

Table S2. Genes involved in DON production

	Phenotypes of deletion mutants	Genes	Proteins
Genes involved in DON production	Decreased DON production	<i>CPK1</i>	Catalytic subunits of cyclic AMP (camp)-dependent (PKA)
		<i>FgCAP1</i>	Adenylate-binding protein
		<i>FgBCK1</i>	Protein kinase
		<i>FgMKK1</i>	
		<i>FgMGV1</i>	MAPK
		<i>FgSTE11-STE7-GPMK1</i>	MAPK
		<i>FgHOG1</i>	MAPK
		<i>FgSHO1</i>	Transmembrane protein
		<i>FgSTE50</i>	Transcription factor
		<i>FgOS1</i>	Response regulators
		<i>FgRRG1</i>	Response regulators
		<i>FgATF1</i>	Response factor
		<i>FgSTUA</i>	Transcription factor
		<i>FgPEX13, FgPEX14</i>	Docking machinery components
		<i>FgPEX33</i>	Filamentous fungal specific peroxin
		<i>HEP1</i>	Heterochromatin protein
		<i>KMT6</i>	Histone acetyltransferases
		<i>FgGCN5</i>	
		<i>ELP3</i>	
		<i>FgSAS3</i>	Inhibitor of Growth (ING) proteins
		<i>FNG1 and FNG3</i>	
		<i>FgAREA</i>	Master regulator of nitrogen assimilation
		<i>FgSKN7</i>	Transcription factor
		<i>FgSPE3</i>	Involved in spermidine biosynthesis
		<i>FgPRB1</i>	Subtilisin-like protease
	Increased DON production	<i>PDE2</i>	cAMP phosphodiesterase
		<i>FgPAC1</i>	Transcription factor
		<i>PKR</i>	Regulatory subunit of PKA
	Defective in formation of toxisomes	<i>FgSUR2</i>	Sphinganine C4-hydroxylase
		<i>FgCDC25</i>	Ras GTPase
		<i>FgMYO1</i>	Class I myosin
		<i>FgCAPA and FgCAPB</i>	Actin capping proteins

