

**Table S8. Partial listing of *A. fumigatus* specific genes as compared to *A. oryzae* and *A. nidulans* using BLASTp.** Each protein in the genome was used as a query in a comparison against the predicted proteomes of *A. nidulans* and *A. oryzae* using BLASTp. Proteins annotated as hypothetical are not included.

LocusID	Protein name	Top Hits
Afu1g00250	cell wall-anchored protein	firmicutes
Afu1g00310	class V chitinase	firmicutes, fungi
Afu1g00390	hAT family dimerisation domain protein	plants
Afu1g00570	Tc1/mariner-like transposase	proteobacteria, fungi
Afu1g00730	DnaJ chaperone domain protein	cyanobacteria, eukarya
Afu1g00810	allergen Asp f 7-like	fungi
Afu1g00960	LINE-like reverse transcriptase	fungi
Afu1g01030	LINE-like reverse transcriptase	fungi
Afu1g01460	Zn-dependent hydrolases of the beta-lactamase fold	firmicutes, fungi
Afu1g03110	ribosomal protein L29, cytoplasmic	fungi
Afu1g04400	ribosomal protein S37, mitochondrial	fungi
Afu1g13480	ubiquinol-cytochrome C reductase complex subunit	fungi
Afu1g14040	blue light-inducible protein Bli-3	proteobacteria, fungi
Afu1g16090	arsenate reductase ArsC	actinobacteria
Afu2g00990	glycerophosphoryl diester phosphodiesterase family protein	firmicutes, fungi
Afu2g05280	F-box domain protein	
Afu2g06010	triacylglycerol lipase	fungi
Afu2g14380	isoprenylcysteine carboxyl methyltransferase	proteobacteria
Afu2g17240	C2H2 finger domain protein	
Afu2g17520	N-acetyltransferase, GNAT family	proteobacteria
Afu2g17540	pigment biosynthesis oxidase Abr1/brown 1	fungi
Afu2g17560	pigment biosynthesis HN reductase Arp2	fungi
Afu3g00760	N-acetyltransferase, GNAT family	firmicutes
Afu3g01320	homocysteine S-methyltransferase	cyanobacteria
Afu3g02590	C6 transcription factor, putative	fungi
Afu3g02640	nucleoside-diphosphate-sugar epimerase	firmicutes, fungi
Afu3g02930	soluble lytic transglycosylase	firmicutes, viruses
Afu3g03200	cysteine hydrolase family protein	proteobacteria
Afu3g03560	pyridine nucleotide-disulfide oxidoreductase	proteobacteria
Afu3g04100	zinc knuckle domain protein	
Afu3g12980	cell wall surface serine rich protein	fungi
Afu3g14580	dCTP deaminase/dUTPase	archaea, viruses
Afu3g14910	extracellular signal protein FacC	actinobacteria, phages
Afu4g03300	hAT family dimerisation domain protein	plants
Afu4g09420	carbonic anhydrase	firmicutes, fungi
Afu4g14840	transferase family protein	plants
Afu5g00440	N-acetyltransferase, GNAT family	actinobacteria
Afu5g00540	extracellular signal protein FacC	actinobacteria, phages
Afu5g01600	PHP domain protein	actinobacteria, fungi

Afu5g02330	allergen Asp f 1, cytotoxin	fungi
Afu5g06830	dsRNA-specific ribonuclease	aquificae
Afu5g08230	C3HC4 finger domain protein	viruses, fungi
Afu5g10090	3-demethylubiquinone-9 3-methyltransferase family protein	actinobacteria
Afu5g13690	DUF74 domain protein	actinobacteria, archaea
Afu5g13730	NlpC/P60-like cell-wall peptidase	actinobacteria, mites
Afu5g15000	arsenate reductase ArsC	actinobacteria
Afu6g09500	DnaJ chaperone domain protein	proteobacteria, eukarya
Afu6g14390	extracellular cellulose binding protein Cip2	firmicutes
Afu7g00860	lipoygenase	fungi
Afu7g02030	cytochrome c oxidase assembly protein Pet117 (mitochondrial)	fungi
Afu7g04960	N-acetyltransferase, GNAT family	actinobacteria
Afu7g04990	dCTP deaminase/dUTPase	archaea, viruses
Afu7g05010	glyoxalase/bleomycin resistance/dioxygenase superfamily protein	firmicutes
Afu7g05060	MgtC/SapB family protein	actinobacteria
Afu7g06440	F-box domain protein	
Afu7g06990	GDP-D-mannose dehydratase	proteobacteria, eukarya
Afu7g07080	LINE-like reverse transcriptase	fungi
Afu7g08640	BTB/POZ domain protein	fungi
Afu8g00360	NlpC/P60-like cell-wall peptidase	actinobacteria
Afu8g00550	methyltransferase, putative	fungi
Afu8g05880	10 kDa chaperonin (GroES/Cpn10)	actinobacteria
Afu8g05890	fungal hydrophobin	fungi
Afu8g06130	FluG family signalling protein	proteobacteria, fungi
Afu8g06140	sensor histidine kinase/response regulator	proteobacteria, fungi
Afu8g06180	death-on-curing family protein DOC	proteobacteria, phages
Afu8g06210	metalloreductase transmembrane component	fungi
Afu8g07120	beta-1,6-glucanase Neg1	actinobacteria, fungi