

Additional file 3 *A. niger* unisequences coding for proteins with a predicted signal peptide

Contig	Mean Value	Position of Signal peptide	Similarity	ID	Organism	E value
Asp1876	0.895	1-21(21)	1,4-beta-d-glucan cellobiohydrolase b precursor	AAF04492	Aspergillus niger	1.00E-112
Asp2002	0.889	1-23(23)	acetyl xylan esterase	AAK60128	Aspergillus ficuum	1.00E-171
Asp1080	0.797	1-20(20)	acid phosphatase precursor (ph 6-optimum acid phosphatase) (apase6)	Q12546	Aspergillus ficuum	0
Asp2114	0.896	1-24(24)	alpha-amylase	BAD06003	Aspergillus awamori	0
Asp4255	0.973	1-17(17)	alpha-amylase amya	AAF17103	Emericella nidulans	2.00E-21
Asp385	0.947	1-16(16)	alpha-galactosidase	CAB46229	Aspergillus niger	1.00E-151
Asp2882	0.556	1-21(21)	alpha-galactosidase c precursor (melibiase)	Q9UUZ4	Aspergillus niger	1.00E-145
Asp2103	0.908	1-19(19)	alpha-glucosidase precursor (maltase)	P56526	Aspergillus niger	0
Asp1584	0.955	1-20(20)	alpha-glucuronidase	CAC38119	Aspergillus niger	1.00E-134
Asp5072	0.787	1-18(18)	alpha-l-arabinofuranosidase b precursor (arabinosidase b)	P42255	Aspergillus niger	1.00E-105
Asp2120	0.645	1-26(26)	alpha-l-arabinofuranosidase precursor (arabinoxylan arabinofuranohydrolase)	P79019	Aspergillus niger	0
Asp1666	0.886	1-18(18)	aspergillopepsin ii precursor (acid protease a) (proctase a)	P24665	Aspergillus niger	1.00E-133
Asp633	0.784	1-25(25)	ataap	AAD37345	Emericella nidulans	6.00E-87
Asp1330	0.826	1-18(18)	carboxypeptidase cpds precursor	P52719	Aspergillus saitoi	1.00E-132
Asp1439	0.693	1-15(15)	catalase	BAC55897	Aspergillus oryzae	0
Asp2003	0.776	1-16(16)	catalase r	P55303	Aspergillus niger	0
Asp1784	0.85	1-21(21)	cinnamoyl esterase faea	AAK60631	Aspergillus niger	1.00E-164
Asp2081	0.914	1-25(25)	cytochrome p450 sterol 14 alpha-demethylase	AAF32372	Aspergillus fumigatus	1.00E-134
Asp1020	0.898	1-19(19)	disulfide isomerase tiga precursor	Q00216	Aspergillus niger	0
Asp2160	0.845	1-19(19)	endo-1,4-beta-xylanase a precursor (xylanase a) (1,4-beta-d-xylan xylanohydrolase A)	P33559	Aspergillus kawachii	1.00E-142

Asp2049	0.834	1-18(18)	endo-1,4-beta-xylanase ii precursor (xylanase ii) (1,4-beta-d-xylan xylanohydrolase II)	P55330	Aspergillus niger	1.00E-121
Asp1819	0.763	1-16(16)	endoglucanase a	CAA11964	Aspergillus niger	1.00E-138
Asp1967	0.81	1-18(18)	endoglucanase b	CAA11965	Aspergillus niger	1.00E-162
Asp3520	0.915	1-21(21)	endosomal p24b protein precursor, putative	EAA66272	Aspergillus fumigatus	3.00E-99
Asp2183	0.893	1-18(18)	glucoamylase g1 and g2 precursor (glucan 1,4-alpha-glucosidase) (1,4-alpha-D-glucan glucohydrolase)	P04064	Aspergillus niger	0
Asp158	0.754	1-34(34)	Homologous to aar149wp	NP_982692	Eremothecium gossypii	5.00E-47
Asp1652	0.816	1-27(27)	Homologous to abr129cp	NP_983076	Eremothecium gossypii	1.00E-42
Asp962	0.957	1-24(24)	hypothetical protein AN0871.2	EAA65900	Aspergillus nidulans	2.00E-78
Asp3863	0.586	1-22(22)	hypothetical protein AN4730.2	EAA60772	Aspergillus nidulans	5.00E-44
Asp736	0.932	1-19(19)	Homologous to allergen asp f 15 precursor (asp f 13)	O60022	Aspergillus fumigatus	8.00E-31
Asp4287	0.7	1-18(18)	Homologous to allergen asp f 4	O60024	Aspergillus fumigatus	2.00E-09
Asp1521	0.884	1-21(21)	Homologous to aspartic protease	BAC00848	Aspergillus oryzae	4.00E-81
Asp1268	0.912	1-18(18)	Homologous to aspergillopepsin ii precursor (acid protease a) (proctase a)	P24665	Aspergillus niger	4.00E-78
Asp1143	0.655	1-21(21)	Homologous to beta (1-3) glucanoyltransferase gel2p [aspergillus fumigatus]	AAF40139	Aspergillus fumigatus	1.00E-112
Asp1624	0.837	1-23(23)	Homologous to c-8 sterol isomerase erg-1	CAC28749	Neurospora crassa	1.00E-89
Asp1888	0.817	1-18(18)	Homologous to cellobiohydrolase ii	AAL33604	Talaromyces emersonii	1.00E-120
Asp2026	0.828	1-21(21)	Homologous to cellobiohydrolase ii	AAL33604	Talaromyces emersonii	1.00E-145
Asp1377	0.737	1-26(26)	Homologous to chain a, crystal structure of oxalate decarboxylase	1J58	Bacillus subtilis	1.00E-61
Asp3187	0.505	1-20(20)	Homologous to cis-prenyltransferase	CAD21109	Neurospora crassa	2.00E-17
Asp2179	0.821	1-20(20)	Homologous to epd1 protein precursor (essential for pseudohyphal development 1)	P56092	Candida maltosa	1.00E-157
Asp3286	0.795	1-22(22)	Homologous to exo-1,3-beta-glucanase	Q7Z9L3	Aspergillus oryzae	6.00E-69
Asp1997	0.805	1-19(19)	Homologous to gel1 protein	AAC35942	Aspergillus fumigatus	0
Asp1825	0.656	1-21(21)	Homologous to glucose		Hypocrea jecorina	0

			transporter; trhxt1	AAR23147		
Asp570	0.911	1-19(19)	Homologous to glutaminase a	BAA86935	<i>Emericella nidulans</i>	2.00E-71
Asp1746	0.706	1-24(24)	Homologous to glycerol-3-phosphate dehydrogenase precursor related protein [mips]	XP_325309	<i>Neurospora crassa</i>	0
Asp956	0.68	1-17(17)	Homologous to hypothetical protein an0672.2	EAA65448	<i>Aspergillus nidulans</i>	1.00E-109
Asp1875	0.901	1-23(23)	Homologous to hypothetical protein an0819.2	EAA65649	<i>Aspergillus nidulans</i>	5.00E-82
Asp3597	0.862	1-21(21)	Homologous to hypothetical protein an0867.2	EAA65896	<i>Aspergillus nidulans</i>	1.00E-94
Asp1823	0.661	1-27(27)	Homologous to hypothetical protein an1465.2	EAA64595	<i>Aspergillus nidulans</i>	1.00E-177
Asp3195	0.875	1-17(17)	Homologous to hypothetical protein an1855.2	EAA65020	<i>Aspergillus nidulans</i>	9.00E-57
Asp1565	0.874	1-21(21)	Homologous to hypothetical protein an1950.2	EAA65115	<i>Aspergillus nidulans</i>	4.00E-76
Asp3634	0.814	1-22(22)	Homologous to hypothetical protein an2056.2	EAA64888	<i>Aspergillus nidulans</i>	9.00E-97
Asp2094	0.885	1-17(17)	Homologous to hypothetical protein an3079.2	EAA63650	<i>Aspergillus nidulans</i>	2.00E-50
Asp1553	0.65	1-23(23)	Homologous to hypothetical protein an3184.2	EAA62948	<i>Aspergillus nidulans</i>	6.00E-83
Asp723	0.56	1-33(33)	Homologous to hypothetical protein an3705.2	EAA59913	<i>Aspergillus nidulans</i>	2.00E-64
Asp4879	0.813	1-21(21)	Homologous to hypothetical protein an4209.2	EAA59308	<i>Aspergillus nidulans</i>	2.00E-64
Asp2723	0.957	1-17(17)	Homologous to hypothetical protein an4257.2	EAA58925	<i>Aspergillus nidulans</i>	1.00E-06
Asp343	0.909	1-19(19)	Homologous to hypothetical protein an4728.2	EAA60770	<i>Aspergillus nidulans</i>	1.00E-108
Asp2362	0.754	1-16(16)	Homologous to hypothetical protein an5050.2	EAA62712	<i>Aspergillus nidulans</i>	3.00E-17
Asp519	0.688	1-24(24)	Homologous to hypothetical protein an5619.2	EAA62712	<i>Aspergillus nidulans</i>	1.00E-73
Asp2880	0.53	1-23(23)	Homologous to hypothetical protein an6149.2	EAA57935	<i>Aspergillus nidulans</i>	4.00E-55
Asp1693	0.506	1-43(43)	Homologous to hypothetical protein an6689.2	EAA57632	<i>Aspergillus nidulans</i>	1.00E-104
Asp911	0.855	1-19(19)	Homologous to hypothetical protein an7035.2	EAA61681	<i>Aspergillus nidulans</i>	3.00E-24
Asp1998	0.949	1-16(16)	Homologous to hypothetical protein an7102.2	EAA61307	<i>Aspergillus nidulans</i>	2.00E-51
Asp5201	0.84	1-17(17)	Homologous to hypothetical protein an7168.2	EAA61420	<i>Aspergillus nidulans</i>	4.00E-68
Asp2110	0.753	1-22(22)	Homologous to hypothetical protein an7735.2	EAA61250	<i>Aspergillus nidulans</i>	2.00E-50
Asp2113	0.78	1-22(22)	Homologous to hypothetical protein an7950.2	EAA59604	<i>Aspergillus nidulans</i>	1.00E-118

Asp3715	0.961	1-20(20)	Homologous to hypothetical protein an8194.2	EAA58838	Aspergillus nidulans	3.00E-14
Asp3624	0.541	1-25(25)	Homologous to hypothetical protein an8421.2	EAA67043	Aspergillus nidulans	2.00E-60
Asp2735	0.559	1-24(24)	Homologous to hypothetical protein an8467.2	EAA67089	Aspergillus nidulans	4.00E-46
Asp4529	0.583	1-35(35)	Homologous to hypothetical protein an8700.2	EAA60249	Aspergillus nidulans	1.00E-50
Asp2557	0.619	1-37(37)	Homologous to hypothetical protein fg01043.	XP_381219	Gibberella zeae	1.00E-43
Asp1756	0.735	1-21(21)	Homologous to lysophospholipase	AAQ85122	Aspergillus fumigatus	0
Asp1987	0.619	1-20(20)	Homologous to mannose-1-phosphate guanylyltransferase	AAC39498	Hypocrea jecorina	1.00E-163
Asp4391	0.703	1-16(16)	Homologous to mitochondrial nicotinamide nucleotide transhydrogenase-related protein [imported]	T48756	Neurospora crassa	3.00E-23
Asp4964	0.677	1-37(37)	Homologous to nadph oxidase	AAN75017	Emericella nidulans	1.00E-63
Asp364	0.801	1-23(23)	Homologous to pectine lyase f	CAD34589	Aspergillus niger	3.00E-45
Asp1885	0.853	1-19(19)	Homologous to pepsin-type protease	AAL40802	Talaromyces emersonii	2.00E-56
Asp1612	0.898	1-20(20)	Homologous to phosphatidylglycerol/phosphatidyl inositol transfer protein	AAD16095	Aspergillus oryzae	3.00E-65
Asp4168	0.81	1-19(19)	Homologous to possible secreted cellulose-binding protein	CAF32158	Aspergillus fumigatus	3.00E-59
Asp1090	0.811	1-30(30)	Homologous to predicted protein	EAA61876	Aspergillus nidulans	2.00E-45
Asp4738	0.512	1-24(24)	Homologous to predicted protein	XP_325931	Neurospora crassa	2.00E-22
Asp4603	0.477	1-27(27)	Homologous to proteasome regulatory subunit 12	AAB84057	Hypocrea jecorina	2.00E-55
Asp3309	0.505	1-16(16)	Homologous to pyridoxine	AAK50016	Aspergillus nidulans	3.00E-98
Asp1210	0.538	1-21(21)	Homologous to pyruvate dehydrogenase beta chain precursor (pdb1) [mips]	CAG24029	Aspergillus niger	3.00E-95
Asp1911	0.89	1-19(19)	Homologous to rasp f 9	CAA11266	Aspergillus fumigatus	2.00E-89
Asp2240	0.564	1-20(20)	Homologous to ribosomal protein l15 homologue, putative	CAE47918	Aspergillus fumigatus	6.00E-74
Asp1267	0.705	1-18(18)	Homologous to sun family protein, putative	CAF32103	Aspergillus fumigatus	5.00E-73
Asp1946	0.825	1-21(21)	Homologous to tal1 [saccharomyces kluyveri]	AAO32594	Saccharomyces kluyveri	5.00E-78
Asp2308	0.932	1-22(22)	Homologous to udp-n-acetylglucosamine:dolichyl phosphate N-acetylglucosamine-1-	AAL78196	Aspergillus niger	9.00E-22

			phosphate transferase; GPT			
Asp3401	0.874	1-25(25)	Homologous to unknown	AAC61875	<i>Emericella nidulans</i>	1.00E-110
Asp4894	0.723	1-25(25)	hypothetical protein an1865.2	EAA65030	<i>Aspergillus nidulans</i>	4.00E-74
Asp2091	0.533	1-16(16)	hypothetical protein an3591.2	EAA59799	<i>Aspergillus nidulans</i>	0
Asp1101	0.726	1-19(19)	hypothetical protein an4559.2	EAA60902	<i>Aspergillus nidulans</i>	1.00E-48
Asp1572	0.777	1-33(33)	hypothetical protein an9491.2	EAA66772	<i>Aspergillus nidulans</i>	1.00E-85
Asp1588	0.478	1-32(32)	imilar to hypothetical protein fg05266.1]	XP_385442	<i>Gibberella zeae</i>	3.00E-06
Asp1956	0.511	1-24(24)	ketol-acid reductoisomerase precursor (acetohydroxy-acid REDUCTOISOMERASE) (ALPHA-KETO-BETA-HYDROXYLACIL REDUCTOISOMERASE)	XP_322910	<i>Neurospora crassa</i>	1.00E-136
Asp177	0.766	1-19(19)	kexin precursor	CAB64692	<i>Aspergillus niger</i>	7.00E-80
Asp521	0.798	1-21(21)	mannosyl-oligosaccharide 1,2-alpha-mannosidase (ec 3.2.1.113) precursor	S63701	<i>Aspergillus phoenicis</i>	1.00E-105
Asp1455	0.878	1-36(36)	mipc synthase; sura	AAP47108	<i>Aspergillus nidulans</i>	2.00E-73
Asp1512	0.871	1-21(21)	nadph--cytochrome p450 reductase (cpr) (p450r)	Q00141	<i>Aspergillus niger</i>	1.00E-132
Asp1340	0.835	1-23(23)	oligosaccharyltransferase alpha subunit	AAK08631	<i>Aspergillus niger</i>	1.00E-101
Asp2121	0.751	1-18(18)	pepsinogen	AAA20876	<i>Aspergillus niger</i>	0
Asp1902	0.92	1-20(20)	protein disulfide isomerase precursor (pdi)	Q12730	<i>Aspergillus niger</i>	1.00E-131
Asp4412	0.818	1-23(23)	rhamnogalacturonan acetyl esterase	CAC41360	<i>Aspergillus niger</i>	3.00E-63
Asp149	0.811	1-23(23)	ribonuclease m (rnase m)	P19791	<i>Aspergillus saitoi</i>	1.00E-129
Asp2027	0.844	1-15(15)	serine-type carboxypeptidase homolog precursor	JC7666	<i>Emericella nidulans</i>	0
Asp1212	0.884	1-20(20)	hypothetical protein AN4515.2	EAA60858	<i>Aspergillus nidulans</i>	9.00E-62
Asp3072	0.501	1-20(20)	Similar to 3-oxoacyl-[acyl-carrier-protein]	AAB81078	<i>Neurospora crassa</i>	1.00E-39
Asp4049	0.95	1-21(21)	Similar to aal005wp	NP_982537	<i>Eremothecium gossypii</i>	1.00E-13
Asp1938	0.555	1-20(20)	Similar to acidic ribosomal protein p2	AAG01801	<i>Aspergillus fumigatus</i>	2.00E-20
Asp1450	0.778	1-20(20)	hypothetical protein AN3918.2	EAA59227	<i>Aspergillus nidulans</i>	5.00E-107

Asp603	0.486	1-44(44)	Similar to aer063wp	NP_984923	Eremothecium gossypii	4.00E-10
Asp3968	0.697	1-18(18)	Similar to aer274wp	NP_985131	Eremothecium gossypii	2.00E-14
Asp36	0.508	1-23(23)	hypothetical protein AN4280.2	EAA58818	Aspergillus nidulans	2.00E-47
Asp1321	0.939	1-19(19)	hypothetical protein AN1176.2	EAA66294	Aspergillus nidulans	1.00E-23
Asp2106	0.827	1-21(21)	Similar to allergen asp f 7	O42799	Aspergillus fumigatus	1.00E-15
Asp170	0.88	1-25(25)	Similar to alpha-1,2-mannosyltransferase; ktr3p	NP_009764	Saccharomyces cerevisiae	4.00E-25
Asp1434	0.84	1-25(25)	Similar to alpha-amylase amya [emericella nidulans]	AAF17103	Emericella nidulans	1.00E-100
Asp1263	0.919	1-17(17)	Similar to alpha-galactosidase, putative / melibiase, putative / alpha-D-galactoside galactohydrolase, putative	NP_568193	Arabidopsis thaliana	2.00E-62
Asp2140	0.936	1-18(18)	Similar to antifungal protein precursor	JC4564	Penicillium chrysogenum	2.00E-13
Asp1488	0.595	1-18(18)	Similar to aspartic protease	BAC00848	Aspergillus oryzae	9.00E-56
Asp4230	0.781	1-17(17)	Similar to beta-glucosidase (ec 3.2.1.21) precursor - yeast	JC4376	Candida molischiana	1.00E-16
Asp2128	0.709	1-18(18)	Similar to beta-glucosidase 5 [coccidioides posadasii]	AAL09829	Coccidioides posadasii	1.00E-76
Asp4235	0.795	1-18(18)	Similar to c4-dicarboxylate transport protein mae1	CAD21205	Neurospora crassa	7.00E-32
Asp2166	0.899	1-17(17)	Similar to cell wall protein	BAD01559	Aspergillus kawachii	8.00E-80
Asp925	0.758	1-20(20)	Similar to cellobiose dehydrogenase	AAC26221	Thielavia heterothallica	2.00E-21
Asp422	0.683	1-27(27)	Similar to chaperonin, t-complex-type - fission yeast	T43202	Schizosaccharomyces pombe	1.00E-75
Asp1594	0.889	1-27(27)	Similar to class i alpha-mannosidase 1a	AAG48160	Aspergillus nidulans	1.00E-142
Asp5041	0.89	1-21(21)	Similar to crh-like protein	AAN87849	Aspergillus fumigatus	8.00E-33
Asp2243	0.697	1-27(27)	Similar to ctns protein	CAC28641	Neurospora crassa	8.00E-28
Asp1787	0.797	1-27(27)	Similar to endo-1,4-beta-xylanase b precursor (xylanase b) (1,4-beta-d-xylan xylanohydrolase B)	P48824	Aspergillus kawachii	2.00E-41
Asp2037	0.937	1-15(15)	Similar to endo-alpha-1,5-arabinanase precursor	AF300878	Aspergillus aculeatus	5.00E-97
Asp4470	0.814	1-21(21)	Similar to endoglucanase iv precursor (endo-1,4-beta-glucanase iv) (cellulase IV) (EGIV)	O14405	Hypocrea jecorina	3.00E-20

Asp1498	0.703	1-22(22)	Similar to endoglucanase iv precursor (endo-1,4-beta-glucanase iv) (cellulase IV) (EGIV)	O14405	Hypocrea jecorina	1.00E-64
Asp425	0.602	1-25(25)	Similar to endoglucanase, putative	CAF31975	Aspergillus fumigatus	9.00E-28
Asp1893	0.554	1-19(19)	hypothetical protein AN1543.2	EAA64250	Aspergillus nidulans	0.0
Asp3384	0.82	1-22(22)	Similar to gaba permease	CAB43936	Emmericella nidulans	4.00E-16
Asp2363	0.739	1-26(26)	Similar to glutathione-disulfide reductase (ec 1.8.1.7) [similarity]	T51908	Neurospora crassa	7.00E-27
Asp2440	0.938	1-24(24)	Similar to high affinity methionine permease; mup1p	NP_011569	Saccharomyces cerevisiae	1.00E-54
Asp3554	0.813	1-21(21)	hypothetical protein	XP_329264	Neurospora crassa	3.00E-41
Asp3391	0.808	1-32(32)	hypothetical protein AN0315.2	EAA65721	Aspergillus nidulans	7.00E-26
Asp1767	0.616	1-36(36)	hypothetical protein AN1719.2	EAA64005	Aspergillus nidulans	1.00E-52
Asp1575	0.879	1-16(16)	Similar to hypothetical protein an2237.2	EAA63922	Aspergillus nidulans	2.00E-62
Asp63	0.513	1-16(16)	Similar to hypothetical protein an2464.2	EAA64170	Aspergillus nidulans	3.00E-24
Asp1261	0.632	1-20(20)	Similar to hypothetical protein an3046.2	EAA63617	Aspergillus nidulans	5.00E-28
Asp126	0.792	1-33(33)	Similar to hypothetical protein an3057.2	EAA63628	Aspergillus nidulans	7.00E-17
Asp5185	0.734	1-19(19)	Similar to hypothetical protein an3520.2	EAA59081	Aspergillus nidulans	8.00E-50
Asp4639	0.522	1-19(19)	Similar to hypothetical protein an3744.2	EAA59952	Aspergillus nidulans	4.00E-47
Asp1649	0.82	1-19(19)	Similar to hypothetical protein an3925.2	EAA59234	Aspergillus nidulans	6.00E-48
Asp3794	0.929	1-23(23)	Similar to hypothetical protein an4095.2	EAA59356	Aspergillus nidulans	7.00E-42
Asp1032	0.935	1-17(17)	Similar to hypothetical protein an4190.2	EAA59289	Aspergillus nidulans	7.00E-14
Asp4612	0.917	1-29(29)	Similar to hypothetical protein an4895.2	EAA60973	Aspergillus nidulans	1.00E-46
Asp446	0.9	1-26(26)	Similar to hypothetical protein an6371.2	EAA58755	Aspergillus nidulans	2.00E-67
Asp4793	0.919	1-18(18)	Similar to hypothetical protein an6754.2	EAA58572	Aspergillus nidulans	9.00E-28
Asp109	0.819	1-25(25)	Similar to hypothetical protein an6984.2	EAA61630	Aspergillus nidulans	4.00E-46
Asp1995	0.879	1-20(20)	Similar to hypothetical protein an7329.2	EAA61380	Aspergillus nidulans	8.00E-09
Asp4036	0.922	1-26(26)	Similar to hypothetical protein an7754.2	EAA61542	Aspergillus nidulans	2.00E-17

Asp1986	0.85	1-18(18)	Similar to hypothetical protein an7785.2	EAA61573	Aspergillus nidulans	2.00E-49
Asp1134	0.938	1-20(20)	Similar to hypothetical protein an8043.2	EAA59665	Aspergillus nidulans	6.00E-35
Asp2097	0.87	1-24(24)	Similar to hypothetical protein an8063.2	EAA59685	Aspergillus nidulans	1.00E-148
Asp386	0.847	1-20(20)	Similar to hypothetical protein an8175.2	EAA59197	Aspergillus nidulans	5.00E-55
Asp1167	0.773	1-18(18)	Similar to hypothetical protein an8395.2	EAA67017	Aspergillus nidulans	8.00E-48
Asp614	0.732	1-45(45)	Similar to hypothetical protein an9118.2	EAA61951	Aspergillus nidulans	1.00E-07
Asp558	0.931	1-19(19)	Similar to hypothetical protein an9156.2	EAA61989	Aspergillus nidulans	3.00E-41
Asp247	0.921	1-18(18)	Similar to hypothetical protein an9384.	EAA66451	Aspergillus nidulans	2.00E-96
Asp2050	0.932	1-18(18)	Similar to hypothetical protein fg10461.1	XP_390637	Gibberella zeae	1.00E-98
Asp3871	0.487	1-33(33)	Similar to hypothetical protein fg10685.1	XP_390861	Gibberella zeae	3.00E-34
Asp1466	0.901	1-18(18)	Similar to hypothetical protein mg06169.4	EAA53041	Magnaporthe grisea	2.00E-75
Asp510	0.953	1-17(17)	Similar to hypothetical protein mg09179.4 [magnaporthe grisea 70-15]	EAA55372	Magnaporthe grisea	5.00E-47
Asp3126	0.922	1-17(17)	Similar to l-asparaginase 3 precursor (l-asparagine amidohydrolase 3)	Q8NKC0	Schizosaccharomyces pombe	1.00E-58
Asp1870	0.849	1-23(23)	hypothetical protein AN6307.2	EAA58691	Aspergillus nidulans	1.00E-46
Asp1029	0.84	1-19(19)	Similar to lipase precursor	O59952	Triacylglycerol lipase	1.00E-43
Asp1416	0.717	1-19(19)	Similar to lipase precursor	O59952	Triacylglycerol lipase	3.00E-48
Asp3547	0.769	1-16(16)	Similar to lysophospholipase	AAQ85123	Aspergillus fumigatus	4.00E-54
Asp1109	0.863	1-36(36)	Similar to mnn9p	AAK40024	Pichia angusta	1.00E-20
Asp1949	0.93	1-19(19)	Similar to mutanase (muta) gene [imported]	T49781	Neurospora crassa	1.00E-84
Asp3951	0.52	1-21(21)	Similar to nfrl	BAA22375	Xenopus laevis	1.00E-12
Asp79	0.965	1-26(26)	Similar to pali	CAA07588	Emericella nidulans	3.00E-36
Asp1184	0.561	1-18(18)	Similar to pcl-like cyclin pas1	NP_593306	Schizosaccharomyces pombe	1.00E-10
Asp4244	0.63	1-29(29)	hypothetical protein AN4514.2	EAA60857	Aspergillus nidulans	4.00E-49
Asp3885	0.903	1-27(27)	hypothetical protein AN0049	EAA65368	Aspergillus nidulans	2.00E-54
Asp1163	0.776	1-22(22)	Similar to predicted protein		Aspergillus	1.00E-66

				EAA57696	nidulans	
Asp3835	0.583	1-25(25)	hypothetical protein AN5458	EAA62618	Aspergillus nidulans	3.00E-42
Asp4295	0.817	1-49(49)	Similar to predicted protein	XP_325502	Neurospora crassa	1.00E-23
Asp3923	0.857	1-19(19)	Similar to predicted protein	XP_326219	Neurospora crassa	1.00E-42
Asp1392	0.957	1-22(22)	Similar to predicted protein	XP_328587	Neurospora crassa	1.00E-22
Asp1473	0.914	1-18(18)	Similar to predicted protein	XP_323846	Neurospora crassa	6.00E-13
Asp2142	0.843	1-25(25)	Similar to predicted protein	XP_325061	Neurospora crassa	4.00E-55
Asp2168	0.593	1-22(22)	Similar to predicted protein	XP_327422	Neurospora crassa	3.00E-09
Asp294	0.931	1-28(28)	Similar to predicted protein	XP_331987	Neurospora crassa	1.00E-19
Asp650	0.931	1-16(16)	Similar to predicted protein	XP_324909	Neurospora crassa	7.00E-27
Asp680	0.914	1-18(18)	Similar to predicted protein	XP_325522	Neurospora crassa	4.00E-13
Asp780	0.865	1-16(16)	Similar to predicted protein	XP_327076	Neurospora crassa	6.00E-20
Asp811	0.717	1-35(35)	Similar to predicted protein	XP_330405	Neurospora crassa	9.00E-09
Asp4347	0.967	1-20(20)	Similar to protein	CAE76395	Neurospora crassa	9.00E-40
Asp3534	0.817	1-29(29)	Similar to protein that forms a heterotrimeric complex with erp2p, emp24p, and Erv25p; member, along with Emp24p and Erv25p, of the p24 family involved in ER to Golgi transport and localized to COPII-coated vesicles; Erp1p	NP_009402	Saccharomyces cerevisiae	7.00E-41
Asp4108	0.481	1-41(41)	Similar to protein, with a transmembrane domain (3k918) [Caenorhabditis elegans]	NP_499181	Caenorhabditis elegans	5.00E-07
Asp3350	0.869	1-16(16)	hypothetical protein AN4505.2	EAA60848	Aspergillus nidulans	1.00E-08
Asp4546	0.696	1-23(23)	Similar to stcb_emeni probable sterigmatocystin biosynthesis p450 monooxygenase STCB (Cytochrome P450 62)]	Q12608	Aspergillus nidulans	4.00E-15
Asp4899	0.925	1-29(29)	Similar to suppressor of pi four kinase; sfk1p	NP_012873	Saccharomyces cerevisiae	6.00E-07
Asp742	0.85	1-21(21)	Similar to thioredoxin	P29429	Emmericella nidulans	9.00E-23
Asp1415	0.855	1-19(19)	Similar to tripeptidylpeptidase 2	CAE17675	Aspergillus fumigatus	3.00E-66
Asp3430	0.901	1-19(19)	hypothetical protein AN2497.2	EAA63982	Aspergillus nidulans	9.00E-49

Asp4598	0.892	1-30(30)	Weakly similar to alpha 1,6 mannosyltransferase	CAD91643	Yarrowia lipolytica	5.00E-08
Asp1295	0.912	1-24(24)	Similar to wsc4 homolog [imported]	T45525	Kluyveromyces lactis	2.00E-17
Asp1086	0.939	1-16(16)	Similar to ycl012cp	AAN86070	Saccharomyces cerevisiae	6.00E-14
Asp1712	0.553	1-46(46)	hypothetical protein AN2299.2	EAA64410	Aspergillus nidulans	0
Asp3507	0.671	1-31(31)	hypothetical protein AN5599.2	EAA62242	Aspergillus nidulans	2.00E-44
Asp2153	0.951	1-16(16)	subtilisin-like serine protease pepc precursor	P33295	Aspergillus niger	0
Asp53	0.859	1-19(19)	sugar transporter	AAL89823	Aspergillus niger	1.00E-116
Asp1821	0.476	1-32(32)	vacuolar membrane atpase c	BAB62811	Aspergillus oryzae	7.00E-73
Asp957	0.858	1-26(26)	hypothetical protein AN7457.2	EAA62037	Aspergillus nidulans	6.00E-50
Asp393	0.761	1-19(19)	Weakly similar to aar128wp]	NP_982670	Eremothecium gossypii	5.00E-34
Asp1345	0.887	1-29(29)	Weakly similar to adl096wp	NP_984000	Eremothecium gossypii	2.00E-46
Asp1201	0.959	1-19(19)	hypothetical protein AN4814.2	EAA60384	Aspergillus nidulans	2.00E-34
Asp4874	0.632	1-34(34)	Weakly similar to aflatoxin biosynthesis ketoreductase nor-1	Q00278	Aspergillus parasiticus	1.00E-23
Asp442	0.883	1-28(28)	hypothetical protein AN4235.2	EAA59334	Aspergillus nidulans	2.00E-76
Asp3646	0.567	1-26(26)	hypothetical protein AN8959.2	EAA63754	Aspergillus nidulans	1.00E-54
Asp1335	0.816	1-20(20)	Weakly similar to allergen asp f 4	O60024	Aspergillus fumigatus	8.00E-24
Asp1704	0.775	1-30(30)	Weakly similar to alpha 1,6 mannosyltransferase	CAD91643	Yarrowia lipolytica	4.00E-12
Asp2463	0.671	1-16(16)	Weakly similar to alpha,alpha-trehalose-phosphate synthase	NP_594728	Schizosaccharomyces pombe	8.00E-09
Asp1044	0.827	1-28(28)	Weakly similar to alpha-1,3-mannosyltransferase	AAQ86764	Cryptococcus neoformans	1.00E-08
Asp1617	0.936	1-18(18)	Weakly similar to antifungal protein precursor	JC4564	Penicillium chrysogenum	1.00E-08
Asp1831	0.855	1-27(27)	Weakly similar to carboxypeptidase s1	AAK77166	Aspergillus oryzae	1.00E-66
Asp2152	0.748	1-19(19)	Weakly similar to cell wall biogenesis protein	P38248	Schizosaccharomyces pombe	6.00E-32
Asp1291	0.494	1-18(18)	Weakly similar to cell wall synthesis protein	BAC82548	Penicillium chrysogenum	1.00E-12
Asp1813	0.933	1-19(19)	hypothetical protein FG09869.1]	XP_390045	Gibberella zeae	1.00E-104
Asp1074	0.841	1-30(30)	Weakly similar to dha14-like major facilitator	AAF64435	Botryotinia fuckeliana	2.00E-71
Asp2201	0.918	1-19(19)	Weakly similar to exo-1,3-beta-		Kluyveromyces	6.00E-15

			glucanase/1,3-beta-d-glucan glucanohydrolase	Q12628	lactis	
Asp2149	0.908	1-18(18)	Weakly similar to extracellular matrix protein	AAR06609	Magnaporthe grisea	5.00E-06
Asp4115	0.504	1-36(36)	Weakly similar to gaba permease	CAB43936	Emericella nidulans	2.00E-33
Asp5193	0.873	1-24(24)	hypothetical protein AN5450.2	EAA62610	Aspergillus nidulans	1.00E-92
Asp1421	0.599	1-25(25)	hypothetical protein	XP_328691	Neurospora crassa	3.00E-65
Asp533	0.627	1-38(38)	Weakly similar to hypothetical protein an0379.2	EAA66478	Aspergillus nidulans	5.00E-25
Asp2108	0.846	1-18(18)	Weakly similar to hypothetical protein an1449.2	EAA64579	Aspergillus nidulans	7.00E-20
Asp507	0.712	1-16(16)	Weakly similar to hypothetical protein an2869.2	EAA63440	Aspergillus nidulans	1.00E-05
Asp1614	0.953	1-24(24)	Weakly similar to hypothetical protein an4117.2	EAA59378	Aspergillus nidulans	2.00E-25
Asp1571	0.887	1-22(22)	Weakly similar to hypothetical protein an4422.2	EAA60339	Aspergillus nidulans	2.00E-14
Asp152	0.964	1-19(19)	Weakly similar to hypothetical protein an5335.2	EAA62495	Aspergillus nidulans	2.00E-08
Asp2045	0.925	1-19(19)	Weakly similar to hypothetical protein an5357.2	EAA62517	Aspergillus nidulans	7.00E-07
Asp4046	0.831	1-23(23)	Weakly similar to hypothetical protein an7041.2	EAA61687	Aspergillus nidulans	3.00E-09
Asp3349	0.708	1-36(36)	Weakly similar to hypothetical protein an7454.2	EAA62034	Aspergillus nidulans	1.00E-28
Asp1927	0.871	1-19(19)	Weakly similar to hypothetical protein an7941.2	EAA59595	Aspergillus nidulans	7.00E-08
Asp4355	0.599	1-34(34)	Weakly similar to hypothetical protein an8309.2	EAA66932	Aspergillus nidulans	1.00E-18
Asp2144	0.905	1-18(18)	Weakly similar to hypothetical protein an9450.2	EAA66809	Aspergillus nidulans	3.00E-15
Asp218	0.91	1-19(19)	Weakly similar to hypothetical protein fg02113.1	XP_382289	Gibberella zeae	1.00E-09
Asp4428	0.668	1-41(41)	Weakly similar to hypothetical protein fg03074.1	XP_383250	Gibberella zeae	4.00E-34
Asp1310	0.894	1-17(17)	Weakly similar to hypothetical protein fg08071.1	XP_388247	Gibberella zeae	2.00E-12
Asp1430	0.815	1-17(17)	Weakly similar to hypothetical protein mg01732.4	EAA56081	Magnaporthe grisea	2.00E-32
Asp3146	0.485	1-19(19)	Weakly similar to integral membrane family protein	NP_568386	Arabidopsis thaliana	5.00E-12
Asp3056	0.763	1-32(32)	Weakly similar to nucleobase permease, putative	CAF32038	Aspergillus fumigatus	4.00E-46
Asp130	0.578	1-22(22)	Weakly similar to oxidoreductase, mmyg	NP_639849	Streptomyces coelicolor	3.00E-20
Asp1818	0.803	1-21(21)	Weakly similar to pathogenicity protein	AAD01641	Magnaporthe grisea	3.00E-42

Asp3230	0.667	1-17(17)	Weakly similar to phd-type zinc finger	NP_588450	Schizosaccharomyces pombe	1.00E-24
Asp1918	0.936	1-18(18)	Weakly similar to predicted protein	EAA62532	Aspergillus nidulans	9.00E-10
Asp805	0.728	1-19(19)	Weakly similar to predicted protein	EAA62570	Aspergillus nidulans	1.00E-18
Asp881	0.705	1-25(25)	Weakly similar to predicted protein	EAA61476	Aspergillus nidulans	3.00E-06
Asp1070	0.744	1-24(24)	Weakly similar to predicted protein	EAA54079	Magnaporthe grisea	7.00E-27
Asp1697	0.642	1-32(32)	Weakly similar to predicted protein	EAA55453	Magnaporthe grisea	1.00E-25
Asp4873	0.84	1-15(15)	Weakly similar to predicted protein	XP_322535	Neurospora crassa	7.00E-33
Asp3814	0.632	1-25(25)	Weakly similar to predicted protein	XP_323565	Neurospora crassa	2.00E-18
Asp3602	0.654	1-25(25)	Weakly similar to predicted protein	XP_332102	Neurospora crassa	1.00E-14
Asp3305	0.758	1-18(18)	Weakly similar to predicted protein	XP_326695	Neurospora crassa	2.00E-16
Asp1230	0.846	1-17(17)	Weakly similar to predicted protein	XP_329231	Neurospora crassa	3.00E-18
Asp1292	0.787	1-31(31)	Weakly similar to predicted protein	XP_323368	Neurospora crassa	2.00E-39
Asp1546	0.898	1-19(19)	Weakly similar to predicted protein	XP_330658	Neurospora crassa	8.00E-25
Asp1547	0.946	1-19(19)	Weakly similar to predicted protein	XP_323846	Neurospora crassa	1.00E-13
Asp1606	0.914	1-23(23)	Weakly similar to predicted protein	XP_326639	Neurospora crassa	6.00E-48
Asp1709	0.912	1-33(33)	Weakly similar to predicted protein	XP_324766	Neurospora crassa	2.00E-16
Asp1866	0.824	1-34(34)	Weakly similar to predicted protein	XP_323995	Neurospora crassa	4.00E-16
Asp2148	0.745	1-30(30)	Weakly similar to predicted protein	XP_327196	Neurospora crassa	9.00E-18
Asp4784	0.89	1-21(21)	Weakly similar to protein of unknown function, green fluorescent protein (gfp)-fusion protein localizes to the endoplasmic reticulum; msc1 mutants are defective in directing meiotic recombination events to homologous chromatids; Msc1p	NP_013578	Saccharomyces cerevisiae	9.00E-16
Asp2275	0.811	1-45(45)	hypothetical protein AN6136.2	EAA57922	Aspergillus nidulans	8.00E-76
Asp1236	0.949	1-18(18)	hypothetical protein AN5125.2	EAA62306	Aspergillus nidulans	2.00E-20
Asp1413	0.768	1-27(27)	Weakly similar to signal peptidase-complex component	CAD10392	Candida albicans	2.00E-13
Asp1531	0.873	1-26(26)	Weakly similar to spherulin 4		Physarum	7.00E-14

			precursor	P11113	polypeptidase	
Asp4708	0.937	1-19(19)	Weakly similar to stcf_emeni probable sterigmatocystin biosynthesis p450 monooxygenase STCF (Cytochrome P450 60A2)	EAA61606	Aspergillus nidulans	5.00E-35
Asp564	0.862	1-19(19)	Weakly similar to stcs_emeni probable sterigmatocystin biosynthesis p450 monooxygenase STCS (Cytochrome P450 59)	EAA61596	Aspergillus nidulans	1.00E-18
Asp941	0.552	1-15(15)	Weakly similar to the authentic, non-tagged protein was localized to the mitochondria; Yer004wp	NP_010919	Saccharomyces cerevisiae	2.00E-24
Asp3922	0.906	1-23(23)	hypothetical protein FG05404.1	XP_385580	Gibberella zeae	2.00E-40
Asp611	0.734	1-18(18)	Weakly similar to transmembrane transporter liz1p.	NP_596430	Schizosaccharomyces pombe	6.00E-46
Asp2493	0.721	1-19(19)	Weakly similar to transposase	BAC54731	Aspergillus oryzae	2.00E-08
Asp777	0.547	1-27(27)	Weakly similar to dehydrogenases with different specificities	ZP_00184180	Exiguobacterium sp.	1.00E-14
Asp4102	0.76	1-40(40)	hypothetical protein AN8328.2	EAA66951	Aspergillus nidulans	9.00E-11
Asp4682	0.749	1-39(39)	Weakly similar to unnamed protein product	CAD60573	Podospira anserina	1.00E-09
Asp139	0.921	1-23(23)	Weakly similar to zinc transporter zip (40.5 kd) (So194)	NP_506393	Caenorhabditis elegans	1.00E-17
Asp1463	0.933	1-15(15)	xyloglucanase 2	AAO20340	Aspergillus aculeatus	1.00E-100
Asp1943	0.924	1-22(22)	xylosidase	CAB06417	Aspergillus niger	0