

**Table S18.** Predicted polyketide synthases (PKS), non-ribosomal peptide synthases (NRPS) and fatty acid synthases (FAS). The *S. macrospora* genome contains three *nrps* genes, three *fas* genes, and seven *pks* genes all of which have a clear ortholog in *N. crassa* (first three parts of the table). In addition, *S. macrospora* has three additional *pks* genes and one *pks/nrps* hybrid gene for which no ortholog is present in *N. crassa* (last part of the table).

locus_tag	Scaffold	N.c. ortholog	Best BLASTP hit in non-redundant database (NCBI)		enzyme
			acc. no.	protein name and organism	
SMAC_07745	scaffold_65	NCU07119.2	ref XP_960302.1	hypothetical protein NCU07119 [ <i>Neurospora crassa</i> OR74A]	NRPS
SMAC_06097	scaffold_21	NCU04531.2	ref XP_956942.2	hypothetical protein NCU04531 [ <i>Neurospora crassa</i> OR74A]	NRPS
SMAC_09348	scaffold_138	NCU08441.2	emb CAD70509.1	related to AM-toxin synthetase (AMT) [ <i>Neurospora crassa</i> ]	NRPS
SMAC_00841	scaffold_17	NCU07308.2	ref XP_962466.1	fatty acid synthase alpha subunit reductase [ <i>Neurospora crassa</i> OR74A]	FAS
SMAC_00840	scaffold_17	NCU07307.2	ref XP_962465.1	fatty acid synthase beta subunit dehydratase [ <i>Neurospora crassa</i> OR74A]	FAS
SMAC_00143	scaffold_7	NCU00056.2	ref XP_955799.1	3-oxoacyl-[acyl-carrier-protein]-synthase [ <i>Neurospora crassa</i> OR74A]	3-oxoacyl-[acyl-carrier-protein]-synthase
SMAC_03437	scaffold_2	NCU04801.2	pdb 3E1H_A	type III polyketide synthase [ <i>Neurospora crassa</i> ]	type III PKS
SMAC_03130	scaffold_20	NCU03584.2	emb CAM35471.1	polyketide synthase [ <i>Sordaria macrospora</i> ]	type I PKS, non-reducing
SMAC_00527	scaffold_7	NCU02918.2	ref XP_965600.1	hypothetical protein NCU02918 [ <i>Neurospora crassa</i> OR74A]	type I PKS, reducing
SMAC_09261	scaffold_117	NCU04865.2	ref XP_959122.1	hypothetical protein NCU04865 [ <i>Neurospora crassa</i> OR74A]	type I PKS, reducing
SMAC_07685	scaffold_13	NCU05011.2	ref XP_955938.1	hypothetical protein NCU05011 [ <i>Neurospora crassa</i> OR74A]	type I PKS, reducing
SMAC_07941	scaffold_15	NCU06013.2	ref XP_958135.2	hypothetical protein NCU06013 [ <i>Neurospora crassa</i> OR74A]	type I PKS, reducing
SMAC_05695	scaffold_30	NCU08399.2	ref XP_963238.1	hypothetical protein NCU08399 [ <i>Neurospora crassa</i> OR74A]	type I PKS, reducing
SMAC_06009	scaffold_11	none	gb AAR92212.1	polyketide synthase [ <i>Gibberella moniliformis</i> ]	type I PKS, reducing
SMAC_01198	scaffold_17	none	ref XP_001274946.1	polyketide synthase, putative [ <i>Aspergillus clavatus</i> NRRL 1]	hybrid PKS/NRPS
SMAC_01188	scaffold_17	none	ref XP_001273596.1	polyketide synthase, putative [ <i>Aspergillus clavatus</i> NRRL 1]	type I PKS, reducing
SMAC_09000	scaffold_106	none	ref XP_001806097.1	hypothetical protein SNOG_15965 [ <i>Phaeosphaeria nodorum</i> SN15]	type I PKS, reducing