Name ID or ORF6 ORF19 Cap1/ WT/ pdo2 Putative GPI-anchored protein of unknown function; opaque-to-grouping Putative GPI-anchored protein with C-terminal similarity to Hwp1p; unpregulated; alpha factor induced; Rim101p-regulated; merg undergoused; merged with on the ALS gene family with the ALS gene family regulated; alpha factor induced; caspofungin repressed; merged with on the ALS gene family repressed by regulated by growth phase, and biofilm formation; putative GPI-anchore; cell wall secreted; has stable propeptide; regulated by growth phase, and biofilm formation; putative GPI-anchored protein; caspofungin induced; Pic1p-repressed by Rim101p, Hog1p; shows colony morphology-relinguation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulation by San6p; increased mRNA abundance in cyr1 hore regulated open degree in the protein in the protein induced; protei	alkaline ed with ly; rf19.4555 in ses increased I and phosphate, egulated; ated gene nozygous null d by Nrg1p, n at acidic 11p similar to S.
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Secreted; has stable propeptide; regulated by growth phase, Secreted; has stable propeptide; regulated by Rim101p Secretary	egulated; ated gene nozygous null d by Nrg1p, n at acidic 11p similar to S.
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Cell Surface Protein RBR1 (SNF5) 450 535 2.79 4.94 1.77 PH; expression is repressed by Rim101p and activated by Nrc Putative GPI-anchored cell wall protein required for filamentous growth Putative GPI-anchored cell wall protein of unknown function; cerevisiae Ccw12p/Ylr110cp; transcriptionally regulated by inc Cell Surface Protein PGA6 4590 4765 1.72 2.38 1.39 2.79 4.94 1.77 Putative GPI-anchored cell wall protein required for filamentous growth Putative GPI-anchored cell wall protein in filamentous growth Cell Surface Protein RBT1 4889 1327 1.79 2.22 1.24 Rim101p-regulated Putative GPI-anchored cell wall protein in required for filamentous growth Putative GPI-anchored cell wall protein in filamentous growth Putative GPI-anchored cell wall protein required for filamentous growth Putative GPI-anchored cell wall protein required for filamentous growth Putative GPI-anchored cell wall protein required for filamentous growth Putative GPI-anchored cell wall protein required for filamentous growth Putative GPI-anchored cell wall protein required for filamentous growth Putative GPI-anchored cell wall protein required for filamentous growth Putative GPI-anchored cell wall protein filame	11p similar to <i>S.</i>
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Cell Surface Protein RBT1 4889 1327 1.79 2.22 1.24 , Rim101p-regulated Putative GPI-anchored protein PGA25 5529 6336 1.36 2.09 1.54 downregulated	
Cell Surface Protein PGA25 5529 6336 1.36 2.09 1.54 downregulated	ucea; Rigip-
	ole-
GPI-anchored cell wall protein required for filamentous growtl	
Cell Surface Protein RBR1 (SNF5) 6747 535 2.90 4.43 1.53 pH; expression is repressed by Rim101p and activated by Nrc Beta-qlucan associated cell wall protein with role in cell walls	
rich protein, GPI-anchor; similar mRNA abundance in yeast-fo	orm and germ
Lube; detected at germ tube plasma membrane by mass spec Cell Surface Protein SSR1 7956 7030 1.38 2.12 1.53 S. cerevisiae Ssr1p	; similar to
Cell Surface Protein PGA52 (YJL171C) 799 1.91 2.06 1.08 Putative GPI-anchored protein of unknown function; fluconazo	
Nonessential, GPI-anchored, predicted cell wall protein; possi glycosylation; induced in hyphae; induction associated with a	
Cell Surface Protein HYR1 (YIL169C) 857 4975 1.31 2.15 1.64 resistance; regulated by Rfg1p, Efg1p, Nrg1p, Tup1p, Cyr1p	
Putative GPI-anchored protein of unknown function; opaque-s	pecific
Subunit of beta-1,3-glucan synthase; essential; gsc1 allele de	
resistance/sensitivity to echinocandin antifungals; 16 predicte spanning regions; mRNA abundance declines after yeast-to-h	
Cell Wall Biosynthesis GSC1 3785 2929 1.42 2.01 1.41 transition; fungal-specific	
Endocytosis FMP45 (YDL222C) 1074 6489 2.42 3.84 1.59 repressed in response to alpha pheromone in Spider medium	nated;
Endocytosis LSP1 1659 3149 1.34 2.10 Predicted ORF from Assembly 19; caspofungin repressed; fun (no human or murine homolog)	gal-specific
Endocytosis SUR7 360 3414 1.75 2.62 1.50 Predicted ORF in Assemblies 19 and 20	
Similar to <i>S. cerevisiae</i> Rot1p, which is involved in cell wall 1, ER Protein ROT1 3157 6029 2.15 2.16 1.00 glucan biosynthesis; has predicted transmembrane region	6-beta-
ER Protein YET3 6421 1564 1.55 2.18 1.41 Predicted ORF in Assemblies 19 and 20	
ER Protein PER1 6605 4240 1.88 3.80 2.02 Predicted ORF in Assemblies 19 and 20 Cytochrome b(5); not essential for viability; similar to S. cere	visiae
Cyb5p; transcriptionally regulated by iron; expression greater	r in high iron;
Ergosterol Biosynthesis CYB5 8504 7049 1.48 2.84 1.92 Ssn6p	egulation by
Putative C-22 sterol desaturase; fungal C-22 sterol desaturas	
cytochrome P450 enzymes of ergosterol biosynthesis, catalyz of the C-22(23) double bond in the sterol side chain; transpos	
Ergosterol biosynthesis and lipid metabo ERG5 6958 5178 1.28 2.39 1.86 affects filamentous growth	'\. mundiatad
Putative phosphatidylinositol-specific phospholipase C (PI-PLC type 2 membrane protein; role in, and regulated by, filamenta	
Fatty Acid Biosynthesis FGR22 5334 1586 1.91 2.08 1.09 mouse systemic virulence role; almost identical to orf19.5797	
Enzyme involved in utilization of L-sorbose; has sorbitol dehy fructose reductase, and sorbose reductase activities; has NAL	
Enzyme involved in utilization of L-sorbose; has sorbitol dehyling fructose reductase, and sorbose reductase activities; has NAL Fatty Acid Catabolism SOU1 6126 2896 1.29 3.51 2.71 motif; transcriptional regulation affected by chromosome 5 co	onazole-
Enzyme involved in utilization of L-sorbose; has sorbitol dehylifructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 cc Protein described as similar to UDP-glucose 4-epimerase; fluc Galactose Metabolism GAL10 6483 3672 1.28 2.12 1.66 induced	
Enzyme involved in utilization of L-sorbose; has sorbitol dehyl fructose reductase, and sorbose reductase activities; has NAE atty Acid Catabolism SOU1 6126 2896 1.29 3.51 2.71 motif; transcriptional regulation affected by chromosome 5 cc Protein described as similar to UDP-glucose 4-epimerase; fluctional frequency fluctore described as similar to UDP-glucose 4-epimerase; fluctional frequency fluctore described as similar to glucan 1,3-beta-glucosidase; respectively.	egulated by
Enzyme involved in utilization of L-sorbose; has sorbitol dehylifructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 control Protein described as similar to UDP-glucose 4-epimerase; fluc activities and sorbose reductase activities; has NAT with transcriptional regulation affected by chromosome 5 control regulation affected by chromosome 5 control reduction as similar to UDP-glucose 4-epimerase; fluc induced Protein described as similar to glucan 1,3-beta-glucosidase; row Nrg1p, Tup1p; possibly regulated by Tac1p; induced upon bio Giucoside Hydrolysis YBR056W 8114 7214 1.38 2.14 1.55 formation; induced by nitric oxide; induced during cell wall re	egulated by film
Enzyme involved in utilization of L-sorbose; has sorbitol dehylifructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 cc Protein described as similar to UDP-glucose 4-epimerase; fluc induced Galactose Metabolism GAL10 GH26 GH26 GH26 GH26 GH27 GH26 GH26 GH26 GH27 GH26 GH27 GH26 GH27 GH26 GH27 GH26 GH27 GH26 GH27	egulated by film generation
Enzyme involved in utilization of L-sorbose; has sorbitol dehy fructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 cc Protein described as similar to UDP-glucose 4-epimerase; fluc alactose Metabolism Galactose Metabolism GAL10 GAL10 G483 GAL10 Frotein described as similar to glucan 1,3-beta-glucosidase; r Nrg1p, Tpp1p; possibly regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall re Glutamate Biosynthesis GLT1 GLT1 GLT1 GLT1 GLT2 G272 G257 G272 G257 G272 G273 GAL3 GAL10 GAL10 Frotein described as similar to glucan 1,3-beta-glucosidase; r Nrg1p, Tpp1p; possibly regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall re Glutamate Biosynthesis GLT1 GLT2 G272 G273 G275 G275 G276 G277 G276 G277 G276 G277 G277 G277 G278 G277 G278 G277 G277 G278 G278 G277 G278 G278 G277 G278 G2	egulated by film generation dig1p, and cells, but not
Enzyme involved in utilization of L-sorbose; has sorbitol dehylifructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 composed protein described as similar to UDP-glucose 4-epimerase; fluctured protein described as similar to UDP-glucose 4-epimerase; fluctured protein described as similar to glucan 1,3-beta-glucosidase; roughly functional regulation affected by chromosome 5 composed protein described as similar to UDP-glucose 4-epimerase; fluctured protein described as similar to glucan 1,3-beta-glucosidase; roughly functional regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall resultant glucan 1,3-beta-glucosidase; roughly functional regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall resultant glucan 1,3-beta-glucosidase; roughly functional regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall resultant glucan 1,3-beta-glucosidase; roughly functional regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall resultant glucan 1,3-beta-glucosidase; roughly functional regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall resultant glucan 1,3-beta-glucosidase; roughly functional regulation of L-sorbose; has sorbitol dehyling fructose reductase, and sorbose reductase, a	egulated by film generation dig1p, and cells, but not
Enzyme involved in utilization of L-sorbose; has sorbitol dehy fructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 cr Protein described as similar to UDP-glucose 4-epimerase; fluc alactose Metabolism GAL10 6483 3672 1.28 2.12 1.66 induced Protein described as similar to UDP-glucose 4-epimerase; fluc protein described as similar to glucan 1,3-beta-glucosidase; r Nrg1p, Tup1p; possibly regulated by Tac1p; induced upon bio Glucoside Hydrolysis YBR056W 8114 7214 1.38 2.14 1.55 formation; induced by nitric oxide; induced during cell wall re Glutamate Biosynthesis GLT1 2272 6257 1.24 2.79 2.25 Alkaline downregulated Glycogen catabolism GPH1 7947 7021 1.16 4.94 4.25 glycogen phosphorylase; gene regulated by Glycogen sy Protein described as self-glucosylating initiator of glycogen sy	egulated by film generation dig1p, and cells, but not otein of
Enzyme involved in utilization of L-sorbose; has sorbitol dehylifructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 comparison of the protein described as similar to UDP-glucose 4-epimerase; fluctional described as similar to UDP-glucose 4-epimerase; fluctional described as similar to glucan 1,3-beta-glucosidase; robustic described as similar to glucan 1,3-beta-glucosidas; robustic described as similar to glucosidas; robustic described as similar to glucan 1,3-beta-glucosidas; robustic descr	egulated by film generation dig1p, and cells, but not otein of nthesis;
Enzyme involved in utilization of L-sorbose; has sorbitol dehy fructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 cc Protein described as similar to UDP-glucose 4-epimerase; fluc Aladiose Metabolism GAL10 6483 3672 1.28 2.12 1.66 induced Protein described as similar to UDP-glucose 4-epimerase; fluc Protein described as similar to glucan 1,3-beta-glucosidase; r Nrg1p, Tup1p; possibly regulated by Tac1p; induced upon bio Glucoside Hydrolysis GIutamate Biosynthesis GLT1 2272 6257 1.24 2.79 2.25 Alkaline downregulated Glucoside Hydrolysis GPH1 7947 7021 1.16 4.94 4.25 glycogen phosphorylase; gene regulated by Ssk1p, N Tup1p; fluconazole-induced; localizes to cell surface of hypha yeast-form cells; S. cerevisiae Gph1p is a stress-regulated protein described as self-glucosylating initiator of glycogen synthesis GLG2 8594 7434 1.31 3.29 2.50 expression is regulated upon white-opaque switching Glycolysis Detoxification GLO2 6848 4088 1.67 2.19 1.31 Predicted ORF in Assemblies 19 and 20 Alpha-1,2-mannosyl transferase; adds second mannose durin	egulated by film generation dig1p, and cells, but not otein of nthesis;
Fatty Acid Catabolism SOU1 6126 2896 1.29 3.51 2.71 motif; transcriptional regulation affected by chromosome 5 cc Protein described as similar to UDP-glucose 4-epimerase; fluc induced Protein described as similar to glucan 1,3-beta-glucosidase; r Nrg1p, Tup1p; possibly regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall re Glutamate Biosynthesis GPH1 7947 7021 1.16 4.94 4.25 Glycogen catabolism GLG2 8594 7434 1.31 3.29 2.50 Enzyme involved in utilization of L-sorbose; has sorbitol dehy, fructose reductase, and sorbose reductase reductase, and sorbose reductase of Protein described as similar to UDP-plucose 4-epimerase; fluc rotein d	egulated by film generation dig1p, and cells, but not otein of nthesis; g cell wall nd
Fatty Acid Catabolism SOU1 6126 2896 1.29 3.51 2.71 motif; transcriptional regulation affected by chromosome 5 cc Protein described as similar to UDP-glucose 4-epimerase; fluc induced Protein described as similar to glucan 1,3-beta-glucosidase; r Nrg1p, Tup1p; possibly regulated by Tac1p; induced upon bio formation; induced by nitric oxide; induced during cell wall regulation Glucoside Hydrolysis YBR056W 8114 7214 1.38 2.14 1.55 Glutamate Biosynthesis GLT1 2272 6257 1.24 2.79 2.25 Alkaline downregulated Putative glycogen phosphorylase; gene regulated by Ssk1p, N Tup1p; fluconazole-induced; localizes to cell surface of hypha yeast-form cells; S. cerevisiae Gph1p is a stress-regulated pr Glycogen Synthesis GLG2 8594 7434 1.31 3.29 2.50 Rynthesis GLG2 8594 7434 1.31 3.29 2.50 Rynthesis Glycolysis Detoxification MNT1 5740 1665 1.28 2.25 1.75 ffungal-specific	egulated by film generation dig1p, and cells, but not otein of nthesis;
Enzyme involved in utilization of L-sorbose; has sorbitol dehy fructose reductase, and sorbose reductase activities; has NAT motif; transcriptional regulation affected by chromosome 5 cc Protein described as similar to UDP-glucose 4-epimerase; fluc as similar to UDP-glucose 4-epimerase; fluc protein described as similar to UDP-glucose 4-epimerase; fluc induced Protein described as similar to UDP-glucose 4-epimerase; fluc protein described as similar to UDP-glucose 4-epimerase; fluc protein described as similar to glucan 1,3-beta-glucosidase; normal protein described as similar to glucosidase; normal protein described as simil	egulated by film generation dig1p, and cells, but not otein of nthesis; g cell wall nd tein of Golgi;
Enzyme involved in utilization of L-sorbose; has sorbitol dehy fructose reductase, and sorbose reductase activities; has NAT Fatty Acid Catabolism SOU1 6126 2896 1.29 3.51 2.71 motif; transcriptional regulation affected by chromosome 5 corprotein described as similar to UDP-glucose 4-epimerase; fluc Protein described as similar to UDP-glucose 4-epimerase; fluc Protein described as similar to UDP-glucose 4-epimerase; fluc Protein described as similar to glucan 1,3-beta-glucosidase; r Nrg1p, Tup1p; possibly regulated by Tac1p; induced upon bio Glucoside Hydrolysis Glucoside Hydrolysis Glutamate Biosynthesis GLT1 22T2 6257 1.24 2.79 2.25 Alkaline downrequlated Putative glycogen phosphorylase; gene regulated by Ssk1p, N Tup1p; fluconazole-induced; localizes to cell surface of hypha yeast-form cells; S. cerevisiae Gph1p is a stress-regulated provided for glycogen Synthesis Glycogen Synthesis GLG2 8594 7434 1.31 3.29 2.50 expression is regulated upon white-opaque switching Glycolysis Detoxification GLO2 6848 4088 1.67 2.19 1.31 Predicted ORF in Assemblies 19 and 20 Alpha-1,2-mannosyl transferase; adds second mannose durin mannoprotein biosynthesis; required for wild-type virulence a adherence to epithelial cells; predicted type II membrane pro Glycosylation MNT1 5740 1665 1.28 2.25 1.75 fungal-specific Golgi Protein YER113C 3027 3228 1.23 3.01 2.45 Predicted ORF in Assemblies 19 and 20	egulated by film generation dig1p, and cells, but not otein of nthesis; g cell wall nd tein of Golgi;

	1						Possible pseudogene; similar to Ywp1p; ORF extended upstream from the
							initiating Met of orf19.3621 has a stop codon in the region corresponding to the Ywp1p signal peptide; disruption causes no apparent phenotype; no
Hypothetical Protein	Orf6.1513	1513	3621	1.55	2.08		expression detected
Hypothetical Protein	Orf6.1762	1762	5592	1.06	2.44	2.31	Predicted ORF in Assemblies 19 and 20 Predicted ORF from Assembly 19; a-specific transcription; alpha-factor
Hypothetical Protein	DAG7 (Orf6.1768)	1768	4688	1.44	2.33	1.61	induced Predicted ORF from Assembly 19; ketoconazole-induced; fluconazole-downregulated; induced in a cyr1 homozygous null mutant; shows colony morphology-related gene regulation by Ssn6p; merged with orf19.2296 in
Hypothetical Protein	Orf6.1793 SNA2	1793 2615	682 4132	1.81 1.36	3.66 2.35	2.02 1.73	Assembly 20 Predicted ORF in Assemblies 19 and 20
Hypothetical Protein	SNAZ	2015	4132	1.30	2.35	1./3	Predicted ORF in Assemblies 19 and 20; fluconazole-induced; possibly
Hypothetical Protein	Orf6.2644	2644	1344	1.15	2.85	2.47	spurious ORF (Annotation Working Group prediction) Predicted ORF in Assemblies 19 and 20: repressed by nitric oxide: possibly
Hypothetical Protein	Orf6.282	282	1873	1.81	2.10		spurious ORF (Annotation Working Group prediction)
Hypothetical Protein	Orf6.2999	2999	1098	2.69	18.93		Predicted ORF from Assembly 19; merged with orf19.1097 in Assembly 20 Putative alcohol dehydrogenase; soluble protein in hyphae; expression is regulated upon white-opaque switching; fluconazole-induced; antigenic
Hypothetical Protein	ADH5	4277 4661	2608 5496	1.18	2.01	1.70	during murine systemic infection; regulated by Nrg1p, Tup1p Predicted ORF in Assemblies 19 and 20
Hypothetical Protein	AVT1						Predicted ORF in Assemblies 19 and 20; possibly spurious ORF (Annotation
Hypothetical Protein	Orf6.4929	4929	1060	1.21	3.11	2.57	Working Group prediction) Predicted ORF in Assemblies 19 and 20; possibly spurious ORF (Annotation
Hypothetical Protein Hypothetical Protein	Orf6.5070 Orf6.5548	5070 5548	5602 2302	2.17 1.36	2.40 3.07		Working Group prediction) Predicted ORF in Assemblies 19 and 20
Hypothetical Protein	YGR026W	5843	3872	2.41	3.53		Predicted ORF in Assemblies 19 and 20
Hypothetical Protein	Orf6.5961	5961	5137	1.34	2.33	1.74	Predicted ORF in Assemblies 19 and 20; possibly spurious ORF (Annotation Working Group prediction)
Hypothetical Protein	Orf6.5969	5969	2030	2.29	2.37		Predicted ORF in Assemblies 19 and 20; greater mRNA abundance observed in a cyr1 or ras1 homozygous null mutant than in wild-type
							Putative transporter; fungal-specific (no human or murine homolog); Hog1p-downregulated; downregulated in response to 17-beta-estradiol,
Hypothetical Protein	РНМ7	6093	2170	1.20	2.76	2.31	ethynyl estradiol Predicted ORF in Assemblies 19 and 20; possibly spurious ORF (Annotation
Hypothetical Protein	Orf6.6095	6095	3430	1.86	2.07	1.11	Working Group prediction) Predicted ORF from Assembly 19; fungal-specific (no human or murine
Hypothetical Protein	FMP27	6103	3422	1.74	2.33	1.34	
Hypothetical Protein	MET13 (YMR295C)	6135	2887	1.31	2.19	1.66	Predicted ORF in Assemblies 19 and 20; repressed by nitric oxide; possibly
Hypothetical Protein	Orf6.6662	6662	2954	1.18	2.65	2.24	
I live of badical Dualain	VICEDATO	6070	5450	1.40	2.54	4.74	and to orf19.5158; regulated by Gcn4p, Cyr1p; induced in response to
Hypothetical Protein Hypothetical Protein	YKR049 STU1	6978 7247	5158 4435	1.46	2.54 3.09	2.89	amino acid starvation (3-aminotriazole treatment) Predicted ORF in Assemblies 19 and 20
Hypothetical Protein	Orf6.7464	7464	2091	2.11	2.30		Predicted ORF in Assemblies 19 and 20; repressed by nitric oxide Predicted ORF in Assemblies 19 and 20; possibly spurious ORF (Annotation
Hypothetical Protein	Orf6.7997	7997	5012	1.28	2.17		Working Group prediction)
Hypothetical Protein Hypothetical Protein	Orf6.8375 Orf6.8635	8375 8635	7294 5399	2.72	2.91 3.06	1.07 1.42	Predicted ORF from Assembly 19; removed from Assembly 20 Predicted ORF in Assemblies 19 and 20
Hypothetical Protein	Orf6.8756	8756	7504	1.77	2.20	1.24	Predicted ORF in Assemblies 19 and 20; Plc1p-regulated; induced in core caspofungin response
Hypothetical Protein	Orf6.968	968	3888.2	1.19	2.76	2.31	ORF Predicted by Annotation Working Group Protein kinase of the Cdc2 subfamily involved in hypha development and virulence; promotes hypha development independently of Cph1 and Efg1; complements S. cerevisiae sqv1 mutant; merged with orf19.3523 in
Kinase activity	CRK1	2037	3524	1.24	2.51	2.02	Assembly 20
Kinase activity	YDR109C	4693	2737	1.45	2.61	1.80	Predicted ORF in Assemblies 19 and 20
Lipid Binding Protein	TCB3	5286	3003	2.82	2.86		Predicted ORF in Assemblies 19 and 20 Functional homolog of <i>S. cerevisiae</i> Shr3p, which is a chaperone specific for amino acid permeases; localized to ER; required for wild-type aminoacid responsive hypha growth and for mouse systemic virulence;
Membrane Protein Metabolism	CSH3 MAM33	2577 8087	3366 7187	2.53 1.08	2.96 2.18	1.17 2.03	regulated by Gcn2p and Gcn4p Predicted ORF from Assembly 19; regulated by Ssn6p
Methylation	SPE2	4718	568	1.07	2.99	2.80	Predicted ORF from Assembly 19; possibly adherence-induced
Mitochondrial Protein	MRPS5	1598	989	1.36	3.42		Predicted ORF in Assemblies 19 and 20 Protein described as cytochrome c1; transcriptionally regulated by iron;
Mitochondrial Protein	CYT1	2040	3527	1.73	2.83	1.64	expression greater in high iron; alkaline downregulated Cytochrome c; complements defects of an <i>S. cerevisiae</i> cyc1 cyc7 double
Mitochondrial Protein	CYC1	244	1770	1.99	2.03	1.02	mutant; transcriptionally regulated by iron; expression greater in high iron; alkaline downregulated; repressed by nitric oxide
Mitochondrial Protein	COX15	3305	3656	1.45	2.29	1.58	Transcription is regulated by Nrg1p and Tup1p; alkaline downregulated
Mitochondrial Protein	Orf6.4597	4597	4758	1.53	2.09		Predicted ORF in Assemblies 19 and 20; alkaline downregulated
Mitochondrial Protein Mitochondrial Protein	QCR7 YER053C	4788 5348	5629 1395	1.87 1.49	2.33		Predicted ORF in Assemblies 19 and 20 Predicted ORF in Assemblies 19 and 20 Predicted ORF fin Assemblies 19 and 20
Mitochondrial Protein	COX4	7102	1471	1.59	2.03	1.28	Predicted ORF from Assembly 19; transcription is regulated by Mig1p; macrophage/pseudohypha-induced; repressed by nitric oxide
Mitochondrial Protein	COR1	7429	4016	1.36	2.01	1.47	
Mitochondrial Protein	NUC2	7629	6531	1.92	3.25	1.69	Protein described as NADH-ubiquinone oxidoreductase; identified in detergent-resistant membrane fraction (possible lipid raft component); alkaline downregulated
Mitochondrial Protein	YML6	7945	7019	1.82	2.06	1.13	Protein described as a mitochondrial ribosomal protein; induced upon adherence to polystyrene
							Protein described as ubiquinone reductase; transcriptionally induced by interaction with macrophage; alkaline downregulated; repressed by nitric
Mitochondrial Protein	FESUR1	8837	6794	1.78	2.03	1.14	
Mitochondrial Protein	RIP1	9144	5893	1.66	2.31	1.39	alkaline downrequlated; repressed by nitric oxide Predicted ORF from Assembly 19; flucytosine induced;
Nucleotide Biosynthesis	URA2	2755	2360	2.02	2.25	1.11	
Phosphatase activity	CWH8	2497	3682	1.62	3.09	1.91	induced; expression is increased in a fluconazole-resistant isolate Protein similar to UTP-glucose-1-phosphaturidyl transferase; localizes to
Phosphatase activity	UGP1	346	1738	1.62	2.01	1.24	cell surface of yeast-form cells, but not hypha cells; Hog1p-downregulated

							Putative phosphatidylserine synthase; similar to <i>S. cerevisiae</i> Cho1p, which is involved in phosphatidylserine biosynthesis; transposon mutation affects filamentous growth; regulated by Nrg1p, Tup1p; no human or
Phospholipid Synthesis	CHO1 YOL098C	6570 6802	677 6693	2.17 1.26	2.77 3.04	1.27 2.42	murine homolog Predicted ORF in Assemblies 19 and 20
Protein catabolism Protein Folding	PAC10	9052	5985	2.16	2.20		Predicted ORF in Assemblies 19 and 20 Predicted ORF in Assemblies 19 and 20
	77.070	0002		20	2.20		GDP-mannose transporter; essential gene; required for glycosylation, hypha growth; functional homolog of <i>S. cerevisiae</i> Vrg4p, which imports GDP-mannose from cytoplasm to Golgi for protein and lipid
Protein Modification	VRG4	5085	1232	1.15	2.17	1.89	mannosylation; no mammalian homolog
Protein Secretion	NCE102	9077	5960	1.09	2.14	1.96	Predicted ORF in Assemblies 19 and 20
							Protein involved in transport from multivesicular body to vacuole; similar to <i>S. cerevisiae</i> Bro1p, which is a class E vacuolar protein sorting (VPS) factor; not involved in <i>RIM101</i> pathway; macrophage/pseudohypha-
Protein Sorting	BRO1	5745	1670	1.53	3.57	2.33	repressed Alanyl-tRNA synthetase; translational regulation generates cytoplasmic
Buttie 0 officein	A. A.	2005	5740	4.70	0.05	4.70	and mitochondrial forms; regulated by Gcn4p; repressed upon amino acid starvation (3-AT); translation-related genes downregulated upon
Protein Synthesis	ALA1	2925	5746	1.73	2.95	1.70	phagocytosis by murine macrophage Protein similar to <i>S. cerevisiae</i> Ytm1p, which is involved in biogenesis of
Ribosomal Formation	YTM1	5221	4815	1.11	3.01	2.72	the large ribosomal subunit; transposon mutation affects filamentous growth Protein of unknown function; ortholog of <i>S. cerevisiae</i> Emg1p, which is
Ribosomal Formation	EMG1	6558	665	2.72	2.98	1.09	involved in ribosome biogenesis
Ribosomal Formation/ Transporter	KAP120	8077	7177	0.99	2.46		Predicted ORF in Assemblies 19 and 20
RNA metabolism	Orf6.1932	1932	551	1.17	2.61	2.22	
	0.50						Secreted aspartyl proteinase; regulated by growth phase, temperature, and white-opaque switch; highly expressed in opaque cells; expressed upon deep epidermal invasion; greater expression during vaginal infection
Secreted Protein Splicing	SAP8 CWC2	2688 6567	242 674	1.97 0.83	2.03	1.03 3.36	than oral infection Predicted ORF in Assemblies 19 and 20
							Predicted ORF in Assemblies 19 and 20; regulated by Gcn2p and Gcn4p;
Stress Associated Protein	Orf6.2780	2780	1152	1.58	3.30	2.09	induced in core stress response Member of ThiJ/PfpI protein family; antigenic (C and a 3 allergen); binds
Stress Associated Protein	YDR533C	1991	251	1.80	2.46	1.37	human immunoglobulin E; 2 N-glycosylation motifs; alkaline, fluconazole, Hog1p-downregulated; induced in core stress response or by oxidative
Stress Associated Fiotein	TDRSSSC	1991	201	1.60	2.40	1.37	Similar to <i>S. cerevisiae</i> Gre2p (methylglyoxal reductase); antigenic in
							human; regulation associated with azole resistance; induced in core stress
Stress Associated Protein	GRP2 (GRE2)	3162	4309	1.64	2.91	1.78	response or by oxidative stress (via Cap1p), fluphenazine, benomyl, or fluconazole (long term)
Stress Associated Protein	IST2	3721	2792	1.33	2.03		Predicted ORF in Assembly 19
							Protein described as similar to heat shock proteins; transcription regulated by cAMP, osmotic stress, ciclopirox olamine, ketoconazole; negatively regulated by Cyr1p, Ras1p; shows colony morphology-related gene
Stress Associated Protein	ASR1	4208	2344	2.99	5.43	1.82	regulation by Ssn6p Similar to S. cerevisiae Gre2p (methylglyoxal reductase); antigenic in
Observa Associated Budgin	0000 (0000)	4044	4000	4.50		4.40	human; regulation associated with azole resistance; induced in core stress response or by oxidative stress (via Cap1p), fluphenazine, benomyl, or
Stress Associated Protein	GRP2 (GRE2)	4614	4309	1.58	2.30	1.46	fluconazole (long term) Aquaporin water channel; mutant has increased resistance to osmotic
Stress Associated Protein	AQY1	4943	2849	1.64	2.75	1.68	shock; required for wild-type tolerance of freezing; not required for virulence in a mouse model of systemic infection; flucytosine repressed Catalase; role in resistance to oxidative stress, including neutrophils,
	0.71						peroxide; role in murine systemic virulence; regulated by iron, ciclopirox olamine, fluconazole, growth, carbon source, pH, Rim101p, Ssn6p, Hog1p,
Stress Associated Protein	CAT1	5127	6229	2.40	6.84	2.85	core stress response Similar to cell wall proteins; induced in core stress response, core
Stress Associated Protein	YEL077C	6568	675	2.07	2.18	1.05	caspofungin response; iron-regulated; amphotericin B induced; regulated by Cyr1p, Ssn6p; possibly spurious ORF (Annotation Working Group prediction)
Ottess / tosociated Totelli	1220110	0000	070	2.07	2.10	1.00	Immunogenic stress-associated protein; regulated by filamentous growth pathways; induced by benomyl, caspofungin, or in azole-resistant strain;
Stress Associated Protein	DDR48	6854	4082	3.16	4.52	1.43	Hog1p, alkaline downregulated; similar to <i>S. cerevisiae</i> Ddr48p (ATP/GTPase, role in DNA repair)
							Predicted ORF in Assemblies 19 and 20; decreased expression in hyphae compared to yeast-form cells; transcription is increased in populations of
Stress Associated Protein	HSP12 (WHS11)	2761	4216	2.63	25.29	9.60	compared to yeast-form cells; transcription is increased in populations or cells exposed to fluconazole over multiple generations Similar to cytochrome-c peroxidase N terminus; transcription is negatively
Stress Associated Protein, Mitochondria	0001	957	238	2.11	2.68	1.27	regulated by Rim101p or alkaline pH; transcription induced by interaction
Stress Associated Protein, Millocrionana	CCP1	957	238	2.11	2.08	1.21	with macrophage or low iron; oxygen-induced activity Mitochondrial manganese-containing superoxide dismutase; role in protection against oxidative stress; active as homotetramer; N-terminal
Stress Associated Protein, Mitochondria	SOD2	4731	3340	1.24	2.35	1.89	34 amino acids removed upon import into mitochondria; H ₂ O ₂ -induced via Cap1p; alkaline downregulated
Duess Associated Flotelli, Millochondha	3002	4131	J34U	1.24	2.33	1.69	Protein described as aconitase; regulated by Gcn4p; induced by amino acid starvation (3-AT treatment) or amphotericin B, phagocytosis;
TCA Cycle	ACO1	5837	6385	1.33	2.60	1.96	fluconazole-downregulated; expression greater in high iron; antigenic in human or murine infection
							Transcriptional repressor; required for white-phase cell type; hypha growth, metabolism, cell-wall gene regulator; roles in adhesion, virulence; Cph1p and Efg1p have role in host cytokine response; bHLH; binds E-box;
Transcription	EFG1	2978	610	2.64	2.74	1.04	T206 phosphorylated
Transcription	ZCF29	5965	5133	1.27	2.12	1.66	Predicted zinc-finger protein of unknown function
Transcription	FCR1	8814	6817	2.15	5.43	2.53	Putative zinc cluster transcription factor; negative regulator of fluconazole, ketoconazole, brefeldin A resistance; transposon mutation affects filamentous growth; partially suppresses <i>S. cerevisiae</i> pdr1 pdr3 mutant fluconazole sensitivity
Transcription	FURI	0014	001/	2.15	3.43	2.03	Transcription factor required for wild-type biofilm formation; not required
Transcription / Biofilm Formation	BCR1	6020	723	1.12	2.45	2.20	for hypha growth; regulates cell surface associated genes; has C2H2 zinc finger; similar to <i>S. cerevisiae</i> Ypl230wp; filament induced; Tup1p-, Tec1p-regulated
Transcription / Iron Regulated	YNL227C	229	2399	1.03	2.88		Putative transcription factor with zinc finger DNA-binding motif; similar to bacterial DnaJ; transcriptionally regulated by iron; expression greater in
Transcription / Iron Regulated	YLR401C	6422	1565	1.27	2.73	2.16	Putative transcription factor with zinc finger DNA-binding motif
Transporter	EPT1	2143	3695	0.77	1.82		Predicted ORF in Assemblies 19 and 20

							Putative general amino acid permease; fungal-specific (no human or
Transporter	GAP6	2231	1799	1.51	2.75	1.82	murine homolog)
							Putative glycerophosphoinositol permease; fungal-specific (no human or
							murine homolog); alkaline downregulated; transcription is specific to white
Transporter	GIT1	2481	1979	1.36	2 22	161	cell type; caspofungin repressed; macrophage/pseudohypha-repressed
	YHC3	3016	4059	1.46	2.23		Predicted ORF in Assemblies 19 and 20
Transporter	YHC3	3016	4059	1.40	2.06	1.41	
							Protein described as predicted manganese transporter; alkaline
						l	downregulated; shows colony morphology-related gene regulation by
Transporter	CCC1	7334	6948	1.18	4.52	3.84	Ssn6p; repressed by nitric oxide
							Putative glucose/myo-inositol transporter of major facilitator superfamily;
							12 transmembrane segments, extended N-terminus; expressed in rich
							medium, 2% glucose; phagocytosis-induced; C. albicans glucose
Transporter	HGT19	8683	5447	1.54	2.10	1.36	transporter family has 20 members
tRNA formation	YHR020W	6810	6701	1.64	2.47	1.51	Predicted ORF in Assemblies 19 and 20
Ubiquitination	APC11	8992	7644	1.99	2.83	1.42	Predicted ORF in Assemblies 19 and 20
Ubiquitination	TOM1	3950	911	1.38	4.63	3.35	Predicted ORF from Assembly 19; merged with orf19.5776 in Assembly 20
							Transcriptionally regulated by iron; expression greater in high iron; similar
							to GPI-linked cell wall proteins; slight similarity to mucins; removed from
Unknown	Orf6.162	162	8979	1.68	2.67	1.60	Assembly 20
							Predicted ORF in Assemblies 19 and 20; induced in core caspofungin
							response; increased expression observed in an ssr1 homozygous null
Unknown	Orf6.1914	1914	3932	1 95	2 33	1 19	mutant; induced by nitric oxide in yhb1 mutant
Officiowii	0110.1014	1017	0002	1.00	2.00	10	Predicted ORF in Assemblies 19 and 20; similar to <i>S. pombe</i> Nrd1p;
							transcription is induced upon induction of hypha growth; regulated by
							Cph1p, Efg1p, Cph2p; low-level expression; alkaline upregulated; fungal-
Unknown	YPL184C	2205	5541	1.02	2 10	205	specific (no human or murine homolog)
OTKTOWIT	TPL164C	2205	3341	1.02	2.10	2.05	Predicted ORF in Assemblies 19 and 20; shows colony morphology-related
Llakaassa	0-40 2242	3342	2225	1.39	200	1,00	
Unknown	Orf6.3342	3569	3335 2272	1.39	2.08		gene regulation by Ssn6p; repressed by nitric oxide Predicted ORF in Assemblies 19 and 20
Unknown	Orf6.3569						
Unknown	YFL043C	3702	90	1.22	2.22		Predicted ORF in Assemblies 19 and 20
Unknown	PRM5	3707	95	1.66	2.30	1.39	Predicted ORF in Assemblies 19 and 20
							Predicted ORF in Assemblies 19 and 20; fluconazole-induced; filament
Unknown	XJP5	4148	1691	1.29	15.40	11.96	induced; Hog1p-induced; regulated by Nrg1p, Tup1p
				l		l	Putative transmembrane protein with hydrophobic N- and C- termini and a
							Ser-Gly rich region; transcription is decreased upon yeast-hypha switch;
Unknown	RHD1	4552	54				expression is regulated upon white-opaque switching
Unknown	FMP42	6763	1179	1.15	2.64	2.29	Predicted ORF in Assemblies 19 and 20
							Transcriptionally regulated by iron; expression greater in high iron;
Unknown	Orf9.819	819	1179	1.38	2.13	1.55	possibly subject to Kex2p processing