

S3 Table. Primers and probes used in this study

Name of primers and probes	Nucleotide sequence	Description
Semi-quantitative RT-PCR		
CymMV-F	5'-GAAATAATCATGGGAGAGCC-3'	Detection of <i>Cymbidium</i>
CymMV-R	5'-AGTTTGGCGTTATTTCAGTAGG-3'	<i>mosaic virus</i> (CymMV)
ORSV-F	5'-ACGCACAATCTGATCCGTA-3'	Detection of <i>Odontoglossum</i>
ORSV-R	5'-ATCCGCAGTGAAAACCC-3'	<i>ringspot virus</i> (ORSV)
Pha13-F	5'-TCATCTTAAACAGAGCAGGATCTGA-3'	Detection of <i>Pha13</i>
Pha13-R	5'-ATTGGCCTGGACCACCGGGTT-3'	(PATC148746 ^a)
PhaRdR1-F	5'-GCACGGGAGCTACGAAAGTCAA AT-3'	Detection of
PhaRdR1-R	5'-TTAATGGGCAGCTGCAAACAAATC-3'	<i>PhaRNA-dependent RNA polymerase 1</i> (<i>PhaRdR1</i> ; PATC143146 ^a)
PhaGRX-F	5'-TCATTATCTTCTTCCTTCGGCGG-3'	Detection of <i>PhaGlutaredoxin</i>
PhaGRX-R	5'-CTACAACCACAGAGCTCCAGCCTC-3'	<i>C9</i> (<i>PhaGRX</i> ; PATC068819 ^a)
PhaUBQ 10-F	5'-TACCGGTAAGACTTCAACCTCT-3'	Detection of <i>PhaUbiquitin 10</i>
PhaUBQ 10-R	5'-AAGGCCAAAATTCAGGATAAAGAG-3'	(<i>PhaUBQ10</i> ; PATC230548 ^a)
PhaPR1-F	5'-TGCGAGGCTGAATTAACAACGAA-3'	Detection of <i>PhaPathogenesis-related protein 1</i> (<i>PhaPR1</i> ;
PhaPR1-R	5'-GCCAGGAACATTACCAGGAGGATA-3'	PATC126136 ^a)
Real-time RT-PCR		
Pha13-qF	5'-TCATCTTAAACAGAGCAGGATCTGA-3'	Detection of <i>Pha13</i>
Pha13-qR	5'-CGGCGTCTAAAGAAGAGGAAGAG-3'	
PhaNPR1-qF	5'-AGTTGATGGCACCTTGAGTTT-3'	Detection of <i>PhaNonexpressor</i>
PhaNPR1-qR	5'-AAGAAGCGTTTCCCGAGTTCA-3'	<i>of pathogenesis-related protein 1</i> (<i>PhaNPR1</i> ; PATC135791 ^a)
PhaPR1-qF	5'-GGATCATCGTCTTGCGATTT-3'	Detection of <i>PhaPR1</i>
PhaPR1-qR	5'-CCGCACAACGTGTACATGCAT-3'	
CymMV-qF	5'-TGATGCTGGCCACTAACGATC-3'	Detection of CymMV
CymMV-qR	5'-GGAATCAACGGCATCGAAGA-3'	
PhaRdR1-qF	5'-TGACAAGTACAAGGATGGCG-3'	Detection of <i>PhaRdR1</i>
PhaRdR1-qR	5'-ACTCTTCACCCCATCAACATC-3'	
PhaGRX-qF	5'-ACGTCGTAAAGCATCTCCTT-3'	Detection of <i>PhaGRX</i>
PhaGRX-qR	5'-CGGTAAGGTCACCGTAAAAC-3'	

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PhaUBQ 10-qF	5'-CCGGATCAGCAAAGGTTGA-3'	Detection of <i>PhaUBQ10</i>
PhaUBQ 10-qR	5'-AAGATTTGCATCCCTCCCC-3'	
PhaJAZ1-qF	5'-CTCGGAGTGGTTGGCTTTATTAG-3'	Detection of <i>PhaJasmonate</i> <i>ZIM-domain protein 1</i> (<i>PhaJAZ1</i> ; PATC141437 ^a)
PhaJAZ1-qR	5'-GTGATGCCTTCCTTGCGATT-3'	
PhaACO2-qF	5'-CGTCCAAAACGCTTGATTCC-3'	Detection of <i>PhaAmino-cyclopropane-carbo</i> <i>xylate oxidase 2</i> (<i>PhaACO2</i> ; PATC139319 ^a)
PhaACO2-qR	5'-GCGCAAATTCCTTCATGGTT-3'	
AtACT-qF	5'-GGCAAGTCATCACGATTGG -3'	Detection of <i>AtActin</i> (At3G18780)
AtACT-qR	5'-CAGCTTCCATTCCCACAAAC -3'	
TRV-qF	5'-CATGCTAACAAATTGCGAAAGC-3'	Detection of TRV
TRV-qR	5'-CACAGACAAACCATCCACAATTATTTT-3'	
CMV-qF	5'-TTCCTGCCTCCTCGGACTTA-3'	Detection of CMV
CMV-qR	5'-GCTCCGTCGCGAACATA-3'	
AtSAP5-qF	5'-ACCAGCTAAAGTCGTGATTTCG-3'	Detection of <i>AtSAP5</i>
AtSAP5-qR	5'-AGCGGTTTTGTAGTCGTAGC-3'	
AtNPR1-qF	5'-AGGAGATTGCCAAGGATTACG-3'	Detection of <i>AtNPR1</i>
AtNPR1-qR	5'-ACGTCCAATAAGTGCTCTG-3'	
AtPR1-qF	5'-ATCGTCTTTGTAGCTCTGTAGG-3'	Detection of <i>AtPR1</i>
AtPR1-qR	5'-AGGCTAAGTTTTCCCCGTAAG-3'	
AtRdR1-qF	5'-AAGAGCGGTTTCGGGCGTTGA-3'	Detection of <i>AtRdR1</i>
AtRdR1-qR	5'-AGCCGAAGCCTTTGCTGACTCA-3'	
AtGRXC9-qF	5'-AGAGAGTTCGGATGGTGGTG-3'	Detection of <i>AtGRXC9</i>
AtGRXC9-qR	5'-CACTCCAAGTCCAAGAAGCAG-3'	
Construction		
attB1-Pha13-F ^b	5'-GGGGACAAGTTTGTACAAAAAAGCAGG CTCGTGGAGAAATCCCTCATGGCT-3'	Construction of pCymMV-Pha13-virus induced gene silencing vector
attB2-Pha13-R ^b	5'-GGGGACCACTTTGTACAAGAAAGCTGG GTTCAAATCTTCCGCAGCTTATCG-3'	
Pha13-hpRNA-F	5'-CACCCCGGTCCAACCCGGTGGTCCA-3'	Construction of phpPha13
Pha13-hpRNA-R	5'-TGGACCACCGGGTTGGACCGG-3'	
PhaNPR1-hpRNA-F	5' -CACCCGAGATCATTGATTCCTTCCC-3'	Construction of phpPhaNPR1
PhaNPR1-hpRNA-R	5' -GGGAAGGAATCAATGATCTCG-3'	

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PhaRdR1-hpRNA-F	5'-CACCGCCTATCACTGCGTCACATGT-3'	Construction of phpPhaRdR1
PhaRdR1-hpRNA-R	5'-ACATGTGACGCAGTGATAGGC-3'	
PhaGRX-hpRNA-F	5'-CACCGCTAATGGCGGCGCATATTAC-3'	Construction of phpPhaGRX
PhaGRX-hpRNA-R	5'-GTAATATGCGCCGCCATTAGC-3'	
Pha13-ORF-F	5'-CACCATGGCGGAAGAACGGAGATG-3'	Construction of pG-Pha13 or pPha13-G
Pha13-ORF- NONSTOP-R	5'-AATCTTCCGCAGCTTATCGGCC-3'	
FLAG-Pha13ORF-F	5'-CACCATGGATTACAAGGATGACGACG ATAAGATGGCGGAAGAACG-3'	Construction of pPha13-oe and pHPha13
Pha13ORF-R	5'-TCAAATCTTCCGCAGCTTATCGG-3'	
AtSAP5-RNAi-F	5'- CACCCGCAGGTGTTGTTGAATCAGG-3'	Construction of phpAtSAP5-RNAi
AtSAP5-RNAi-R	5'- GATCTGTTGATCTCTCTTCTT-3'	
AtSAP5ORF-F	5'- CACCATGGCTCAGAGAACGGAGAAG-3'	Construction of pAtSAP5-oe
AtSAP5ORF-HA-R	5'-TCAAGCGTAATCTGGAACATCGTATGGGTA AACTTTGACCATTTTCGCAGC-3'	
Pha13A20m-F	5'-GCAACCCTAAACCTCGGCTCGAGCGGCT ACCGCGATCATC -3'	Construction of pPha13A20m
Pha13A20m-R	5'-GATGATCGCGGTAGCCGCTCGAGCCGAG GTTTAGGGTTGC-3'	
Pha13AN1m-F	5'-CTGACCGGGTTCAAGGGCCGTTGCGGAT CGACGTACTGTGGGGCCGGCCGGTACCCGGA GCA-3'	Construction of pPha13AN1m
Pha13AN1m-R	5'-TGCTCCGGGTACCGGCCGGCCCCACAGTA CGTCGATCCGCAACGGCCCTTGAACCCGGTCA G-3'	
NdeI-Pha13-F ^c	5'-TTCTCATATGGCGGAAGAACGGAGATGC CAA-3'	Construction of pETPha13, pETPha13A20m, pETPha13AN1m and pETPha13A20mAN1m
NotI-Pha13-R ^c	5'-ATATGCGGCCGCAATCTTCCGCAG-3'	
NdeI-Pha13-F ^c	5'-AGAGCATATGGCTGCCACCTTCTCCTCCT TTT-3'	Construction of pGBKPha13
EcoRI-Pha13-R ^c	5'-AGAGGAATTCAAATCTTCCGCAGCTTA-3'	

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Nd13Fs412F ^c	5'-CTAAC <u>CATATG</u> CGGGATTGCGATTGCC-3'	
Nd13Ap361F ^c	5'-CTAAC <u>CATATG</u> CACCGGTACCCGGAG-3'	
Nd13Sg247F ^c	5'-CTAAC <u>CATATG</u> CCGGCGGTGCGCCGAT-3'	For construction of Pha13 with N-terminus deletions into pGBK
Nd13Bt136F ^c	5'-CTAAC <u>CATATG</u> TGGAGAAATCCCTC-3'	
Nd13Ps88F ^c	5'-CTAAC <u>CATATG</u> TCGAGCTGCTACCGC-3'	
EcoR1-Pha13-R ^c	5'-AGAGGAATTCAAATCTCCGCAGCTTA-3'	
Nd13A20F ^c	5'-CTAAC <u>CATATG</u> CAAGAAGGTATGCGA-3'	For construction of A20
BH13A20R ^c	5'-CTAAGGATCCAAGATGATCGCGGTA-3'	domain into pGBK
Nd13AN1F ^c	5'-CTAAC <u>CATATG</u> GAGAGGCCGAGAAGG-3'	For construction of AN1
BH13AN1R ^c	5'-CTAAGGATCCCTTATAGTCGAAATC-3'	domain into pGBK
NdeI-PhaUBQ-F ^c	5'-CTCT <u>CATATG</u> AGGGGAGGTATGCAGATTTCG-3'	Construction of polyubiquitin (PATC203893)
BamHI-PhaUBQ-R ^c	5'-CTATGGATCCACCACGAAGACGGAGCACA A-3'	
NdeI-AtSAP5-F ^c	5'-TTCT <u>CATATG</u> TGGCTCAGAGAACGGAGA AG-3'	Construction of pETAtSAP5
XhoI-AtSAP5-R ^c	5'-AGAGCTCGAGAACTTTGACCATTTTCGCA GC-3'	

^aAccession number of Orchidstra database (<http://orchidstra.abrc.sinica.edu.tw>)

^bUnderlined sequences indicate the attB sequences. The 4 G at the 5' end were added as recommended by the manufacturer.

^cUnderlined sequences indicate the sequence recognized by restriction enzyme. The random 4 nucleotides at the 5' end were added as recommended by the manufacture