

Supplemental Table S4: Characterization and classification of hypothetical and unclassified proteins in the proteome *C. neoformans* under regulation of Pka1.

Accession number	Target P ^a	TMH MM ^b	Signal P ^c	GPI-SOM ^d	ProtFun ^e	Homologues ^f
CNAG_00012	O	0	No	No	Central intermediary metabolism/Enzyme/-/-	NAD-binding protein
CNAG_00275*	M	0	No	No	Amino acid biosynthesis/Enzyme/Lyase/Growth factor	NAD-binding protein
CNAG_00286	O	0	No	No	Translation/Non-enzyme/-/Transcription regulation	NAD-binding protein
CNAG_00409	M	0	No	No	Amino acid biosynthesis/Enzyme/Lyase/Immune response	Methyltransferase type 11
CNAG_00465	O	0	No	No	Regulation and transcription/Non-enzyme/-/Transcription regulation	RNA methylase
CNAG_00520	O	0	No	No	Regulation and transcription/Enzyme/-/Transcription regulation	Translation initiation factor IF-2
CNAG_00577	O	0	No	No	Regulatory functions/Non-enzyme/-/Transcription	Mago-bind domain-containing protein
CNAG_00626	M	0	No	No	Translation/Non-enzyme/-/Growth factor	Uncharacterized protein
CNAG_00858	O	0	No	No	Central intermediary metabolism/Enzyme/Isomerase/-	RNA-binding protein
CNAG_00995	S	0	Yes (20/21)	No	Transport and binding/Enzyme/-/Growth factor	Meiotic recombination-related protein
CNAG_01052	M	0	No	No	Translation/Enzyme/-/Voltage-gated ion channel	Uncharacterized protein
CNAG_01089	M	0	No	No	Central intermediary metabolism/Non-enzyme/-/Structural protein	Mitochondrial zinc maintenance protein 1
CNAG_01222	M	0	No	No	Purines and pyrimidines/Enzyme/Ligase/Growth factor	Replication factor C subunit 2
CNAG_01317	O	0	No	No	Translation/Non-enzyme/-/Growth factor	Centromere-binding protein 1

Accession number	Target P ^a	TMH MM ^b	Signal P ^c	GPI-SOM ^d	ProtFun ^e	Homologues ^f
CNAG_01375	O	0	No	No	Regulatory functions/Enzyme/-/Transcription	Related to Drebrin F
CNAG_01446	O	0	No	No	Translation/Non-enzyme/-/Transcription	HSP12
CNAG_01644	O	0	No	No	Regulation and transcription/Non-enzyme/-/Transcription regulation	HAT family dimerization protein
CNAG_01743	O	0	No	No	Translation/Non-enzyme/-/Transcription regulation	Proteophosphoglycan ppg4
CNAG_01811	O	0	No	No	Translation/Non-enzyme/-/Growth factor	DUF1014-domain-containing protein
CNAG_01892	O	0	No	No	Energy metabolism/Enzyme/-/Growth factor	Uncharacterized protein
CNAG_02118	O	0	No	No	Replication and transcription/Enzyme/-/Transcription regulation	Uncharacterized protein
CNAG_02129	O	0	No	No	Translation/Enzyme/Ligase/-	DUF4449 family protein
CNAG_02145	M	0	No	No	Amino acid biosynthesis/Enzyme/-/Growth factor	50S ribosomal protein L28
CNAG_02263*	O	0	No	No	Energy metabolism/Enzyme/Isomerase/-	Glutathione S-transferase
CNAG_02335*	O	0	No	No	Translation/Enzyme/-/-	Genomic scaffold, msy-sf-12 protein
CNAG_02400	O	0	No	No	Replication and transcription/Enzyme/-/-	Proteasomal ubiquitin receptor adrm1-like
CNAG_02842	M	0	No	No	Translation/Enzyme/Lyase/Growth factor	50S ribosomal subunit L30
CNAG_02843*	O	0	No	No	Central intermediary metabolism/Non-enzyme/-/Growth factor	Protein vip1
CNAG_02994	U	0	No	No	Purines and pyrimidines/Enzyme/-/Transcription regulation	Carbohydrate-binding module family 48 protein
CNAG_03007	O	0	No	No	Translation/Enzyme/-/-	CipC protein
CNAG_03038	O	0	No	No	Translation/Enzyme/Lyase/Growth factor	and domain-containing protein
CNAG_03058	O	0	No	No	Regulation and transcription/Non-enzyme/-/Transcription regulation	Hmp1 protein
CNAG_03143*	O	0	No	No	Translation/Non-enzyme/-/Hormone	12kDa heat shock protein

Accession number	Target P ^a	TMH MM ^b	Signal P ^c	GPI-SOM ^d	ProtFun ^e	Homologues ^f
						(Glucose and lipid-regulation protein)
CNAG_03566*	O	1	No	No	Translation/Non-enzyme/-/Transcription regulation	Phosphatidylserine decarboxylase proenzyme
CNAG_03677	O	0	No	No	Amino acid biosynthesis/Enzyme/-/-	TRAPP domain protein
CNAG_03688	O	0	No	No	Translation/Non-enzyme/-/Transcription regulation	Uncharacterized protein
CNAG_03705	O	0	No	No	Regulatory functions/Non-enzyme/-/Growth factor	Uncharacterized protein
CNAG_03841	O	0	No	No	Replication and transcription/Non-enzyme/-/-	Dsp1-1-like protein
CNAG_03864	O	0	No	No	Regulatory functions/Enzyme/-/Growth factor	Protein tyrosine kinase
CNAG_03873	O	0	No	No	Fatty acid metabolism/Enzyme/-/-	Similar to MKL/myocardin-like protein 1
CNAG_03961	M	0	No	No	Energy metabolism/Enzyme/-/Growth factor	Bcs1p-like protein
CNAG_04163*	O	0	No	No	Transport and binding/Non-enzyme/-/-	CsbD domain-containing protein
CNAG_04203	O	0	No	No	Purines and pyrimidines/Enzyme/Lyase/Growth factor	Uncharacterized protein
CNAG_04212	O	0	No	No	Cell envelope/Non-enzyme/-/Transcription	DUG1690 domain protein
CNAG_04284	O	0	No	No	Regulation and transcription/Non-enzyme/-/Growth factor	Tudor/PWWP/MBT
CNAG_04475*	O	0	No	No	Translation/Non-enzyme/-/Growth factor	Phosphoglycerate mutase-like protein
CNAG_04680	M	0	No	No	Biosynthesis of cofactors/Enzyme/lyase/-	Uncharacterized protein
CNAG_04954	O	0	No	No	Purines and pyrimidines/Enzyme/Ligase/Transcription	WD40 repeat-containing nuclear protein
CNAG_04962	O	0	No	No	Cell envelope/Non-enzyme/-/Structural	Chromosome segregation

Accession number	Target P ^a	TMH MM ^b	Signal P ^c	GPI-SOM ^d	ProtFun ^e	Homologues ^f
					protein	ATPase-like protein
CNAG_05001	O	0	No	No	Energy metabolism/Enzyme/-/Growth factor	Thioredoxin-like protein
CNAG_05131	M	0	No	No	Energy metabolism/Enzyme/-/Growth factor	Ixr1p
CNAG_05312	O	0	No	No	Transport and binding/Enzyme/-/Immune response	Carbohydrate-binding module family 13 protein
CNAG_05570	O	0	No	No	Central intermediary metabolism/Enzyme/-/-	Ubiquitin C variant
CNAG_06109	O	0	No	No	Energy metabolism/Enzyme/-/Growth factor	Uncharacterized protein
CNAG_06113	O	0	No	No	Translation/Non-enzyme/-/Growth factor	Hyaluronan/mRNA-binding protein
CNAG_06328	O	0	No	No	Translation/Enzyme/Isomerase/Growth factor	Ycii-related domain protein
CNAG_06475*	O	0	No	No	Replication and transcription/Enzyme/-/Growth factor	Rnapii degradation factor def1
CNAG_06577	M	0	No	No	Translation/Enzyme/-/-	Allergen
CNAG_06765	O	0	No	No	Replication and transcription/Enzyme/-/Transcription regulation	Transcriptional repressor LEUNIG (or GG17798)
CNAG_07322	O	0	No	No	Regulatory functions/Non-enzyme/-/Transcription regulation	RanBP1 domain containing protein
CNAG_07382*	M	0	No	No	Central intermediary metabolism/Enzyme/Lyase/-	Mitochondrial ribosomal small subunit protein Mrp51
CNAG_07547	M	0	No	No	Regulatory functions/Enzyme/-/Growth factor	Histidine phosphatase family containing protein
CNAG_07665	O	0	No	No	Replication and transcription/Enzyme/-/Transcription regulation	Uncharacterized protein
CNAG_07740	O	0	No	No	Central intermediary metabolism/Enzyme/Lyase/-	2,3-diketo-5-methylthio-1-phosphopentane phosphatase

^aTargetP (cut off > 0.9) predicts subcellular location, M: mitochondrion, O: other, U: unknown (value below cut-off).

^bTMHMM predicts transmembrane helices.

^cSignalP predicts N-terminal signal peptide.

^dGPI-SOM predicts GPI-anchor proteins.

^eProtFun predicts protein function and enzymology.

^fHMMER predicts homologues.

*Significant proteins after multiple hypothesis testing (FDR < 0.05).

Note: Table S1 provides that abundance values for the proteins upon modulation of PKA expression.