

Table S5: List of *C. neoformans* differentially expressed genes assigned to oxidation-reduction functional category that exhibited persistent induction or repression for a minimum of three time points during H₂O₂ induced oxidative stress.

GENE ID	ANNOTATION	NAME	Time after H ₂ O ₂ addition (min)				
			5	10	15	30	45
CNAG-01846	Pyridine nucleotide-disulphide oxidoreductase						
CNAG-00462	Flavoprotein-ubiquinone oxidoreductase	<i>CIR2</i>					
CNAG-02266	NADH ubiquinone oxidoreductase						
CNAG-04325	Aromatic ring-opening dioxygenase						
CNAG-02580	No Information						
CNAG-02722	Aldo/keto reductase family						
CNAG-04351	Aldehyde dehydrogenase family	<i>ALD52</i>					
CNAG-00984	short chain dehydrogenase	<i>FOX22</i>					
CNAG-03674	Dehydrogenase E1 component	<i>KGD1</i>					
CNAG-03589	2Fe-2S iron-sulfur cluster binding domain	<i>YAH1</i>					
CNAG-06169	Alcohol dehydrogenase GroES-like domain	<i>BDH1</i>					
CNAG-02933	Zinc-binding dehydrogenase	<i>ZTA1</i>					
CNAG-05842	Cytochrome P450	<i>ERG110</i>					
CNAG-00575	Catalase (CAT3) no in Bahns data	<i>CTA12</i>					
CNAG-02868	Indoleamine 2,3-dioxygenase	<i>BNA2</i>					
CNAG-01542	No Information	<i>O</i>					
CNAG-06638	Malic enzyme, NAD binding domain	<i>MAE1</i>					
CNAG-06383	Cytochrome b5-like Heme/Steroid binding	<i>CYB25</i>					
CNAG-04553	short chain dehydrogenase						
CNAG-03517	Pyridine nucleotide-disulphide oxidoreductase	<i>NDE2</i>					
CNAG-03874	Pyridine nucleotide-disulphide oxidoreductase	<i>AIF12</i>					
CNAG-02577	Fatty acid hydroxylase	<i>SCS7</i>					
CNAG-02815	FAD dependent oxidoreductase	<i>GUT2</i>					
CNAG-03834	Sterol desaturase	<i>SUR2</i>					
CNAG-04687	Fatty acid desaturase	<i>OLE1</i>					
CNAG-00654	No Information	<i>SRX1</i>					
CNAG-05090	Zinc-binding dehydrogenase	<i>ZTA13</i>					
CNAG-03238	No Information	<i>O</i>					
CNAG-03389	Taurine catabolism dioxygenase TauD	<i>JLP1</i>					
CNAG-00993	Ubiquinone biosynthesis protein COQ7	<i>CAT5</i>					
CNAG-05440	Pyridoxamine 5'-phosphate oxidase	<i>PDX3</i>					
CNAG-03266	lactate/malate dehydrogenase	<i>MDH1</i>					
CNAG-01914	No Information mitochondrial protein	<i>YLR290</i>					
CNAG-02830	Ergosterol biosynthesis	<i>ERG4</i>					
CNAG-06917	AhpC/TSA family	<i>TSA3</i>					
CNAG-00879	Glut/Leu/Phe/Val dehydrogenase	<i>GDH2</i>					
CNAG-04488	short chain dehydrogenase	<i>IFA38</i>					
CNAG-07749	short chain dehydrogenase 2.3xe-16	<i>TSC10</i>					
CNAG-01120	2-oxoacid dehydrogenases acyltransferase	<i>LAT1</i>					
CNAG-04969	UDP-glucose/GDP-mannose dehydrogenase	<i>UDG1</i>					
CNAG-06012	Oxidoreductase FAD-binding domain	<i>CBR1</i>					
CNAG-06764	short chain dehydrogenase	<i>FOX21</i>					
CNAG-05059	Transketolase, pyridine binding domain	<i>PDB1</i>					
CNAG-00012	Oxidoreductase family, NAD-binding						
CNAG-07660	Dehydrogenase E1 component	<i>PDA1</i>					
CNAG-03322	NAD dependent epimerase/dehydratase family	<i>GAL1</i>					

CNAG-04605	3-beta hydroxysteroid dehydrogenase/family	<i>ERG26</i>		red	red	white	red	yellow
CNAG-02590	NAD bind 6-phosphogluconate dehydrogenase	<i>O</i>			red	red	red	white
CNAG-04652	Zinc-binding dehydrogenase				red	red	red	white
CNAG-02099	Acyl transferase domain	<i>FAS1</i>		red	red	white	red	yellow
CNAG-02208	Ribonucleotide reductase, barrel domain	<i>RNR1</i>			red	red	red	white

 down-regulation

 up-regulation

 Potential homologs in *S. cerevisiae* predicted to be located to mitochondria.

Each gene has been named after identification of its potential ortholog in *S. cerevisiae* genome. Mitochondrial location of *S. cerevisiae* gene has been obtained from individual gene annotation page at *S. cerevisiae* genome database.