

**Table 6. Transformation vectors and clones used in this study**

Plasmid, kb	Characteristics	Reference
Cloning vector		
pUCATPH (5.1)	REMI vector containing the <i>E. coli hygB</i> gene fused to the <i>Aspergillus nidulans trpC</i> promoter	1
pGPDH-Bar.1 (4.2)	Vector containing the <i>Streptomyces hygroscopicus bar</i> gene fused to the <i>C. heterostrophus GPD</i> promoter	2
Clones recovered from the REMI insertion site in R.C4.2696		
p214B7 (9.2)	Religation of <i>Bgl</i> III-digested genomic DNA	This study
p214S1 (9.3)	Religation of <i>Sac</i> I-digested genomic DNA	This study
Clones for targeted integration in <i>C. heterostrophus</i>		
p214S1N (3.3)	Religation of <i>Nar</i> I-digested p214S1; it contains a <i>Nar</i> I- <i>Sac</i> I fragment of genomic DNA ligated to pUC18	This study
p214SNP (8.4)	<i>Hind</i> III-digested pUCATPH inserted in the <i>Hind</i> III site of p214S1N	This study
p118BSP (7.3)	A 2.2-kb <i>Sac</i> I fragment of p118B14 in the <i>Sac</i> I site of pUCATPH	This study
Clones recovered from targeted sites in <i>C. heterostrophus</i>		
p118B14 (10.4)	From the p214SNP integration site in C5 transformant 118 by ligation of a <i>Bgl</i> III-digested genomic fragment containing the entire vector	This study
p118BC4 (6.7)	From p214SNP integration site in C5.118 by ligation of <i>Bcl</i> I- digested genomic DNA containing part of vector (214SNP) sequence	This study
p9P2 (7.3)	From the p118BSP integration site in C5 transformant 9 by ligation of a <i>Pst</i> I-digested genomic DNA fragment containing pUC18	This study

Plasmid, kb	Characteristics	Reference
Clones for targeted integration in <i>G. zeae</i>		
pFgC8 (4.9)	PCR cloning vector carrying a 1.0-kb fragment of <i>GzCPS1</i>	This study
pFgC8-hygB (7.1)	pFgC8 plus a 2.2-kb <i>XbaI</i> fragment of pUCATPH containing the <i>hygB</i> cassette	This study
Clones recovered from targeted site in <i>G. zeae</i>		
p1103X (8.3)	From the pFgC8-hygB integration site in transformant Tx4 by ligation of a <i>XhoI</i> -digested genomic fragment containing 5' region of <i>GzCPS1</i> (1.8 kb)	This study
p1102S (9.4)	From the pFgC8-hygB integration site in transformant Tx4 by ligation of a <i>SpeI</i> -digested genomic fragment containing 3' region of <i>GzCPS1</i> (4.2 kb)	This study
pFgCPS1 (10.3)	pGPDH-Bar.1 carrying the entire <i>GzCPS1</i> ORF and 5' and 3' untranslated regions	This study

1. Lu, S. W., Lyngholm, L., Yang, G., Bronson, C., Yoder, O. C. & Turgeon, B. G. (1994) *Proc. Natl. Acad. Sci. USA* **91**, 12649-12653.

2. Straubinger, B., Straubinger, E., Wirsal, S., Turgeon, G. & Yoder, O. (1992) *Fungal Genet. Newslett.* **39**, 82-83.