

Supporting Information for

Integrative proteomics to understand the transmission mechanism of *Barley yellow dwarf virus*-GPV by its insect vector *Rhopalosiphum padi*

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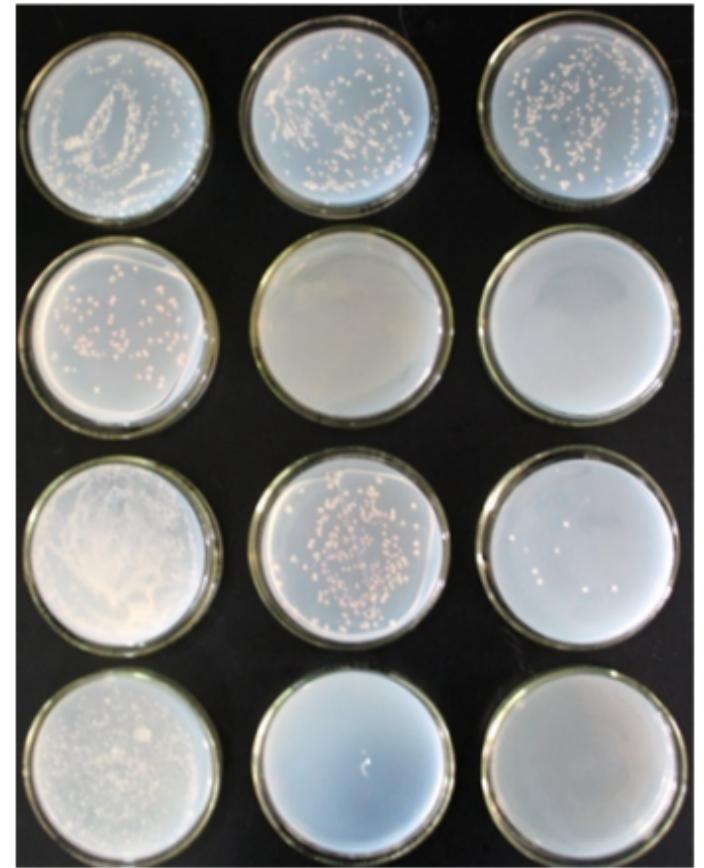
Supplementary Table S1 | Primers used in this study

Primer	Primer sequence
RT-qPCR	
Myosin-F	GGTCGTAATAAGGACCAAGTTGC
Myosin-R	CCTCACGTTGGTACTCTTCTTG
Paramyosin-F	CAGATGAACGTTACCAACGG
Paramyosin-R	GCGTTGGCTTCGACTTCTTC
Vinculin-F	GCTCTAAATCAAGCTGCCACAC
Vinculin-R	CATCTGGCCTCAGATAATCG
Actin-F	AACGGAAGCACCTTGAACC
Actin-R	GGAAGAAGCAGCAGTAGCCAT
Yeast two-hybrid	
assay	
CP-pDHB1F	ATTAACAAGGCCATTACGGCCATGAGTACGGTCGCCCTAG
CP-pDHB1R	AACTGATTGGCCGAGGCGGCCCTATTCGGGTTTGAAACAGG
RTP-pDHB1F	ATTAACAAGGCCATTACGGCCGTAGACGCGGAACCCGGTCCTAG
RTP-pDHB1R	AACTGATTGGCCGAGGCGGCCCTAGGAACGGCCACCAACAAATG
Co-IP assay	
CP-pAcGFPF	TCTGTCGACGAGGAGCAGAACGCTGATCTCAGAGG
CP-pAcGFPR	CGCAAGCTTTATTCGGGTTTGAAACAGGAC
RTP-pAcGFPF	TCTGTCGACGAGGAGCAGAACGCTGATCTCAGAGG
RTP-pAcGFPR	CGCAAGCTTTAGGAACGGCCACCAACAAATG
Pan-pProLabelF	TCTGTCGACCCATACCCATACGATGTTCCAGAT
Pan-pProLabelR	TTATCTAGATTATCTAATGTCTTGGATA
Tsr-pProLabelF	GCAGTCGACATGGCATCGGGAGTAACCGTAG
Tsr-pProLabelR	GGTGGATCC CTGTCGCGGTGGACCTGAG
P450-pProLabelF	GACGGTACCAACTCTCAATGTCAACAGCCGTG
P450-pProLabelR	GGTGGATCCAGCAGCGGTCTTAGCTAGTGAC
Tpm-pProLabelF	GACGGTACCAAGAAGGGTTCATGACCCCGGAC
Tpm-pProLabelR	TTA TCTAGA AGCTGTTGCTGCTGGTCCGGTACG
CV4-pProLabelF	GCAGTCGACGTACAGGGTGTGATGCAAGTGC
CV4-pProLabelR	GGTGGATCCACTTTCCATGTGTTCTTCGTAATC
Naca-pProLabelF	GCAGTCGACATGCCTGAATTACGGAAATC
Naca-pProLabelR	GGTGGATCCCATTGTCAAGTCCATAATAGC
Comx-pProLabelF	GCAGTCGACATGGCGGCTTGTGGCAAAGC
Comx-pProLabelR	GGTGGATCCTGAAGACTGCACTTGCTCTC

Supplementary Figure S1 | Expression verification of the bait fusion vector.

Expression of BYDV-GPV RTP bait and the CP bait were tested using the DUAL hunter functional assay. BYDV-GPV CP or RTD bait fusion vector was used to cotransformed with the control plasmid pOst1-NubI or pPR3-N empty insert and grown on selective SD medium (DDO/TDO/QDO). Co-expression of the pDHB1-CP (A)/RTP (B) with Ost1-NubI resulted in reporter gene activation as shown by growth of the yeast transformants on QDO, while co-expression of pDHB1-CP (A)/RTD (B) with pPR3-N empty insert did not yield any yeast transformant growth on QDO. pDHB1-LargeT and pDSL-p53 were used as positive controls; pDHB1-LargeT and pPR3-N-empty insert were used as negative controls.

A



B

