




Nonribosomal peptide synthetase gene clusters and characteristics of predicted NRPS-dependent siderophore synthetases in *Armillaria* and other species in the Physalacriaceae

Current Genetics

Deborah L. Narh Mensah^{1,2} , Brenda D. Wingfield¹ , Martin P. A. Coetzee^{1*} 

¹Departments of Biochemistry, Genetics and Microbiology, Forestry and Agricultural Biotechnology Institute (FABI), Faculty of Natural and Agricultural Sciences, University of Pretoria, Pretoria, South Africa

²Council for Scientific and Industrial Research – Food Research Institute (CSIR – FRI), P. O. Box M20, Accra, Ghana

*** Correspondence:**

martin.coetzee@fabi.up.ac.za

Table S2: Information on putative gene annotation of genes flanking NRPS-dependent siderophore synthetase gene based on InterProScan and tBLASTn searches

Gene	Size (aa)	PFAM domain(s)	Gene ontology (GO)	MB	Selected ortholog accession number(s)
Aryl alcohol dehydrogenase	388-855	PF00248	GO:0047834	N	XM_007386508.1, XM_007306800.1, XM_001830525.1
Cellobiohydrolase	429-454	PF00840	GO:0004553, GO:0005975	Y	MK313723.1, XM_007269301.1, LC034188.1
Cellobiose dehydrogenase	236-348	PF16010 PF13561, PF01738	- GO:0016491, GO:0055114, GO:0016787	Y, N	XM_018327719.1, XM_031221745.1
(Choline/Ethanolaminephospho) transferase	146-419	PF01066	GO:0008654, GO:0016020, GO:0016780	Y, N	XM_008034254.1, XM_001886787.1
Cytochrome P450	104-532	PF00067, PF02936	GO:0005506, GO:0016705, GO:0020037, GO:0055114, GO:0006123, GO:0005751	Y	XM_008042239.1, XM_001835070.1, XM_027753339.1, XM_007334100
DNA polymerase	158	PF00136	GO:0000166, GO:0003677	N	XM_001831569.2, XM_008040078.1
FAD dependent oxidoreductase	409	PF01266	GO:0016491, GO:0055114	N	XM_007299194.1, XM_025697947.1
Hypothetical protein (non-MB)	146-614	PF12937, PF00651	GO:0005515	N	XM_001883462.1, XM_001873677.1, XM_001879861.1,
Hypothetical protein (MB)	180-392	PF12051	-	Y	XM_008039196.1, XM_007330054.1, XM_001887233.1
Hypothetical protein/natterin-like Isochorismatase family protein	288-352 302	PF03318 PF13532	- GO:0006281, GO:0006307, GO:0016491, GO:0035552, GO:0051213	N N	XM_001831713.2, XM_001883450.1, XM_001271399.1
MFS	506-578	PF07690	GO:0022857, GO:0055085	Y	XM_032084181.1, XM_008046394.1, XM_033819763.1
NRPS	4244-5353	PF00501, PF13193, PF00550, PF00668	GO:0031177, GO:0003824	N	XM_011389001.1, JN997437.1, XM_009271380.1, XM_001264036.1, JN132403.1
Protein kinase	249-380	PF00069	GO:0004672, GO:0005524, GO:0006468	N	XM_007782407.1, XM_033600130.1, XM_031224444.1
Putative transcriptional regulator	391	-	-	N	LR728655.1
RecF/RecN/SMC protein	1575-1577	PF02463, PF06470	GO:0005515, GO:0005524, GO:0005694, GO:0051276	N	XM_022012713.1, XM_025742723.1, XM_019170948.1

ZIP-C	449-476	PF02535	GO:0016020, GO:0030001, GO:0046873, GO:0055085	Y	XM_001887139.1, XM_007365303.1, XM_007305919.1, XM_008046135.1
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aa = amino acids; MB = membrane bound; Y = yes; N = no