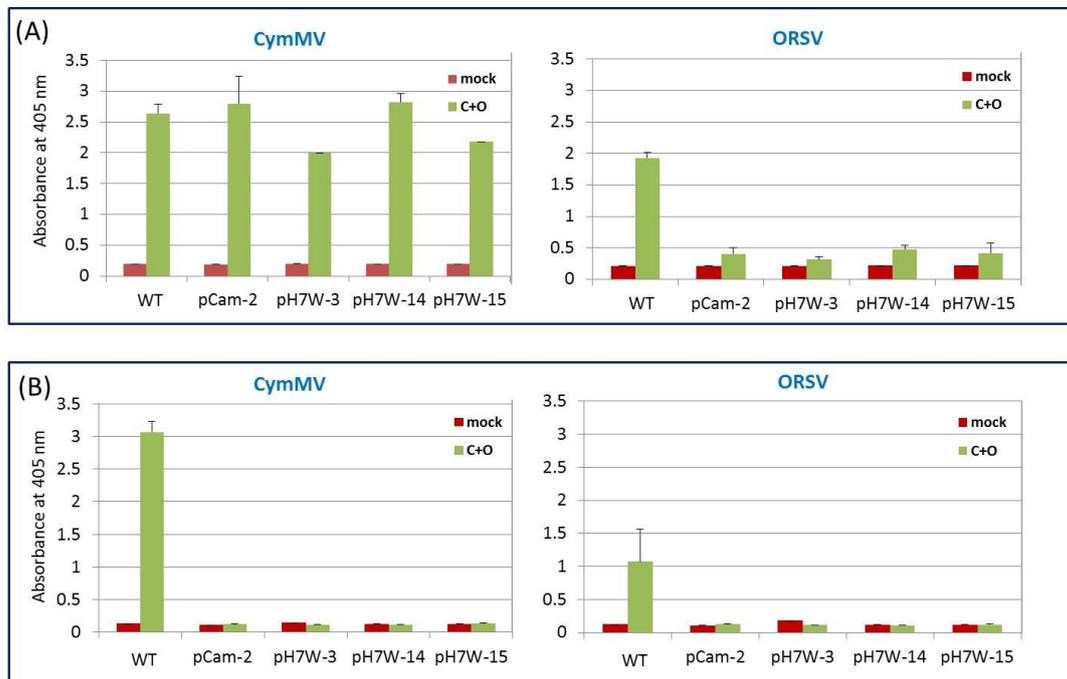
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Supplementary Table S1. Primers used in this study. The primer size and predicted product size are shown.

Primer	5'-sequence-3'	Length (bp)	Product length (bp)
CyCP3	GAGAGCCCACTCCA ACTCCAGCTGC	25	407
CyCP6	CCCAGTTGGCGGGCGGATCGTTA	23	
CyCP9	CACAATAAAGCTTATAACCATGGGAGAGC	29	735
CyCP10	CCACACGCCTTATTAAGCTTGGCGTTTTTCAG	32	(<i>HindIII</i> sites)
35S-1	CGCGGATCCGCCCGGGGATCTCCTTTGCCCCAGA	34	3258
rbcSR1	CGCGGATCCTGATGCATGTTGTCAATCAATTGGC	34	(<i>BamHI</i> sites)
ORSV3	ATGTCTTACACTATTACAGACCCGTCTAAG	30	447
ORSV4	TTAGGAAGAGGTCCAAGTAAGTCCAGACATCG	33	
attB1-COCP	ACAAGTTTGTACAAAAAAGCAGGCT	25	1100
attB2-COCP	ACCACTTTGTACAAGAAAGCTGGGT	25	
COCP1	CATGCCATGGATGGGAGAGCCCACTCCAA	29	1170
COCP2	CCTAACACGTGTTAGGAAGAGGTCCAAGTAA	31	
CymMV RdRp-F	TCTGGGCGATCGCATT CATGAGGTT	25	152
CymMV RdRp-R	CCACGTCAGGTTGAGACTTTACC	23	
ORSV RdRp-F	GTATCAAAGGAAAAGCGGAGATGTA	26	151
ORSV RdRp-R	ATCAAGTCCCTTTGGAATGTATAGA	25	
Nb-actin-F	GATGAAGATACTCACAGAAAGA	22	200
Nb-actin-R	GTGGTTTCATGAATGCCAGCA	21	
BaMV-P2-F	GCGCTGCAGGGATCCATGGACCAGCCT	27	416
BaMV-P2-R	TTCGAATTCGGATCCTTAGCATGGTGG	27	
ORSV-RdRpPai-F	ATTGGCGACGAGTGGCCGTC	20	860
ORSV-RdRpPai-R	TGCAACAAGAACGTGCGGTGA	21	
ORSV CPF	ATCGCTCGAGATGTCTTACACTATTACAGACCCGTCTAAG	40	467
ORSV CPR	ATCGGGTACCTTAGGAAGAGGTCCAAGTAAGTCCAGACATCG	43	
Nb-actin-QF	TACGAGCTGCCTGATGGACAA	21	95
Nb-actin-QR	GCTTCCATTCCGATCATTGAT	21	

Supplementary Figure S1. ELISA analysis of CymMV and ORSV accumulation in *N. benthamiana* WT and transgenic lines. (A) Inoculated leaves (IL) at 10 dpi. (B) Systemic leaves (SL) at 26 dpi.



Supplementary Figure S2. Cell-to-cell movement of eGFP and 2x.eGFP in *N. benthamiana* leaves of WT and transgenic pH7W-COCP line 3 at 40 hr after particle bombardment. The eGFP in WT (A) and transgenic pH7W-COCP line 3 (B), 2x.eGFP in WT (C) and transgenic pH7W-COCP line 3 (D). 1: target cells showing eGFP or 2x.eGFP fluorescence. 2, 3, 4: eGFP or 2x.eGFP protein movement from target cell to the second, third or fourth cells.

