

## Accessory publication

AF079526-T.aestivum -----MKLQVATVASFVLVALAA--AAQAVTFD 26  
 TC234692-T.aestivum -----MKLQVATVASFLLVALAA--TAQAVTFD 26  
 Y14202-H.vulgare -----MKPQVATVAFFLLVTMAA--TARAVTFD 26  
 TC369550-Z.mays -----MNRQVAAVAALALLAASSTAGAVTFD 29  
 TC108700-S.bicolor -----MAPTLSSDMTMRRAAVVVVALASLLAGVAAAGAVTFS 38  
 TC300387-O.satiba -----MVFNSEFGLRHPRSRISPAASAKRRTA--PAKLVAFS 35  
 CT835760-O.satiba -----MKPSHVAALAAALMAAVAA--TAGAVTFD 26  
 Y14201-H.vulgare -----MKISIAAAVLLALLAAT--ASAVTFD 25  
 TC138442-S.tuberosum -----LAKIISFLASL---IILAIFT--QKINAVDYS 28  
 CAC40754-A.belladonna -----SS---LLILAIFT--EKIHAVEYT 19  
 TC177934-L.esculentum -----MTYS 4  
 AB024600-N.tabacum ---MCKMTEAIFVFSQVKRAHHKIFFFYS---LFVLAIFT--QKIHAVDYS 43  
 TC10042-N.benthamiana -----AHHKIFFISS---LFFLAMFT--QKIHAVDYS 27  
 TC4719-C.annuum -----XKLAMAHKIFLISS---LFVLAIFT--PKIQAVDYS 31  
 TC139656-S.tuberosum -----MANNIFFISS---LFVLAIFT--QKIDAVDYS 27  
 ES890646-L.esculentum -----GITSIANKQWLITFSSFLFYLSWLYSPKKMEAVDYF 36  
 EL457225-H.tuberosus -----MAHKIS---FLSFLGILAAALRLATAVDYT 26  
 EE626872-H.argophyllus -----HKWLTRSP---FLSFLAILAALQLATAVDYT 28  
 TC16809-H.annuus -----MTHKISS---FLSFLAILAALQLATAVDYT 27  
 DY942788-H.petiolaris -----MAHNISS---FLSFLAIFAALQTTAVDYT 27  
 DY976880-L.satiba -----MATKISF---FLSSLAILAALQLSSAVDYS 27  
 DW104685-L.serriola -----KMVTKISF---FLSSLAILAALQLSSAVDYS 28  
 EH786028-C.solstitialis -----MAHKLSF---FLPSLAILATLQLITAVGYT 27  
 FF387787-V.unguiculata -----MIKHVLCFLVFLHA---FHRTHGVEYS 24  
 TC229090-G.max -----MINHALCFLVFLSA---LHATHGVEYT 24  
 FE688718-P.vulgaris -----MTMYVVCFLFLFAA---MQGTEAVEYS 24  
 TC228120-G.max -----MAMRSLCFLVFLAAA---MQGTLAVDYT 25  
 TC10233-L.japonicus -----MKMHFIGLLIFLTA---MQGTRAVDYT 24  
 TC101211-M.truncatula XEPQTHPPTEINLRALSTSTNTNTIMHTLYFFLVLAI--IHGIQAVDYS 48  
 EH042620-A.stenosperma -----MKHTHETTLCFLVFLIILAAGRMQSSAVDYT 30  
 XM\_361710-M.grisea -----MVNMRKSDLTSAVRDPNALFQLPMSAVGDEPRATAAE 38

AF079526-T.aestivum ASNK--ASGTSG-----GRR----- 39  
 TC234692-T.aestivum ASNK--ASGTSG-----GRR----- 39  
 Y14202-H.vulgare ASNT--ASGTAG-----GQR----- 39  
 TC369550-Z.mays ATNT--ASDTPG-----GQR----- 42  
 TC108700-S.bicolor ATNA--ASSTAG-----GKR----- 51  
 TC300387-O.satiba RGRSRGAHGRRGR-----DGRRRDVRREHGVEHRR 66  
 CT835760-O.satiba ATNT--ASNTAG-----GQR----- 39  
 Y14201-H.vulgare VTNE--ASSTAG-----GQR----- 38  
 TC138442-S.tuberosum VTNR--AVNTPG-----GAR----- 41  
 CAC40754-A.belladonna VTNR--AANTPG-----GAR----- 32  
 TC177934-L.esculentum ITNT--AANTPG-----GAR----- 17  
 AB024600-N.tabacum VTNT--AANTAG-----GAR----- 56  
 TC10042-N.benthamiana VANT--ATNTAG-----GAR----- 40  
 TC4719-C.annuum VTNT--ASNTPG-----GAR----- 44  
 TC139656-S.tuberosum VTNT--AANTPG-----GAR----- 40  
 ES890646-L.esculentum VTNT--AANTPG-----GAR----- 49  
 EL457225-H.tuberosus ITNT--ATAIPG-----GVR----- 39  
 EE626872-H.argophyllus VTNT--ATAIPG-----GVR----- 41  
 TC16809-H.annuus VTNT--AAATPG-----GVR----- 40  
 DY942788-H.petiolaris VTNR--AAATPG-----GVK----- 40  
 DY976880-L.satiba VTNR--AAATPG-----GVK----- 40  
 DW104685-L.serriola VTNR--AAATPG-----GVK----- 41  
 EH786028-C.solstitialis VTHT--AASTPG-----GIR----- 40  
 FF387787-V.unguiculata VTNK--ALSTPG-----GVA----- 37



EL457225-H.tuberosus	DMDGVAYAS-----NNEIHVSARYIQGYS-----GDVKTEITG	116
EE626872-H.argophyllus	DMDGVAYAS-----NNEIHVSARYIQGYS-----GDVKTEITG	118
TC16809-H.annuus	DMDGVAYAS-----NNEIHVSARYIQGYS-----GDVKTEITG	117
DY942788-H.petiolaris	DMDGVAYAS-----NNEIHVSARYIQGYS-----GDVKTEITG	117
DY976880-L.sativa	DMDGVAYTS-----GNEIHVSARYIQGYS-----GDVKTEITG	117
DW104685-L.serriola	DMDGVAYTS-----GNEIHVSARYIQGYS-----GDVKTEITG	118
EH786028-C.solstitialis	DMDGVAYAI-----NNEIHVSARYIQGIS-----GDPKTEITG	117
FF387787-V.unguiculata	DMDGVAYTS-----NDQIHLSARYVGNQY-----GDVKREIVG	114
TC229090-G.max	DMDGVAYTS-----NNQIHLSARYVGNK-----GDVKTEITG	114
FE688718-P.vulgaris	DMDGVAYTS-----NDEIHVSARYVNGYS-----GDVREITG	114
TC228120-G.max	DMDGVAYTS-----NDEIHLSARYVNDYS-----GDLKTEITG	115
TC10233-L.japonicus	DMDGVAYTS-----NNEIHLSARYVNSYG-----GDLKREISG	114
TC101211-M.truncatula	DMDGVAYTS-----NNEIHLSARYVNSYG-----GDLKREITG	138
EH042620-A.stenosperma	DMDGVAYTS-----NNEIHLSARYVGSYS-----GDVKTEITG	121
XM_361710-M.grisea	DMDGVAYTTGSELDSDHKEIHFSLHYIESISKREKCSGDENDGIAHEIVG	188
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AF079526-T.aestivum	VLYHEATHVWQWNGPG-QANGGLIEGIADYVRLKAGFAPGHVWPKQGDR	164
TC234692-T.aestivum	VLYHEATHVWQWNGQG-RANGGLIEGIADYVRLKAGFAPGHVWPKQGDR	165
Y14202-H.vulgare	VLYHEATHVWQWNGRG-TANGGLIEGIADYVRLKAGLAPGHWRPQGSQDR	165
TC369550-Z.mays	VLYHETTHVWQWDGQG-QANGGLIEGIADYVRLKAGYAPGHVWPKQGDR	168
TC108700-S.bicolor	VLYHEVTHVWQWDGQG-KANGGLIEGIADYVRLKAGYAPGHVWPKQGDR	177
TC300387-O.sativa	VLYHEATHVWQWDGGR-GADGGLIEGIADFVRLRAGYAPPHVWPKQGDR	198
CT835760-O.sativa	VLYHEATHVWQWDGGR-GADGGLIEGIADFVRLRAGYAPPHVWPKQGDR	168
Y14201-H.vulgare	VLYHEVVHVWQWGLQDYHEHHGIFEGIADYVRLKAGYVAANVWKEGGGSR	168
TC138442-S.tuberosum	VLYHENTHIWQWNGNG-RAPGGLIEGIADYVRLKAGYAPSHVWPKQGDR	167
CAC40754-A.belladonna	VLYHECTHVWQWNGNG-RAPGGLIEGIADYVRLKAGLAPSHVWPKQGDR	158
TC177934-L.esculentum	-----APGGLIEGIADYVRLKAGLGLSHVWPKQGDR	111
AB024600-N.tabacum	VLYHESTHVWQWNGNG-GAPGGLIEGIADYVRLKAGFAPSHVWPKQGDR	182
TC10042-N.benthamiana	VLYHESTHVWQWNGNG-GAPGGLIEGIADYVRLKAGFAPSHVWPKQGDR	166
TC4719-C.annuum	VLYHESTHVWQWNGNG-GAPGGLIEGIADYVRLKAGLGP SHVWPKQGDR	170
TC139656-S.tuberosum	VLYHEATHVWQWNGNG-GAPGGLIEGIADYVRLKAGLGP SHVWPKQGNR	166
ES890646-L.esculentum	VLYHEATHVWQWNNAN-GAPEGLIEGIADYVRLKAGLGP SHVWPK-QGDR	174
EL457225-H.tuberosus	VLYHEMTHIWQWNGNG-QAPGGLIEGIADYVRLKAGYAPSHVWPKQGDR	165
EE626872-H.argophyllus	VLYHEMTHIWQWNGNG-QAPGGLIEGIADYVRLKAGYAPSHVWPKQGDR	167
TC16809-H.annuus	VLYHEMTHIWQWNGNG-QAPGGLIEGIADYVRLKAGYAPSHVWPKQGDR	166
DY942788-H.petiolaris	VLYHEMTHIWQWDGKG-QAPGGLVEGIADYVRLKAGYAPSHVWRPQGDR	166
DY976880-L.sativa	VLYHEMTHVWQWNGNG-QAPGGLIEGIADYVRLKAGYAPSHVWRPQGNK	166
DW104685-L.serriola	VLYHEMTHVWQWNGNG-QAPGGLIEGIADYVRLKAGYVPSHVWRPQGNK	167
EH786028-C.solstitialis	VLYHESTHVWQWNGNG-NAPGGLIEGIADYVRLKAGYIPGHVWPKQEGDR	166
FF387787-V.unguiculata	VLYHEMVHVWQWNGNG-GAPGGLIEGIADFVRLKANYAPSHVWKAGQGQK	163
TC229090-G.max	VLYHEMVHVWQWSNG-RAPGGLIEGIADYVRLKANYAPSHVWKAGQGQK	163
FE688718-P.vulgaris	VLYHEMVHVWQWSG----PTGVIEGIADYVRLKANYAPSHVWPKPEGQK	159
TC228120-G.max	VLYHEMVHVWQWNGNG-QTPSGLIEGIADYVRLKANYAPSHVWKAGQGEK	164
TC10233-L.japonicus	VLYHEMVHVWQWNGNG-GAPGGLIEGIADYVRLKADYAPSHVWPKQGNK	163
TC101211-M.truncatula	VLYHEMTHVWQWNGNG-QANGGLIEGIADYVRLKANYAPSHVWPKQGNK	187
EH042620-A.stenosperma	VLYHEMTHVWQWNGNG-QAPGGLIEGIADFVRLKANLGP SHVWPKQGNK	170
XM_361710-M.grisea	VITHELHVCYQWDAKG-TCPGGLIEGIADFVRLRCLSPPHWKELDG-S	236
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AF079526-T.aestivum	WDQGYDVTARFLDYCDS--LKP GFVAHVNAKMKSGYTDD--FFAQILGKN	210
TC234692-T.aestivum	WDQGYDVTARFLDYCDS--LKP GFVAQLNAKMKSGYTDD--FFAQILGKN	211
Y14202-H.vulgare	WDQGYDITARFLDYCDS--LMP GFVAQLNAKMKSGYSDD--FFAQILGKN	211
TC369550-Z.mays	WDQGYDVTARFLDYCDS--LKP GFVALLNAKMKDGYTDD--FFAQILGKT	214
TC108700-S.bicolor	WDQGYDVTARFLDYCDS--LKP GFVAQLNAKMKGGYSDD--FFAQILGKN	223
TC300387-O.sativa	WDQGYDVTARFLDYCDS PAVVQGFVAQLNGKMKDGYSD--FFVQISGKT	246
CT835760-O.sativa	WDQGYDVTARFLDYCDS PAVVQGFVAQLNGKMKDGYSD--FFVQISGKT	216
Y14201-H.vulgare	WDEGYDVTARFLDYCDS--RKP GFVAEMNGKLDGYND--YFVQILGTS	214
TC138442-S.tuberosum	WDQGYDVTARFLDYCNS--LKS GFVAQLNKKMRTGYSNQ--YFVDLMGKT	213
CAC40754-A.belladonna	WDQGYDVTARFLDYCNS--LKN GFVAQLNKKMRNGYSNQ--FFVELLGKT	204
TC177934-L.esculentum	WDQGYDVTAQFLNYCNS--LRN GFVAELNKKMNGYSQ--FFVDLLRKT	157
AB024600-N.tabacum	WDQGYDVTARFLDYCNS--LRN GFVAQLNKKMRTGYSNQ--FFIDLLGKT	228
TC10042-N.benthamiana	WDQGYDVTARFLDYCNS--LRN GFVAQLNKKMRTGYSNQ--FFVDLLGKT	212
TC4719-C.annuum	WDQGYDVTARFLDYCNS--LRN GFVAELNKKMRSG-----	203

TC139656-S.tuberosum	WDQGYDVTAQFLDYCNS--LRNGFVAELNKKMRNGYSDQ--FFVDLLGKT	212
ES890646-L.esculentum	W-QGY-VTAQF-DYCN---LRNG--VALNKKMRNGYNDQ--FF-----	207
EL457225-H.tuberosus	WDQGYDVTARFLDYCNG--LRDGFVAELNKKMRDGYNDG--FFVDLLGKT	211
EE626872-H.argophyllus	WDQGYDVTAQFLDYCNG--LRDGFVAELNKKMRDGYNDG--FFVDLLGKT	213
TC16809-H.annuus	WDQGYDVTARFLDYCNG--LRDGFVAELNKKMRDGYNDG--FFVDLLGKT	212
DY942788-H.petiolaris	WDQGYDVTARFLDYCNG--LRGGFVAELNKKMRSGYDNG--FFVLLGKT	212
DY976880-L.sativa	WDQGYDVTARFLDYCNG--RRSGFVAELNKKMRNGYNDG--YFVDLLGKT	212
DW104685-L.serriola	WDQGYDVTARFLDYCNG--RRRGFVADLNKKMRNGYNDG--YFVDLLGKS	213
EH786028-C.solstitialis	WDQGYDVTARFLDYCNG--LRNGFVAELNKKMRDGYSDG--FFVDLLGKT	212
FF387787-V.unguiculata	WDQGYDVTARFLDYCNT--LKGGFVAQLNKLNRNGCSDQ--YFVLLGKP	209
TC229090-G.max	WDQGYDVTARFLDYCDS--LKSGFVAQLNKLNRNGYSDQ--YFVLLGKP	209
FE688718-P.vulgaris	WDQGYDVTARFLDYCDS--LKSGFVAQLNQMRSGYSDE--LFVLLGKT	205
TC228120-G.max	WDQGYDVTARFLDYCDS--LKSGFVAQLNQMRDGYSDQ--LFVLLGKT	210
TC10233-L.japonicus	WDHGYDVTARFLDYCNG--LKNGFVAELNKKMRNGYSDQ--FFVLLGKS	209
TC101211-M.truncatula	WDQGYDVTARFLDYCDT--LRSGFVAELNKLNRNGYSDQ--FFVLLGKT	233
EH042620-A.stenosperma	WDQGYDVTARFLDYCNG--LKNGFVADLNKLLN-GYSDQ--FFVLLGKT	215
XM_361710-M.grisea	WDRGYQHTAYFLDYLECR-FGDGTVRKINEGLRTRKYEEKPFWTEIVGRP	285
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AF079526-T.aestivum	VQQLWKDYKAKFRG-----	224
TC234692-T.aestivum	VQQLWKDYKAKFRG-----	225
Y14202-H.vulgare	VQQLWKDYKAKFGG-----	225
TC369550-Z.mays	VQQLWQDYKAKYGG-----	228
TC108700-S.bicolor	VQQLWKDYKAKYGG-----	237
TC300387-O.sativa	IDQLWQDYKAKYGG-----	260
CT835760-O.sativa	VDQLWQDYKAKYGG-----	230
Y14201-H.vulgare	ADQLWNDYKAKYSQG-----	229
TC138442-S.tuberosum	VDQLWRDYKAKFPMTNELV-----	232
CAC40754-A.belladonna	VDQLWSDYKAKFRAEHDIA-----	223
TC177934-L.esculentum	VDQLWGDYKAKFRGNFRLNRE-----	178
AB024600-N.tabacum	VDQLWSDYKAKFRA-----	242
TC10042-N.benthamiana	VDQLWNDYKAKFRA-----	226
TC4719-C.annuum	-----	
TC139656-S.tuberosum	VDQLWSDYKAKFGA-----	226
ES890646-L.esculentum	-----	
EL457225-H.tuberosus	VDQLWAEYKA-----	221
EE626872-H.argophyllus	VDQLWAEYKATEYK-----	227
TC16809-H.annuus	VDQLWAEYKAT-----	223
DY942788-H.petiolaris	VDQLWAEYKANAN-----	225
DY976880-L.sativa	VAQLWAEYKA-----	222
DW104685-L.serriola	VAQLWAEYKA-----	223
EH786028-C.solstitialis	VDQLWAEYKA-----	222
FF387787-V.unguiculata	VDQLWRDYKAKYGNATAED-----	227
TC229090-G.max	VDQLWRDYKAKYGNIA-----	225
FE688718-P.vulgaris	VDQLWQE-----	212
TC228120-G.max	VDQLWQDYKAKYGTS-----	225
TC10233-L.japonicus	VDQLWTDYKAKYGNIA-----	225
TC101211-M.truncatula	VNQLWTEYKAK-----	244
EH042620-A.stenosperma	VDQLWEDYKAKYGHLS-----	231
XM_361710-M.grisea	VEQLWADYVKASKCEDDEPAVAETAKAVA	313

**Fig. S1.** Alignment of 30 amino acid sequences of PRp27 homologues from plants in four different families. A homologue from fungus *Magnaporthe grisea* (XM\_361710) was included for comparison. Sequences were aligned using CLUSTALX. A description of the sequences is provided in Table 1.

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NbPRp27          -----AHHKIFFISSLFFLAMFTQKIHAVDYSVANTATNTAGGARFNRD 44
NtPRP27 (AB024600) MKKMTEAIFVFSQVKRAHHKIFFFYSLFVLAIFTQKIHAVDYSVTNTAANTAGGARFNRD 60
                    *****: ***. **:*****:***:*****

NbPRp27          IGAQYSQQTLEAATSFIWNTFQQNSPADRKNVQKVSFVDDMDGVAYASNNEIHVSAHYI 104
NtPRP27 (AB024600) IGAQYSQQTLEAATSFIWNTFQQNFPADRKNVQKVSFVDDMDGVAYASNNEIHVSASYI 120
                    ***** ***** *****

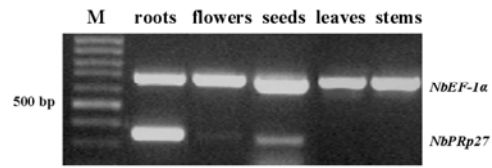
NbPRp27          QGYSGDVRRREITGVLYHESHTHVQWNGNGGAPGGLIEGIADYVRLKAGFGPSHWVKPGQG 164
NtPRP27 (AB024600) QGYSGDVRRREITGVLYHESHTHVQWNGNGGAPGGLIEGIADYVRLKAGFAPSHWVKPGQG 180
                    ***** ***** *****

NbPRp27          DRWDQGYDVTARFLDYCNLSLRNGFVAQLNKKMRTGYSNQFFVDLLGKTVDQLWNDYKAKF 224
NtPRP27 (AB024600) DRWDQGYDVTARFLDYCNLSLRNGFVAQLNKKMRTGYSNQFFIDLLGKTVDQLWSDYKAKF 240
                    ***** ***** *****

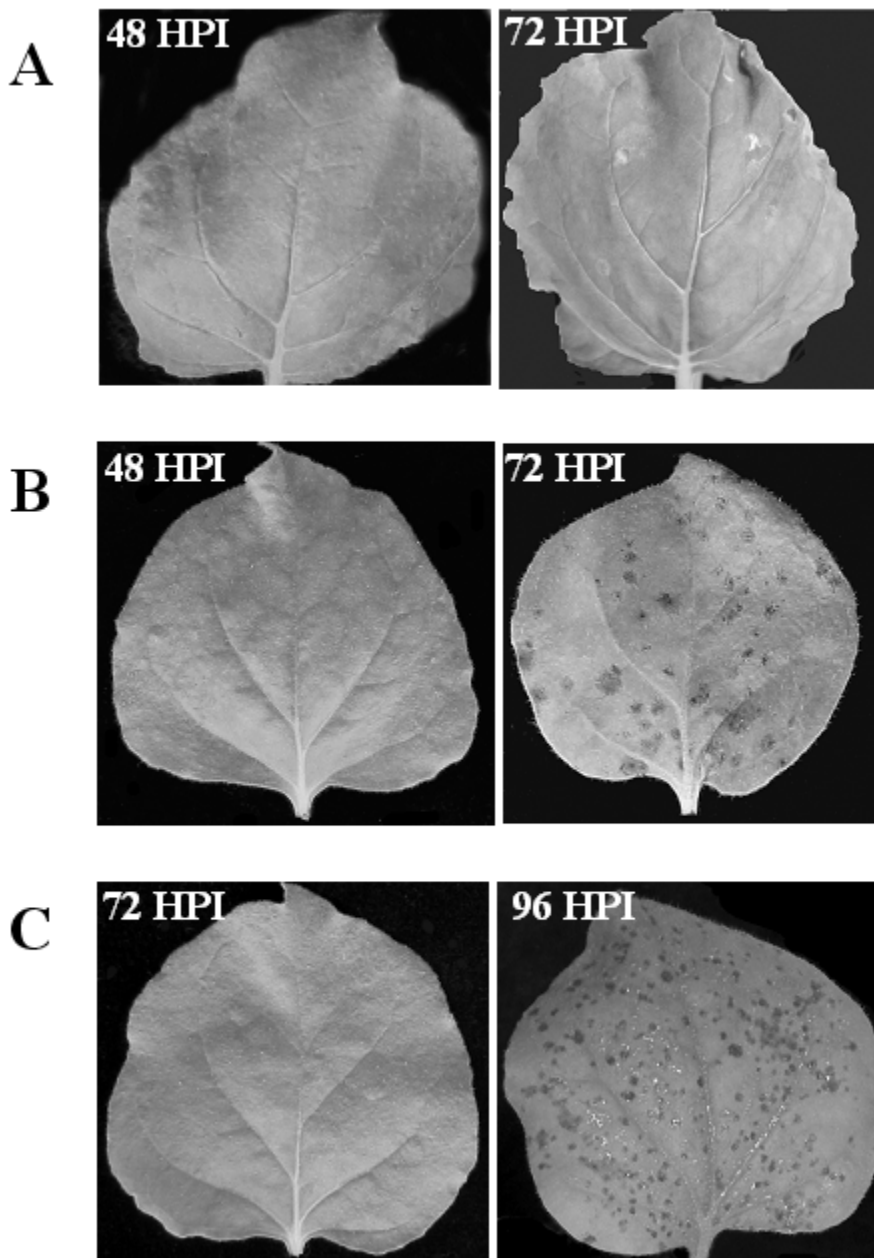
NbPRp27          RA 226
NtPRP27 (AB024600) RA 242
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**Fig. S2.** A comparison of Box A-Box E (Christensen *et al.* 2002) between *NtPRp27* and *NbPRp27*. Sequences were aligned using CLUSTALW2 (<http://www.ebi.ac.uk/Tools/clustalw2/index.html>).



**Fig. S3.** Gel picture of relative RT-PCR of *NbPRp27* in different tissues of *N. benthamiana*. *NbPRp27* was co-amplified with *NbEF-1α* using cDNA from roots, flowers, seeds, leaves or stems. Lane M is the 100 bp ladder.



**Fig. S4.** Images of *N. benthamiana* leaves infected by (A) *P. syringae* pv. *tabaci*, (B) *C. destructivum* and (C) *C. orbiculare* during biotrophy or necrotrophy. Images were taken of the youngest fully matured leaf during the symptomless biotrophic phase of infection at 48 HPI with *P. syringae* pv. *tabaci*, 48 HPI with *C. destructivum* and 72 HPI with *C. orbiculare*., or the necrotrophic phase of infection at 72 HPI with *P. syringae* pv. *tabaci*, 72 HPI with *C. destructivum* and 96 HPI with *C. orbiculare*.