

Supplementary materials

Fluconazole resistance in *Candida albicans* is induced by *Pseudomonas aeruginosa* quorum sensing

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Supplementary materials

Supplementary Figure S1: Minimum inhibitory concentrations (MIC50 and MIC80) of fluconazole against *C. albicans* in the presence of various concentrations of C12AHL (0 – 100 µg mL⁻¹).

Supplementary Table S2: Minimum inhibitory concentrations (MIC50 and MIC80) of fluconazole, C12AHL or Fluconazole+C12AHL against *C. albicans*.

Supplementary Table S3: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with fluconazole compared to untreated controls. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted p-value < 1e⁻⁵).

Supplementary Table S4: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with C12AHL compared to untreated controls. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted p-value < 1e⁻⁵).

Supplementary Table S5: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with C12AHL+fluconazole compared to untreated controls. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted p-value < 1e⁻⁵).

Supplementary Table S6: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with C12AHL compared to fluconazole only treated samples. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted p-value < 1e⁻⁵).

Supplementary Table S7: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with C12AHL+fluconazole compared to fluconazole treated samples. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted p-value < 1e⁻⁵).

Supplementary Figure S8: Principle component analysis of *C. albicans* gene expression. The gene expression profiles for the control, C12AHL, C12AHL+fluconazole, and fluconazole only treatments were statistically compared using a principle component analysis to identify variability in gene expression between treatments. Each colour represents a different treatment as indicated in the right-side panel, and each circle represents the gene expression for one of the replicates per treatment.

Supplementary Figure S9: Comparisons among significantly downregulated genes in *C. albicans* exposed to fluconazole, C12AHL or C12AHL+fluconazole. Genes that are highlighted in red are known

to be associated with antifungal resistance (adjusted p-value < 1e⁻⁵). Genes that were significantly downregulated between treatments are shown in Supplementary Tables 2-6.

Supplementary Figure S10: Comparisons among significantly upregulated genes in *C. albicans* exposed to fluconazole, C12AHL or C12AHL+fluconazole. Genes that are highlighted in red are known to be associated with antifungal resistance (adjusted p-value < 1e⁻⁵). Genes that were significantly upregulated between treatments are shown in Supplementary Tables 2-6.

Supplementary Table S11: Protein expression data; Under-expressed proteins in C12AHL+fluconazole treated *C. albicans* samples compared to fluconazole only treated samples.

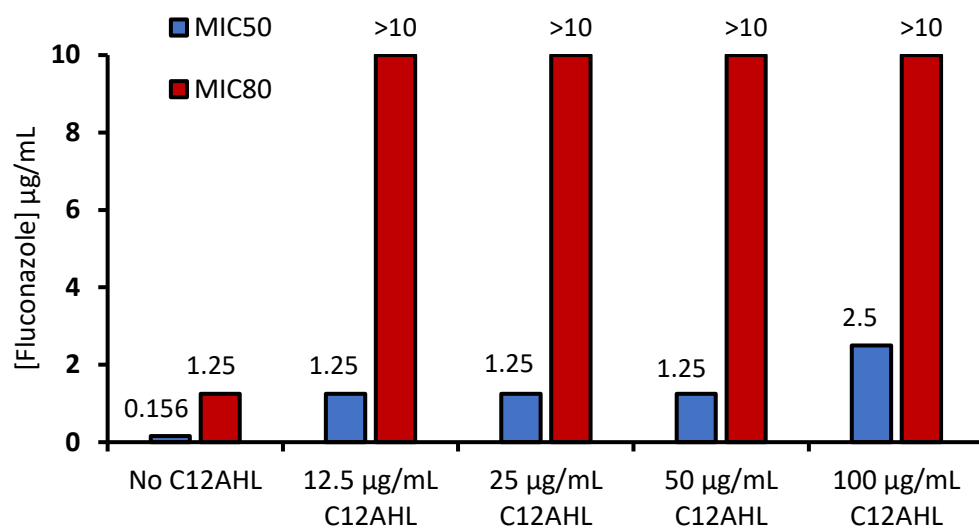
Supplementary Table S12: Protein expression data: Over-expressed proteins when treated with C12AHL+fluconazole + *C. albicans* compared to fluconazole only treated samples.

Supplementary Figure S13: Differential expression of *CDR1*, *CDR2* and *MDR1* to C12AHL, fluconazole or their combination. Real-time quantitative PCR assay data. Note the significant upregulation of *C. albicans CDR1* and *CDR2* when exposed to C12AHL+fluconazole and *CDR2* when exposed to C12AHL compared to solvent controls (P<0.05).

Supplementary Figure S14: *C. albicans* ergosterol synthesis pathway. Significantly upregulated genes when exposed to fluconazole compared to C12AHL+fluconazole treated *C. albicans* appear in bold.

Supplementary Table S15: *Candida albicans* strains used in this study

Supplementary Table S16: The primers used for the Real-time quantitative PCR in this study



Supplementary Figure S1: Minimum inhibitory concentrations (MIC50 and MIC80) of fluconazole against *C. albicans* in the presence of various concentrations of C12AHL (0 – 100 µg mL⁻¹).

Percentage inhibition of <i>C. albicans</i>	Fluconazole only $\mu\text{g/ml}$ (μM)	Fluconazole with 100 $\mu\text{g/ml}$ (336 μM) C12AHL	Fluconazole with 50 $\mu\text{g/ml}$ (168 μM) C12AHL	Fluconazole with 25 $\mu\text{g/ml}$ (84 μM) C12AHL	Fluconazole with 12.5 $\mu\text{g/ml}$ (42 μM) C12AHL
50	0.156 (0.5 μM)	2.5 (8.2 μM)	1.25 (4.1 μM)	1.25 (4.1 μM)	1.25 (4.1 μM)
80	1.25 (4.1 μM)	>10 (>32.6 μM)	>10 (>32.6 μM)	>10 (>32.6 μM)	>10 (>32.6 μM)

Supplementary Table S2: Minimum inhibitory concentrations (MIC50 and MIC80) of fluconazole, C12AHL or Fluconazole+C12AHL against *C. albicans*.

Name	Annotation	log2 Fold Change	Adjusted P value
<i>C3_01540W_A</i>	Plasma-membrane-localized protein	5.43	8.21E-29
<i>PGA13</i>	GPI-anchored cell wall protein	4.43	3.04E-25
<i>C2_10160W_A</i>	Secreted protein	4.17	4.98E-25
<i>MRV8</i>	Protein of unknown function	4.16	1.95E-13
<i>PGA23</i>	Putative GPI-anchored protein of unknown function	3.99	4.69E-18
<i>PGA45</i>	Putative GPI-anchored cell wall protein	3.92	9.61E-12
<i>C3_06660C_A</i>	Protein of unknown function	3.77	1.96E-08
<i>C7_03310W_A</i>	Protein of unknown function	3.53	6.54E-10
<i>C2_02910W_A</i>	Protein of unknown function	3.44	4.87E-15
<i>MNN4-4</i>	Mannosyltransferase	3.37	2.70E-18
<i>CSH1</i>	Aldo-keto reductase	3.36	5.11E-23
<i>C3_03460C_A</i>	Protein of unknown function	3.35	5.16E-23
<i>ERG6</i>	Delta(24)-sterol C-methyltransferase	3.34	8.85E-21
<i>C6_03260W_A</i>	Putative ribonuclease H1	3.26	2.77E-23
<i>DDR48</i>	Immunogenic stress-associated protein	3.22	1.60E-10
<i>IPK2</i>	Putative inositol polyphosphate multikinase	3.21	3.69E-34
<i>RBT4</i>	Pry family protein	3.15	1.13E-11
<i>RBR1</i>	Glycosylphosphatidylinositol (GPI)-anchored cell wall protein	2.97	1.62E-08
<i>C1_11260C_A</i>	Putative adhesin-like protein	2.92	3.67E-17
<i>DAG7</i>	Secretory protein	2.88	6.51E-08
<i>ERG4</i>	Protein similar to sterol C-24 reductase	2.85	1.00E-09
<i>UPC2</i>	Zn2-Cys6 transcript factor	2.79	1.21E-48
<i>C1_01510W_A</i>	Protein of unknown function	2.78	1.81E-16
<i>CR_00290W_A</i>	Ortholog of <i>S. cerevisiae</i> Rts3	2.72	1.55E-30
<i>C1_04590W_A</i>	Protein of unknown function	2.68	1.21E-14
<i>C1_04010C_A</i>	Protein with a NADP-dependent oxidoreductase domain	2.67	1.06E-19
<i>BMT7</i>	Beta-mannosyltransferase	2.62	6.52E-10
<i>PGA6</i>	GPI-anchored cell wall adhesin-like protein	2.56	1.03E-07
<i>C2_09810C_A</i>	Protein with predicted peptidase domains	2.54	4.41E-09
<i>ERG24</i>	C-14 sterol reductase	2.46	3.16E-17
<i>LPG20</i>	Aldo-keto reductase family protein	2.44	4.30E-13
<i>ECM331</i>	GPI-anchored protein	2.43	5.60E-08
<i>C6_00850W_A</i>	Putative glutathione peroxidase	2.42	8.67E-10
<i>GRE2</i>	Putative reductase	2.40	1.85E-09
<i>C2_07220W_A</i>	Putative 20S proteasome assembly protein	2.35	1.15E-13
<i>C1_13490C_A</i>	Ortholog(s) have role in cellular calcium ion homeostasis	2.35	6.45E-24
<i>GAL4</i>	Zn(II)2Cys6 transcription factor	2.33	2.61E-13
<i>GFA1</i>	Glucosamine-6-phosphate synthase	2.32	1.27E-13
<i>C1_11790W_A</i>	Ortholog(s) have thymidylate kinase activity	2.31	2.34E-15
<i>C1_09130W_A</i>	Protein of unknown function; Spider biofilm induced	2.31	1.20E-13
<i>CRH11</i>	GPI-anchored cell wall transglycosylase	2.30	7.62E-08
<i>TPM2</i>	Putative tropomyosin isoform 2	2.30	1.53E-12
<i>TUB1</i>	Alpha-tubulin	2.29	1.78E-24
<i>CHO1</i>	Putative phosphatidylserine synthase	2.29	1.89E-10
<i>CR_09040W_A</i>	Protein of unknown function	2.19	5.77E-08
<i>CR_04120C_A</i>	Ortholog(s) have DNA-dependent ATPase activity	2.17	2.97E-12
<i>C4_00860C_A</i>	Protein of unknown function	2.15	4.41E-09

<i>AHP1</i>	Alkyl hydroperoxide reductase	2.15	8.33E-06
<i>YKE2</i>	Possible heterohexameric Gim/prefoldin protein complex subunit	2.14	5.22E-11
<i>ERG1</i>	Squalene epoxidase	2.13	1.33E-19
<i>ERG10</i>	Acetyl-CoA acetyltransferase	2.11	2.55E-08
<i>C3_04740C_A</i>	Ortholog(s) have DNA topoisomerase type I activity	2.11	5.34E-10
<i>MLC1</i>	Microtubule-dependent localized protein	2.09	4.07E-15
<i>WOR4</i>	Predicted C2H2 zinc finger protein	2.09	7.17E-12
<i>ADH5</i>	Putative alcohol dehydrogenase	2.09	4.57E-08
<i>ERG3</i>	C-5 sterol desaturase	2.07	1.24E-06
<i>LAP41</i>	Putative aminopeptidase yscl precursor	2.06	9.49E-09
<i>RNR1</i>	Ribonucleotide reductase large subunit	2.06	3.05E-13
<i>ERG5</i>	Putative C-22 sterol desaturase	2.05	1.93E-08
<i>ERG26</i>	C-3 sterol dehydrogenase	2.02	1.49E-11
<i>INN1</i>	Protein with similarity to <i>S. cerevisiae</i> Inn1p	2.02	2.40E-29
<i>CRL1</i>	Predicted GTPase of RHO family	2.00	6.85E-21
<i>C5_03490C_A</i>	Stationary phase enriched protein	1.99	1.06E-19
<i>WOR2</i>	Zn(II)2Cys6 transcription factor	1.99	8.15E-06
<i>C6_04420W_A</i>	Protein of unknown function	1.97	2.54E-06
<i>C5_02850W_A</i>	H/ACA box small nucleolar RNA (snoRNA)	1.96	5.29E-08
<i>NIP100</i>	p150 subunit of dynactin	1.95	4.09E-09
<i>C1_09980C_A</i>	Ortholog(s) have acylglycerol lipase activity, serine hydrolase activity	1.94	2.07E-06
<i>CHS2</i>	Chitin synthase	1.93	2.44E-25
<i>ERG27</i>	3-Keto sterol reductase	1.92	4.41E-09
<i>FAV2</i>	Adhesin-like protein	1.92	3.71E-06
<i>C3_06860C_A</i>	Putative xylose and arabinose reductase	1.90	4.78E-06
<i>CR_09070C_A</i>	Protein of unknown function	1.90	1.33E-10
<i>CR_04870C_A</i>	Trimethylaminobutyraldehyde dehydrogenase	1.89	1.27E-06
<i>CR_04770C_A</i>	Protein of unknown function	1.88	2.80E-11
<i>CYB5</i>	Cytochrome b(5)	1.88	1.42E-08
<i>RRNL</i>	Mitochondrial ribosomal RNA of the large ribosomal subunit	1.88	1.82E-06
<i>C1_11720W_A</i>	Ortholog of <i>Candida albicans</i> WO-1 : CAWG_00265	1.87	9.94E-06
<i>NRG1</i>	Transcription factor/repressor	1.86	1.93E-12
<i>C1_11730W_A</i>	Protein with SEL-1 like protein domain	1.86	5.87E-14
<i>BMT3</i>	Beta-mannosyltransferase	1.85	2.55E-13
<i>C1_04470C_A</i>	Protein of unknown function	1.84	5.84E-09
<i>C3_03370C_A</i>	Protein of unknown function	1.84	8.63E-12
<i>SET3</i>	NAD-dependent histone deacetylase	1.83	5.25E-17
<i>C3_02870C_A</i>	Protein of unknown function	1.82	3.69E-07
<i>PHR2</i>	Glycosidase	1.81	4.38E-12
<i>ERG11</i>	Lanosterol 14-alpha-demethylase	1.81	6.90E-06
<i>REV3</i>	Ortholog(s) have DNA-directed DNA polymerase activity	1.80	1.81E-11
<i>C7_04060W_A</i>	Protein of unknown function	1.79	2.80E-11
<i>C1_04580C_A</i>	Ortholog of Rmd6 involved in <i>S. cerevisiae</i> sporulation	1.79	9.66E-11
<i>CEK1</i>	ERK-family protein kinase	1.77	3.10E-10
<i>ECM33</i>	GPI-anchored cell wall protein	1.76	2.78E-10
<i>IFD6</i>	Aldo-keto reductase	1.75	6.62E-08
<i>SVF1</i>	Putative survival factor; stationary phase enriched protein	1.75	2.90E-14
<i>BTS1</i>	Putative geranylgeranyl diphosphate synthase	1.74	2.40E-15
<i>SSO2</i>	Plasma membrane t-SNARE	1.73	5.11E-23

<i>DAP1</i>	Similar to mammalian membrane-associated progesterone receptors	1.72	1.48E-14
<i>GTT11</i>	Glutathione S-transferase	1.72	6.33E-12
<i>CR_02880W_A</i>	Protein of unknown function	1.70	1.59E-08
<i>STE13</i>	Putative pheromone-processing dipeptidyl aminopeptidase	1.70	1.51E-12
<i>ERG2</i>	C-8 sterol isomerase	1.69	1.27E-07
<i>C1_02440C_A</i>	Ortholog(s) have thiol-dependent ubiquitin-specific protease activity	1.68	1.34E-11
<i>PDI1</i>	Putative protein disulfide-isomerase	1.68	8.24E-09
<i>CHS8</i>	Chitin synthase	1.66	3.45E-09
<i>C1_04230W_A</i>	Ortholog(s) have ubiquitin binding activity	1.65	2.57E-14
<i>SLD1</i>	Sphingolipid delta-8 desaturase	1.64	5.21E-10
<i>YVC1</i>	Putative vacuolar cation channel shock	1.64	6.64E-09
<i>MSC7</i>	role in reciprocal meiotic recombination	1.63	1.10E-28
<i>SRR1</i>	Two-component system response regulator	1.62	1.27E-06
<i>SRB1</i>	Essential GDP-mannose pyrophosphorylase	1.61	3.65E-07
<i>PSD2</i>	Ortholog(s) have phosphatidylserine decarboxylase activity	1.61	3.64E-15
<i>C2_08620W_A</i>	Protein of unknown function	1.57	3.03E-08
<i>C1_13500C_A</i>	H/ACA box small nucleolar RNA (snoRNA)	1.56	2.09E-06
<i>CR_09330C_A</i>	Protein with a Staphylococcal nuclease domain	1.53	1.77E-07
<i>AHR1</i>	Zn(II)2Cys6 transcription factor	1.53	7.61E-08
<i>CDC12</i>	Septin	1.52	1.53E-08
<i>FAS2</i>	Alpha subunit of fatty-acid synthase	1.52	4.39E-06
<i>C6_04410C_A</i>	Predicted alcohol dehydrogenase	1.52	2.67E-06
<i>CDC3</i>	Septin	1.50	1.20E-11
<i>C5_04350C_A</i>	Ortholog(s) have cell division site	1.50	2.35E-11
<i>C4_06990W_A</i>	Possible mannosyltransferase	1.49	2.25E-12
<i>GCY1</i>	Aldo/keto reductase	1.48	2.48E-06
<i>C2_09480W_A</i>	Ortholog(s) have DNA-directed DNA polymerase activity	1.47	8.79E-10
<i>RAD50</i>	Putative DNA double-strand break repair factor	1.46	3.48E-09
<i>C1_11120C_A</i>	Protein similar to <i>S. cerevisiae</i> Gvp36p	1.43	1.20E-13
<i>FBP1</i>	Fructose-1,6-bisphosphatase	1.43	6.89E-07
<i>PDS5</i>	Putative protein with a predicted role in establishment and maintenance of sister chromatid condensation and cohesion	1.42	5.46E-07
<i>BFR1</i>	Protein involved in the maintenance of normal ploidy	1.42	1.08E-07
<i>CR_02300C_A</i>	Protein with a Vps9 vacuolar protein sorting protein domain	1.41	4.76E-12
<i>PMM1</i>	Phosphomannomutase	1.41	3.08E-07
<i>MPT5</i>	Putative RNA-binding protein	1.38	3.14E-12
<i>C5_02520W_A</i>	Protein of unknown function	1.38	1.23E-06
<i>C2_05720C_A</i>	Putative oxysterol binding protein family	1.37	2.34E-15
<i>C6_02490C_A</i>	Protein of unknown function	1.37	8.34E-07
<i>SFH5</i>	Putative phosphatidylinositol transporter	1.36	1.93E-07
<i>LEU4</i>	Putative 2-isopropylmalate synthase	1.35	9.85E-06
<i>C1_11250W_A</i>	Microtubule-binding protein of the cortical microtubule	1.35	2.37E-08
<i>CDC13</i>	Essential protein with similarity to <i>S. cerevisiae</i> Cdc13p	1.35	3.69E-07
<i>MYO1</i>	Component of actomyosin ring at neck of newly-emerged bud	1.34	3.05E-13
<i>PRE10</i>	Alpha7 (C8) subunit of the 20S proteasome	1.34	2.15E-11
<i>C4_05810W_A</i>	Ortholog of <i>S. cerevisiae</i> : CAJ1	1.34	9.29E-06
<i>C2_01750C_A</i>	Protein with a life-span regulatory factor domain	1.33	8.99E-07
<i>KTR4</i>	Mannosyltransferase	1.31	1.31E-07
<i>CHS5</i>	Putative chitin biosynthesis protein	1.30	1.28E-06

<i>RGS2</i>	Protein of RGS superfamily	1.29	1.10E-07
<i>SCT2</i>	Putative glycerol-3-phosphate acyltransferase	1.28	5.27E-07
<i>VPS1</i>	Dynamain-family GTPase-related protein	1.28	1.76E-09
<i>CR_08430W_A</i>	Protein similar to <i>S. cerevisiae</i> Vac14p	1.27	3.94E-13
<i>GIG1</i>	Protein induced by N-acetylglucosamine (GlcNAc)	1.27	7.65E-07
<i>C7_04210C_A</i>	Protein similar to <i>Aspergillus</i> CYSK O-acetylserine sulfhydrylase	1.27	2.95E-08
<i>C1_07260C_A</i>	Ortholog(s) have DNA replication origin binding, single-stranded DNA binding activity	1.26	1.83E-16
<i>C5_00750C_A</i>	Predicted protein tyrosine phosphatase	1.26	4.25E-10
<i>BCR1</i>	Transcription factor	1.26	3.25E-07
<i>RDH54</i>	Putative DNA-dependent ATPase with a predicted role in DNA recombination and repair	1.25	4.83E-08
<i>IML2</i>	Protein of unknown function	1.25	4.59E-08
<i>SEN1</i>	Putative helicase	1.25	1.62E-08
<i>C6_00890W_A</i>	Ortholog(s) have cytoplasm localization	1.25	4.03E-08
<i>C5_01090C_A</i>	Planktonic growth-induced gene	1.24	7.45E-07
<i>USO6</i>	Putative vesicular transport protein	1.24	2.74E-09
<i>SCL1</i>	Proteasome subunit YC7alpha	1.23	2.36E-06
<i>C4_06740C_A</i>	Ortholog(s) have protein binding, bridging activity	1.21	1.53E-08
<i>NPT1</i>	Putative nicotinate phosphoribosyltransferase	1.19	3.00E-10
<i>C5_02050W_A</i>	Ortholog(s) have role in Golgi to endosome transport,	1.18	5.03E-10
<i>RAD7</i>	Protein similar to <i>S. cerevisiae</i> Rad7p	1.18	3.49E-09
<i>C1_01300W_A</i>	Putative thioredoxin	1.17	2.98E-09
<i>C3_07770C_A</i>	Ortholog(s) have microtubule binding, protein homodimerization activity	1.17	3.48E-08
<i>C4_04750W_A</i>	Ortholog(s) have role in negative regulation of gluconeogenesis	1.16	1.38E-09
<i>NCP1</i>	NADPH-cytochrome P450 reductase	1.15	1.09E-07
<i>CCH1</i>	Voltage-gated Ca ²⁺ channel of the high affinity calcium uptake system	1.15	1.86E-11
<i>C4_01220C_A</i>	Protein with a glycoside hydrolase domain	1.14	1.05E-06
<i>RTA2</i>	Flippase	1.14	5.45E-10
<i>C1_10730W_A</i>	Putative protein of unknown function	1.14	5.13E-06
<i>BET2</i>	Putative Type II geranylgeranyltransferase beta subunit	1.13	2.11E-07
<i>C2_02020W_A</i>	Ortholog(s) have Lys48-specific deubiquitinase activity	1.12	1.05E-06
<i>CR_04080C_A</i>	Endoplasmic reticulum (ER) protein-translocation complex subunit	1.11	7.29E-09
<i>C4_05800C_A</i>	Protein of unknown function	1.11	3.07E-06
<i>C3_03430C_A</i>	Ortholog(s) have role in ATP export	1.10	4.80E-08
<i>C2_00230W_A</i>	Ortholog(s) have arginyltransferase activity	1.09	2.34E-06
<i>DYN1</i>	Dynein heavy chain	1.07	3.48E-09
<i>CR_05890C_A</i>	Ortholog(s) have acetyltransferase activator activity, histone binding activity and role in double-strand break repair	1.07	5.11E-08
<i>C6_02810C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36: Cd36_63300	1.07	9.48E-06
<i>PMC1</i>	Vacuolar calcium P-type ATPase	1.06	1.76E-09
<i>PRE6</i>	Putative alpha-4 subunit of the proteasome	1.05	1.53E-06
<i>C4_01790W_A</i>	Adapter protein for pexophagy and the cytoplasm-to-vacuole targeting (Cvt) pathway	1.05	1.84E-08
<i>HEM2</i>	Putative porphobilinogen synthase	1.04	8.71E-07
<i>C1_02770W_A</i>	Protein of unknown function	1.03	6.84E-06
<i>C4_01670C_A</i>	Ortholog(s) have role in TOR signaling	1.03	5.67E-07
<i>ARO80</i>	Zn(II)2Cys6 transcription factor	1.02	5.14E-09
<i>SSN8</i>	Ortholog of <i>S. cerevisiae</i> Ssn8; a component of RNA polymerase II holoenzyme	1.01	5.40E-07

<i>RFA1</i>	Putative DNA replication factor A	0.99	4.01E-07
<i>VPS36</i>	ESCRT II protein sorting complex subunit	0.97	2.85E-06
<i>MKC1</i>	MAP kinase	0.97	6.90E-06
<i>PSD1</i>	Phosphatidylserine decarboxylase	0.97	8.67E-08
<i>C2_07010W_A</i>	Predicted ER protein involved in ER-nucleus signaling	0.94	2.67E-06
<i>UBP6</i>	Putative ubiquitin-specific protease of the 26S proteasome	0.93	9.04E-06
<i>C3_07230W_A</i>	Aminophospholipid translocase (flippase)	0.92	2.56E-09
<i>COQ6</i>	Ortholog(s) have oxidoreductase activity	0.92	1.46E-06
<i>AKL1</i>	Putative serine/threonine protein kinase	0.91	1.86E-07
<i>C4_06020C_A</i>	Ortholog(s) have DNA-directed DNA polymerase activity	0.90	1.33E-06
<i>C4_04090C_A</i>	Calnexin	0.88	1.49E-06
<i>C3_06710W_A</i>	Protein of unknown function	0.88	9.45E-07
<i>C1_03330C_A</i>	Ortholog(s) have phosphatidylinositol-3,5-bisphosphate binding activity a	0.88	1.81E-08
<i>APN1</i>	Ortholog of <i>S. cerevisiae</i> Apn1; an AP endonuclease	0.86	6.60E-10
<i>CR_10230W_A</i>	Ortholog(s) have histone acetyltransferase activity	0.85	3.82E-06
<i>ZNC1</i>	Zn(2)-Cys(6) transcription factor	0.81	3.14E-06
<i>C2_00570W_A</i>	Ortholog(s) have DNA translocase activit	-0.45	9.04E-06
<i>IML1</i>	Putative protein with a role in autophagy	-0.81	1.09E-06
<i>C1_11300C_A</i>	Ortholog(s) have RNA binding	-0.84	4.13E-09
<i>ZCF10</i>	Putative transcription factor with zinc cluster DNA-binding motif	-0.86	5.25E-07
<i>C3_03820C_A</i>	Ortholog(s) have role in protein insertion into mitochondrial membrane from inner side	-0.86	1.38E-09
<i>C6_01000C_A</i>	Ortholog(s) have translation regulator activity	-0.87	1.86E-07
<i>C4_04130W_A</i>	Ortholog(s) have role in mitochondrial respiratory chain complex IV assembly	-0.89	8.48E-06
<i>C4_03780C_A</i>	Putative mitochondrial membrane protein	-0.90	1.12E-06
<i>C1_13010W_A</i>	Ortholog(s) have mRNA binding, translation regulator activity	-0.90	4.42E-06
<i>C6_03530C_A</i>	Predicted ORF from Assembly 19	-0.91	2.49E-06
<i>C1_14200W_A</i>	Possible Golgi membrane protein	-0.97	7.96E-06
<i>CR_03120W_A</i>	Mitochondrial intermembrane space protein of unknown function	-1.02	5.08E-06
<i>TSC2</i>	Putative GTPase-activating protein	-1.02	9.65E-08
<i>C5_00820W_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.04	2.03E-06
<i>AVT1</i>	Putative vacuolar transporter	-1.05	1.35E-06
<i>C1_05210C_A</i>	Protein of unknown function	-1.08	2.60E-06
<i>C6_00390W_A</i>	Ortholog(s) have serine-tRNA ligase activity	-1.08	6.54E-10
<i>ARF1</i>	ADP-ribosylation factor	-1.08	1.47E-08
<i>C4_00820W_A</i>	Ortholog(s) have magnesium ion transmembrane transporter activity	-1.09	9.29E-06
<i>HIP1</i>	Amino acid permeases	-1.10	1.42E-07
<i>MRPS9</i>	Mitochondrial ribosomal protein S9	-1.11	9.71E-06
<i>C2_03560C_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.11	3.29E-06
<i>CR_01370C_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.13	1.25E-06
<i>C2_07190C_A</i>	Putative mitochondrial ribosomal protein	-1.14	2.29E-07
<i>MIF2</i>	Centromere-associated protein	-1.14	4.89E-12
<i>IFM1</i>	Putative mitochondrial translation initiation factor	-1.14	2.19E-07
<i>C7_01610W_A</i>	Ortholog(s) have role in mitochondrial respiratory chain complex IV assembly	-1.15	2.64E-06
<i>CR_07760W_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.17	3.73E-08
<i>C6_03730C_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.18	1.23E-06
<i>C7_01720W_A</i>	Flavin-linked sulfhydryl oxidase	-1.19	1.82E-12
<i>C5_03980W_A</i>	Protein of unknown function	-1.21	6.26E-07

<i>C5_04530W_A</i>	Putative mitochondrial ribosomal protein of the small subunit	-1.21	2.33E-06
<i>RIM9</i>	Protein required for alkaline pH response via the Rim101 signaling pathway	-1.21	5.14E-07
<i>TIM23</i>	Protein involved in mitochondrial matrix protein import	-1.22	3.85E-08
<i>CR_01100C_A</i>	Ortholog(s) have role in mitochondrial respiratory chain complex assembly	-1.22	1.17E-07
<i>CWC22</i>	Predicted spliceosome-associated protein	-1.23	1.85E-08
<i>RSN1</i>	Protein of unknown function	-1.23	8.26E-08
<i>CR_03110W_A</i>	Ortholog(s) have role in mitochondrial translation	-1.24	2.89E-09
<i>C4_04820C_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.26	2.47E-06
<i>C1_14330W_A</i>	Ortholog(s) have tRNA-5-taurinomethyluridine 2-sulfurtransferase activity	-1.28	2.37E-07
<i>C6_03200W_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_63860	-1.28	1.21E-06
<i>ALS9</i>	ALS family cell-surface glycoprotein	-1.29	1.60E-09
<i>CDR11</i>	Putative transporter of PDR subfamily of ABC family	-1.30	8.34E-07
<i>MRPL3</i>	Ribosomal protein of the large subunit	-1.32	2.87E-06
<i>SSC1</i>	Heat shock protein	-1.35	8.52E-08
<i>C6_03440W_A</i>	Ortholog(s) have rRNA binding activity	-1.38	2.54E-07
<i>C1_14190C_A</i>	Protein phosphatase inhibitor	-1.38	3.80E-06
<i>MGE1</i>	Putative mitochondrial matrix cochaperone;	-1.39	4.76E-06
<i>C1_01150C_A</i>	Ortholog(s) have tRNA methyltransferase activity	-1.39	1.79E-06
<i>SSY1</i>	Amino acid sensor	-1.40	7.56E-06
<i>GAP1</i>	Amino acid permease	-1.41	1.47E-08
<i>C3_01850W_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.43	5.98E-07
<i>CDR4</i>	Putative ABC transporter superfamily	-1.43	2.18E-08
<i>C4_00810C_A</i>	Ortholog(s) have serine-type endopeptidase activity	-1.46	2.77E-06
<i>C7_01590C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_71420	-1.46	6.19E-10
<i>C1_08520C_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.46	2.05E-09
<i>C1_13060C_A</i>	Ortholog(s) have role in mitochondrial translation	-1.48	3.00E-06
<i>C5_02740W_A</i>	Ortholog(s) have oxidoreductase activity	-1.48	2.39E-12
<i>C1_06350W_A</i>	Protein of unknown function	-1.48	2.56E-09
<i>C4_03410W_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.49	1.08E-12
<i>ZCF29</i>	Zn(II)2Cys6 transcription factor	-1.49	4.80E-11
<i>CAL0000190891</i>	Predicted MFS family membrane transporter	-1.49	9.80E-06
<i>CHA1</i>	Similar to catabolic ser/thr dehydratases	-1.49	2.66E-06
<i>MRPL10</i>	Putative mitochondrial large subunit ribosomal protein	-1.49	1.86E-08
<i>MNN22</i>	Alpha-1,2-mannosyltransferase	-1.57	4.60E-11
<i>C6_03540W_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.58	5.35E-14
<i>C2_04790C_A</i>	Predicted membrane transporter	-1.59	2.45E-07
<i>C2_00480C_A</i>	Ortholog(s) have structural constituent of ribosome activity	-1.61	8.76E-10
<i>PHHB</i>	Putative 4a-hydroxytetrahydrobiopterin dehydratase	-1.62	5.69E-07
<i>TUF1</i>	Translation elongation factor TU	-1.63	3.73E-08
<i>PLB3</i>	GPI-anchored cell surface phospholipase B	-1.64	6.05E-06
<i>RIM101</i>	Transcription factor	-1.64	4.41E-09
<i>C2_02180W_A</i>	Ortholog of <i>S. cerevisiae</i> Zrt3, vacuolar membrane zinc transporter	-1.65	5.08E-15
<i>MSW1</i>	Protein similar to mitochondrial tryptophanyl-tRNA synthetase	-1.68	1.14E-16
<i>C7_01510W_A</i>	Predicted membrane transporter	-1.71	4.81E-07
<i>C4_07140W_A</i>	Predicted mitochondrial intermembrane space protein	-1.73	4.39E-07
<i>GIT3</i>	Glycerophosphocholine permease	-1.74	2.97E-07
<i>IFR2</i>	Zinc-binding dehydrogenase	-1.79	2.02E-08

<i>C1_06840C_A</i>	Ortholog(s) have role in mitochondrial respiratory chain complex IV assembly	-1.82	7.14E-07
<i>ENA2</i>	Putative sodium transporter	-1.82	5.21E-10
<i>CTR1</i>	Copper transporter	-1.84	3.47E-07
<i>SKN1</i>	Protein with a role in beta-1,6-glucan synthesis;	-1.91	2.04E-06
<i>CAN3</i>	Predicted amino acid transmembrane transporter	-1.91	5.76E-11
<i>C3_00840C_A</i>	Protein of unknown function	-1.95	3.44E-08
<i>RME1</i>	Zinc finger protein	-1.95	4.98E-07
<i>FCY21</i>	High affinity, high capacity, hypoxanthine-adenine-guanine-cytosine/H ⁺ symporter	-1.98	2.47E-06
<i>C3_01260C_A</i>	Putative adhesin-like protein	-1.99	3.88E-09
<i>ENA21</i>	Predicted P-type ATPase sodium pump	-2.00	1.19E-09
<i>ALP1</i>	Cystine transporter	-2.13	3.95E-07
<i>COX15</i>	Cytochrome oxidase assembly protein	-2.15	7.72E-11
<i>ATX1</i>	Putative cytosolic copper metallochaperone	-2.22	8.01E-10
<i>C1_08350C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36: Cd36_02630	-2.28	7.27E-13
<i>CR_08880C_A</i>	Protein of unknown function	-2.59	1.83E-16
<i>AOX2</i>	Alternative oxidase	-2.70	2.10E-07
<i>CRP1</i>	Copper transporter	-2.73	4.16E-13
<i>SIT1</i>	Transporter of ferrichrome siderophores, not ferrioxamine B	-2.83	1.53E-09
<i>C7_03560W_A</i>	Protein of unknown function	-2.98	1.34E-27
<i>TPO3</i>	Putative polyamine transporter; MFS-MDR family	-2.99	9.59E-16
<i>DLD1</i>	Putative D-lactate dehydrogenase	-3.00	7.03E-16
<i>CTN1</i>	Carnitine acetyl transferase	-3.00	1.57E-11
<i>FMP45</i>	Predicted membrane protein induced during mating	-3.01	9.17E-10
<i>C1_07160C_A</i>	Protein conserved among the CTG-clade	-3.19	3.11E-12
<i>tR(UCU)4</i>	tRNA-Arg, predicted by tRNAscan-SE; UCU anticodon	-3.25	7.34E-09
<i>GIT2</i>	Putative glycerophosphoinositol permease	-3.34	1.89E-24
<i>HSP30</i>	Putative heat shock protein	-3.36	2.98E-11
<i>C1_11320C_A</i>	Protein of unknown function	-3.48	4.80E-18
<i>PHO89</i>	Putative phosphate permease	-3.59	1.28E-07
<i>ZRT2</i>	Zinc transporter	-3.78	1.92E-23
<i>C5_04980W_A</i>	Putative adhesin-like protein	-4.13	1.60E-24
<i>PHO84</i>	High-affinity phosphate transporter	-4.29	1.81E-17
<i>HNM3</i>	Putative transporter	-4.30	3.60E-20
<i>PRA1</i>	Cell surface protein that sequesters zinc from host tissue	-4.40	1.51E-12
<i>JEN2</i>	Dicarboxylic acid transporter	-5.34	3.80E-47

Supplementary Table S3: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with fluconazole compared to untreated controls. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted *p-value* < 1e⁻⁵).

Name	Annotation	log2 Fold Change	Adjusted P value
<i>ADH3</i>	Putative NAD-dependent (R,R)-butanediol dehydrogenase	3.25	2.36E-08
<i>C3_03460C_A</i>	Protein of unknown function	3.19	4.58E-20
<i>IFD6</i>	Aldo-keto reductase	3.02	1.11E-21
<i>ATX1</i>	Putative cytosolic copper metallochaperone	2.75	2.42E-14
<i>GRP2</i>	Methylglyoxal reductase	2.62	8.07E-08
<i>C3_05450C_A</i>	Protein of unknown function	2.53	2.17E-11
<i>CRZ2</i>	C2H2 transcription factor	2.51	2.86E-17
<i>HSP104</i>	Heat-shock protein	2.47	3.99E-08
<i>C1_01510W_A</i>	Protein of unknown function	2.46	2.65E-12
<i>WOR4</i>	Predicted C2H2 zinc finger protein	2.40	1.18E-14
<i>UGT51C1</i>	UDP-glucose:sterol glucosyltransferase	2.38	1.45E-22
<i>CR_09100C_A</i>	Aldo-keto reductase	2.35	1.36E-09
<i>C7_04090C_A</i>	Predicted mitochondrial cardiolipin-specific phospholipase	2.35	1.59E-10
<i>SRR1</i>	Two-component system response regulator	2.24	1.98E-11
<i>HSP78</i>	Heat-shock protein	2.22	1.27E-08
<i>AAF1</i>	Possible regulatory protein	2.18	2.21E-08
<i>NRG1</i>	Transcription factor/repressor	2.18	4.02E-16
<i>RME1</i>	Zinc finger protein	2.17	3.28E-08
<i>OPT3</i>	Oligopeptide transporter	2.15	1.60E-10
<i>C5_04030W_A</i>	Protein of unknown function	2.08	3.99E-08
<i>GAL102</i>	UDP-glucose 4,6-dehydratase	2.05	3.84E-08
<i>ERO1</i>	Ortholog of <i>S. cerevisiae</i> Ero1	2.00	1.82E-08
<i>YIM1</i>	Protein similar to protease of mitochondrial inner membrane;	2.00	2.04E-08
<i>GOR1</i>	Ortholog(s) have glyoxylate reductase activity	2.00	2.37E-07
<i>CR_06140W_A</i>	Protein of unknown function	1.98	1.08E-08
<i>EFG1</i>	bHLH transcription factor	1.97	9.31E-10
<i>C1_03990W_A</i>	Ortholog(s) have proteasome binding activity	1.95	2.07E-08
<i>SIS1</i>	Putative Type II HSP40 co-chaperone	1.94	5.25E-06
<i>RFG1</i>	HMG domain transcriptional repressor of filamentous growth and hyphal genes	1.94	3.12E-11
<i>INO2</i>	Transcriptional activator	1.92	1.24E-08
<i>C3_00360W_A</i>	Protein of unknown function	1.88	2.21E-10
<i>CSH1</i>	Aldo-keto reductase	1.87	5.61E-07
<i>HSP90</i>	Essential chaperone	1.85	2.86E-07
<i>C7_00770W_A</i>	Protein of unknown function	1.81	6.81E-06
<i>STI1</i>	Protein that interacts with Cdc37 and Crk1 in two-hybrid; may be involved in Cdc37 chaperone activity;	1.74	7.75E-06
<i>CDR4</i>	Putative ABC transporter superfamily	1.70	6.09E-11
<i>MOH1</i>	Ortholog of <i>S. cerevisiae</i> Moh1, essential for stationary phase growth	1.68	2.64E-10
<i>C1_04010C_A</i>	Protein with a NADP-dependent oxidoreductase domain	1.68	1.47E-07
<i>C6_00290W_A</i>	Protein of unknown function	1.67	2.04E-08
<i>ADA2</i>	Zinc finger and homeodomain transcriptional coactivator	1.67	2.43E-13
<i>CUP9</i>	Transcription factor	1.66	7.42E-07
<i>LPG20</i>	Aldo-keto reductase family protein	1.65	8.38E-06
<i>ALK2</i>	N-Alkane inducible cytochrome P450	1.63	1.09E-09
<i>C6_00920W_A</i>	Putative mitochondrial intermembrane space protein	1.61	4.02E-08

ZCF1	Zn(II)2Cys6 transcription factor	1.59	2.33E-12
C2_02920W_A	Putative adhesin-like protein	1.58	6.18E-07
PGA52	GPI-anchored cell surface protein of unknown function	1.57	3.79E-06
SNQ2	Protein similar to <i>S. cerevisiae</i> Snq2p transporter	1.55	6.73E-07
ISA1	Putative mitochondrial iron-sulfur protein	1.55	1.62E-08
C4_02740W_A	Protein of unknown function	1.54	2.80E-06
C2_01750C_A	Protein with a life-span regulatory factor domain	1.51	4.57E-08
AXL1	Putative endoprotease	1.50	8.38E-06
C1_09210C_A	Putative transporter	1.47	8.96E-08
C2_03690C_A	Protein of unknown function	1.43	6.88E-10
C2_09880C_A	Putative protein of unknown function	1.42	7.26E-06
C3_02630C_A	Protein of unknown function	1.42	1.29E-08
YOR1	Protein similar to <i>S. cerevisiae</i> Yor1	1.41	2.33E-12
HAL9	Putative Zn(II)2Cys6 transcription factor	1.40	5.22E-08
RPN4	C2H2 transcription factor	1.40	3.13E-09
ZCF39	Zn(II)2Cys6 transcription factor	1.39	1.55E-06
RGS2	Protein of RGS superfamily	1.39	3.28E-08
CR_10230W_A	Ortholog(s) have histone acetyltransferase activity	1.36	2.94E-14
CR_06960W_A	Ortholog(s) have ATP binding, DNA replication origin binding activity	1.35	1.73E-06
C6_00110C_A	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_60130	1.29	1.88E-07
CR_00040C_A	Putative adhesin-like protein	1.28	1.01E-06
CR_07480W_A	A predicted auxin family transmembrane transporter	1.22	2.41E-08
BCR1	Transcription factor	1.21	3.28E-06
C4_03020W_A	Putative mitochondrial GTPase	1.18	4.87E-09
CR_05860W_A	Protein of unknown function	1.16	4.22E-06
ALS7	ALS family protein	1.12	1.07E-08
C1_01130W_A	Putative ubiquitin ligase complex component	1.09	2.80E-06
MHP1	Protein similar to <i>S. cerevisiae</i> Mhp1p	1.09	4.69E-06
ARD	D-arabitol dehydrogenase	1.09	6.87E-06
C3_04330C_A	Protein of unknown function	1.07	8.47E-06
TEL1	Ortholog(s) have protein serine/threonine kinase activity	-0.85	1.49E-07
FBA1	Fructose-bisphosphate aldolase	-1.64	8.92E-08
PHHB	Putative 4a-hydroxytetrahydrobiopterin dehydratase	-1.72	2.87E-07
IFR2	Zinc-binding dehydrogenase	-1.78	8.07E-08
MNN12	Predicted alpha-1,3-mannosyltransferase activity	-1.93	1.55E-06
CRH11	GPI-anchored cell wall transglycosylase	-2.36	1.36E-07
SOD5	Cu-containing superoxide dismutase	-3.26	4.51E-08
C6_02100W_A	Secreted protein	-3.54	9.31E-10

Supplementary Table S4: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with C12AHL compared to untreated controls. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted *p-value* < 1e⁻⁵).

Name	Annotation	log2 Fold Change	Adjusted P value
<i>C3_03460C_A</i>	Protein of unknown function	3.45	3.54E-23
<i>ADH3</i>	Putative NAD-dependent (R,R)-butanediol dehydrogenase	3.05	2.81E-07
<i>IFD6</i>	Aldo-keto reductase	3.00	2.14E-21
<i>ATX1</i>	Putative cytosolic copper metallochaperone	2.74	3.92E-14
<i>HSP104</i>	Heat-shock protein	2.54	1.83E-08
<i>GRP2</i>	Methylglyoxal reductase	2.50	4.86E-07
<i>C1_01510W_A</i>	Protein of unknown function	2.41	1.41E-11
<i>C7_00350C_A</i>	Protein of unknown function	2.39	4.64E-06
<i>C3_05450C_A</i>	Protein of unknown function	2.38	4.54E-10
<i>C7_04090C_A</i>	Predicted mitochondrial cardiolipin-specific phospholipase	2.33	2.33E-10
<i>CRZ2</i>	C2H2 transcription factor	2.30	2.41E-14
<i>CR_09100C_A</i>	Aldo-keto reductase	2.30	4.70E-09
<i>HSP78</i>	Heat-shock protein	2.23	1.33E-08
<i>UGT51C1</i>	UDP-glucose:sterol glucosyltransferase	2.20	1.95E-19
<i>C7_00770W_A</i>	Protein of unknown function	2.19	1.73E-08
<i>OPT3</i>	Oligopeptide transporter	2.16	1.39E-10
<i>GOR1</i>	Ortholog(s) have glyoxylate reductase activity	2.16	1.86E-08
<i>SRR1</i>	Two-component system response regulator	2.15	1.81E-10
<i>AAF1</i>	Possible regulatory protein	2.13	5.63E-08
<i>WOR4</i>	Predicted C2H2 zinc finger protein	2.08	6.53E-11
<i>RME1</i>	Zinc finger protein	1.98	9.00E-07
<i>SIS1</i>	Putative Type II HSP40 co-chaperone	1.98	3.87E-06
<i>CR_06140W_A</i>	Protein of unknown function	1.96	1.56E-08
<i>NRG1</i>	Transcription factor/repressor	1.95	9.01E-13
<i>YIM1</i>	Protein similar to protease of mitochondrial inner membrane	1.95	6.00E-08
<i>ALK2</i>	N-Alkane inducible cytochrome P450	1.93	2.75E-13
<i>CSH1</i>	Aldo-keto reductase	1.91	3.78E-07
<i>ERO1</i>	Ortholog of <i>S. cerevisiae</i> Ero1	1.91	1.20E-07
<i>EFG1</i>	bHLH transcription factor	1.88	7.64E-09
<i>C5_04030W_A</i>	Protein of unknown function	1.85	2.15E-06
<i>GAL102</i>	UDP-glucose 4,6-dehydratase	1.85	1.54E-06
<i>RFG1</i>	HMG domain transcriptional repressor of filamentous growth and hyphal genes	1.81	7.32E-10
<i>CDR4</i>	Putative ABC transporter superfamily	1.76	1.68E-11
<i>INO2</i>	Transcriptional activator that forms a heterodimer with Ino4p	1.76	3.13E-07
<i>SNQ2</i>	Protein similar to <i>S. cerevisiae</i> Sng2p transporter	1.74	1.56E-08
<i>C1_09210C_A</i>	Putative transporter	1.72	2.42E-10
<i>LPG20</i>	Aldo-keto reductase family protein	1.71	3.87E-06
<i>HSP90</i>	Essential chaperone	1.71	3.87E-06
<i>C1_03990W_A</i>	Ortholog(s) have proteasome binding activity	1.64	6.48E-06
<i>MOH1</i>	Ortholog of <i>S. cerevisiae</i> Moh1	1.61	2.14E-09
<i>C1_04010C_A</i>	Protein with a NADP-dependent oxidoreductase domain	1.57	1.54E-06
<i>C6_00290W_A</i>	Protein of unknown function	1.54	4.63E-07
<i>ADA2</i>	Zinc finger and homeodomain transcriptional coactivator	1.51	8.98E-11
<i>C4_02740W_A</i>	Protein of unknown function	1.48	9.33E-06
<i>C2_00770W_A</i>	Putative protein of unknown function	1.47	9.00E-07

<i>C3_00360W_A</i>	Protein of unknown function	1.43	4.78E-06
<i>ZCF1</i>	Zn(II)2Cys6 transcription factor	1.43	6.29E-10
<i>ISA1</i>	Putative mitochondrial iron-sulfur protein	1.39	7.93E-07
<i>YOR1</i>	Protein similar to <i>S. cerevisiae</i> Yor1	1.35	3.45E-11
<i>HAL9</i>	Putative Zn(II)2Cys6 transcription factor	1.35	2.48E-07
<i>RPN4</i>	C2H2 transcription factor	1.34	1.56E-08
<i>CR_06960W_A</i>	Ortholog(s) have ATP binding, DNA replication origin binding activity	1.29	6.48E-06
<i>C2_03690C_A</i>	Protein of unknown function	1.25	1.48E-07
<i>C3_02630C_A</i>	Protein of unknown function	1.20	3.87E-06
<i>RGS2</i>	Protein of RGS superfamily	1.17	7.97E-06
<i>MHP1</i>	Protein similar to <i>S. cerevisiae</i> Mhp1p	1.10	3.93E-06
<i>CR_10230W_A</i>	Ortholog(s) have histone acetyltransferase activity	1.07	8.15E-09
<i>C1_01130W_A</i>	Putative ubiquitin ligase complex component	1.06	7.23E-06
<i>CR_07480W_A</i>	A predicted auxin family transmembrane transporter	1.02	9.33E-06
<i>C4_03020W_A</i>	Putative mitochondrial GTPase	0.98	2.64E-06
<i>ALS7</i>	ALS family protein	0.95	2.83E-06
<i>HOL4</i>	Putative ion transporter	-1.24	1.54E-06
<i>ENA21</i>	Predicted P-type ATPase sodium pump	-1.59	9.11E-06
<i>PHHB</i>	Putative 4a-hydroxytetrahydrobiopterin dehydratase	-1.78	1.04E-07
<i>FBA1</i>	Fructose-bisphosphate aldolase	-1.79	5.31E-09
<i>IFR2</i>	Zinc-binding dehydrogenase	-1.82	4.01E-08
<i>PHR1</i>	Cell surface glycosidase	-1.84	3.61E-06
<i>MNN12</i>	Predicted alpha-1,3-mannosyltransferase	-1.90	2.89E-06
<i>C6_02100W_A</i>	Secreted protein	-3.73	1.15E-10

Supplementary Table S5: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with C12AHL+fluconazole compared to untreated controls. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted *p-value* < 1e⁻⁵).

Name	Annotation	log2 Fold Change	Adjusted P value
<i>JEN2</i>	Dicarboxylic acid transporter	5.50	3.54E-50
<i>ATX1</i>	Putative cytosolic copper metallochaperone	4.97	2.48E-48
<i>RME1</i>	Zinc finger protein	4.13	4.48E-30
<i>CRP1</i>	Copper transporter	3.86	3.57E-26
<i>HSP30</i>	Putative heat shock protein	3.76	4.82E-14
<i>PHO84</i>	High-affinity phosphate transporter	3.73	1.68E-13
<i>ADH3</i>	Putative NAD-dependent (R,R)-butanediol dehydrogenase	3.71	2.22E-11
<i>TPO3</i>	Putative polyamine transporter	3.58	1.37E-22
<i>OPT3</i>	Oligopeptide transporter	3.57	3.50E-30
<i>C5_04980W_A</i>	Putative adhesin-like protein	3.51	5.28E-18
<i>IFE2</i>	Putative alcohol dehydrogenase	3.49	4.57E-13
<i>C7_03560W_A</i>	Protein of unknown function	3.47	4.79E-38
<i>FCY21</i>	High affinity, high capacity, hypoxanthine-adenine-guanine-cytosine/H ⁺ symporter	3.41	6.13E-18
<i>HSP104</i>	Heat-shock protein	3.34	2.05E-15
<i>HSP78</i>	Heat-shock protein	3.32	4.07E-20
<i>HNM3</i>	Putative transporter	3.32	2.84E-12
<i>CTN1</i>	Carnitine acetyl transferase	3.30	5.56E-14
<i>UGT51C1</i>	UDP-glucose: sterol glucosyltransferase	3.21	4.24E-43
<i>ZRT2</i>	Zinc transporter	3.17	1.07E-16
<i>C1_11320C_A</i>	Protein of unknown function	3.16	4.80E-15
<i>CDR4</i>	Putative ABC transporter superfamily	3.13	5.04E-39
<i>C4_07140W_A</i>	Predicted mitochondrial intermembrane space protein	3.10	7.70E-22
<i>ALP1</i>	Cystine transporter	2.96	2.66E-13
<i>SSA2</i>	HSP70 family chaperone	2.95	6.26E-10
<i>GCV2</i>	Glycine decarboxylase P subunit	2.90	8.28E-11
<i>C7_00350C_A</i>	Protein of unknown function	2.88	1.78E-09
<i>SIT1</i>	Transporter of ferrichrome siderophores	2.87	6.07E-10
<i>DLD1</i>	Putative D-lactate dehydrogenase	2.79	6.07E-14
<i>FMP45</i>	Predicted membrane protein induced during mating	2.71	3.36E-08
<i>MDH1-1</i>	Predicted malate dehydrogenase precursor	2.67	5.83E-07
<i>HSP21</i>	Small heat shock protein	2.65	5.86E-08
<i>CAN1</i>	Basic amino acid permease	2.65	1.81E-08
<i>C6_00810C_A</i>	Protein of unknown function	2.47	3.77E-08
<i>CR_08880C_A</i>	Protein of unknown function	2.47	3.83E-15
<i>CYS3</i>	Cystathionine gamma-lyase; induced by alkaline, amphotericin B	2.46	6.06E-06
<i>C1_08350C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36: Cd36_02630	2.38	3.96E-14
<i>ELF1</i>	Putative mRNA export protein	2.37	6.55E-06
<i>MUP1</i>	Putative high affinity methionine permease	2.35	2.37E-08

<i>C1_07160C_A</i>	Protein conserved among the CTG-clade	2.35	4.40E-07
<i>GIT3</i>	Glycerophosphocholine permease	2.35	8.31E-13
<i>C2_03110W_A</i>	Protein of unknown function	2.33	9.30E-11
<i>C7_01170C_A</i>	Putative oxidoreductase	2.28	1.25E-06
<i>GNP1</i>	Similar to asparagine and glutamine permease	2.26	5.40E-16
<i>SSC1</i>	Heat shock protein	2.25	4.72E-21
<i>tV(AAC)4</i>	tRNA-Val	2.24	4.45E-07
<i>C7_04090C_A</i>	Predicted mitochondrial cardiolipin-specific phospholipase	2.24	1.99E-10
<i>ARG1</i>	Argininosuccinate synthase	2.23	7.64E-08
<i>CTA4</i>	Zn(II)2Cys6 transcription factor	2.23	4.72E-11
<i>AQY1</i>	Aquaporin water channel	2.22	1.60E-08
<i>C6_00290W_A</i>	Protein of unknown function	2.21	2.13E-15
<i>C6_03180C_A</i>	Ortholog(s) have protein binding, bridging, ubiquitin protein ligase binding activity	2.20	4.99E-09
<i>C2_00760C_A</i>	Protein of unknown function	2.20	8.21E-11
<i>CDR11</i>	Putative transporter of PDR subfamily	2.18	3.82E-18
<i>RPS27A</i>	Ribosomal protein S27	2.16	4.11E-09
<i>GRF10</i>	Putative homeodomain transcription factor	2.11	7.64E-10
<i>NDT80</i>	Meiosis-specific transcription factor	2.11	3.13E-12
<i>ALR1</i>	Putative transporter of divalent cations	2.09	1.58E-06
<i>C1_13820C_A</i>	Protein of unknown function	2.08	3.87E-09
<i>KGD1</i>	Putative 2-oxoglutarate dehydrogenase	2.08	7.55E-10
<i>SIS1</i>	Putative Type II HSP40 co-chaperone	2.06	2.22E-07
<i>DED1</i>	Predicted ATP-dependent RNA helicase	2.05	2.26E-09
<i>PHO87</i>	Putative phosphate permease	2.05	6.46E-09
<i>CPH2</i>	Myc-bHLH transcription factor	2.04	7.55E-17
<i>C7_00880C_A</i>	Protein of unknown function	2.02	1.97E-10
<i>PTR22</i>	Oligopeptide transporter	2.01	4.78E-08
<i>SUL2</i>	Putative sulfate transporter	1.97	6.15E-10
<i>CR_08420W_A</i>	Putative DnaJ-like heat shock/chaperone	1.96	4.04E-06
<i>C2_08100W_A</i>	Mitochondrial apoptosis-inducing factor	1.95	2.05E-06
<i>MET3</i>	ATP sulfurylase	1.94	7.42E-06
<i>C2_06440C_A</i>	Protein with homology to peroxisomal membrane proteins	1.93	2.60E-06
<i>COX15</i>	Cytochrome oxidase assembly protein	1.93	4.99E-09
<i>ARD</i>	D-arabitol dehydrogenase	1.92	7.27E-19
<i>ALS7</i>	ALS family protein	1.92	1.57E-26
<i>C1_01130W_A</i>	Putative ubiquitin ligase complex component	1.91	1.06E-19
<i>C7_03590C_A</i>	Putative member of the multi-drug and toxin extrusion (MATE) family	1.90	1.44E-06
<i>CR_06960W_A</i>	Ortholog(s) have ATP binding, DNA replication origin binding activity	1.90	3.68E-13
<i>GOR1</i>	Ortholog(s) have glyoxylate reductase activity	1.90	2.97E-07
<i>CAN3</i>	Predicted amino acid transmembrane transporter	1.89	8.06E-11

<i>HSP90</i>	Essential chaperone	1.86	5.25E-08
<i>ST11</i>	Protein that interacts with Cdc37 and Crk1 in two-hybrid	1.86	2.42E-07
<i>MNN22</i>	Alpha-1,2-mannosyltransferase	1.86	2.25E-15
<i>SNQ2</i>	Protein similar to <i>S. cerevisiae</i> Snq2p transporter	1.84	2.49E-10
<i>MET2</i>	Homoserine acetyltransferase	1.84	1.41E-07
<i>ITR1</i>	MFS inositol transporter	1.83	1.68E-09
<i>ALS1</i>	Cell-surface adhesin	1.83	4.55E-08
<i>RIM101</i>	Transcription factor	1.80	5.30E-11
<i>PLB3</i>	GPI-anchored cell surface phospholipase B	1.80	3.10E-07
<i>C4_05900C_A</i>	Protein of unknown function	1.80	2.82E-12
<i>ROA1</i>	Putative PDR-subfamily ABC transporter	1.79	9.99E-09
<i>CR_07170W_A</i>	Possible dehydrogenase	1.78	3.28E-09
<i>C6_03200W_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_63860	1.78	2.23E-12
<i>GIT2</i>	Putative glycerophosphoinositol permease	1.77	2.36E-07
<i>PDE2</i>	High affinity cyclic nucleotide phosphodiesterase	1.77	3.53E-10
<i>C3_01260C_A</i>	Putative adhesin-like protein	1.76	2.13E-07
<i>TUF1</i>	Translation elongation factor TU	1.75	1.80E-09
<i>YIM1</i>	Protein similar to protease of mitochondrial inner membrane	1.75	3.63E-07
<i>HSP60</i>	Heat shock protein	1.73	3.68E-13
<i>RNR3</i>	Putative ribonucleotide reductase large subunit	1.72	7.33E-11
<i>GAP5</i>	General amino acid permease	1.71	7.67E-08
<i>MDJ1</i>	Putative member of the HSP40 (DnaJ) family of chaperones	1.69	5.21E-07
<i>RPO41</i>	Putative mitochondrial RNA polymerase	1.69	2.75E-06
<i>C5_00570W_A</i>	Putative aminophospholipid translocase (flippase)	1.69	1.62E-07
<i>C6_01620W_A</i>	RING/FYVE/PHD zinc finger protein	1.68	2.37E-13
<i>C3_00840C_A</i>	Ortholog(s) have mitochondrion localization	1.68	2.22E-06
<i>CR_03120W_A</i>	Ortholog of <i>S. cerevisiae</i> Mpm1	1.68	1.90E-15
<i>HAL9</i>	Putative Zn(II)2Cys6 transcription factor	1.66	7.61E-12
<i>TIM23</i>	Protein involved in mitochondrial matrix protein import	1.66	1.04E-14
<i>FET31</i>	Putative multicopper oxidase	1.65	3.85E-06
<i>C1_08520C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.64	8.63E-12
<i>MIF2</i>	Centromere-associated protein	1.64	1.04E-24
<i>HRR25</i>	Predicted protein serine/threonine kinase	1.63	2.15E-08
<i>CR_10470C_A</i>	Ortholog(s) have role in maturation of SSU-rRNA from tricistronic rRNA transcript	1.63	2.74E-06
<i>MSS116</i>	Putative DEAD-box protein	1.62	7.61E-06
<i>DCK1</i>	Putative guanine nucleotide exchange factor	1.61	4.47E-06
<i>GCN4</i>	bZIP transcription factor	1.61	3.12E-06
<i>C5_02590C_A</i>	Putative mitochondrial membrane protein	1.60	9.23E-06
<i>C2_10090C_A</i>	Ortholog(s) have mitochondrion localization	1.60	1.48E-08
<i>RIM2</i>	Putative mitochondrial carrier protein	1.59	1.58E-07
<i>SSY1</i>	Amino acid sensor	1.58	2.17E-07

<i>ISW2</i>	Ortholog of <i>S. cerevisiae</i> Isw2	1.57	9.68E-09
<i>C6_03440W_A</i>	Ortholog(s) have rRNA binding activity	1.57	1.75E-09
<i>CR_03940W_A</i>	Putative rRNA processing protein	1.56	3.69E-08
<i>HNM1</i>	Putative choline/ethanolamine transporter	1.55	1.41E-07
<i>C2_04790C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.55	2.93E-09
<i>C2_03490C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36: Cd36_18230	1.54	1.37E-11
<i>CCC1</i>	Manganese transporter	1.52	3.42E-06
<i>C4_03410W_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.52	2.37E-13
<i>GIS2</i>	Translational activator for mRNAs	1.52	9.61E-09
<i>HIP1</i>	Amino acid permeases	1.51	7.94E-14
<i>MGE1</i>	Putative mitochondrial matrix cochaperone	1.51	3.33E-07
<i>CR_09620C_A</i>	Ortholog(s) have phosphatidic acid transporter activity	1.51	5.68E-06
<i>C5_04050W_A</i>	Plasma membrane-localized protein of unknown function	1.50	4.42E-08
<i>MSI3</i>	Essential HSP70 family protein	1.49	2.10E-06
<i>SFP1</i>	C2H2 transcription factor involved in regulation of biofilm formation	1.49	5.13E-06
<i>ZCF29</i>	Zn (II)2Cys6 transcription factor	1.48	4.04E-11
<i>WSC1</i>	Putative cell wall component	1.46	6.09E-10
<i>MIR1</i>	Putative mitochondrial phosphate transporter	1.46	7.19E-07
<i>C3_01850W_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.45	2.84E-07
<i>C1_14190C_A</i>	Protein phosphatase inhibitor	1.45	7.85E-07
<i>MIA40</i>	Predicted component of the mitochondrial intermembrane space import machinery	1.44	1.54E-09
<i>C5_02740W_A</i>	Ortholog(s) have oxidoreductase activity	1.43	1.09E-11
<i>C4_00920C_A</i>	Possible similarity to mutator-like element (MULE) transposase	1.43	7.23E-06
<i>CDC34</i>	Putative ubiquitin-protein ligase	1.43	2.57E-06
<i>RSN1</i>	Protein of unknown function	1.43	1.89E-10
<i>MRPL10</i>	Putative mitochondrial large subunit ribosomal protein	1.43	6.62E-08
<i>C1_01150C_A</i>	Ortholog(s) have tRNA methyltransferase activity	1.43	6.98E-07
<i>C1_13060C_A</i>	Ortholog(s) have role in mitochondrial translation	1.42	6.33E-06
<i>HEM1</i>	Putative 5-aminolevulinate synthase	1.41	9.55E-06
<i>FLO8</i>	Transcription factor	1.41	8.50E-09
<i>CRZ2</i>	C2H2 transcription factor	1.38	4.41E-06
<i>RIM9</i>	Protein required for alkaline pH response	1.38	5.32E-09
<i>C1_06350W_A</i>	Protein of unknown function	1.38	2.87E-08
<i>FGR15</i>	Putative transcription factor with zinc finger DNA-binding motif	1.37	9.45E-11
<i>CR_06230W_A</i>	Predicted cation transmembrane transporter	1.37	2.24E-07
<i>C5_00250C_A</i>	Protein with a predicted role in microtubule-related processes	1.37	3.23E-08
<i>WHI3</i>	Putative RNA binding protein	1.36	2.90E-08
<i>PTC8</i>	Predicted type 2C protein phosphatase	1.34	5.96E-07
<i>MRPL3</i>	Ribosomal protein of the large subunit	1.33	1.79E-06

<i>SCO1</i>	Putative copper transporter	1.33	7.38E-06
<i>C1_04370C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.33	7.20E-07
<i>C2_02180W_A</i>	Vacuolar membrane zinc transporter	1.33	4.40E-10
<i>C5_01700W_A</i>	Mitochondrial ribosomal protein of the large subunit	1.32	3.86E-06
<i>MSW1</i>	Mitochondrial tryptophanyl-tRNA synthetase	1.32	1.95E-10
<i>C7_03000C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.32	6.47E-10
<i>MNN23</i>	Alpha-1,2-mannosyltransferase	1.31	5.09E-07
<i>C6_00920W_A</i>	Putative mitochondrial intermembrane space protein	1.31	4.83E-06
<i>DOT6</i>	Protein with a predicted role in telomeric gene silencing and filamentation	1.30	9.45E-06
<i>C1_14090W_A</i>	Ortholog(s) have chaperone binding, unfolded protein binding activity	1.29	2.26E-08
<i>C1_05210C_A</i>	Protein of unknown function	1.29	7.40E-09
<i>SSU81</i>	Predicted adaptor protein	1.28	2.36E-07
<i>FZO1</i>	Mitochondrial biogenesis protein	1.28	4.29E-06
<i>CTA2</i>	Putative transcription factor	1.27	2.93E-07
<i>CR_10420W_A</i>	Protein with a mitochondrial distribution and morphology domain	1.25	7.63E-10
<i>ADA2</i>	Zinc finger and homeodomain transcriptional coactivator	1.24	3.29E-08
<i>CWC22</i>	Predicted spliceosome-associated protein	1.24	1.03E-08
<i>C2_07440C_A</i>	Ortholog(s) have sterol esterase activity	1.22	3.22E-08
<i>BRE1</i>	Putative transcription factor with C3HC4 zinc finger DNA-binding motif	1.21	5.25E-06
<i>C6_03730C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.19	7.21E-07
<i>C1_14330W_A</i>	Ortholog(s) have tRNA-5-taurinomethyluridine 2-sulfurtransferase activity	1.19	1.57E-06
<i>LCB4</i>	Putative sphingosine kinase	1.18	2.64E-06
<i>C7_01910C_A</i>	Similar to bacterial DnaJ	1.17	4.57E-09
<i>CR_08470W_A</i>	Protein involved in N-glycosylation	1.16	2.84E-07
<i>C2_05380W_A</i>	Protein of unknown function	1.16	3.59E-06
<i>CR_04580W_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.16	9.24E-06
<i>OPY2</i>	Predicted transmembrane protein	1.15	2.85E-06
<i>REG1</i>	Putative protein phosphatase regulatory subunit	1.14	1.84E-06
<i>STP2</i>	Amino-acid-regulated transcription factor	1.14	3.24E-06
<i>DFG5</i>	N-linked mannoprotein	1.13	1.79E-07
<i>C1_13880C_A</i>	C2H2 transcription factor	1.12	8.35E-08
<i>KCS1</i>	Putative bZIP transcription factor	1.12	1.31E-07
<i>C4_00910C_A</i>	Protein with similarity to mutator-like element (MULE) transposase	1.12	1.26E-09
<i>C2_03560C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.10	3.74E-06
<i>C3_03250W_A</i>	Putative haloacid dehalogenase	1.09	6.73E-06
<i>YOR1</i>	ABC-type plasma membrane transporter	1.09	4.21E-08
<i>ALS6</i>	ALS family protein	1.08	2.56E-08
<i>C1_11850W_A</i>	Protein of unknown function	1.08	4.77E-06

<i>CHO2</i>	Putative phosphatidyl-ethanolamine N-methyltransferase	1.06	9.19E-07
<i>CR_01370C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.06	4.40E-06
<i>CR_03110W_A</i>	Ortholog(s) have role in mitochondrial translation	1.05	5.42E-07
<i>SMC4</i>	Ortholog(s) have ATPase activity	1.05	6.73E-06
<i>RPN4</i>	C2H2 transcription factor	1.03	8.03E-06
<i>C4_04240C_A</i>	Ortholog of <i>S. cerevisiae</i> Skg6	1.02	5.61E-06
<i>AFG3</i>	a subunit of the mitochondrial inner membrane m-AAA protease	1.02	4.94E-13
<i>ARF1</i>	ADP-ribosylation factor	1.01	1.42E-07
<i>IFM1</i>	Putative mitochondrial translation initiation factor	0.99	7.11E-06
<i>C7_03840W_A</i>	CCR4-NOT complex component	0.98	1.80E-06
<i>C2_00730C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_15670	0.98	7.61E-17
<i>NBP35</i>	Similar to nucleotide-binding proteins	0.97	3.15E-06
<i>C5_00350C_A</i>	Putative DnaJ-like chaperone	0.96	4.07E-06
<i>C4_03780C_A</i>	Putative mitochondrial membrane protein	0.95	1.58E-07
<i>C6_00390W_A</i>	Ortholog(s) have serine-tRNA ligase activity	0.95	6.24E-08
<i>C1_02750C_A</i>	Ortholog(s) have DNA translocase activity	0.94	5.07E-06
<i>C2_07060W_A</i>	Ortholog(s) have RNA binding activity	0.92	5.68E-06
<i>SWI6</i>	Putative component of the MBF and SBF transcription complexes	0.84	1.97E-09
<i>C6_03460W_A</i>	Nucleoporin component of central core of the nuclear pore complex	0.82	1.70E-06
<i>PBP2</i>	Putative RNA binding protein	0.79	1.57E-06
<i>MBP1</i>	Putative component of the MBF transcription complex	0.77	1.16E-06
<i>WAR1</i>	Zn(II)2Cys6 transcription factor	0.77	4.25E-07
<i>PDR6</i>	Putative pleiotropic drug resistance regulatory protein 6	0.73	2.56E-08
<i>C5_03940C_A</i>	Putative multidrug resistance protein; upregulated by Efg1p	-0.63	2.93E-06
<i>C1_02720W_A</i>	Putative transcription factor	-0.67	1.16E-06
<i>C3_06260C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_86220	-0.68	9.05E-06
<i>VPS8</i>	Putative vacuolar sorting protein	-0.70	9.83E-08
<i>ZCF9</i>	Putative Zn(II)2Cys6 transcription factor	-0.70	8.35E-09
<i>C3_05010C_A</i>	Putative DNA repair helicase	-0.78	1.13E-06
<i>C7_01650W_A</i>	RNA polymerase III transcription initiation factor complex (TFIIIC) subunit	-0.79	9.93E-06
<i>PSD1</i>	Phosphatidylserine decarboxylase	-0.81	8.54E-06
<i>C2_01490C_A</i>	Putative RNA polymerase transcription factor TFIIF core component	-0.82	9.00E-06
<i>APL5</i>	Ortholog of <i>S. cerevisiae</i> and <i>S. pombe</i> Apl5	-0.88	1.19E-06
<i>C4_01790W_A</i>	Adapter protein for pexophagy and the cytoplasm-to-vacuole targeting (Cvt) pathway	-0.88	2.60E-06
<i>ORC3</i>	A component of the origin recognition complex	-0.89	7.15E-07
<i>CWH43</i>	Putative sensor/transporter protein	-0.90	1.14E-06

<i>CR_08550W_A</i>	Ortholog(s) have fructose-2,6-bisphosphate 2-phosphatase activity	-0.91	5.29E-06
<i>CR_01130W_A</i>	Ortholog(s) have role in positive regulation of TORC1 signaling	-0.93	4.86E-08
<i>GPA2</i>	G-protein alpha subunit	-0.93	6.18E-06
<i>PKH2</i>	Putative serine/threonine protein kinase	-0.93	3.45E-07
<i>POM152</i>	Putative nuclear pore membrane glycoprotein	-0.94	2.53E-07
<i>C1_12740W_A</i>	Predicted cysteine proteinase domain	-0.95	4.93E-07
<i>MKC1</i>	MAP kinase	-0.96	6.33E-06
<i>RTA2</i>	Flippase	-0.96	2.22E-07
<i>CR_06470W_A</i>	Ortholog(s) have ubiquitin protein ligase activity	-0.98	8.06E-06
<i>C3_02690C_A</i>	Ortholog(s) have dolichol kinase activity	-0.99	3.45E-06
<i>C1_00920W_A</i>	Ortholog(s) have cell division site	-0.99	1.10E-06
<i>LYS12</i>	Homoisocitrate dehydrogenase	-1.01	4.08E-06
<i>C3_07230W_A</i>	Aminophospholipid translocase (flippase)	-1.01	3.72E-11
<i>C2_02020W_A</i>	Ortholog(s) have Lys48-specific deubiquitinase activity	-1.01	9.92E-06
<i>C5_01350W_A</i>	Ortholog(s) have role in ER-dependent peroxisome organization	-1.01	5.36E-07
<i>ERV46</i>	Putative ER-derived vesicle protein	-1.03	5.57E-07
<i>C5_00330C_A</i>	Ortholog(s) have role in fermentation	-1.03	1.25E-06
<i>C3_03430C_A</i>	Ortholog(s) have role in ATP export	-1.03	3.64E-07
<i>HEM2</i>	Putative porphobilinogen synthase	-1.04	7.87E-07
<i>C1_04780C_A</i>	Ortholog(s) have role in negative regulation of TORC1 signaling	-1.04	6.72E-13
<i>C4_00380W_A</i>	Ortholog(s) have D-arabinose 1-dehydrogenase [NAD(P)+] activity	-1.04	9.05E-08
<i>VPS1</i>	Dynamain-family GTPase-related protein	-1.04	1.06E-06
<i>C2_05850C_A</i>	Ortholog(s) have role in CVT pathway	-1.05	1.52E-07
<i>SSN8</i>	A component of RNA polymerase II holoenzyme	-1.06	9.32E-08
<i>CR_05890C_A</i>	Ortholog(s) have acetyltransferase activator activity	-1.06	5.67E-08
<i>NUP82</i>	Linker nucleoporin of the nuclear pore complex	-1.07	2.16E-06
<i>SHE3</i>	mRNA-binding protein	-1.07	9.76E-08
<i>C4_03130W_A</i>	Putative GPI transamidase component	-1.08	2.57E-06
<i>C2_07010W_A</i>	Predicted ER protein	-1.08	3.80E-08
<i>C1_03330C_A</i>	Ortholog(s) have phosphatidylinositol-3,5-bisphosphate binding activity	-1.09	1.19E-12
<i>C4_05800C_A</i>	Protein of unknown function	-1.09	4.92E-06
<i>CHS7</i>	Protein required for wild-type chitin synthase III activity	-1.10	1.74E-07
<i>C5_01090C_A</i>	Planktonic growth-induced gene	-1.11	9.93E-06
<i>SOL3</i>	Putative 6-phosphogluconolactonase	-1.11	6.06E-06
<i>C5_04320C_A</i>	RNI-like superfamily domain-containing protein	-1.11	2.02E-08
<i>CR_04080C_A</i>	Endoplasmic reticulum (ER) protein-translocation complex subunit	-1.11	4.82E-09
<i>PCT1</i>	Putative choline-phosphate cytidylyl transferase	-1.11	5.81E-06

<i>CAS4</i>	RAM cell wall integrity signaling network protein	-1.11	3.47E-09
<i>C4_01430C_A</i>	Protein of unknown function	-1.12	5.97E-06
<i>C1_12400C_A</i>	Ortholog of <i>Candida albicans</i> WO-1 : CAWG_00201	-1.12	4.40E-06
<i>GSL2</i>	Protein similar to beta-1,3-glucan synthase	-1.12	6.15E-06
<i>CCH1</i>	Voltage-gated Ca ²⁺ channel of the high affinity calcium uptake system	-1.13	2.72E-11
<i>USO1</i>	Ortholog(s) have role in ER to Golgi vesicle-mediated transport	-1.13	4.70E-07
<i>VPS36</i>	ESCRT II protein sorting complex subunit	-1.13	2.56E-08
<i>C1_10140C_A</i>	Protein of unknown function	-1.14	5.41E-06
<i>LSC1</i>	Putative succinate-CoA ligase subunit	-1.15	4.83E-06
<i>C4_06020C_A</i>	Ortholog(s) have DNA-directed DNA polymerase activity	-1.16	1.04E-10
<i>C3_06800C_A</i>	Ortholog(s) have NEDD8 transferase activity	-1.16	2.26E-06
<i>C1_12170C_A</i>	Ortholog(s) have cytoplasm localization	-1.17	2.67E-06
<i>MYO2</i>	Class V myosin	-1.17	3.75E-06
<i>C7_00140C_A</i>	Ortholog(s) have cytosol, nucleus localization	-1.17	2.59E-10
<i>CDC10</i>	Septin	-1.18	7.23E-06
<i>AGE1</i>	Putative GTPase activator	-1.18	1.37E-07
<i>C5_02050W_A</i>	Ortholog(s) have role in Golgi to endosome transport	-1.18	3.08E-10
<i>CR_09340W_A</i>	Ortholog(s) have ubiquitin conjugating enzyme activity	-1.19	5.25E-08
<i>C1_02440C_A</i>	Ortholog(s) have thiol-dependent ubiquitin-specific protease activity	-1.19	3.06E-06
<i>INP51</i>	Putative phosphatidylinositol-4,5-bisphosphate phosphatase	-1.19	1.13E-06
<i>DBR1</i>	Debranchase	-1.19	6.22E-08
<i>AYR1</i>	Putative oxidoreductase	-1.19	3.37E-06
<i>GIG1</i>	Protein induced by N-acetylglucosamine (GlcNAc	-1.20	3.36E-06
<i>SEN1</i>	Putative helicase	-1.20	4.61E-08
<i>IML2</i>	Protein of unknown function	-1.20	1.22E-07
<i>TUB1</i>	Alpha-tubulin	-1.21	2.30E-07
<i>TIP120</i>	protein involved in regulation of SCF complexes	-1.21	6.36E-06
<i>C5_01940W_A</i>	Ortholog(s) have 2,5-diamino-6-ribitylamino-4(3H)-pyrimidinone 5'-phosphate deaminase activity	-1.21	4.23E-09
<i>PTP3</i>	Putative protein tyrosine phosphatase	-1.21	1.17E-07
<i>CLA4</i>	Ste20p family Ser/Thr kinase	-1.21	3.92E-06
<i>CR_08430W_A</i>	A protein involved in regulated synthesis of PtdIns(3,5)P(2)	-1.21	5.04E-12
<i>C1_01400C_A</i>	Ortholog(s) have sphingosine-1-phosphate phosphatase activity	-1.23	1.72E-06
<i>TEL1</i>	Ortholog(s) have protein serine/threonine kinase activity	-1.23	3.29E-16
<i>C2_07650C_A</i>	Ortholog(s) have extracellular region localization	-1.24	9.75E-06
<i>C3_06750W_A</i>	Ortholog(s) have P-P-bond-hydrolysis-driven protein transmembrane transporter activity	-1.24	1.60E-06
<i>NPT1</i>	Putative nicotinate phosphoribosyltransferase	-1.25	3.21E-11
<i>BMT3</i>	Beta-mannosyltransferase	-1.26	1.29E-06

<i>CR_01080W_A</i>	Putative ortholog of <i>S. cerevisiae</i> Laa1p	-1.26	3.63E-07
<i>C1_08180C_A</i>	Putative oxysterol-binding protein	-1.26	5.83E-06
<i>RBK1</i>	Ortholog(s) have cytosol, nucleus localization	-1.27	3.72E-06
<i>C2_05720C_A</i>	Putative oxysterol binding protein family	-1.27	3.05E-13
<i>SEC7</i>	Putative guanine nucleotide exchange factor	-1.27	1.97E-11
<i>C4_06130W_A</i>	Ortholog(s) have tubulin binding activity	-1.28	3.86E-09
<i>C3_02080W_A</i>	Has domain(s) with predicted zinc ion binding activity	-1.28	1.09E-11
<i>C1_02770W_A</i>	Protein of unknown function	-1.29	7.82E-09
<i>KTR4</i>	Mannosyltransferase	-1.30	1.16E-07
<i>ARO80</i>	Zn(II)2Cys6 transcription factor	-1.30	3.47E-14
<i>COQ6</i>	Ortholog(s) have oxidoreductase activity	-1.31	1.17E-12
<i>C6_00890W_A</i>	Ortholog(s) have cytoplasm localization	-1.31	5.54E-09
<i>C6_01960W_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_62090	-1.32	6.36E-06
<i>CYK3</i>	Essential protein involved in cytokinesis	-1.32	1.76E-07
<i>SEC13</i>	Putative protein transport factor	-1.32	1.34E-07
<i>MPT5</i>	Putative RNA-binding protein	-1.34	1.22E-11
<i>ACF2</i>	Putative endo-1,3-beta-glucanase	-1.34	2.86E-07
<i>C3_07770C_A</i>	Ortholog(s) have microtubule binding, protein homodimerization activity	-1.34	1.29E-10
<i>BFR1</i>	Protein involved in the maintenance of normal ploidy	-1.34	4.07E-07
<i>LIG4</i>	DNA ligase	-1.35	5.14E-10
<i>C2_09480W_A</i>	Ortholog(s) have DNA-directed DNA polymerase activity	-1.35	2.03E-08
<i>RHO2</i>	Ortholog(s) have GTPase activity	-1.36	1.62E-07
<i>MRP8</i>	Mitochondrial ribosomal protein	-1.37	2.90E-06
<i>STT3</i>	Putative oligosaccharyltransferase complex component	-1.37	6.34E-07
<i>BZZ1</i>	SH3 domain protein involved in the regulation of actin polymerization	-1.39	2.23E-07
<i>RNR1</i>	Ribonucleotide reductase large subunit	-1.39	1.73E-06
<i>UBA4</i>	Putative ubiquitin activating protein	-1.39	1.33E-11
<i>C4_01280C_A</i>	Ortholog(s) have RNA binding activity	-1.39	3.79E-10
<i>C1_14170W_A</i>	Ortholog(s) have ubiquitin-protein transferase activity	-1.40	1.73E-10
<i>CR_02880W_A</i>	Protein of unknown function	-1.40	4.55E-06
<i>SCT2</i>	Putative glycerol-3-phosphate acyltransferase;	-1.40	2.26E-08
<i>MYO1</i>	Component of actomyosin ring at neck of newly emerged bud	-1.40	1.59E-14
<i>CHS5</i>	Putative chitin biosynthesis protein	-1.42	5.94E-08
<i>C2_00230W_A</i>	Ortholog(s) have arginyltransferase activity	-1.42	1.84E-10
<i>CR_00130C_A</i>	Protein with a pyridoxal phosphate-dependent transferase domain	-1.44	7.24E-06
<i>SMP2</i>	Putative Mg ²⁺ -dependent phosphatidate phosphatase	-1.45	4.40E-07
<i>C1_07260C_A</i>	Ortholog(s) have DNA replication origin binding, single-stranded DNA binding activity	-1.46	1.16E-21
<i>PMM1</i>	Phosphomannomutase	-1.46	7.69E-08
<i>C1_01930W_A</i>	Protein of unknown function	-1.47	2.13E-06

<i>SET3</i>	NAD-dependent histone deacetylase	-1.47	2.72E-11
<i>BET2</i>	Putative Type II geranylgeranyltransferase beta subunit	-1.48	5.13E-12
<i>CR_02300C_A</i>	Protein with a Vps9 vacuolar protein sorting protein domain	-1.48	2.37E-13
<i>PDS5</i>	Putative protein with a predicted role in establishment and maintenance of sister chromatid condensation and cohesion	-1.49	1.04E-07
<i>NCP1</i>	NADPH-cytochrome P450 reductase	-1.49	1.30E-12
<i>C3_06710W_A</i>	Protein of unknown function	-1.50	1.83E-18
<i>FAS2</i>	Alpha subunit of fatty-acid synthase	-1.50	4.22E-06
<i>C3_04460W_A</i>	Ortholog(s) have role in positive regulation of TORC1 signaling and Seh1-associated complex	-1.50	2.82E-08
<i>USO6</i>	Putative vesicular transport protein	-1.50	1.83E-13
<i>CDC3</i>	Septin	-1.51	8.19E-12
<i>BTS1</i>	Putative geranylgeranyl diphosphate synthase	-1.51	8.03E-12
<i>MAE1</i>	Malic enzyme	-1.51	3.13E-07
<i>CYB5</i>	Cytochrome b(5)	-1.53	4.28E-06
<i>CR_01280C_A</i>	Ortholog(s) have role in intracellular sterol transport	-1.54	5.24E-08
<i>C1_03100W_A</i>	Putative lipid-binding protein	-1.55	9.48E-09
<i>GTT11</i>	Glutathione S-transferase	-1.55	7.07E-10
<i>SVF1</i>	Putative survival factor	-1.55	1.49E-11
<i>C6_02680W_A</i>	Ortholog(s) have SNAP receptor activity	-1.56	3.17E-08
<i>C5_04350C_A</i>	Ortholog(s) have cell division site, cell tip, cytosol, nucleus localization	-1.56	2.51E-12
<i>C1_06700W_A</i>	SH3-domain protein	-1.56	2.23E-07
<i>ECM33</i>	GPI-anchored cell wall protein	-1.57	1.85E-08
<i>DYN1</i>	Dynein heavy chain	-1.57	4.37E-19
<i>PMT2</i>	Protein mannosyltransferase (PMT)	-1.57	1.26E-08
<i>C5_04330W_A</i>	Putative adhesin-like protein	-1.57	2.36E-06
<i>C4_06990W_A</i>	Possible mannosyltransferase	-1.59	4.86E-14
<i>PGA53</i>	GPI-anchored cell surface protein of unknown function	-1.59	1.41E-07
<i>YKE2</i>	Possible heterohexameric Gim/prefoldin protein complex subunit	-1.60	1.48E-06
<i>PRN4</i>	Protein with similarity to pirins	-1.60	3.43E-06
<i>C4_00710W_A</i>	Has domain(s) with predicted ATP binding activity	-1.60	1.91E-08
<i>C6_01950C_A</i>	Protein of unknown function	-1.61	1.44E-07
<i>C1_07050C_A</i>	Ortholog(s) have ATP-dependent 5'-3' DNA helicase activity	-1.61	1.09E-11
<i>C1_09220W_A</i>	Predicted MFS family membrane transporter	-1.63	1.03E-09
<i>RAD50</i>	Putative DNA double-strand break repair factor	-1.64	1.94E-11
<i>CDC11</i>	Septin	-1.65	4.36E-06
<i>C3_03370C_A</i>	Protein of unknown function	-1.67	7.02E-10
<i>C6_02490C_A</i>	Protein of unknown function	-1.68	5.17E-10
<i>PGI1</i>	Glucose-6-phosphate isomerase	-1.68	4.50E-06
<i>CR_06270W_A</i>	Predicted protein of unknown function	-1.69	1.81E-06

<i>ENO1</i>	Enolase	-1.69	7.99E-06
<i>C6_02650C_A</i>	Predicted membrane transporter	-1.69	1.97E-10
<i>C2_08620W_A</i>	Protein of unknown function	-1.71	1.09E-09
<i>CR_00290W_A</i>	Ortholog of <i>S. cerevisiae</i> Rts3; a component of the protein phosphatase type 2A complex	-1.71	1.53E-12
<i>MON2</i>	Peripheral membrane protein	-1.72	1.03E-10
<i>CLN3</i>	G1 cyclin	-1.73	4.62E-07
<i>SEC61</i>	ER protein-translocation complex subunit	-1.73	7.05E-06
<i>C1_11120C_A</i>	Protein similar to <i>S. cerevisiae</i> Gvp36p	-1.74	7.21E-20
<i>REV3</i>	Ortholog(s) have DNA-directed DNA polymerase activity	-1.74	7.15E-11
<i>CDC12</i>	Septin	-1.75	2.88E-11
<i>FBA1</i>	Fructose-bisphosphate aldolase	-1.76	1.55E-09
<i>KRE5</i>	UDP-glucose:glycoprotein glucosyltransferase	-1.77	8.50E-08
<i>EXG2</i>	GPI-anchored cell wall protein	-1.78	3.25E-09
<i>C7_02850W_A</i>	Ortholog of <i>Candida albicans</i> WO-1 : CAWG_05627	-1.78	1.26E-12
<i>SEC23</i>	Putative GTPase-activating protein	-1.78	4.88E-08
<i>C1_02780W_A</i>	Predicted diene lactone hydrolase domain	-1.79	1.24E-08
<i>FCY2</i>	Purine-cytosine permease of pyrimidine salvage	-1.82	2.03E-07
<i>C4_05250W_A</i>	Putative ubiquitin-protein ligase	-1.83	2.58E-09
<i>C5_03490C_A</i>	Stationary phase enriched protein	-1.83	8.07E-17
<i>AGO1</i>	Putative Argonaute protein	-1.83	2.64E-06
<i>C1_11250W_A</i>	Microtubule-binding protein	-1.84	6.83E-15
<i>C5_02520W_A</i>	Protein of unknown function	-1.85	1.94E-11
<i>MTS1</i>	Sphingolipid C9-methyltransferase	-1.85	7.43E-12
<i>C1_09130W_A</i>	Protein of unknown function	-1.86	3.11E-09
<i>PMI1</i>	Phosphomannose isomerase	-1.87	2.84E-07
<i>ACB1</i>	Protein similar to a region of acyl-coenzyme-A-binding protein	-1.88	2.34E-06
<i>PMT4</i>	Protein mannosyltransferase	-1.89	2.35E-07
<i>NAT4</i>	Putative histone acetyltransferase	-1.90	1.69E-10
<i>STE13</i>	Putative pheromone-processing dipeptidyl aminopeptidase	-1.92	8.23E-16
<i>CR_09330C_A</i>	Protein with a Staphylococcal nuclease domain	-1.93	1.40E-11
<i>C5_02850W_A</i>	H/ACA box small nucleolar RNA (snoRNA)	-1.94	5.62E-08
<i>C2_02220C_A</i>	Protein of unknown function	-1.94	3.76E-07
<i>TPM2</i>	Putative tropomyosin isoform 2	-1.95	2.44E-09
<i>PSD2</i>	Ortholog(s) have phosphatidylserine decarboxylase activity	-1.95	3.88E-22
<i>TPK2</i>	cAMP-dependent protein kinase catalytic subunit	-1.96	8.11E-11
<i>DPM1</i>	Dolichol-phosphate mannose synthase catalytic subunit	-1.98	2.55E-11
<i>SSO2</i>	Plasma membrane t-SNARE	-1.98	3.53E-30
<i>C1_04470C_A</i>	Protein of unknown function	-2.00	1.35E-10
<i>INN1</i>	Protein with similarity to <i>S. cerevisiae</i> Inn1p	-2.02	1.71E-29
<i>PST3</i>	Flavodoxin-like protein	-2.02	1.62E-06
<i>CDC19</i>	Pyruvate kinase	-2.04	1.43E-09

<i>ERG11</i>	Lanosterol 14-alpha-demethylase	-2.04	1.72E-07
<i>DAP1</i>	Similar to mammalian membrane-associated progesterone receptors involved in DNA damage response	-2.08	7.04E-21
<i>C2_07220W_A</i>	Putative 20S proteasome assembly protein	-2.10	3.22E-11
<i>GST3</i>	Glutathione S-transferase	-2.11	7.62E-06
<i>YVC1</i>	Putative vacuolar cation channel shock	-2.13	1.40E-14
<i>CEK1</i>	ERK-family protein kinase	-2.14	9.93E-15
<i>C7_01390W_A</i>	Protein of unknown function	-2.16	2.02E-07
<i>CRL1</i>	Predicted GTPase of RHO family	-2.16	2.30E-24
<i>ERG2</i>	C-8 sterol isomerase	-2.18	7.43E-12
<i>CR_09040W_A</i>	Protein of unknown function	-2.18	5.37E-08
<i>GND1</i>	6-phosphogluconate dehydrogenase	-2.19	2.01E-06
<i>C3_04420W_A</i>	Ortholog of <i>S. cerevisiae</i> Hul4	-2.19	9.81E-12
<i>SLD1</i>	Sphingolipid delta-8 desaturase	-2.20	1.06E-17
<i>MSC7</i>	<i>S. cerevisiae</i> ortholog Mcs7	-2.23	8.80E-52
<i>NIP100</i>	p150 subunit of dynactin	-2.25	6.27E-12
<i>C3_04740C_A</i>	Ortholog(s) have DNA topoisomerase type I activity	-2.26	1.94E-11
<i>C2_09810C_A</i>	Protein with predicted peptidase domains	-2.27	1.69E-07
<i>CR_04870C_A</i>	Trimethylaminobutyraldehyde dehydrogenase	-2.27	3.11E-09
<i>MNN12</i>	Predicted alpha-1,3-mannosyltransferase	-2.27	1.01E-09
<i>SOD4</i>	Cu-containing superoxide dismutase	-2.30	2.10E-08
<i>MLC1</i>	Microtubule-dependent localized protein	-2.30	5.78E-18
<i>GAL4</i>	Zn(II)2Cys6 transcription factor	-2.31	3.58E-13
<i>GFA1</i>	Glucosamine-6-phosphate synthase	-2.31	1.18E-13
<i>LAP41</i>	Putative aminopeptidase yscI precursor	-2.31	6.47E-11
<i>C5_01070C_A</i>	Protein of unknown function	-2.34	6.20E-08
<i>C1_11790W_A</i>	Ortholog(s) have thymidylate kinase activity	-2.36	7.23E-16
<i>ZWF1</i>	Glucose-6-phosphate dehydrogenase	-2.36	2.18E-08
<i>ERG5</i>	Putative C-22 sterol desaturase	-2.37	3.22E-11
<i>C4_00860C_A</i>	Protein of unknown function	-2.38	4.82E-11
<i>C1_09980C_A</i>	Ortholog(s) have acylglycerol lipase activity	-2.41	1.63E-09
<i>ERG27</i>	3-Keto sterol reductase of ergosterol biosynthesis	-2.42	5.26E-14
<i>PGA54</i>	GPI-anchored protein	-2.43	1.37E-10
<i>CHS8</i>	Chitin synthase	-2.43	4.32E-19
<i>CR_04770C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_30140	-2.43	3.73E-18
<i>CHS2</i>	Chitin synthase	-2.46	2.51E-41
<i>C6_03320W_A</i>	Stationary phase enriched protein	-2.47	1.43E-06
<i>C1_04580C_A</i>	Ortholog of Rmd6 involved in <i>S. cerevisiae</i> sporulation	-2.48	1.05E-19
<i>CR_09070C_A</i>	Protein of unknown function	-2.49	5.32E-17
<i>ERG10</i>	Acetyl-CoA acetyltransferase	-2.49	1.94E-11
<i>C1_11730W_A</i>	Protein with SEL-1 like protein domain	-2.50	3.63E-25
<i>C1_11720W_A</i>	Ortholog of <i>Candida albicans</i> WO-1 : CAWG_00265	-2.51	7.55E-10
<i>UPC2</i>	Zn2-Cys6 transcript factor	-2.55	3.81E-41

<i>C3_06670C_A</i>	Protein of unknown function	-2.55	2.39E-06
<i>C4_01860C_A</i>	Possible Golgi membrane protein	-2.56	1.24E-11
<i>CR_04120C_A</i>	Ortholog(s) have DNA-dependent ATPase activity	-2.61	1.81E-17
<i>C1_11260C_A</i>	Putative adhesin-like protein	-2.66	2.18E-14
<i>ERG1</i>	Squalene epoxidase	-2.68	8.42E-31
<i>C5_04260W_A</i>	Has domain(s) with predicted RNA binding	-2.68	2.26E-08
<i>ERG26</i>	C-3 sterol dehydrogenase	-2.68	8.72E-20
<i>IHD1</i>	GPI-anchored protein	-2.75	1.98E-06
<i>C6_02200C_A</i>	Protein of unknown function	-2.75	1.83E-07
<i>CHO1</i>	Putative phosphatidylserine synthase	-2.80	1.92E-15
<i>PGA6</i>	GPI-anchored cell wall adhesin-like protein	-2.81	3.29E-09
<i>C7_02260W_A</i>	Ortholog of <i>C. parapsilosis</i> CDC317	-2.85	1.13E-06
<i>C1_13490C_A</i>	Ortholog(s) have role in cellular calcium ion homeostasis	-2.90	1.74E-35
<i>LDG3</i>	Putative LDG family protein	-2.90	3.08E-06
<i>ECM331</i>	GPI-anchored protein	-2.93	2.62E-11
<i>C2_02910W_A</i>	Protein of unknown function	-3.03	6.12E-12
<i>BMT7</i>	Beta-mannosyltransferase	-3.04	3.11E-13
<i>C6_03260W_A</i>	Putative ribonuclease H1	-3.06	1.15E-20
<i>RBT4</i>	Pry family protein	-3.10	1.73E-11
<i>ERG4</i>	Protein similar to sterol C-24 reductase	-3.10	1.64E-11
<i>DAG7</i>	Secretory protein	-3.19	1.06E-09
<i>C6_02100W_A</i>	Secreted protein	-3.21	8.98E-09
<i>ERG24</i>	C-14 sterol reductase	-3.25	3.37E-29
<i>IPK2</i>	Putative inositol polyphosphate multikinase	-3.46	2.13E-39
<i>C7_03310W_A</i>	Protein of unknown function	-3.59	2.59E-10
<i>RBR1</i>	Glycosylphosphatidylinositol (GPI)-anchored cell wall protein	-3.60	2.87E-12
<i>ERG6</i>	Delta(24)-sterol C-methyltransferase	-3.70	1.37E-25
<i>DDR48</i>	Immunogenic stress-associated protein	-3.78	1.95E-14
<i>C1_04590W_A</i>	Protein of unknown function	-3.79	2.46E-29
<i>HWP1</i>	Hyphal cell wall protein	-4.10	7.81E-10
<i>C3_06660C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_86630	-4.16	3.09E-10
<i>PGA45</i>	Putative GPI-anchored cell wall protein	-4.19	2.22E-13
<i>C2_10160W_A</i>	Secreted protein	-4.45	2.94E-28
<i>PGA23</i>	Putative GPI-anchored protein of unknown function	-4.52	3.16E-23
<i>CRH11</i>	GPI-anchored cell wall transglycosylase	-4.67	2.00E-30
<i>MRV8</i>	Protein of unknown function	-5.46	4.10E-22
<i>PGA13</i>	GPI-anchored cell wall protein involved in cell wall synthesis	-5.67	2.51E-41
<i>C3_01540W_A</i>	Plasma-membrane-localized protein	-6.68	5.72E-43

Supplementary Table S6: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with C12AHL compared to fluconazole only treated samples. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted p -value < $1e^{-5}$).

Name	annotation	log2 Fold Change	Adjusted P value
<i>JEN2</i>	Dicarboxylic acid transporter	5.30	9.71E-47
<i>ATX1</i>	Putative cytosolic copper metallochaperone	4.96	4.99E-48
<i>RME1</i>	Zinc finger protein	3.94	2.76E-27
<i>CRP1</i>	Copper transporter	3.84	6.55E-26
<i>HSP30</i>	Putative heat shock protein	3.77	4.01E-14
<i>IFE2</i>	Putative alcohol dehydrogenase	3.61	7.29E-14
<i>OPT3</i>	Oligopeptide transporter	3.59	2.19E-30
<i>ADH3</i>	Putative NAD-dependent (R,R)-butanediol dehydrogenase	3.51	3.26E-10
<i>C1_11320C_A</i>	Protein of unknown function	3.50	2.29E-18
<i>HSP104</i>	Heat-shock protein	3.41	5.31E-16
<i>C5_04980W_A</i>	Putative adhesin-like protein	3.40	8.25E-17
<i>PHO84</i>	High-affinity phosphate transporter	3.38	3.55E-11
<i>FCY21</i>	High affinity, high capacity, hypoxanthine-adenine-guanine-cytosine/H ⁺ symporter	3.33	5.32E-17
<i>HSP78</i>	Heat-shock protein	3.32	4.14E-20
<i>HNM3</i>	Putative transporter	3.29	5.02E-12
<i>TPO3</i>	Putative polyamine transporter	3.28	5.64E-19
<i>CDR4</i>	Putative ABC transporter superfamily	3.19	3.03E-40
<i>UGT51C1</i>	UDP-glucose: sterol glucosyltransferase	3.03	1.65E-38
<i>C7_03560W_A</i>	Protein of unknown function	3.02	1.07E-28
<i>ZRT2</i>	Zinc transporter	3.02	3.64E-15
<i>C7_00350C_A</i>	Protein of unknown function	3.02	2.71E-10
<i>C4_07140W_A</i>	Predicted mitochondrial intermembrane space protein	2.94	1.58E-19
<i>CTN1</i>	Carnitine acetyl transferase	2.90	6.21E-11
<i>SSA2</i>	HSP70 family chaperone	2.86	2.44E-09
<i>CR_08270W_A</i>	Protein of unknown function	2.84	1.35E-06
<i>GCV2</i>	Glycine decarboxylase P subunit	2.84	2.36E-10
<i>ALP1</i>	Cystine transporter	2.80	6.01E-12
<i>HSP21</i>	Small heat shock protein	2.72	2.65E-08
<i>FMP45</i>	Predicted membrane protein induced during mating	2.68	5.50E-08
<i>DLD1</i>	Putative D-lactate dehydrogenase	2.60	3.81E-12
<i>CAN1</i>	Basic amino acid permease	2.59	3.90E-08
<i>C6_00810C_A</i>	Protein of unknown function	2.59	7.90E-09
<i>SIT1</i>	Transporter of ferrichrome siderophores	2.57	4.54E-08
<i>C1_07160C_A</i>	Protein conserved among the CTG-clade	2.51	6.56E-08
<i>C1_08350C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_02630	2.44	8.75E-15
<i>RBE1</i>	Pry family cell wall protein	2.37	1.16E-06
<i>C2_00760C_A</i>	Protein of unknown function	2.29	1.47E-11
<i>AQY1</i>	Aquaporin water channel	2.27	8.18E-09
<i>GIT3</i>	Glycerophosphocholine permease	2.25	9.75E-12
<i>CR_08880C_A</i>	Protein of unknown function	2.24	1.67E-12
<i>C7_01170C_A</i>	Putative oxidoreductase	2.23	2.39E-06
<i>C2_03110W_A</i>	Protein of unknown function	2.23	7.53E-10
<i>C7_04090C_A</i>	Predicted mitochondrial cardiolipin-specific phospholipase	2.22	3.03E-10
<i>ARG1</i>	Argininosuccinate synthase	2.18	1.91E-07
<i>CTA4</i>	Zn(II)2Cys6 transcription factor	2.16	2.65E-10

	Ortholog(s) have protein binding, bridging, ubiquitin protein ligase binding activity	2.15	1.45E-08
<i>RPS27A</i>	Ribosomal protein S27	2.13	8.62E-09
<i>GNP1</i>	Similar to asparagine and glutamine permease	2.11	4.72E-14
<i>MUP1</i>	Putative high affinity methionine permease	2.09	1.06E-06
<i>SIS1</i>	Putative Type II HSP40 co-chaperone	2.09	1.49E-07
<i>CDR11</i>	Putative transporter of PDR subfamily of ABC family	2.09	1.23E-16
<i>C6_00290W_A</i>	Protein of unknown function	2.08	1.44E-13
<i>GOR1</i>	Ortholog(s) have glyoxylate reductase activity	2.06	2.31E-08
<i>C7_00770W_A</i>	Protein of unknown function	2.05	3.57E-08
<i>CAN3</i>	Predicted amino acid transmembrane transporter	2.05	1.34E-12
<i>SNQ2</i>	Protein similar to <i>S. cerevisiae</i> Snq2p transporter	2.04	2.27E-12
<i>PHO87</i>	Putative phosphate permease	2.02	1.24E-08
<i>SSC1</i>	Heat shock protein	2.01	8.61E-17
<i>CPH2</i>	Myc-bHLH transcription factor	1.96	1.30E-15
<i>C2_08100W_A</i>	Mitochondrial apoptosis-inducing factor	1.96	1.92E-06
<i>ALR1</i>	Putative transporter of divalent cations	1.95	9.50E-06
<i>CR_08420W_A</i>	Putative DnaJ-like heat shock/chaperone	1.93	6.87E-06
<i>C1_13820C_A</i>	Protein of unknown function	1.92	8.60E-08
<i>C7_00880C_A</i>	Protein of unknown function	1.91	2.35E-09
<i>COX15</i>	Cytochrome oxidase assembly protein	1.91	8.42E-09
<i>GIT2</i>	Putative glycerophosphoinositol permease	1.90	2.56E-08
<i>C3_01260C_A</i>	Putative adhesin-like protein	1.89	2.31E-08
<i>C4_03370C_A</i>	Ortholog of <i>C. parapsilosis</i> CDC317 : CPAR2_403360	1.88	7.31E-07
<i>C1_01130W_A</i>	Putative ubiquitin ligase complex component	1.88	5.64E-19
<i>GRF10</i>	Putative homeodomain transcription factor	1.86	8.93E-08
<i>PUT1</i>	Putative proline oxidase	1.85	4.85E-07
<i>CAL0000191350</i>	Ortholog(s) have ATP binding, DNA replication origin binding activity	1.84	2.14E-12
<i>NDT80</i>	Ortholog of Ndt80	1.83	2.15E-09
<i>SUL2</i>	Putative sulfate transporter	1.83	1.20E-08
<i>C7_03590C_A</i>	Putative member of the multi-drug and toxin extrusion (MATE) family	1.82	4.86E-06
<i>ITR1</i>	MFS inositol transporter	1.80	3.55E-09
<i>DED1</i>	Predicted ATP-dependent RNA helicase	1.79	3.07E-07
<i>PTR22</i>	Oligopeptide transporter involved in uptake of di-/tripeptides	1.78	1.88E-06
<i>C6_03200W_A</i>	Ortholog of <i>C. dubliniensis</i> CD36: Cd36_63860	1.78	2.34E-12
<i>ARD</i>	D-arabitol dehydrogenase	1.77	3.88E-16
<i>C4_05900C_A</i>	Protein of unknown function	1.77	6.46E-12
<i>STI1</i>	Protein that interacts with Cdc37 and Crk1 in two-hybrid	1.77	1.19E-06
<i>PLB3</i>	GPI-anchored cell surface phospholipase B	1.77	6.28E-07
<i>ALS7</i>	ALS family protein	1.75	6.00E-22
<i>CR_07170W_A</i>	Possible dehydrogenase	1.73	1.17E-08
<i>HSP90</i>	Essential chaperone	1.72	6.74E-07
<i>C5_02590C_A</i>	Putative mitochondrial membrane protein	1.71	2.26E-06
<i>MET2</i>	Homoserine acetyltransferase	1.70	1.71E-06
<i>HSP60</i>	Heat shock protein	1.70	1.49E-12
<i>YIM1</i>	Protein similar to protease of mitochondrial inner membrane	1.69	9.97E-07
<i>KGD1</i>	Putative 2-oxoglutarate dehydrogenase	1.68	1.23E-06
<i>ROA1</i>	Putative PDR-subfamily ABC transporter	1.62	2.65E-07

<i>PDE2</i>	High affinity cyclic nucleotide phosphodiesterase	1.62	1.52E-08
<i>HAL9</i>	Putative Zn(II)2Cys6 transcription factor	1.61	3.46E-11
<i>C3_00840C_A</i>	Ortholog(s) have mitochondrion localization	1.60	8.66E-06
<i>MDJ1</i>	Putative member of the HSP40 (DnaJ) family of chaperones	1.59	3.15E-06
<i>DCK1</i>	Putative guanine nucleotide exchange factor	1.57	9.29E-06
<i>GAP5</i>	General amino acid permease	1.57	1.27E-06
<i>CR_03120W_A</i>	Ortholog of <i>S. cerevisiae</i> Mpm1	1.57	1.62E-13
<i>C1_05520W_A</i>	Protein of unknown function	1.56	2.73E-06
<i>RNR3</i>	Putative ribonucleotide reductase large subunit	1.56	5.67E-09
<i>MNN22</i>	Alpha-1,2-mannosyltransferase	1.56	5.89E-11
<i>C1_08520C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.55	1.38E-10
<i>RIM101</i>	Transcription factor	1.54	3.88E-08
<i>C2_10090C_A</i>	Ortholog(s) have mitochondrion localization	1.54	5.89E-08
<i>RIM2</i>	Putative mitochondrial carrier protein	1.54	4.81E-07
<i>ROD1</i>	Protein similar to <i>S. cerevisiae</i> Rod1	1.52	9.08E-06
<i>C6_01620W_A</i>	RING/FYVE/PHD zinc finger protein	1.52	5.36E-11
<i>C6_03440W_A</i>	Ortholog(s) have rRNA binding activity	1.52	7.14E-09
<i>SSY1</i>	Amino acid sensor	1.50	1.12E-06
<i>TUF1</i>	Translation elongation factor TU	1.49	5.38E-07
<i>ZCF29</i>	Zn(II)2Cys6 transcription factor	1.49	3.87E-11
<i>MIF2</i>	Centromere-associated protein	1.48	3.07E-20
<i>CR_03940W_A</i>	Putative rRNA processing protein	1.47	3.18E-07
<i>C5_00570W_A</i>	Putative aminophospholipid translocase (flippase)	1.46	8.94E-06
<i>TIM23</i>	Protein involved in mitochondrial matrix protein import	1.44	3.55E-11
<i>HRR25</i>	Predicted protein serine/threonine kinase	1.43	1.41E-06
<i>C2_04790C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.40	1.16E-07
<i>C5_02740W_A</i>	Ortholog(s) have oxidoreductase activity	1.40	3.97E-11
<i>C2_02180W_A</i>	Ortholog of <i>S. cerevisiae</i> Zrt3	1.39	5.74E-11
<i>MGE1</i>	Putative mitochondrial matrix cochaperone	1.38	4.07E-06
<i>RSN1</i>	Protein of unknown function	1.38	1.10E-09
<i>C1_14190C_A</i>	Protein phosphatase inhibitor	1.37	3.89E-06
<i>C1_01150C_A</i>	Ortholog(s) have tRNA methyltransferase activity	1.37	2.44E-06
<i>WSC1</i>	Putative cell wall component	1.35	1.52E-08
<i>ISW2</i>	Ortholog of <i>S. cerevisiae</i> Isw2	1.35	1.37E-06
<i>RIM9</i>	Protein required for alkaline pH response	1.33	2.29E-08
<i>HIP1</i>	Amino acid permeases	1.33	8.59E-11
<i>C3_01850W_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.32	3.94E-06
<i>CWC22</i>	Predicted spliceosome-associated protein	1.32	8.07E-10
<i>C5_04050W_A</i>	Plasma membrane-localized protein of unknown function	1.30	2.88E-06
<i>C4_03410W_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.30	6.53E-10
<i>MSW1</i>	Protein similar to <i>S. cerevisiae</i> Msw1p	1.30	3.88E-10
<i>C1_06350W_A</i>	Protein of unknown function	1.27	4.81E-07
<i>GIS2</i>	Translational activator for mRNAs with internal ribosome entry sites	1.27	2.88E-06
<i>PTC8</i>	Predicted type 2C protein phosphatase	1.26	3.05E-06
<i>CTA2</i>	Putative transcription factor	1.25	6.22E-07
<i>C2_03490C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_18230	1.25	8.79E-08
<i>MRPL10</i>	Putative mitochondrial large subunit ribosomal protein	1.22	6.50E-06
<i>SSU81</i>	Predicted adaptor protein	1.21	1.37E-06

<i>MNN23</i>	Alpha-1,2-mannosyltransferase	1.21	4.86E-06
<i>C1_14090W_A</i>	Ortholog(s) have chaperone binding, unfolded protein binding activity	1.21	2.02E-07
<i>C5_00250C_A</i>	Protein with a predicted role in microtubule-related processes	1.19	2.61E-06
<i>MIA40</i>	Predicted component of the mitochondrial intermembrane space import machinery	1.18	1.24E-06
<i>FLO8</i>	Transcription factor	1.16	3.40E-06
<i>FGR15</i>	Putative transcription factor with zinc finger DNA-binding motif	1.16	8.13E-08
<i>MIH1</i>	Putative protein phosphatase of the PTP family (tyrosine-specific)	1.14	7.23E-06
<i>C7_03000C_A</i>	Ortholog(s) have structural constituent of ribosome activity	1.14	1.46E-07
<i>WHI3</i>	Putative RNA binding protein	1.13	6.19E-06
<i>C1_14330W_A</i>	Ortholog(s) have tRNA-5-taurinomethyluridine 2-sulfurtransferase activity	1.11	9.12E-06
<i>ALS6</i>	ALS family protein	1.10	1.42E-08
<i>C2_07440C_A</i>	Ortholog(s) have sterol esterase activity	1.10	9.29E-07
<i>C1_05210C_A</i>	Protein of unknown function	1.09	1.52E-06
<i>C7_01910C_A</i>	Similar to bacterial DnaJ	1.08	8.13E-08
<i>ADA2</i>	Zinc finger and homeodomain transcriptional coactivator	1.08	2.42E-06
<i>YOR1</i>	Protein similar to <i>S. cerevisiae</i> Yor1	1.03	2.98E-07
<i>CR_03110W_A</i>	Ortholog(s) have role in mitochondrial translation	1.02	1.63E-06
<i>C4_00910C_A</i>	Protein with similarity to mutator-like element (MULE) transposase	1.01	6.12E-08
<i>CR_10420W_A</i>	Protein with a mitochondrial distribution and morphology domain	0.99	1.99E-06
<i>C1_13880C_A</i>	C2H2 transcription factor	0.95	9.55E-06
<i>C6_00390W_A</i>	Ortholog(s) have serine-tRNA ligase activity	0.90	4.48E-07
<i>C4_03780C_A</i>	Putative mitochondrial membrane protein	0.84	6.06E-06
<i>AFG3</i>	Similar to <i>S. cerevisiae</i> Afg3p	0.81	2.26E-08
<i>C2_00730C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_15670	0.80	2.51E-11
<i>SWI6</i>	Putative component of the MBF and SBF transcription complexes	0.74	1.72E-07
<i>WAR1</i>	Zn(II)2Cys6 transcription factor	0.74	1.63E-06
<i>PDR6</i>	Putative pleiotropic drug resistance regulatory protein 6	0.67	3.90E-07
<i>ZCF9</i>	Putative Zn(II)2Cys6 transcription factor	-0.59	1.73E-06
<i>C5_03940C_A</i>	Putative multidrug resistance protein	-0.66	9.64E-07
<i>C3_01510W_A</i>	Ortholog(s) have phosphatidate phosphatase activity	-0.74	6.33E-06
<i>VPS8</i>	Putative vacuolar sorting protein	-0.76	5.73E-09
<i>CR_01130W_A</i>	Ortholog(s) have role in positive regulation of TORC1 signaling and Seh1-associated complex	-0.80	4.39E-06
<i>SEC34</i>	Ortholog(s) have protein transporter activity and role in CVT pathway	-0.80	7.00E-06
<i>RLM1</i>	Putative transcription factor	-0.81	2.97E-06
<i>APL5</i>	Ortholog of <i>S. cerevisiae</i> and <i>S. pombe</i> Apl5	-0.83	5.54E-06
<i>CWH43</i>	Putative sensor/transporter protein	-0.85	4.81E-06
<i>PSD1</i>	Phosphatidylserine decarboxylase	-0.86	2.91E-06
<i>TAF60</i>	Putative TFIID and SAGA complex subunit	-0.86	6.04E-06
<i>PKH2</i>	Putative serine/threonine protein kinase	-0.87	2.55E-06
<i>C2_01490C_A</i>	Putative RNA polymerase transcription factor TFIIH core component	-0.87	2.11E-06
<i>POM152</i>	Putative nuclear pore membrane glycoprotein	-0.91	7.60E-07
<i>C5_04320C_A</i>	RNI-like superfamily domain-containing protein	-0.92	5.20E-06
<i>C1_12740W_A</i>	Predicted cysteine proteinase domain	-0.95	5.88E-07
<i>C5_01350W_A</i>	Ortholog(s) have role in ER-dependent peroxisome organization	-0.96	2.51E-06
<i>C3_02080W_A</i>	Has domain(s) with predicted zinc ion binding activity	-0.96	5.65E-07

<i>C1_04780C_A</i>	Ortholog(s) have role in negative regulation of TORC1 signaling	-0.97	1.79E-11
<i>RAD7</i>	Protein similar to <i>S. cerevisiae</i> Rad7p	-0.98	1.35E-06
<i>C3_02690C_A</i>	Ortholog(s) have dolichol kinase activity	-0.98	5.02E-06
<i>VPS36</i>	ESCRT II protein sorting complex subunit	-0.98	1.99E-06
<i>C4_01790W_A</i>	Adapter protein for pexophagy and the cytoplasm-to-vacuole targeting (Cvt) pathway	-0.99	1.12E-07
<i>TEL1</i>	Ortholog(s) have protein serine/threonine kinase activity	-0.99	9.83E-11
<i>SHE3</i>	mRNA-binding protein	-0.99	1.09E-06
<i>CR_06470W_A</i>	Ortholog(s) have ubiquitin protein ligase activity	-1.00	6.12E-06
<i>C5_01290C_A</i>	Ortholog(s) have 2-octoprenyl-3-methyl-6-methoxy-1,4-benzoquinone hydroxylase activity	-1.00	3.21E-06
<i>ORC3</i>	Protein similar to <i>S. cerevisiae</i> Orc3p	-1.01	1.20E-08
<i>CR_08550W_A</i>	Ortholog(s) have fructose-2,6-bisphosphate 2-phosphatase activity	-1.02	2.80E-07
<i>CAS4</i>	RAM cell wall integrity signaling network protein	-1.02	9.78E-08
<i>C4_00380W_A</i>	Ortholog(s) have D-arabinose 1-dehydrogenase [NAD(P)+] activity	-1.02	1.72E-07
<i>SMF3</i>	Putative vacuolar iron transporter	-1.04	1.80E-07
<i>C5_00750C_A</i>	Predicted protein tyrosine phosphatase	-1.04	3.34E-07
<i>CR_05890C_A</i>	Ortholog(s) have acetyltransferase activator activity	-1.05	8.35E-08
<i>C4_06740C_A</i>	Ortholog(s) have protein binding, bridging activity	-1.06	8.51E-07
<i>C3_07230W_A</i>	Aminophospholipid translocase (flippase)	-1.06	2.88E-12
<i>RTA2</i>	Flippase	-1.06	9.25E-09
<i>C7_04210C_A</i>	Protein similar to <i>Aspergillus</i> CYSK O-acetylserine sulfhydrylase	-1.08	3.29E-06
<i>HEM2</i>	Putative porphobilinogen synthase	-1.08	2.42E-07
<i>SOL3</i>	Putative 6-phosphogluconolactonase	-1.09	8.75E-06
<i>MKC1</i>	MAP kinase	-1.09	2.28E-07
<i>C4_05800C_A</i>	Protein of unknown function	-1.10	3.99E-06
<i>ERV46</i>	Putative ER-derived vesicle protein	-1.10	8.60E-08
<i>PGA63</i>	Component COPII vesicle coat	-1.10	9.85E-07
<i>C2_02020W_A</i>	Ortholog(s) have Lys48-specific deubiquitinase activity	-1.11	1.12E-06
<i>C1_04230W_A</i>	Ortholog(s) have ubiquitin binding activity	-1.12	4.50E-07
<i>C5_01090C_A</i>	Planktonic growth-induced gene	-1.12	7.69E-06
<i>C4_06020C_A</i>	Ortholog(s) have DNA-directed DNA polymerase activity	-1.13	3.61E-10
<i>CR_09340W_A</i>	Ortholog(s) have ubiquitin conjugating enzyme activity	-1.13	2.68E-07
<i>C1_01210W_A</i>	Ortholog of <i>Candida tropicalis</i> MYA-3404 : CTRG_04422	-1.13	8.11E-07
<i>SSN8</i>	Ortholog of <i>S. cerevisiae</i> Ssn8	-1.14	8.23E-09
<i>C5_01940W_A</i>	Ortholog(s) have 2,5-diamino-6-ribitylamino-4(3H)-pyrimidinone 5'-phosphate deaminase activity	-1.15	2.62E-08
<i>MUQ1</i>	Putative choline phosphate cytidyltransferase/phosphoethanolamine cytidyltransferase	-1.15	9.25E-09
<i>PMT1</i>	Protein mannosyltransferase	-1.16	8.45E-06
<i>SEN1</i>	Putative helicase	-1.16	1.44E-07
<i>C4_06130W_A</i>	Ortholog(s) have tubulin binding activity	-1.16	1.23E-07
<i>CR_08430W_A</i>	Protein similar to <i>S. cerevisiae</i> Vac14p	-1.18	1.89E-11
<i>C7_00140C_A</i>	Ortholog(s) have cytosol, nucleus localization	-1.18	1.77E-10
<i>CDC10</i>	Septin	-1.18	7.05E-06
<i>UBA4</i>	Putative ubiquitin activating protein	-1.18	1.07E-08
<i>C1_01300W_A</i>	Putative thioredoxin	-1.18	1.58E-09

<i>C1_03330C_A</i>	Ortholog(s) have phosphatidylinositol-3,5-bisphosphate binding activity	-1.21	1.65E-15
<i>ARO80</i>	Zn(II)2Cys6 transcription factor	-1.22	1.75E-12
<i>LSC1</i>	Putative succinate-CoA ligase subunit	-1.23	1.16E-06
<i>CYK3</i>	Essential protein involved in cytokinesis	-1.23	1.46E-06
<i>C1_02440C_A</i>	Ortholog(s) have thiol-dependent ubiquitin-specific protease activity	-1.23	1.35E-06
<i>C5_02050W_A</i>	Ortholog(s) have role in Golgi to endosome transport, cell morphogenesis, cleistothecium development, conidium formation and endoplasmic reticulum organization	-1.23	5.38E-11
<i>BET2</i>	Putative Type II geranylgeranyltransferase beta subunit	-1.23	1.16E-08
<i>C2_07010W_A</i>	Predicted ER protein involved in ER-nucleus signaling	-1.23	2.10E-10
<i>CR_04080C_A</i>	Endoplasmic reticulum (ER) protein-translocation complex subunit	-1.24	4.96E-11
<i>PFY1</i>	Profilin; functional homolog of <i>S. cerevisiae</i> Pfy1	-1.24	2.43E-06
<i>RET2</i>	Delta subunit of the coatomer complex (COPI)	-1.25	1.88E-06
<i>MYO2</i>	Class V myosin	-1.25	7.31E-07
<i>SEC7</i>	Putative guanine nucleotide exchange factor (GEF)	-1.27	2.62E-11
<i>C4_01280C_A</i>	Ortholog(s) have RNA binding activity	-1.27	1.52E-08
<i>COQ6</i>	Ortholog(s) have oxidoreductase activity	-1.28	3.81E-12
<i>VPS1</i>	Dynamamin-family GTPase-related protein	-1.28	1.19E-09
<i>CCH1</i>	Voltage-gated Ca ²⁺ channel of the high affinity calcium uptake system	-1.29	2.60E-14
<i>CHS7</i>	Protein required for wild-type chitin synthase III activity	-1.29	6.28E-10
<i>KTR4</i>	Mannosyltransferase	-1.30	1.44E-07
<i>IML2</i>	Protein of unknown function	-1.30	8.23E-09
<i>VMA4</i>	H ⁺ transporting ATPase E chain	-1.31	9.47E-06
<i>TUB1</i>	Alpha-tubulin	-1.32	1.16E-08
<i>C1_01400C_A</i>	Ortholog(s) have sphingosine-1-phosphate phosphatase activity	-1.33	2.00E-07
<i>TIP120</i>	Protein similar to human CAND1 (Cullin-Associated Nedd8-Dissociated) protein	-1.33	5.93E-07
<i>C3_07770C_A</i>	Ortholog(s) have microtubule binding, protein homodimerization activity	-1.33	1.64E-10
<i>C3_06750W_A</i>	Ortholog(s) have P-P-bond-hydrolysis-driven protein transmembrane transporter activity	-1.34	1.94E-07
<i>C3_04460W_A</i>	Ortholog(s) have role in positive regulation of TORC1 signaling	-1.35	8.86E-07
<i>RNR1</i>	Ribonucleotide reductase large subunit	-1.35	3.71E-06
<i>STT3</i>	Putative oligosaccharyltransferase complex component	-1.35	1.12E-06
<i>MYO1</i>	Component of actomyosin ring at neck of newly-emerged bud	-1.35	1.62E-13
<i>PDS5</i>	Putative protein with a predicted role in establishment and maintenance of sister chromatid condensation and cohesion	-1.36	1.59E-06
<i>NPT1</i>	Putative nicotinate phosphoribosyltransferase	-1.36	3.75E-13
<i>RHO2</i>	Ortholog(s) have GTPase activity	-1.37	1.44E-07
<i>USO6</i>	Putative vesicular transport protein	-1.37	2.59E-11
<i>C6_00890W_A</i>	Ortholog(s) have cytoplasm localization	-1.38	7.22E-10
<i>DOA1</i>	WD repeat protein	-1.38	1.34E-06
<i>ERG7</i>	2,3-epoxysqualene-lanosterol cyclase (lanosterol synthase)	-1.38	8.50E-07
<i>PGA53</i>	GPI-anchored cell surface protein of unknown function	-1.40	4.71E-06
<i>SEC13</i>	Putative protein transport factor	-1.40	2.11E-08
<i>C6_02680W_A</i>	Ortholog(s) have SNAP receptor activity	-1.40	8.34E-07
<i>C1_02770W_A</i>	Protein of unknown function	-1.40	2.43E-10
<i>MPT5</i>	Putative RNA-binding protein	-1.40	1.11E-12

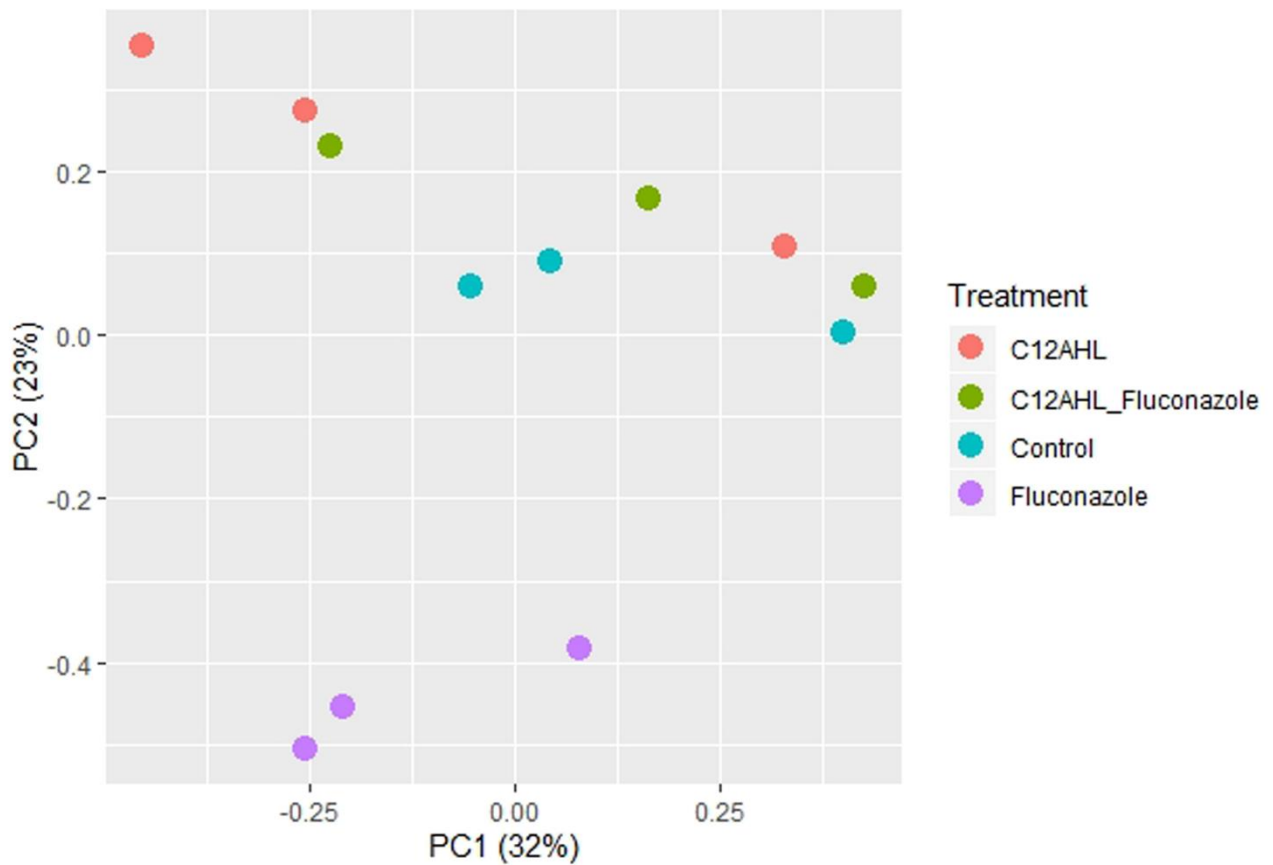
<i>C1_07050C_A</i>	Ortholog(s) have ATP-dependent 5'-3' DNA helicase activity	-1.41	4.26E-09
<i>C1_09220W_A</i>	Predicted MFS family membrane transporter	-1.41	1.90E-07
<i>C2_05720C_A</i>	Putative oxysterol binding protein family	-1.41	2.73E-16
<i>DYN1</i>	Dynein heavy chain	-1.42	8.45E-16
<i>C3_06710W_A</i>	Protein of unknown function	-1.43	7.44E-17
<i>SRB1</i>	Essential GDP-mannose pyrophosphorylase	-1.43	7.34E-06
<i>SMP2</i>	Putative Mg ²⁺ -dependent phosphatidate phosphatase	-1.44	6.93E-07
<i>C1_06700W_A</i>	SH3-domain protein	-1.45	1.96E-06
<i>C6_02490C_A</i>	Protein of unknown function	-1.46	1.01E-07
<i>C1_07260C_A</i>	Ortholog(s) have DNA replication origin binding, single-stranded DNA binding activity	-1.46	1.23E-21
<i>RAD50</i>	Putative DNA double-strand break repair factor	-1.46	2.94E-09
<i>CHS5</i>	Putative chitin biosynthesis protein	-1.46	2.47E-08
<i>C1_03100W_A</i>	Putative lipid-binding protein	-1.46	7.05E-08
<i>SCT2</i>	Putative glycerol-3-phosphate acyltransferase	-1.47	3.90E-09
<i>BFR1</i>	Protein involved in the maintenance of normal ploidy;	-1.47	2.38E-08
<i>UGP1</i>	UTP-glucose-1-phosphaturidyl transferase	-1.47	8.94E-06
<i>YKE2</i>	Possible heterohexameric Gim/prefoldin protein complex subunit	-1.49	9.55E-06
<i>PTP3</i>	Putative protein tyrosine phosphatase	-1.49	3.43E-11
<i>LIG4</i>	DNA ligase	-1.50	4.13E-12
<i>C1_14170W_A</i>	Ortholog(s) have ubiquitin-protein transferase activity	-1.50	6.89E-12
<i>MON2</i>	Peripheral membrane protein	-1.51	2.04E-08
<i>PMM1</i>	Phosphomannomutase	-1.52	2.38E-08
<i>BMT3</i>	Beta-mannosyltransferase	-1.52	2.48E-09
<i>CDC3</i>	Septin	-1.53	4.15E-12
<i>C2_09480W_A</i>	Ortholog(s) have DNA-directed DNA polymerase activity	-1.54	1.25E-10
<i>C6_02650C_A</i>	Predicted membrane transporter	-1.55	7.14E-09
<i>C6_01950C_A</i>	Protein of unknown function	-1.56	4.60E-07
<i>PHM7</i>	Putative transporter	-1.56	6.42E-06
<i>C1_13500C_A</i>	H/ACA box small nucleolar RNA (snoRNA)	-1.57	1.40E-06
<i>C2_00230W_A</i>	Ortholog(s) have arginyltransferase activity	-1.57	1.57E-12
<i>PMT2</i>	Protein mannosyltransferase (PMT) with roles in hyphal growth and drug sensitivity	-1.57	1.32E-08
<i>GTT11</i>	Glutathione S-transferase	-1.58	3.08E-10
<i>CR_02300C_A</i>	Protein with a Vps9 vacuolar protein sorting protein domain	-1.58	5.19E-15
<i>C3_03370C_A</i>	Protein of unknown function	-1.58	6.19E-09
<i>C5_04470C_A</i>	Predicted RNA binding protein	-1.58	9.03E-06
<i>NCP1</i>	NADPH-cytochrome P450 reductase	-1.59	3.71E-14
<i>BTS1</i>	Putative geranylgeranyl diphosphate synthase	-1.60	4.11E-13
<i>REV3</i>	Ortholog(s) have DNA-directed DNA polymerase activity	-1.60	2.61E-09
<i>EXG2</i>	GPI-anchored cell wall protein	-1.61	9.76E-08
<i>C7_02850W_A</i>	Ortholog of <i>Candida albicans</i> WO-1 : CAWG_05627	-1.63	9.53E-11
<i>SET3</i>	NAD-dependent histone deacetylase	-1.64	8.22E-14
<i>CLN3</i>	G1 cyclin	-1.65	2.02E-06
<i>CYB5</i>	Cytochrome b(5)	-1.66	6.50E-07
<i>C1_11120C_A</i>	Protein similar to <i>S. cerevisiae</i> Gvp36p	-1.67	2.26E-18
<i>PMI1</i>	Phosphomannose isomerase	-1.67	6.30E-06
<i>SVF1</i>	Putative survival factor	-1.68	2.68E-13

<i>C5_04350C_A</i>	Ortholog(s) have cell division site, cell tip, cytosol, nucleus localization	-1.68	3.51E-14
<i>PMT4</i>	Protein mannosyltransferase	-1.69	5.51E-06
<i>SEC23</i>	Putative GTPase-activating protein	-1.69	3.05E-07
<i>C1_02780W_A</i>	Predicted dienelactone hydrolase domain	-1.69	9.75E-08
<i>FAS2</i>	Alpha subunit of fatty-acid synthase	-1.69	1.66E-07
<i>RDI1</i>	Putative rho GDP dissociation inhibitor	-1.72	3.90E-06
<i>C4_06990W_A</i>	Possible mannosyltransferase	-1.73	1.58E-16
<i>TPK2</i>	cAMP-dependent protein kinase catalytic subunit	-1.75	8.64E-09
<i>C2_08620W_A</i>	Protein of unknown function	-1.76	3.24E-10
<i>C3_04740C_A</i>	Ortholog(s) have DNA topoisomerase type I activity	-1.76	2.64E-07
<i>CR_09010C_A</i>	Putative cystathionine gamma-synthase	-1.77	8.86E-07
<i>CR_04870C_A</i>	Trimethylaminobutyraldehyde dehydrogenase	-1.77	5.45E-06
<i>AGO1</i>	Putative Argonaute protein involved in RNA silencing	-1.78	6.15E-06
<i>ECM33</i>	GPI-anchored cell wall protein	-1.78	1.15E-10
<i>CDC12</i>	Septin	-1.78	1.40E-11
<i>CR_09330C_A</i>	Protein with a Staphylococcal nuclease domain	-1.80	3.71E-10
<i>C5_02520W_A</i>	Protein of unknown function	-1.81	5.89E-11
<i>ENO1</i>	Enolase	-1.81	1.73E-06
<i>SEC61</i>	ER protein-translocation complex subunit	-1.81	2.61E-06
<i>CR_00290W_A</i>	Ortholog of <i>S. cerevisiae</i> Rts3	-1.82	4.72E-14
<i>C2_02220C_A</i>	Protein of unknown function	-1.82	2.61E-06
<i>ERG2</i>	C-8 sterol isomerase	-1.82	1.14E-08
<i>C1_09130W_A</i>	Protein of unknown function	-1.82	7.74E-09
<i>STE13</i>	Putative pheromone-processing dipeptidyl aminopeptidase	-1.84	1.24E-14
<i>PSD2</i>	Ortholog(s) have phosphatidylserine decarboxylase activity	-1.84	7.61E-20
<i>NIP100</i>	p150 subunit of dynactin	-1.85	2.42E-08
<i>ACB1</i>	Protein similar to a region of acyl-coenzyme-A-binding protein	-1.89	2.24E-06
<i>DPM1</i>	Dolichol-phosphate mannose synthase catalytic subunit	-1.90	1.58E-10
<i>YVC1</i>	Putative vacuolar cation channel shock	-1.90	7.81E-12
<i>FBA1</i>	Fructose-bisphosphate aldolase	-1.91	5.04E-11
<i>C1_11250W_A</i>	Microtubule-binding protein of the cortical microtubule	-1.91	5.84E-16
<i>C3_06860C_A</i>	Putative xylose and arabinose reductase	-1.91	3.56E-06
<i>ERG3</i>	C-5 sterol desaturase	-1.94	5.82E-06
<i>C4_05250W_A</i>	Putative ubiquitin-protein ligase	-1.94	2.43E-10
<i>INN1</i>	Protein with similarity to <i>S. cerevisiae</i> Inn1p	-1.94	2.19E-27
<i>C5_02850W_A</i>	H/ACA box small nucleolar RNA (snoRNA)	-1.95	5.87E-08
<i>MTS1</i>	Sphingolipid C9-methyltransferase	-1.95	5.19E-13
<i>C5_01070C_A</i>	Protein of unknown function	-1.96	8.72E-06
<i>C2_09810C_A</i>	Protein with predicted peptidase domains	-1.96	8.75E-06
<i>FAV2</i>	Adhesin-like protein	-1.99	1.12E-06
<i>NAT4</i>	Putative histone acetyltransferase	-2.00	1.49E-11
<i>C3_04420W_A</i>	Ortholog of <i>S. cerevisiae</i> Hul4	-2.01	5.36E-10
<i>SSO2</i>	Plasma membrane t-SNARE	-2.02	2.14E-31
<i>C5_03490C_A</i>	Stationary phase enriched protein	-2.03	1.75E-20
<i>CDC19</i>	Pyruvate kinase at yeast cell surface	-2.05	1.11E-09
<i>TPM2</i>	Putative tropomyosin isoform 2	-2.08	1.57E-10
<i>CR_09070C_A</i>	Protein of unknown function	-2.09	1.64E-12

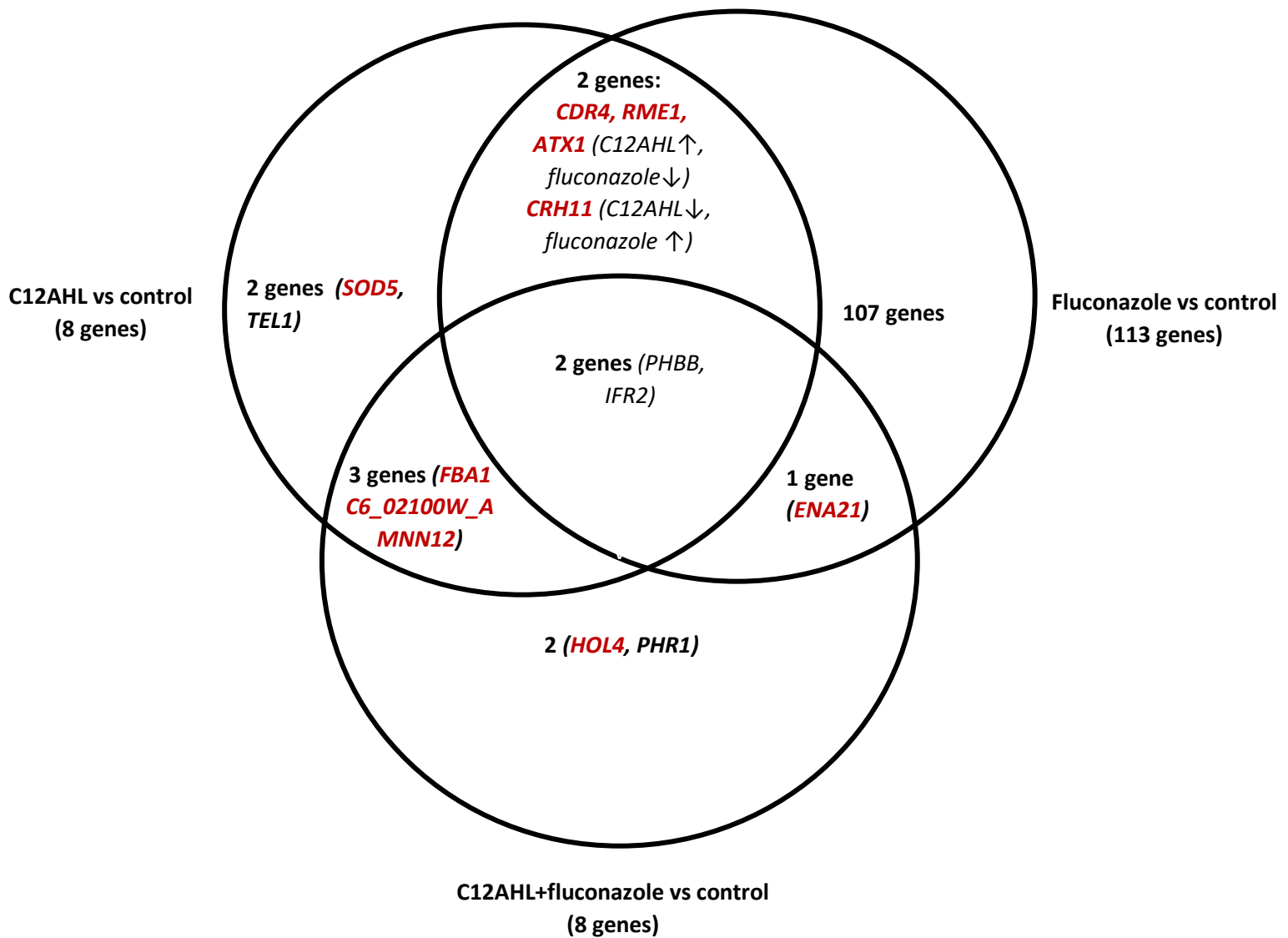
<i>ERG9</i>	Putative farnesyl-diphosphate farnesyl transferase (squalene synthase)	-2.11	3.41E-06
<i>ERG251</i>	C-4 sterol methyl oxidase	-2.11	2.28E-06
<i>SLD1</i>	Sphingolipid delta-8 desaturase	-2.12	1.74E-16
<i>CR_04120C_A</i>	Ortholog(s) have DNA-dependent ATPase activity	-2.13	7.35E-12
<i>C1_11790W_A</i>	Ortholog(s) have thymidylate kinase activity	-2.16	1.62E-13
<i>GAL4</i>	Zn(II)2Cys6 transcription factor	-2.17	9.77E-12
<i>C1_11730W_A</i>	Protein with SEL-1 like protein domain	-2.18	4.07E-19
<i>ERG27</i>	3-Keto sterol reductase	-2.18	1.46E-11
<i>DAP1</i>	Similar to mammalian membrane-associated progesterone receptors	-2.18	5.65E-23
<i>ERG11</i>	Lanosterol 14-alpha-demethylase	-2.20	1.79E-08
<i>MSC7</i>	<i>S. cerevisiae</i> ortholog Mcs7	-2.20	1.08E-50
<i>PST3</i>	Flavodoxin-like protein	-2.20	1.59E-07
<i>CRL1</i>	Predicted GTPase of RHO family	-2.20	2.57E-25
<i>C7_01390W_A</i>	Protein of unknown function	-2.20	1.18E-07
<i>C2_07220W_A</i>	Putative 20S proteasome assembly protein	-2.21	3.12E-12
<i>CEK1</i>	ERK-family protein kinase	-2.22	8.30E-16
<i>C1_04470C_A</i>	Protein of unknown function	-2.23	7.36E-13
<i>C4_01860C_A</i>	Possible Golgi membrane protein	-2.23	5.01E-09
<i>C1_09980C_A</i>	Ortholog(s) have acylglycerol lipase activity	-2.25	2.20E-08
<i>MNN12</i>	Predicted alpha-1,3-mannosyltransferase activity	-2.25	1.85E-09
<i>C1_11720W_A</i>	Ortholog of <i>Candida albicans</i> WO-1 : CAWG_00265	-2.26	4.14E-08
<i>LAP41</i>	Putative aminopeptidase yscI precursor	-2.28	1.34E-10
<i>CHS8</i>	Chitin synthase required for synthesis of long-chitin fibrils	-2.28	7.44E-17
<i>MLC1</i>	Microtubule-dependent localized protein	-2.29	7.04E-18
<i>GND1</i>	6-phosphogluconate dehydrogenase	-2.31	5.32E-07
<i>PGA54</i>	GPI-anchored protein	-2.31	1.27E-09
<i>C1_04580C_A</i>	Ortholog of Rmd6 involved in <i>S. cerevisiae</i> sporulation	-2.33	1.30E-17
<i>CR_09040W_A</i>	Protein of unknown function	-2.35	4.48E-09
<i>ZWF1</i>	Glucose-6-phosphate dehydrogenase	-2.36	2.54E-08
<i>ECM331</i>	GPI-anchored protein	-2.40	6.90E-08
<i>C4_00860C_A</i>	Protein of unknown function	-2.41	2.85E-11
<i>CR_04770C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36 : Cd36_30140	-2.41	6.35E-18
<i>ERG5</i>	Putative C-22 sterol desaturase	-2.46	5.02E-12
<i>GFA1</i>	Glucosamine-6-phosphate synthase	-2.50	7.47E-16
<i>ERG10</i>	Acetyl-CoA acetyltransferase	-2.52	1.16E-11
<i>BMT7</i>	Beta-mannosyltransferase	-2.53	2.18E-09
<i>ERG26</i>	C-3 sterol dehydrogenase	-2.56	4.64E-18
<i>UPC2</i>	Zn2-Cys6 transcript factor	-2.57	1.42E-41
<i>C1_13490C_A</i>	Ortholog(s) have role in cellular calcium ion homeostasis	-2.59	9.62E-29
<i>C1_11260C_A</i>	Putative adhesin-like protein	-2.63	3.80E-14
<i>CHS2</i>	Chitin synthase	-2.64	2.54E-47
<i>ERG1</i>	Squalene epoxidase	-2.67	1.36E-30
<i>PGA6</i>	GPI-anchored cell wall adhesin-like protein	-2.73	9.82E-09
<i>PGA31</i>	Cell wall protein	-2.75	9.31E-06
<i>C7_02280W_A</i>	Ortholog of <i>C. parapsilosis</i> CDC317 : CPAR2_808370	-2.76	7.50E-07
<i>CHO1</i>	Putative phosphatidylserine synthase	-2.78	3.25E-15
<i>C6_03260W_A</i>	Putative ribonuclease H1	-2.82	1.15E-17

<i>ERG24</i>	C-14 sterol reductase	-2.92	5.37E-24
<i>ERG4</i>	Protein similar to sterol C-24 reductase	-3.12	1.38E-11
<i>IPK2</i>	Putative inositol polyphosphate multikinase	-3.17	1.60E-33
<i>C2_02910W_A</i>	Protein of unknown function	-3.18	5.17E-13
<i>C7_02260W_A</i>	Ortholog of <i>C. parapsilosis</i> CDC317: CPAR2_808350	-3.18	4.33E-08
<i>RBT4</i>	Pry family protein	-3.24	2.14E-12
<i>DAG7</i>	Secretory protein;	-3.26	4.72E-10
<i>LDG3</i>	Putative LDG family protein	-3.30	9.04E-08
<i>C7_03310W_A</i>	Protein of unknown function	-3.33	5.67E-09
<i>C6_02100W_A</i>	Secreted poetin	-3.39	1.10E-09
<i>C3_06660C_A</i>	Ortholog of <i>C. dubliniensis</i> CD36: Cd36_86630	-3.50	1.92E-07
<i>HWP1</i>	Hyphal cell wall protein	-3.62	8.94E-08
<i>C1_04590W_A</i>	Protein of unknown function	-3.65	3.47E-27
<i>DDR48</i>	Immunogenic stress-associated protein	-3.78	2.14E-14
<i>PGA45</i>	Putative GPI-anchored cell wall protein	-3.82	2.94E-11
<i>ERG6</i>	Delta (24)-sterol C-methyltransferase	-3.82	3.15E-27
<i>RBR1</i>	Glycosylphosphatidylinositol (GPI)-anchored cell wall protein	-3.85	6.87E-14
<i>C2_10160W_A</i>	Secreted protein	-3.92	2.18E-22
<i>CRH11</i>	GPI-anchored cell wall transglycosylase	-4.33	2.12E-26
<i>PGA23</i>	Putative GPI-anchored protein of unknown function	-4.67	9.84E-25
<i>MRV8</i>	Protein of unknown function	-4.82	9.56E-18
<i>PGA13</i>	GPI-anchored cell wall protein	-5.42	6.17E-38
<i>C3_01540W_A</i>	Plasma-membrane-localized protein	-6.41	4.64E-40

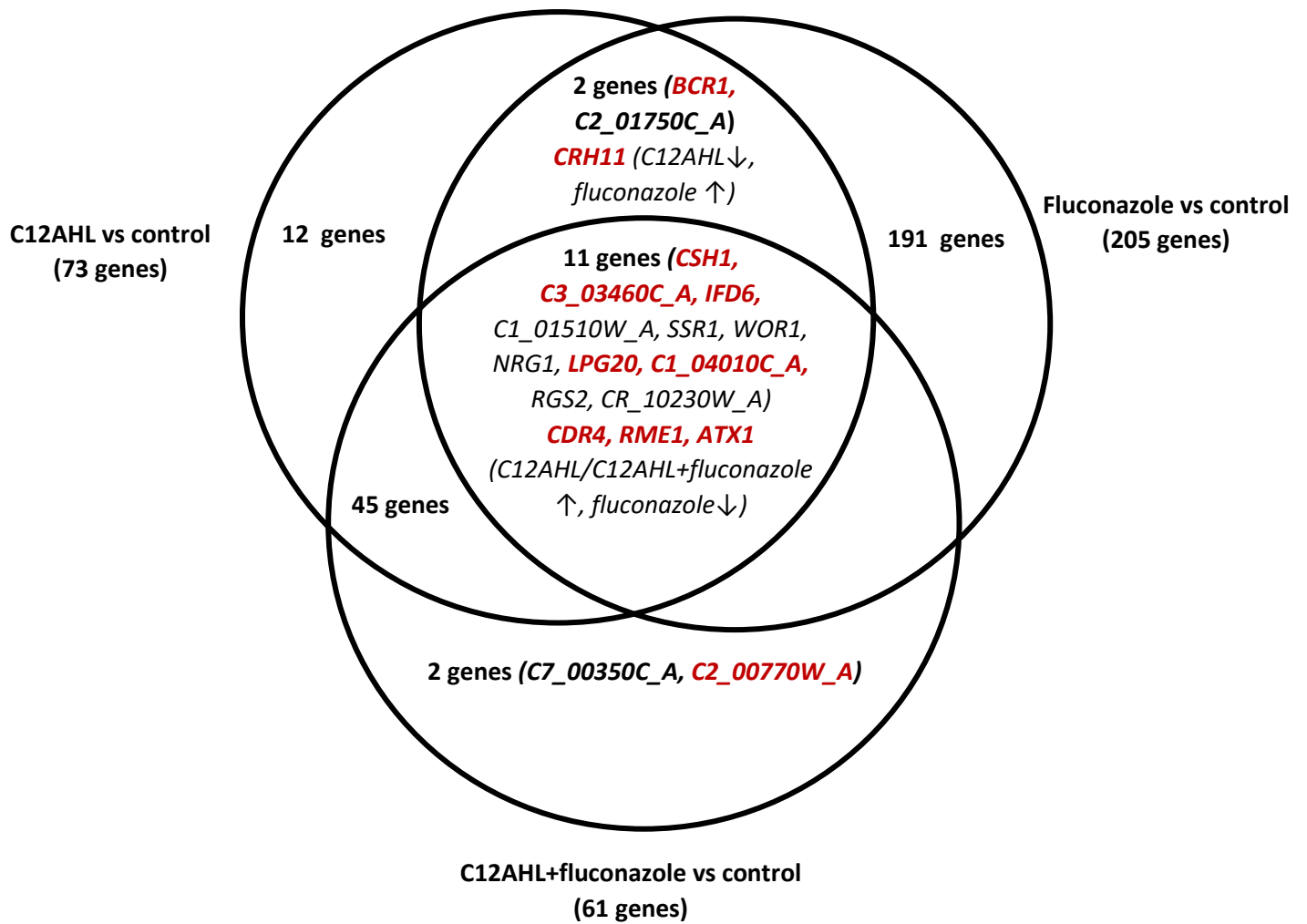
Supplementary Table S7: Gene expression data; Significantly upregulated/downregulated genes in *C. albicans* treated with C12AHL+fluconazole compared to fluconazole only treated samples. The genes that are known to be associated with antimicrobial sensitivity/resistance are shaded in light blue (adjusted *p-value* < 1e⁻⁵).



Supplementary Figure S8: Principle component analysis of *C. albicans* gene expression. The gene expression profiles for the control, C12AHL, C12AHL+fluconazole, and fluconazole only treatments were statistically compared using a principle component analysis to identify variability in gene expression between treatments. Each colour represents a different treatment as indicated in the right-side panel, and each circle represents the gene expression for one of the replicates per treatment.



Supplementary Figure S9: Comparisons among significantly downregulated genes in *C. albicans* exposed to fluconazole, C12AHL or C12AHL+fluconazole. Genes that are highlighted in red are known to be associated with antifungal resistance (adjusted p-value < 1e⁻⁵). Genes that were significantly downregulated between treatments are shown in Supplementary Tables 2-6.



Supplementary Figure S10: Comparisons among significantly upregulated genes in *C. albicans* exposed to fluconazole, C12AHL or C12AHL+fluconazole. Genes that are highlighted in red are known to be associated with antifungal resistance (adjusted p-value < 1e⁻⁵). Genes that were significantly upregulated between treatments are shown in Supplementary Tables 2-6.

Biological function	Protein (accession No.)	Protein family	Gene	Notes	Reference
Antifungal resistance	Gcy1p (gi 68472117)	Glycerol 2-dehydrogenase (NADP(+))	<i>GCY1</i>	mutation confers hypersensitivity to toxic ergosterol analogue	1,2
Respiration	Lsc1p (gi 68475125)***	Succinate-CoA ligase (putative)	<i>LSC1</i>	Induced by fluconazole	3
	Cox4p (gi 68466651)	Cytochrome c oxidase subunit IV	<i>COX4</i>		4,5
	Lpd1p (gi 68487498)***	Dihydrolipoyl dehydrogenase (putative)	<i>LPD1</i>		6
	Pda1p (gi 68481122)***	Pyruvate dehydrogenase (acetyl-transferring) subunit E1 alpha	<i>PDA1</i>	Induced by fluconazole	3,6
Oxidative stress	Atp1p (gi 238879075)	ATP synthase alpha unit	<i>ATP1</i>	Induced by ciclopirox, ketoconazole, flucytosine	7
	Sod1p (gi 6094316)	Superoxide dismutase	<i>SOD1</i>		8
	Cyp5p (gi 68479834)	Peptidyl-prolyl cis-trans isomerase	<i>CYP5</i>		9
	Pst1p (gi 68491679)	NAD(P)H dehydrogenase (flavodoxin-like protein)	<i>PST3</i>		10,11
Apoptosis	Mxr1p (gi 68472567)***	Peptide-methionine -S-oxide reductase (putative)	<i>MXR1</i>	Induced by flucytosine	7
	Cpr3p (gi 68466799)	Peptidyl-prolyl cis-trans isomerase (putative)	<i>CPR3</i>		12
Peptide synthesis/Protein folding	Cr_04650wp_a (gi 23887992)	Protein involved in microtubule morphogenesis	<i>CR_04650W_A (RBL2)</i>		13
	Mmd1p (Hmf1p)** (gi 238878875)	Deaminase	<i>MMD1 (HMF1)**</i>		9,13
Nucleic acid synthesis	Dut1p (gi 68475057)***	Bifunctional dITP/dUTP diphosphatase	<i>DUT1</i>		14
	Hnt1p (gi 68484224)***	Adenosine 5'-monophosphoramidase	<i>HNT1</i>		6
Cellular metabolism	Ach1p (gi 68482646)***		<i>ACH1</i>	Induced by ketoconazole	7
Unknown	Hypothetical (gi 68487695) ^x	Unknown	<i>CaO19.9673^x</i>		

*Nomenclature conflict, ** Orthologs, *** Obsolete record in NCBI, thus matched for an identical protein, ^x Obsolete record in NCBI

Supplementary Table S11: Protein expression data; Under-expressed proteins in C12AHL+fluconazole treated *C. albicans* samples compared to fluconazole only treated samples

- 1 Askew, C. *et al.* Transcriptional regulation of carbohydrate metabolism in the human pathogen *Candida albicans*. *PLoS Pathog* **5**, e1000612, doi:10.1371/journal.ppat.1000612 (2009).
- 2 Xu, D. *et al.* Genome-wide fitness test and mechanism-of-action studies of inhibitory compounds in *Candida albicans*. *PLoS Pathog* **3**, e92, doi:10.1371/journal.ppat.0030092 (2007).
- 3 Copping, V. M. *et al.* Exposure of *Candida albicans* to antifungal agents affects expression of *SAP2* and *SAP9* secreted proteinase genes. *J Antimicrob Chemother* **55**, 645-654, doi:10.1093/jac/dki088 (2005).

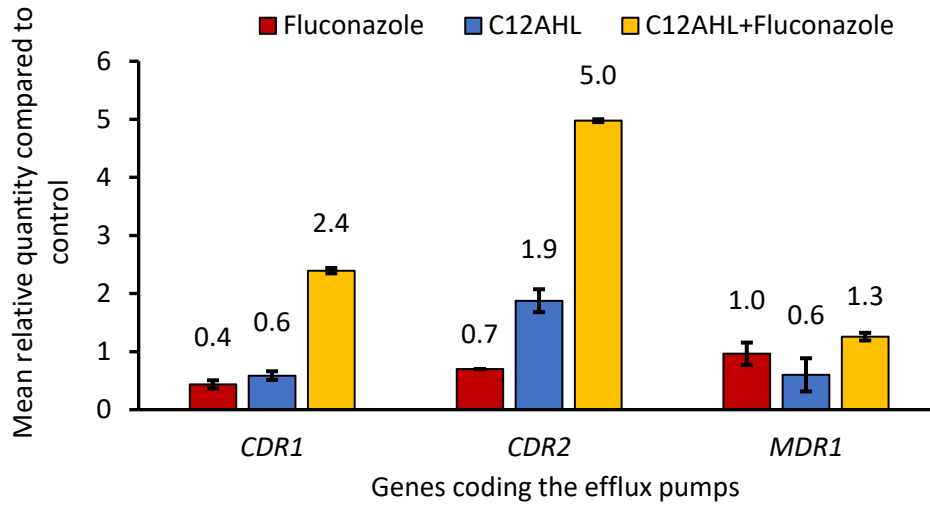
- 4 Cabezon, V., Llama-Palacios, A., Nombela, C., Monteoliva, L. & Gil, C. Analysis of *Candida albicans* plasma membrane proteome. *Proteomics* **9**, 4770-4786, doi:10.1002/pmic.200800988 (2009).
- 5 Mitrovich, Q. M., Tuch, B. B., Guthrie, C. & Johnson, A. D. Computational and experimental approaches double the number of known introns in the pathogenic yeast *Candida albicans*. *Genome Res* **17**, 492-502, doi:10.1101/gr.6111907 (2007).
- 6 Kusch, H. *et al.* A proteomic view of *Candida albicans* yeast cell metabolism in exponential and stationary growth phases. *Int J Med Microbiol* **298**, 291-318, doi:10.1016/j.ijmm.2007.03.020 (2008).
- 7 Liu, T. T. *et al.* Genome-wide expression profiling of the response to azole, polyene, echinocandin, and pyrimidine antifungal agents in *Candida albicans*. *Antimicrob Agents Chemother* **49**, 2226-2236, doi:10.1128/AAC.49.6.2226-2236.2005 (2005).
- 8 Hwang, C. S. *et al.* Copper- and zinc-containing superoxide dismutase and its gene from *Candida albicans*. *Biochim Biophys Acta* **1427**, 245-255 (1999).
- 9 Fernandez-Arenas, E. *et al.* Integrated proteomics and genomics strategies bring new insight into *Candida albicans* response upon macrophage interaction. *Mol Cell Proteomics* **6**, 460-478, doi:10.1074/mcp.M600210-MCP200 (2007).
- 10 Li, L., Naseem, S., Sharma, S. & Konopka, J. B. Flavodoxin-Like Proteins Protect *Candida albicans* from Oxidative Stress and Promote Virulence. *PLoS Pathog* **11**, e1005147, doi:10.1371/journal.ppat.1005147 (2015).
- 11 Cowen, L. E. *et al.* Population genomics of drug resistance in *Candida albicans*. *Proc Natl Acad Sci U S A* **99**, 9284-9289, doi:10.1073/pnas.102291099 (2002).
- 12 Hirakawa, M. P. *et al.* Genetic and phenotypic intra-species variation in *Candida albicans*. *Genome Res* **25**, 413-425, doi:10.1101/gr.174623.114 (2015).
- 13 Nobile, C. J. *et al.* A recently evolved transcriptional network controls biofilm development in *Candida albicans*. *Cell* **148**, 126-138, doi:10.1016/j.cell.2011.10.048 (2012).
- 14 McIntosh, E. M., Looser, J., Haynes, R. H. & Pearlman, R. E. Mlul site-dependent transcriptional regulation of the *Candida albicans* dUTPase gene. *Curr Genet* **26**, 415-421 (1994).

Biological function	Protein (Accession No.)	Protein family	Gene	Notes	Reference
Respiration	Gpm1p (gi 68469783)***	Phosphoglycerate mutase	<i>GPM1</i>	Induced by fluconazole	1
	Cit1p (gi 238879810)	ATP citrate synthase	<i>CIT1</i>		2
	Pck1p (gi 68474596)	Phosphoenolpyruvate carboxykinase (ATP)	<i>PCK1</i>	Induced by fluconazole	1
Oxidative stress	Hsp21p (gi 68469633)***	Unknown	<i>HSP21</i>	Downregulated by fluconazole	1,3
Apoptosis	Tdh3p (gi 68472227)	Glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating)	<i>TDH3/TDH1/GAP1*</i>		4
Peptide synthesis/Protein folding	Lap3p (gi 68477033)***	Aminopeptidase (bleomycin hydrolase)	<i>LAP3</i>		2
Fermentation	Adh4p (gi 68471589)***	Predicated 3-hydroxyacyl-CoA dehydrogenase	<i>ADH4</i>	upregulated in azole-resistant strain overexpressing <i>MDR1/</i> in fluconazole resistance strains	5,6

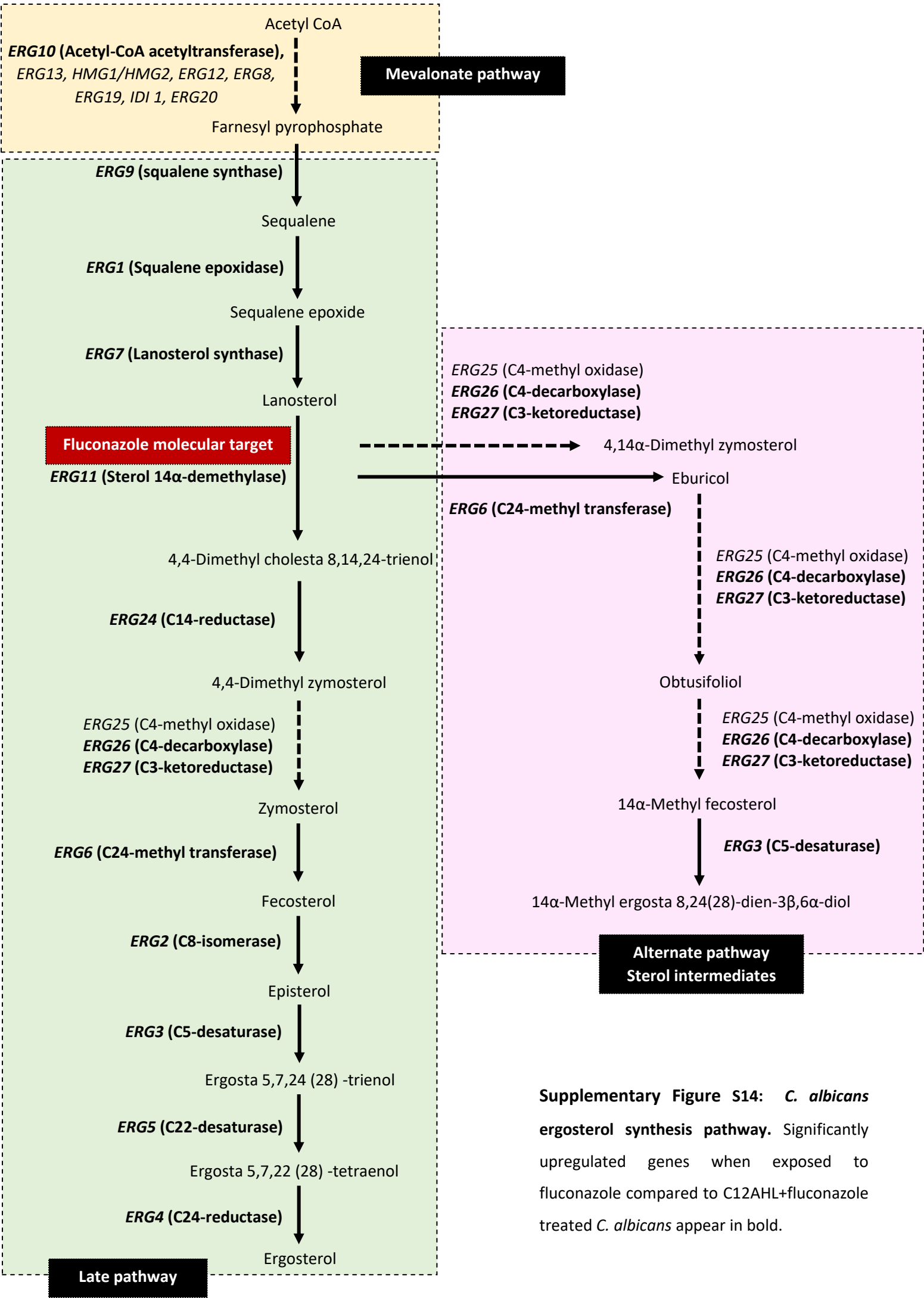
*Nomenclature conflict, ** Orthologs, *** Obsolete record in NCBI, thus matched for an identical protein, * Obsolete record in NCBI

Supplementary Table S12: Protein expression data: Overexpressed proteins when treated with C12AHL+fluconazole + *C. albicans* compared to fluconazole only treated samples

- 1 Copping, V. M. *et al.* Exposure of *Candida albicans* to antifungal agents affects expression of *SAP2* and *SAP9* secreted proteinase genes. *J Antimicrob Chemother* **55**, 645-654, doi:10.1093/jac/dki088 (2005).
- 2 Lan, C. Y. *et al.* Regulatory networks affected by iron availability in *Candida albicans*. *Mol Microbiol* **53**, 1451-1469, doi:10.1111/j.1365-2958.2004.04214.x (2004).
- 3 Mayer, F. L. *et al.* Small but crucial: the novel small heat shock protein Hsp21 mediates stress adaptation and virulence in *Candida albicans*. *PLoS One* **7**, e38584, doi:10.1371/journal.pone.0038584 (2012).
- 4 Delgado, M. L., Gil, M. L. & Gozalbo, D. Starvation and temperature upshift cause an increase in the enzymatically active cell wall-associated glyceraldehyde-3-phosphate dehydrogenase protein in yeast. *FEMS Yeast Res* **4**, 297-303, doi:10.1016/S1567-1356(03)00159-4 (2003).
- 5 Karababa, M., Coste, A. T., Rognon, B., Bille, J. & Sanglard, D. Comparison of gene expression profiles of *Candida albicans* azole-resistant clinical isolates and laboratory strains exposed to drugs inducing multidrug transporters. *Antimicrob Agents Chemother* **48**, 3064-3079, doi:10.1128/AAC.48.8.3064-3079.2004 (2004).
- 6 Cowen, L. E. *et al.* Population genomics of drug resistance in *Candida albicans*. *Proc Natl Acad Sci U S A* **99**, 9284-9289, doi:10.1073/pnas.102291099 (2002).



Supplementary Figure S13: Differential expression of *CDR1*, *CDR2* and *MDR1* to C12AHL, fluconazole or their combination. Real-time quantitative PCR assay data. Note the significant upregulation of *C. albicans CDR1* and *CDR2* when exposed to C12AHL+fluconazole and *CDR2* when exposed to C12AHL compared to solvent controls ($P < 0.05$).



Supplementary Figure S14: *C. albicans* ergosterol synthesis pathway. Significantly upregulated genes when exposed to fluconazole compared to C12AHL+fluconazole treated *C. albicans* appear in bold.

<i>C. albicans</i>	Strain name	Genotype	Reference
Wild type	CAF2-1	$\Delta ura3::imm434/URA3$	1
$\Delta cdr1$	DSY448	$\Delta cdr1::hisG-URA3-hisG/\Delta cdr1::hisG$	1
$\Delta mdr1$	DSY465	$\Delta mdr1::hisG-URA3-hisG/\Delta mdr1::hisG$	1,2
$\Delta cdr1 \Delta cdr2$	DSY654	$\Delta cdr1::hisG/\Delta cdr1::hisG$ $\Delta cdr2::hisG-URA3-hisG/\Delta cdr2::hisG$	3
$\Delta cdr1 \Delta cdr2 \Delta mdr1$	DSY1050	$\Delta cdr1::hisG/\Delta cdr1::hisG \Delta cdr2::hisG/\Delta cdr2::hisG$ $\Delta mdr1::hisG-URA3-hisG/\Delta mdr1::hisG$	2
$\Delta erg3$	DSY1751	$erg3A\Delta::hisG/erg3B\Delta::hisG-URA3-hisG$ $erg11\Delta::hisG/ERG11$	4
$\Delta erg11 \Delta erg3$	DSY1764	$erg3A\Delta::hisG/erg3B\Delta::hisG$ $erg11\Delta::hisG/erg11\Delta::hisG-URA3-hisG$	4
$\Delta erg11$	DSY1769	$erg11\Delta::hisG-URA3-hisG erg11\Delta::hisG-URA3-hisG$	4

Supplementary Table S15: *Candida albicans* strains used in this study

- 1 Sanglard, D., Ischer, F., Monod, M. & Bille, J. Susceptibilities of *Candida albicans* multidrug transporter mutants to various antifungal agents and other metabolic inhibitors. *Antimicrob Agents Chemother* **40**, 2300-2305 (1996).
- 2 Mukherjee, P. K., Chandra, J., Kuhn, D. M. & Ghannoum, M. A. Mechanism of fluconazole resistance in *Candida albicans* biofilms: phase-specific role of efflux pumps and membrane sterols. *Infect Immun* **71**, 4333-4340 (2003).
- 3 Sanglard, D., Ischer, F., Monod, M. & Bille, J. Cloning of *Candida albicans* genes conferring resistance to azole antifungal agents: characterization of *CDR2*, a new multidrug ABC transporter gene. *Microbiology* **143 (Pt 2)**, 405-416, doi:10.1099/00221287-143-2-405 (1997).
- 4 Sanglard, D., Ischer, F., Parkinson, T., Falconer, D. & Bille, J. *Candida albicans* mutations in the ergosterol biosynthetic pathway and resistance to several antifungal agents. *Antimicrob Agents Chemother* **47**, 2404-2412, doi:10.1128/aac.47.8.2404-2412.2003 (2003).

<i>C. albicans</i> gene	Primer	Sequence (5'–3')
<i>CDR1</i>	Forward	GCATATGGTGTTGCTAATGATTCTG
	Reverse	AAACCTTCTGTGGCTAATTTCAA
<i>CDR2</i>	Forward	ACGGCAACATTAGTCATGAACAA
	Reverse	AGTTTTTCACCCAGTATTTGGCATT
<i>MDR1</i>	Forward	GCTAGTGTTGCTGATGTGGTTAAATT
	Reverse	CAAACAGCACCCAAACTCAA
<i>EFB1</i> (House Keeping)	Forward	TGTGAAAATCGGATCAATGCA
	Reverse	CATGGCCAATGCTCTTTCAA

Supplementary Table S16: The primers used for the Real-time quantitative PCR in this study