

**Supplemental Table 1. Biological Material**

Biological material	Relevant characteristics	Reference
Fungal strains		
<i>Epichloë festucae</i>		
F11 (PN2278)	Wild-type	(Young <i>et al.</i> , 2005)
FR2 (PN2325)	F11/ <i>noxA</i> ::pAN7-1; Hyg <sup>R</sup>	This study
C5 (PN2331)	FR2/pPN74; Hyg <sup>R</sup> ; Gen <sup>R</sup>	This study
C8 (PN2332)	FR2/pPN74; Hyg <sup>R</sup> ; Gen <sup>R</sup>	This study
WG11 (PN2467)	F11/pPN82; Hyg <sup>R</sup>	This study
FR2G6 (PN2468)	FR2/pII99; pPN83; Hyg <sup>R</sup> ; Gen <sup>R</sup>	This study
A17 (PN2326)	F11/ $\Delta$ <i>noxA</i> :: <i>P<sub>trpC</sub>-hph</i> ; Hyg <sup>R</sup>	This study
A44 (PN2327)	F11/ $\Delta$ <i>noxA</i> :: <i>P<sub>trpC</sub>-hph</i> ; Hyg <sup>R</sup>	This study
B7 (PN2469)	F11/ $\Delta$ <i>noxB</i> :: <i>P<sub>trpC</sub>-nptII-T<sub>trpC</sub></i> ; Gen <sup>R</sup>	This study
A44.B29 (PN2470)	A44/ $\Delta$ <i>noxB</i> :: <i>P<sub>trpC</sub>-nptII-T<sub>trpC</sub></i> ; Hyg <sup>R</sup> ; Gen <sup>R</sup>	This study
Bacterial strains		
<i>Escherichia coli</i>		
DH5 $\alpha$	F <sup>-</sup> , $\phi$ 80 <i>lacZ</i> , $\Delta$ M15, $\Delta$ ( <i>lacZYA-argF</i> ), U169, <i>recA1</i> , <i>endA1</i> , <i>hsdR17</i> ( $r_k^-$ , $m_k^-$ ), <i>phoA</i> , <i>supE44</i> , $\lambda^-$ , <i>thi-1</i> , <i>gyrA96</i> , <i>relA1</i>	Invitrogen

TOP10	$F^-$ , <i>mcrA</i> , $\Delta(mrr-hsdRMS-mcrBC)$ , $\phi 80lacZ\Delta M15$ , <i><math>\Delta lacX74</math></i> , <i>deoR</i> , <i>recA1</i> , <i>araD139</i> , $\Delta(ara-leu)7697$ <i>galU</i> , <i>galK</i> , <i>rpsL(Str<sup>R</sup>)</i> , <i>endA1</i> , <i>nupG</i>	Invitrogen
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Plasmids

pBlueScriptII <sup>®</sup> KS(+)	Amp <sup>R</sup>	Stratagene
pGEM <sup>®</sup> -T easy	Amp <sup>R</sup>	Promega
pPN1686 (PN1961)	pFunGus containing 1.4-kb <i>HindIII</i> ( <i>HpaI</i> plus linkers) fragment from pCB1004; Amp <sup>R</sup> /Hyg <sup>R</sup>	This study
pII99 (PN1687)	Amp <sup>R</sup> /Gen <sup>R</sup> ( <i>PtpC-nptII-TtrpC</i> )	(Namiki <i>et al.</i> , 2001)
pPN70 (PN1962)	pMOcosX <i>noxA</i> cosmid	This study
pPN71 (PN1963)	pMOcosX <i>noxB</i> cosmid	This study
pPN72 (PN1964)	15-kb <i>ClaI</i> fragment containing pAN7-1 from FR2	This study
pPN73 (PN1965)	pBlueScriptII <sup>®</sup> KS(+) containing 5.1-kb <i>XbaI/XhoI</i> <i>noxA</i> fragment	This study
pPN74 (PN1966)	pII99 containing 5.1-kb <i>XbaI/XhoI</i> <i>noxA</i> fragment ex pPN70	This study
pPN75 (PN1967)	pBlueScriptII <sup>®</sup> KS(+) containing 5' <i>noxA</i> - <i>PtpC</i> - <i>hph</i> -3' <i>noxA</i> ; Amp <sup>R</sup> /Hyg <sup>R</sup>	This study
pPN76 (PN1968)	pBlueScriptII <sup>®</sup> KS(+) containing 5.6-kb <i>XhoI</i> <i>noxB</i> fragment	This study
pPN77 (PN1969)	pBlueScriptII <sup>®</sup> KS(+) containing 2.7-kb <i>XhoI</i> <i>noxB</i> fragment	This study

pPN78 (PN1970)	pBlueScriptII <sup>®</sup> KS(+) containing 5' <i>noxB</i> - <i>PtrpC</i> - <i>nptII</i> - <i>TtrpC</i> -3' <i>noxB</i> ; Amp <sup>R</sup> /Gen <sup>R</sup>	This study
pPN82 (PN1878)	pBlueScriptII <sup>®</sup> KS(+) containing 1.4-kb <i>HindIII</i> fragment from pCB1004 and <i>Pgpd</i> -EGFP- <i>TtrpC</i> ; Amp <sup>R</sup> /Hyg <sup>R</sup>	This study
pPN83 (PN1874)	pBlueScriptII <sup>®</sup> KS(+) containing <i>Pgpd</i> -EGFP- <i>TtrpC</i> ; Amp <sup>R</sup>	This study

#### Plant material

##### *Lolium perenne*

G1492	<i>L. perenne</i> /F11	This study
G1495	<i>L. perenne</i> /F11	This study
G1496	<i>L. perenne</i> /F11	This study
G1506	<i>L. perenne</i> /C5	This study
G1508	<i>L. perenne</i> /C5	This study
G1511	<i>L. perenne</i> /C5	This study
G1512	<i>L. perenne</i> /C8	This study
G1513	<i>L. perenne</i> /C8	This study
G1516	<i>L. perenne</i> /C8	This study
G1881	<i>L. perenne</i> /FR2	This study
G1882	<i>L. perenne</i> /FR2	This study
G1883	<i>L. perenne</i> /FR2	This study
G1521	<i>L. perenne</i> - uninfected	This study

G1522	<i>L. perenne</i> - uninfected	This study
G1531	<i>L. perenne</i> /A17	This study
G1534	<i>L. perenne</i> /A17	This study
G1536	<i>L. perenne</i> /A44	This study
G1884	<i>L. perenne</i> /A44	This study
G1885	<i>L. perenne</i> /WG11	This study
G1886	<i>L. perenne</i> /FR2G6	This study
G1945	<i>L. perenne</i> /F11	This study
G1946	<i>L. perenne</i> /F11	This study
G1947	<i>L. perenne</i> /F11	This study
G1948	<i>L. perenne</i> /A44	This study
G1949	<i>L. perenne</i> /A44	This study
G1950	<i>L. perenne</i> /A44	This study

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