

S7 Table: Plasmids and fungal strains used in this study.

Plasmids/Strains	Description	Reference
Plasmids		
Ppk2-OSCAR-GFP	Plasmid for construction of gene disruption plasmid	Xu et al., 2014
pA-Bar	Plasmid for construction of gene disruption plasmid	Xu et al., 2014
pPK2-Ptef	For expression of <i>Pks1</i> of <i>M. robertsii</i> in <i>M. album</i>	Guo et al., 2017
pYH-WA-pyrG	<i>URA3</i> , <i>WA flanking</i> , <i>AfpyrG</i> , <i>Amp</i>	Yin et al., 2013
pYH-WA-pyrG-gpdA	<i>URA3</i> , <i>WA flanking</i> , <i>Afribo</i> , <i>Amp</i> , <i>gpdA</i>	This study
pYPZ56.1	<i>gpdA(p)::Pks1</i> in pYH-WA-pyrG-gpdA	This study
Metarhizium strains		
<i>Metarhizium robertsii</i>	ARSEF2575, a generalist	He et al., 2014
<i>Metarhizium anisopliae</i>	ARSEF549, a generalist	He et al., 2014
<i>Metarhizium brunneum</i>	ARSEF3297, a generalist	He et al., 2014
<i>Metarhizium guizhouense</i>	ARSEF977, a species with an intermediate host range	He et al., 2014
<i>Metarhizium majus</i>	ARSEF297, a species with an intermediate host range	He et al., 2014
<i>Metarhizium acridum</i>	ARSEF324, a specialist	He et al., 2014
<i>Metarhizium album</i>	ARSEF1941, a specialist	He et al., 2014
Δ Mero-Hog1	The deletion mutant of <i>Hog1-MAPK</i> in <i>M. robertsii</i>	Chen et al., 2016
Δ Mero-Fus3	The deletion mutant of <i>Fus3-MAPK</i> in <i>M. robertsii</i>	Chen et al., 2016
Δ Mero-Slt2	The deletion mutant of <i>Slt2-MAPK</i> in <i>M. robertsii</i>	Chen et al., 2016
Δ Mr-OPY2	The deletion mutant of <i>Mr-OPY2</i> in <i>M. robertsii</i>	Guo et al., 2017
Aspergillus nidulans background strains		
LO8030	<i>pyroA4</i> , <i>riboB2</i> , <i>pyrG89</i> , <i>nkuA::argB</i> , <i>sterigmatocystin cluster</i> (<i>AN7804-AN7825</i>) Δ , <i>emericellamide cluster</i> (<i>AN2545-AN2549</i>) Δ , <i>asperfuranone cluster</i> (<i>AN1039-AN1029</i>) Δ , <i>monodictyphenone cluster</i> (<i>AN10023-AN10021</i>) Δ , <i>terrequinone cluster</i> (<i>AN8512-8520</i>) Δ , <i>austinol cluster part 1</i> (<i>AN8379-AN8384</i>) Δ , <i>austinol cluster part 2</i> (<i>AN9246-9259</i>) Δ , <i>F9775 cluster</i> (<i>AN7906-7915</i>) Δ , <i>asperthecin cluster</i> (<i>AN6000-AN6002</i>) Δ	(Chiang et al., 2016)
TYPZ26.1	<i>gpdA::Pks1::AfpyrG</i> in LO8030	This study