strain ¹	background (VCG)	genotype ⁶	constructed using plasmid(s)			
Analyses of CAT-mediated fusion (Fig. 1) and post-fusion cellular behavior (Fig. 2)						
PH H1-mCherry (a) PH H1-sGFP (b)	PH (2A) PH (2A)	nitM, VdH1-mCherry, neo ^R nit1, NcH1-sgfp, hph	pVV19 pMF357			
Ls.17 H1-mCherry ² (c)	Ls.17 (2B)	nit1, VdH1-mCherry-ble ^R	fusion PCR			
Ls.17 H1-mCherry neo	Ls.17 (2B)	nit1, VdH1-mCherry-ble ^R , neo ^R	fusion PCR; pBS-gen			
Ls.17 H1-sGFP (d)	Ls.17 (2B)	nitM, NcH1-sgfp, hph	pMF357			
Cf.38 H1-sGFP (e)	Cf.38 (2B ³)	nitM, NcH1-sgfp, hph	pMF357			
115 H1-sGFP (f)	115 (2B)	nitM, NcH1-sgfp, hph	pMF357			
BB H1-sGFP (g)	BB (4A)	nit1, NcH1-sgfp, hph	pMF357			
Ca.146 H1-sGFP (h)	Ca.146 (6)	nitM, NcH1-sgfp, hph	pMF357			
Ca.148 H1-mCherry (i)	Ca.148 (6)	nit1, VdH1-mCherry, neo ^R	pVV19			
Ls.17 sGFP ²	Ls.17 (2B)	sgfp, hph	pIGPAPA			
Cf.38 sGFP	Cf.38 (2B ⁵)	sgfp, hph	pIGPAPA			
PH sGFP	PH (2A)	sgfp, hph	pIGPAPA			
Complementation assays (Fig. 3)						
T9.M ³ (A)	T9 (1A)	<i>nit</i> M	-			
V607I.M ³ (B)	V607I (1B)	<i>nit</i> M	-			
123V.M ² (C)	123V (2A)	<i>nit</i> M	-			
115.M ³ (D)	115 (2B)	<i>nit</i> M	-			
Cf.38.M ³ (E)	Cf.38 (2B ⁵)	<i>nit</i> M	-			
PCW.M ³ (F)	PCW (3)	<i>nit</i> M	-			
Dvd-E6.M ³ (G)	Dvd-E6 (4A)	<i>nit</i> M	-			
S39.M ³ (H)	S39 (4B)	<i>nit</i> M	-			
Ca.146.M ³ (I)	Ca.146 (6)	<i>nit</i> M	-			
V13.M ³ (J)	V13 (HSI⁴)	<i>nit</i> M	-			
Ms.102.M ³ (K)	V. nonalfalfae Ms.102	<i>nit</i> M	-			
V44.1 ³ (L)	V44 (1A)	nit1	-			
V661I.1 ³ (M)	V661I (1B)	nit1	-			
PH.1 ³ (N)	PH (2A)	nit1	-			
Ls.17.1 ³ (O)	Ls.17 (2B)	nit1	-			
70-21.1 ³ (P)	70-21 (3)	nit1	-			

BB.1 ³ (Q)	BB (4A)	nit1	-
V684I.1 ³ (R)	V684I (4B)	nit1	-
Ca.148.1 ³ (S)	Ca.148 (6)	nit1	-
Cf.162.1 ³ (T)	Cf.162 (HSI ^{4,5})	nit1	-
T2.1 ³ (U)	V. nonalfalfae T2	nit1	_

Mixed infection experiments

Ls.17 neo ^R	Ls.17 (2B)	neo ^R	pBS-genR
Ls.17 hph	Ls.17 (2B)	hph	pUCATPH
Cf.38 hph	Cf.38 (2B ⁵)	hph	pUCATPH
PH hph	PH (2A)	hph	pUCATPH
BB hph	BB (4A)	hph	pUCATPH
Ca.146 hph	Ca.146 (6)	hph	pUCATPH

Analyses of autophagic genes

Ls.17 mCherry-atg8	Ls.17 (2B)	mCherry-atg8	pVV27; pVV25
Ls.17 H1-mChery sGFP-atg8	Ls.17 H1-mCherry neo	nit1, VdH1-mCherry-ble ^ĸ , neo ^R , sGFP-atg8	pVV27; pVV26
Ls.17-∆atg1	Ls.17 H1-mCherry neo	nit1, VdH1-mCherry-ble ^R , neo ^R , Δatg1::hph	pOSCAR-atg1
Ls.17-∆atg8	Ls.17 H1-mCherry	nit1, VdH1-mCherry-ble ^R , atg8::neo ^R	pVV27; 5'H _{atg8} - <i>neo</i> ^R -3'H _{atg8} (H: 100 bp-long homology arms)
PH-∆atg1	PH (2A)	∆atg1::hph	pOSCAR-atg1
Ls.17-∆atg1-c	Ls.17-∆atg1	∆atg1::hph, neo ^R	pBS-genR, wild-type atg1
Ls.17-∆atg8-c	Ls.17-∆atg8	atg8:: neo ^R , hph	pUCATPH, wild-type atg8

¹ Single-letter codes (in brackets) correspond to the strains shown in Fig. 1 and 3.

- ² Reference: [37].
- ³ Reference: [36].
- ⁴ HSI: Heterokaryon Self-Incompatible.
- ⁵ Isolates Cf.38 and Cf.162 were originally classified into VCG 6, but their classification was later re-assessed [38].
- ⁶ Vd: Verticillium dahliae; Nc: Neurospora crassa.