

Table S16. *S. macrospora* homologs of conidiation-related genes from different ascomycetes. Genes in this table are either involved in or differentially regulated during conidiation in *A. nidulans* or *N. crassa*.

locus tag	conidiation-related gene ¹	characteristics / remarks	e-value
SMAC_04005	<i>flbD</i>	Myb-DNA-binding protein	9e-30
SMAC_05750	<i>abaA</i>	regulatory protein AbaA	4e-11
SMAC_02716	<i>wetA</i>	regulatory protein WetA	4e-17
SMAC_04536	<i>con-6</i> (NCU08769)	conidiation-specific expression	2e-25
SMAC_02743	related to <i>con-6</i> (NCU01064)	related to conidiation protein CON-6	3e-26
SMAC_04887	<i>con-8</i> (NCU10977)	conidiation- specific expression	2e-23
SMAC_03018	<i>con-10</i> (NCU07325)	conidiation-specific expression	3e-36
SMAC_03017	<i>con-13</i> (NCU07324)	conidiation-specific expression	e-140
SMAC_01244	<i>al-1</i> (NCU00552)	phytoene dehydrogenase AL-1 (carotenoid biosynthesis, Conidiation- specific expression)	0.0
SMAC_01277	<i>al-2</i> (NCU00585)	geranylgeranyl-diphosphate geranylgeranyltransferase, Conidiation- specific expression	0.0
SMAC_06570	<i>al-3</i> (NCU20300)	farnesyltransferase	0.0
SMAC_00047	<i>fl, fluffy, acon-1</i> (NCU08726)	C6-zinc finger TF, regulator of conidiation	0.0
SMAC_08071	<i>fr</i> (NCU07483)	frost, cell division control protein 1	0.0
SMAC_04302	<i>csp-1</i> (NCU02713))	conidial septation	e-152
SMAC_03705	<i>frq</i> (NCU02265)	frequency, clock protein FRQ	0.0
SMAC_06136	<i>vivid</i> (NCU20238)	blue light receptor	2e-98
SMAC_03527	<i>wc-1</i> (NCU02356)	zinc finger protein white collar-1, blue light receptor	0.0
SMAC_00185	<i>wc-2</i> (NCU00902)	zinc finger protein white collar-2	0.0
SMAC_02423	<i>ve-1</i> (NCU01731)	velvet, blue light receptor	0.0
SMAC_06025	<i>nop-1</i> (NCU10055)	opsin, green light receptor	e-143
SMAC_02601	<i>cgg-1, grg-1</i> (NCU03753)	GRG-1 glucose-repressible gene-1 protein	5e-33
SMAC_00022	<i>cgg-2, eas, bli-7</i> (NCU08457)	hydrophobin, rodlet protein	2e-023
SMAC_05970	<i>cgg-4</i> (NCU02500)	pheromone precursor, (clock-controlled gene-4)	e-135
SMAC_06579	<i>cgg-6</i> (NCU01418)	clock-controlled gene 6	5e-60
SMAC_05057	<i>cgg-8</i> (NCU09686)	clock-controlled gene-8	e-152
SMAC_05699	<i>cgg-9</i> (NCU10053)	trehalose synthase (clock-controlled gene 9)	0.0
SMAC_05106	<i>cgg-13</i> (NCU08907)	clock-controlled gene 13	3e-67
SMAC_05542	<i>cgg-15</i> (NCU08936)	clock-controlled gene 15, related to sporulation-specific gene SPS2	0.0
SMAC_00802	<i>bli-3</i> (NCU20927)	BLI-3 blue-light-inducible Bli-3 protein	e-116
SMAC_09428	<i>bli-4</i> (NCU08699)	BLI-4 putative oxidoreductase bli-4, mitochondrial	e-179
SMAC_07111	<i>rco-1</i> (NCU06205)	transcriptional repressor similar to <i>S. cerevisiae</i> TUP1	0.0
SMAC_04199	<i>rcm-1</i> (NCU06842)	regulator of conidia morphology, general transcriptional corepressor ssn6	0.0
SMAC_06671	<i>ro-2</i> (NCU111773)	ropy-2, dynactin arp1 p62 subunit RO-2	0.0
SMAC_04005	<i>rca-1</i> (NCU01312)	regulator of conidiation, Myb-like DNA-binding	e-179

		protein myb-1	
SMAC_05781	<i>rco-3</i> (NCU02582)	glucose transporter	0.0
SMAC_07195	<i>gna-3</i> (NCU05206)	G-protein alpha subunit	0.0
SMAC_06822	<i>rrg-1</i> (NCU01895)	response regulator	0.0
SMAC_00003	<i>hst-2</i> (NCU21250)	heat shock transcription factor	e-110
SMAC_04557	<i>cat-1</i> (NCU08791)	Catalase 1	0.0
SMAC_06468	<i>cat-3</i> (NCU00355)	Catalase 3	0.0
SMAC_05035	<i>sod-1</i> (NCU02133)	SOD-1 superoxide dismutase [Cu-Zn]	9e-83

[†]the first three genes (*flbD*, *abaA*, *wetA*) are from *A. nidulans*, all others from *N. crassa*. There are no homologs to the *A. nidulans* conidiation gene *brlA* present in *S. macrospora* or *N. crassa*, and no clear orthologs to the *A. nidulans* conidiation gene *flbC*.