

## **Supplementary Material**

**Figure S1.** Distribution of differentially expressed cAMP-responsive genes according to Munich Information Centre for Protein Sequences (MIPS) functional categories.

**Figure S2.** Representation of MIPS functional categories amongst the differentially expressed genes common to *Candida pde2* at 25°C and 37°C data sets compared to that of *S. cerevisiae pde2*

**Table S1.** List of all differentially expressed genes in *pde2* at 25°C and 37°C

**Table S2.** Number of differentially expressed genes

**Table S3.** Down-regulated cAMP-responsive genes at both 25°C and 37°C

**Table S4.** Up-regulated cAMP-responsive genes at both 25°C and 37°C

**Table S5.** Common differentially transcribed genes in *pde2* mutants of *S. cerevisiae* and *C. albicans*

**Table S6.** Comparative analysis of differentially expressed genes upon deletion of *PDE2* (our data) and *CDC35*, *EFG1* and *RASI* (Harcus *et al.*, 2004).

**Table S7.** Differentially regulated genes involved in protein degradation, modification, folding, fate and targeting

**Table S8.** Plasmids used in this study

**Table S9.** Primers used in this study

**Figure S1.** Distribution of differentially expressed cAMP-responsive genes according to Munich Information Centre for Protein Sequences (MIPS) functional categories.

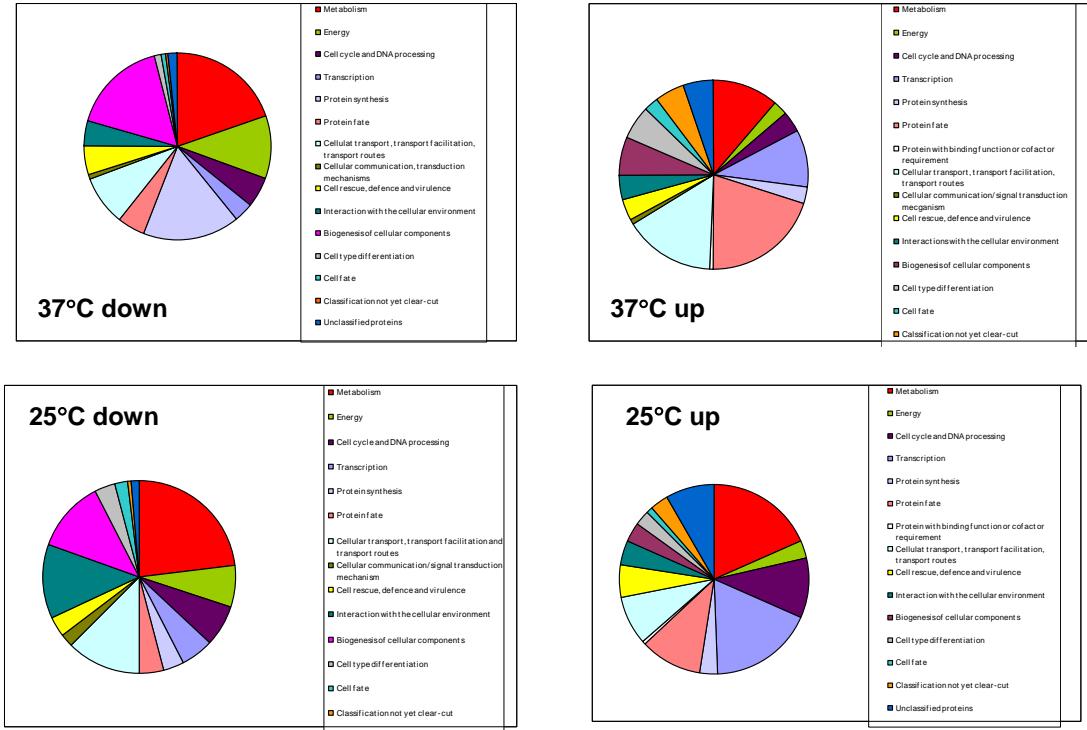
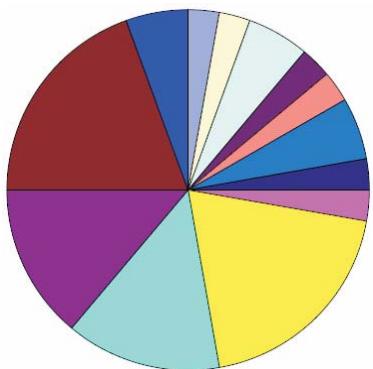
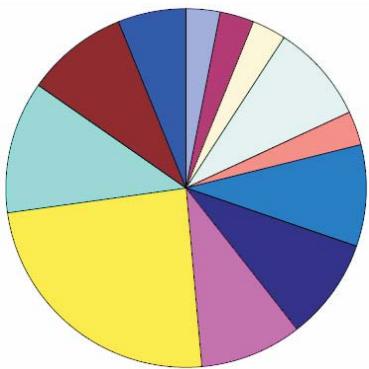


Figure 1. Distribution of differentially expressed cAMP-responsive genes according to Munich Information Centre for Protein Sequences (MIPS) functional categories. Differentially expressed genes in the *pde2* mutant are divided into up- and down-regulated at 25°C and 37°C, respectively. Some of the genes are assigned to more than one functional category by MIPS and this is reflected in the distribution.

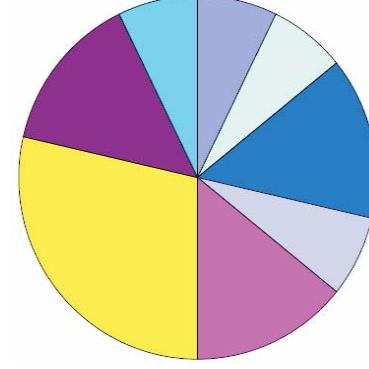
*C. albicans* up  
*S. cerevisiae* up



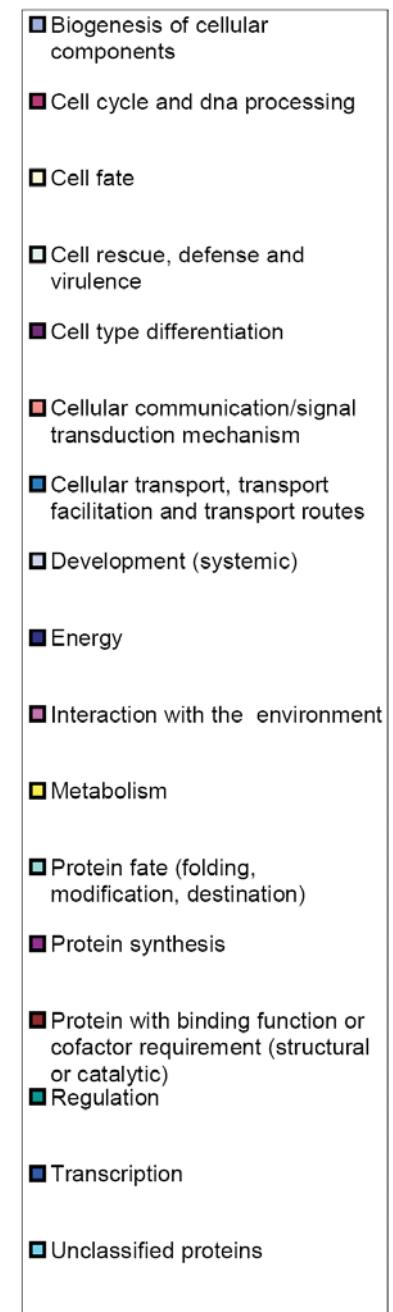
*C. albicans* down  
*S. cerevisiae* down



*C. albicans* up  
*S. cerevisiae* down



*C. albicans* down  
*S. cerevisiae* up



A

B

C

**Supplementary Figure S2.** Representation of MIPS functional categories amongst the differentially expressed genes common to *Candida pde2* data sets compared to that of *S. cerevisiae pde2*

Panel A – comparison between *C.albicans pde2* at 25°C and *S. cerevisiae pde2*

Panel B – comparison between *C.albicans pde2* at 37°C and *S. cerevisiae pde2*

Panel C – comparison between *C.albicans* cAMP-responsive gene set (common to 25°C and 37°C) and *S. cerevisiae pde2*

Some of the genes are assigned to more than one functional category by MIPS and this is reflected in the distribution

**Table S1. List of all differentially expressed genes**

Orf.19	Suggested name	Expr level change	Product/Function
<b>Down-regulated at 25°C</b>			
<b>orf19.7502</b>		-25.53	hypothetical protein
<b>orf19.3111</b>	<b>PRA1</b>	-18.89	pH-regulated antigen
<b>orf19.7219</b>	<b>FTR1</b>	-6.53	plasma membrane iron permease
<b>orf19.1716</b>	<b>URA3</b>	-6.16	orotidine-5'-phosphate decarboxylase
<b>orf19.566</b>		-6.12	hypothetical protein
<b>orf19.4737</b>	<b>DHA12</b>	-5.62	membrane transporter of the MFS-MDR family
<b>orf19.5383</b>	<b>PMA1</b>	-5.53	plasma membrane H+-ATPase
<b>orf19.4599</b>	<b>PHO89</b>	-5.3	Na+/Pi symporter
<b>orf19.1715</b>	<b>IRO1</b>	-5.05	transcription factor
<b>orf19.1585</b>	<b>ZRT2</b>	-4.87	low affinity zinc transporter
<b>orf19.3112</b>	<b>ZRT1</b>	-4.85	high affinity zinc transporter
<b>orf19.2835</b>	<b>AOS1</b>	-4.65	protein-sumoylation function, part of activating enzyme for Smt3
<b>orf19.5741</b>	<b>ALS1-1</b>	-4.48	agglutinin like protein 1
<b>orf19.3618</b>	<b>YWP1</b>	-4.43	putative cell wall protein
<b>orf19.3794</b>	<b>SUR1</b>	-4.14	SUppressor of ROK1   zinc finger transcription factor
<b>orf19.4765</b>	<b>CCW12</b>	-4.13	cell wall mannoprotein
<b>orf19.2765</b>		-3.94	hypothetical protein
<b>orf19.5960</b>	<b>NCE102</b>	-3.93	non-classical protein export pathway
<b>orf19.7550</b>		-3.92	ORF MSV011 leucine rich repeat gene family protein
<b>orf19.2003</b>	<b>HNM2</b>	-3.84	choline permease
<b>orf19.6420</b>		-3.76	hypothetical membrane protein with repeated hydrophobic/hydrophilic domains
<b>orf19.288</b>	<b>MET13</b>	-3.71	methylene tetrahydrofolate reductase
<b>orf19.3618</b>	<b>YWP1</b>	-3.69	putative cell wall protein
<b>orf19.4211</b>	<b>FET3</b>	-3.68	multicopper ferro-O2- oxidoreductase involved in high-affinity iron uptake
<b>orf19.6817</b>	<b>FCR1</b>	-3.56	zinc finger transcription factor involved in pleiotropic drug resistance
<b>orf19.4885</b>	<b>MIR1</b>	-3.48	mitochondrial phosphate transport protein

<b>orf19.3911</b>	<b>SAH1</b>	-3.42	S-adenosyl-L-homocysteine hydrolase
<b>orf19.2659</b>		-3.22	conserved hypothetical protein
<b>orf19.1172</b>	<b>PHO84</b>	-3.21	inorganic phosphate permease methionine-synthesizing 5- methyltetrahydropteroylglutamate--homocysteine methyltransferase
<b>orf19.2551</b>	<b>MET6</b>	-3.21	
<b>orf19.3713</b>		-3.19	hypothetical protein
<b>orf19.169</b>	<b>CHO2</b>	-3.18	phosphatidyl- ethanolamine N-methyltransferase
<b>orf19.1442</b>	<b>PLB4</b>	-3.07	phospholipase B (lysophospholipase)
<b>orf19.6844</b>	<b>ICL1</b>	-3.02	isocitrate lyase
<b>orf19.3700</b>	<b>TOM70</b>	-2.98	mitochondrial outer membrane specialized import receptor
<b>orf19.1979</b>	<b>GIT3</b>	-2.95	glycerophosphoinositol permease
<b>orf19.5591</b>	<b>ADO1</b>	-2.93	adenosine kinase
<b>orf19.6078</b>		-2.93	conserved hypothetical protein
<b>orf19.4833</b>	<b>MLS1</b>	-2.9	malate synthase
<b>orf19.4342</b>		-2.9	conserved hypothetical protein
<b>orf19.655</b>	<b>PHO842</b>	-2.89	high-affinity inorganic phosphate/H <sup>+</sup> symporter
<b>orf19.7021</b>	<b>GPH1</b>	-2.86	glycogen phosphorylase
<b>orf19.7446</b>	<b>OPI3</b>	-2.85	methylene-fatty-acyl-phospholipid synthase
<b>orf19.1353</b>		-2.83	hypothetical protein
<b>orf19.5117</b>	<b>OLE1</b>	-2.81	stearoyl-CoA desaturase
<b>orf19.5288</b>	<b>YAL60</b>	-2.78	Zn-containing alcohol dehydrogenase
<b>orf19.251</b>		-2.75	conserved hypothetical protein
<b>orf19.4966</b>		-2.74	probable mitochondrial carrier protein
<b>orf19.1770</b>	<b>CYC1</b>	-2.72	cytochrome-c isoform 1
<b>orf19.6763</b>	<b>SLK19</b>	-2.71	protein involved in control of spindle dynamics together with kar3p
<b>orf19.1618</b>	<b>GFA1</b>	-2.68	glucosamine-6- phosphate synthase
<b>orf19.3793</b>		-2.66	hypothetical protein
<b>orf19.2003</b>	<b>HNM2</b>	-2.63	choline permease
<b>orf19.3219</b>		-2.63	phosphohydrolase
<b>orf19.2432</b>	<b>HAC1</b>	-2.63	transcription factor that binds to CRE motif
<b>orf19.6983</b>		-2.6	conserved hypothetical protein
<b>orf19.3215</b>		-2.59	hypothetical protein

<b>orf19.6002</b>	<b>RPL8B</b>	-2.57	ribosomal protein L8B (L4B) (rp6) (YL5)
<b>orf19.979</b>	<b>FAS1</b>	-2.57	fatty-acyl-CoA synthase, beta chain
			small monomeric GTPase involved in hyphae differentiation and the transmission of cAMP signals
<b>orf19.1760</b>	<b>RAS1</b>	-2.55	cell surface protein
<b>orf19.2531</b>	<b>CSP37</b>	-2.55	S- adenosylmethionine synthetase
<b>orf19.657</b>	<b>SAM2</b>	-2.5	phosphoglucomutase
<b>orf19.2841</b>	<b>PGM2</b>	-2.48	glutathione peroxidase
<b>orf19.85</b>	<b>GPX1</b>	-2.48	phosphate permease
<b>orf19.2454</b>	<b>PHO87</b>	-2.48	cytochrome-c peroxidase
<b>orf19.238</b>	<b>CCP1</b>	-2.44	potential membrane protein
<b>orf19.3414</b>	<b>SUR7</b>	-2.41	actin-related protein
<b>orf19.3359</b>	<b>ARP8</b>	-2.4	hypothetical protein
<b>orf19.334</b>		-2.37	hypothetical protein
<b>orf19.4959</b>		-2.37	RNase P subunit
<b>orf19.48</b>	<b>RPM2</b>	-2.36	nucleotide phosphodiesterase
<b>orf19.2972</b>	<b>PDE2</b>	-2.36	glutamine synthetase
<b>orf19.646</b>	<b>GLN1</b>	-2.36	agglutinin like protein 1
<b>orf19.5741</b>	<b>ALS1-1</b>	-2.36	conserved hypothetical protein
<b>orf19.1862</b>		-2.35	malate dehydrogenase
<b>orf19.7481</b>	<b>MDH2</b>	-2.33	benzil reductase
<b>orf19.6837</b>		-2.33	polyphosphate synthetase
<b>orf19.4381</b>	<b>VTC2</b>	-2.33	cytochrome-c peroxidase
<b>orf19.238</b>	<b>CCP1</b>	-2.32	Na+ ATPase
<b>orf19.6070</b>	<b>ENA5</b>	-2.31	ubiquinol-cytochrome-c reductase 40KD chain II
<b>orf19.2644</b>	<b>QCR2</b>	-2.3	translation release factor 3
<b>orf19.1378</b>	<b>ERF3</b>	-2.29	induced by osmotic stress
<b>orf19.4309</b>	<b>GRP3</b>	-2.28	Long chain base Stimulates Phosphorylation
<b>orf19.3149</b>	<b>LSP1</b>	-2.27	hypothetical protein
<b>orf19.2766</b>		-2.26	aspartate aminotransferase
<b>orf19.3554</b>	<b>AAT1</b>	-2.26	transporter involved in nitrogen utilization
<b>orf19.2496</b>	<b>FUN34</b>	-2.24	protein tyrosine phosphatase
<b>orf19.7610</b>	<b>PTP3</b>	-2.23	

<b>orf19.4991</b>	<b>MPT5</b>	-2.23	protein necessary for high temperature growth
<b>orf19.7349</b>	<b>CHS4</b>	-2.22	chitin synthase regulatory factor
<b>orf19.2680</b>	<b>DNF3</b>	-2.22	aminophospholipid-translocating ATPase
<b>orf19.97</b>	<b>CAN2</b>	-2.22	arginine permease
<b>orf19.1680</b>	<b>TFP1</b>	-2.22	vacuolar ATPase V1 domain catalytic subunit A
<b>orf19.2767</b>		-2.21	hypothetical protein
<b>orf19.3603</b>		-2.21	conserved hypothetical protein
<b>orf19.7001</b>	<b>YCK2</b>	-2.2	casein kinase I
<b>orf19.1783</b>	<b>YOR1</b>	-2.2	oligomycin resistance ATP-dependent permease   ABC transporter
<b>orf19.4488</b>	<b>SWI3</b>	-2.2	general RNA polymerase II transcription factor
<b>orf19.7381</b>	<b>LYS145</b>	-2.19	zinc finger transcription factor
<b>orf19.178</b>		-2.19	hypothetical protein
<b>orf19.147</b>	<b>YAK2</b>	-2.18	serine-threonine protein kinase, PKA suppressor
<b>orf19.4495</b>	<b>NUO51</b>	-2.18	NADH dehydrogenase complex I   nucleotide-binding respiratory complex I subunit
<b>orf19.717</b>	<b>HSP60</b>	-2.18	mitochondrial groEL-type heat shock protein
<b>orf19.1995</b>	<b>MNN5</b>	-2.17	alpha-1,2- mannosyltransferase
<b>orf19.5063</b>		-2.17	hypothetical protein
<b>orf19.3793</b>		-2.16	hypothetical protein
<b>orf19.6556</b>		-2.16	conserved hypothetical protein
<b>orf19.1027</b>	<b>PDR16</b>	-2.15	phosphatidylinositol transfer protein   drug resistance
<b>orf19.173</b>	<b>AZF1</b>	-2.15	DNA-binding transcription factor
<b>orf19.1535</b>		-2.15	hypothetical protein
<b>orf19.4262</b>	<b>JSN1</b>	-2.15	tubulin mutant, benomyl dependent
<b>orf19.5113</b>	<b>ADH2</b>	-2.14	alcohol dehydrogenase
<b>orf19.522</b>	<b>PIM1</b>	-2.14	mitochondrial ATP-dependent protease
<b>orf19.3599</b>	<b>TIF4631</b>	-2.13	mRNA cap binding protein eIF 4F
<b>orf19.6197</b>	<b>DHH1</b>	-2.13	RNA helicase of DEAD box family
<b>orf19.4649</b>		-2.13	zinc finger transcription factor
<b>orf19.1709</b>	<b>PXP18</b>	-2.13	sterol carrier protein
<b>orf19.7392</b>	<b>DED1</b>	-2.12	ATP-dependent RNA helicase of DEAD box family
<b>orf19.3997</b>	<b>ADH1</b>	-2.12	alcohol dehydrogenase 1
<b>orf19.5541</b>		-2.12	conserved hypothetical protein

<b>orf19.7466</b>	<b>ACC1</b>	-2.11	homologous to acetyl-coenzyme-A carboxylase
<b>orf19.7053</b>	<b>GAC1</b>	-2.11	regulatory subunit for phosphoprotein phosphatase type 1 (PP-1)
<b>orf19.3984</b>		-2.11	conserved hypothetical protein
<b>orf19.1964</b>		-2.11	conserved hypothetical protein
<b>orf19.508</b>	<b>QDR1</b>	-2.11	multidrug resistance transporter
<b>orf19.6763</b>	<b>SLK19</b>	-2.1	protein involved in control of spindle dynamics together with kar3p
<b>orf19.5334</b>	<b>TIS11</b>	-2.1	Zinc finger containing protein
<b>orf19.5305</b>	<b>RHD3</b>	-2.1	conserved protein repressed in hyphal development
<b>orf19.6812</b>	<b>PMT2</b>	-2.09	dolichyl-P-mannose-protein mannosyltransferase
<b>orf19.6007</b>		-2.08	similar to fatty acid elongating enzymes
<b>orf19.7487</b>	<b>RRT98</b>	-2.07	reverse transcriptase
<b>orf19.4890</b>	<b>CLA4</b>	-2.07	serine-threonine kinase involved in cytokinesis and maintenance of hyphal growth
			C-4 sterol methyl oxidase   membrane-bound non-heme di-iron oxygenase involved in lipid metabolism
<b>orf19.4631</b>	<b>ERG252</b>	-2.07	
<b>orf19.1128</b>	<b>MYO4</b>	-2.06	class II myosin   myosin-1 isoform (type II myosin) heavy chain
<b>orf19.2170</b>		-2.06	membrane transporter
<b>orf19.230</b>		-2.06	hypothetical protein
<b>orf19.3010.1</b>	<b>ECM33</b>	-2.05	3-prime end of ExtraCellular Mutant protein
<b>orf19.4322</b>	<b>DAP2</b>	-2.05	dipeptidyl aminopeptidase B
<b>orf19.7153</b>	<b>LOS1</b>	-2.03	tRNA transport receptor
<b>orf19.2992</b>	<b>RPA1</b>	-2.03	60S ribosomal protein
<b>orf19.1112</b>	<b>BUD7</b>	-2.03	involved in bud-site selection
<b>orf19.5949</b>	<b>FAS2</b>	-2.02	fatty acid synthase alpha subunit
<b>orf19.7239</b>	<b>CRP1</b>	-2.02	regulation of G-protein function
<b>orf19.4635</b>	<b>NIP1</b>	-2.02	subunit of translation initiation complex eIF3   associated with 40s ribosomal subunit
<b>orf19.1442</b>	<b>PLB4</b>	-2.02	phospholipase B (lysophospholipase)
<b>orf19.6763</b>	<b>SLK19</b>	-2.01	protein involved in control of spindle dynamics together with kar3p
<b>orf19.6281</b>		-2.01	conserved hypothetical protein
<b>orf19.4759</b>	<b>COX5A</b>	-2.01	cytochrome-c oxidase subunit Va
<b>orf19.5576</b>	<b>PNK1</b>	-2.01	panthotenate kinase, 3- prime end
<b>Up-regulated at 25°C</b>			
<b>orf19.5982</b>	<b>RPL18</b>	56.47	ribosomal protein L18A (rp28A)

<b>orf19.7265</b>	<b>SAD1</b>	13.06	snRNP assembly defective
<b>orf19.2672</b>	<b>NCP1</b>	12.64	NADPH-cytochrome P450 reductase methylenetetrahydrofolate dehydrogenase   NAD-dependent 5,10-methylenetetrahydrofolate dehydrogenase   NAD-dependent 5,10- methylenetetrahydrofolate dehydrogenase   methylenetetrahydrofolate dehydrogenase (NAD+)
<b>orf19.3810</b>	<b>MTD1</b>	12.5	regulator protein involved in pleiotropic drug resistance that forms a ribosome-associated complex   DnaJ/HSP70 chaperone
<b>orf19.3812</b>	<b>SSZ1</b>	12.34	
<b>orf19.6540</b>	<b>PFK2</b>	10.89	PFK2
<b>orf19.6548</b>	<b>ISU1</b>	10.27	iron-sulfur cluster nifU-like
<b>orf19.3130</b>		9.98	highly conserved hypothetical protein
<b>orf19.2669</b>		8.55	rev product adjacent to gag/pol products
<b>orf19.3120</b>		8.52	highly conserved hypothetical protein, possible ABC transporter
<b>orf19.2676</b>	<b>IKI1</b>	8.4	RNA polymerase II elongator associated protein
<b>orf19.3448</b>		7.9	hypothetical protein
<b>orf19.6506</b>		7.6	conserved hypothetical protein
<b>orf19.3817</b>	<b>RTS2</b>	6.89	similar to mouse KIN7 protein
<b>orf19.4203</b>	<b>NDC1</b>	6.69	nuclear envelope protein
<b>orf19.2678</b>	<b>BUB1</b>	6.43	ser/thr protein kinase in mitosis checkpoint transcription factor regulating basal and induced activity of histidine and adenine biosynthesis genes
<b>orf19.3809</b>	<b>BAS1</b>	6.1	
<b>orf19.3127</b>	<b>CZF1</b>	5.25	zinc finger protein
<b>orf19.2410</b>	<b>IMH1</b>	4.95	involved in vesicular transport
<b>orf19.6357</b>	<b>MAD1</b>	4.73	coiled-coil protein involved in the spindle-assembly checkpoint
<b>orf19.2340</b>	<b>CDC48</b>	4.18	microsomal ATPase involved in secretion, peroxisome formation and gene expression
<b>orf19.3115</b>		3.93	hypothetical protein
<b>orf19.5139</b>		3.81	hypothetical protein
<b>orf19.2909</b>	<b>ERG26</b>	3.46	C-3 sterol dehydrogenase
<b>orf19.2667</b>	<b>RPF1</b>	3.45	nucleolar protein involved in rRNA processing
<b>orf19.2143</b>		3.41	conserved hypothetical protein
<b>orf19.4191</b>	<b>RLP24</b>	3.39	similar to ribosomal protein L24.e.B
<b>orf19.1083</b>		3.33	conserved hypothetical protein
<b>orf19.2774</b>	<b>LIP12</b>	3.29	lipoic acid synthase
<b>orf19.1932</b>	<b>FRE5</b>	3.29	ferric reductase

<b>orf19.1566</b>	<b>UTP21</b>	3.21	U3 snoRNP protein   strong similarity to <i>S. pombe</i> beta-transducin
<b>orf19.1248</b>	<b>RPB3</b>	3.2	45 kDa subunit of RNA polymerase II
<b>orf19.1234</b>		3.19	hypothetical protein
<b>orf19.5299</b>	<b>ECM1</b>	3.14	cell wall structure or biosynthesis
<b>orf19.42</b>		3.08	transport protein
<b>orf19.5678</b>	<b>DPH3</b>	3	conserved hypothetical protein   similar to diphtheria toxin resistance protein
<b>orf19.1217</b>		2.89	conserved hypothetical protein
<b>orf19.6402</b>	<b>CYS3</b>	2.87	cystathionine gamma-lyase
<b>orf19.1642</b>	<b>LOC1</b>	2.86	nuclear mRNA binding protein
<b>orf19.3103</b>	<b>RPO31</b>	2.84	RNA polymerase III large subunit
<b>orf19.3778</b>		2.82	WD-repeat protein
<b>orf19.6109</b>	<b>TUP1</b>	2.79	general transcription repressor
<b>orf19.5106</b>	<b>DIP2</b>	2.77	beta transducin
<b>orf19.3401</b>	<b>VPS60</b>	2.77	involved in vacuolar protein sorting
<b>orf19.2607</b>	<b>PMU2</b>	2.76	phosphomutase homolog
<b>orf19.5090</b>	<b>TAD3</b>	2.75	tRNA-specific adenosine-34 deaminase subunit
<b>orf19.6469</b>	<b>TCA99</b>	2.74	reverse transcriptase
<b>orf19.2146</b>	<b>HAT2</b>	2.74	histone acetyltransferase subunit
<b>orf19.3396</b>	<b>HCH1</b>	2.74	high copy Hsp90 suppressor
<b>orf19.3540</b>	<b>MAK5</b>	2.73	ATP-dependent RNA helicase
<b>orf19.6614</b>		2.71	DEAD/DEAH box helicase
<b>orf19.6114</b>		2.7	hypothetical protein
<b>orf19.5912</b>	<b>MAK21</b>	2.63	required for 60S ribosomal subunit biogenesis
<b>orf19.3125</b>		2.62	conserved hypothetical protein
<b>orf19.6718</b>		2.62	conserved hypothetical protein
<b>orf19.4611</b>	<b>PRS4</b>	2.61	ribose-phosphate pyrophosphokinase
<b>orf19.1913</b>		2.61	hypothetical protein
<b>orf19.5796</b>	<b>SHE9</b>	2.6	causes growth arrest when overexpressed
<b>orf19.1388</b>	<b>NOP16</b>	2.6	nucleolar protein involved in ribosome biogenesis
<b>orf19.4605</b>	<b>TYR1</b>	2.59	prephenate dehydrogenase   tyrosine biosynthesis
<b>orf19.5764</b>	<b>SKI8</b>	2.58	antiviral protein
<b>orf19.2098</b>	<b>ARO8</b>	2.58	aromatic amino acid aminotransferase

<b>orf19.1250</b>		2.58	conserved hypothetical protein
<b>orf19.6753</b>		2.57	conserved hypothetical protein
<b>orf19.5597</b>	<b>POL5</b>	2.57	DNA polymerase V, 5-prime end
<b>orf19.5634</b>	<b>FRP1</b>	2.57	ferric reductase
<b>orf19.6073</b>	<b>HMX1</b>	2.54	heme binding protein
<b>orf19.1412</b>		2.54	hypothetical protein
<b>orf19.5732</b>	<b>NOG2</b>	2.54	nuclear/nucleolar GTP-binding protein 2
<b>orf19.4666</b>		2.54	hypothetical protein
<b>orf19.1265</b>	<b>TRS130</b>	2.53	targeting complex (TRAPP) component involved in ER to Golgi membrane traffic
<b>orf19.2393</b>	<b>YTH2</b>	2.52	polyadenylation factor subunit
<b>orf19.7601</b>		2.51	conserved hypothetical protein
<b>orf19.5639</b>	<b>HIS4</b>	2.51	histidinol dehydrogenase
<b>orf19.4181</b>	<b>SPC2</b>	2.5	subunit of signal peptidase complex
<b>orf19.6828</b>	<b>RRP1</b>	2.49	protein Involved in processing rRNA precursor species to mature rRNAs
<b>orf19.367</b>	<b>CNH1</b>	2.49	Na+/H+ antiporter
<b>orf19.6314</b>	<b>RPB8</b>	2.48	16-kDa RNA polymerase subunit (common to polymerases I, II and III)
<b>orf19.4171</b>		2.47	conserved hypothetical protein
<b>orf19.7675</b>	<b>MRPL25</b>	2.46	mitochondrial ribosomal protein MRPL25
<b>orf19.1996</b>	<b>CHA2</b>	2.46	catabolic serine/threonine dehydratase
<b>orf19.5768</b>	<b>SNF4</b>	2.46	nuclear protein
<b>orf19.1220</b>	<b>RVS167</b>	2.46	cytoskeletal binding and regulatory protein
<b>orf19.3370</b>	<b>UBP10</b>	2.46	ubiquitin-specific protease
<b>orf19.2917</b>	<b>NUG1</b>	2.45	GTPase involved in ribosome biogenesis
<b>orf19.124</b>	<b>CIC1</b>	2.44	protease substrate recruitment factor
<b>orf19.5732</b>	<b>NOG2</b>	2.43	nuclear/nucleolar GTP-binding protein 2
<b>orf19.7258</b>	<b>DDI1</b>	2.42	response to DNA alkylation
<b>orf19.43</b>		2.42	hypothetical protein
<b>orf19.4401</b>	<b>YVH1</b>	2.42	protein-tyrosine phosphatase
<b>orf19.5519</b>	<b>GCV1</b>	2.42	glycine cleavage T protein
<b>orf19.5182</b>	<b>CDC2</b>	2.42	DNA-directed DNA polymerase delta, catalytic 125 KD subunit
<b>orf19.3099</b>	<b>TRP4</b>	2.41	anthranilate phosphoribosyltransferase
<b>orf19.4193</b>		2.41	cofilin/tropomyosin-type actin-binding protein

<b>orf19.5066</b>		2.41	conserved hypothetical protein
<b>orf19.6324</b>	<b>VID27</b>	2.4	vacuole import and degradation
<b>orf19.1915</b>	<b>MPP10</b>	2.39	component of the U3 small nucleolar ribonucleoprotein (snoRNP)
<b>orf19.2708</b>		2.39	highly conserved hypothetical protein, involved in 35S rRNA processing
<b>orf19.1923</b>	<b>RRN3</b>	2.38	RNA polymerase I transcription factor
<b>orf19.6074</b>	<b>FAP7</b>	2.37	nuclear protein involved in oxidative stress response
<b>orf19.6730</b>		2.36	conserved hypothetical protein
<b>orf19.4079</b>	<b>SLP2</b>	2.35	potential SPFH domain   possible regulator of cation conductance
<b>orf19.2107</b>	<b>MUQ1</b>	2.35	choline phosphate cytidylyltransferase   phosphoethanolamine cytidylyltransferase
<b>orf19.6213</b>	<b>SUI2</b>	2.34	translation initiation factor eIF2, alpha chain
<b>orf19.2742</b>		2.33	hypothetical protein
<b>orf19.4118</b>	<b>NNT1</b>	2.31	concentrative Na <sup>+</sup> -nucleoside cotransporter
<b>orf19.3564</b>	<b>RPC40</b>	2.31	RNA polymerase III (C) subunit
<b>orf19.7286</b>	<b>RPN7</b>	2.29	subunit of the regulatory particle of the proteasome
<b>orf19.5720</b>		2.29	monocarboxylate transporter proteins
<b>orf19.3370</b>	<b>UBP10</b>	2.29	ubiquitin-specific protease
<b>orf19.3415</b>	<b>PTK2</b>	2.27	putative serine/threonine protein kinase
<b>orf19.2251</b>	<b>AAH1</b>	2.27	adenine aminohydrolase   adenine deaminase
<b>orf19.3978</b>		2.27	conserved hypothetical protein
<b>orf19.2143</b>		2.27	conserved hypothetical protein
<b>orf19.5607</b>		2.26	hypothetical protein
<b>orf19.7422</b>	<b>LCP5</b>	2.26	nucleolar protein required for ribosomal RNA processing
<b>orf19.59</b>		2.26	zinc finger protein with unknown function
<b>orf19.5517</b>	<b>ADH6</b>	2.26	alcohol dehydrogenase
<b>orf19.2873</b>	<b>TOP2</b>	2.26	DNA topoisomerase II
<b>orf19.5660</b>	<b>PEX10</b>	2.25	peroxisomal biogenesis protein
<b>orf19.3366</b>	<b>CSH3</b>	2.25	ER chaperone required for proper uptake and sensing of extracellular amino acids
<b>orf19.4089</b>	<b>SGT1</b>	2.24	subunit of SCF ubiquitin ligase complex   regulator of cell cycle
<b>orf19.2251</b>	<b>AAH1</b>	2.24	adenine aminohydrolase   adenine deaminase
<b>orf19.1249</b>	<b>HIS6</b>	2.24	phosphoribosyl-5-amino-1-phosphoribosyl-4-imidazolecarboxiamide isomerase
<b>orf19.38</b>		2.24	hypothetical protein
<b>orf19.2030</b>		2.23	hypothetical protein

<b>orf19.1797</b>		2.23	conserved hypothetical protein
<b>orf19.3505</b>	<b>LIT1</b>	2.23	putative transcription factor
<b>orf19.4029</b>	<b>SQT1</b>	2.22	ribosomal assembly
<b>orf19.500</b>	<b>GCD10</b>	2.22	translation initiation factor 3 (eIF-3) zeta subunit
<b>orf19.5666</b>	<b>SUB1</b>	2.22	transcriptional coactivator
<b>orf19.1428</b>		2.22	hypothetical protein
<b>orf19.2688</b>	<b>NAN1</b>	2.22	U3 snoRNP protein in ribosomal small subunit (SSU) processosome
<b>orf19.157</b>		2.21	hypothetical protein
<b>orf19.386</b>	<b>SAM4</b>	2.21	AdoMet-homocysteine methyltransferase
<b>orf19.4167</b>		2.21	hypothetical protein
<b>orf19.1923</b>	<b>RRN3</b>	2.21	RNA polymerase I transcription factor
<b>orf19.4447</b>	<b>YMC1</b>	2.2	mitochondrial carrier protein
<b>orf19.6710</b>		2.2	hypothetical protein
<b>orf19.366</b>	<b>RAD17</b>	2.2	3'-5' exonuclease
<b>orf19.5440</b>		2.19	26S proteasome subunit
<b>orf19.3128</b>	<b>SLY1</b>	2.18	t-SNARE- interacting protein that functions in ER-to-Golgi traffic
<b>orf19.5765</b>	<b>NUP82</b>	2.18	nuclear pore protein
<b>orf19.6312</b>	<b>RPS3</b>	2.18	ribosomal protein S3 (rp13) (YS3)
<b>orf19.5772</b>		2.17	actin overexpression resistant
<b>orf19.3091</b>		2.17	hypothetical protein
<b>orf19.93</b>		2.17	conserved hypothetical protein
<b>orf19.5614</b>	<b>RNH2</b>	2.16	ribonuclease H
<b>orf19.1562</b>		2.16	hypothetical protein
<b>orf19.4718</b>	<b>TRP5</b>	2.16	tryptophan synthetase
<b>orf19.2630</b>	<b>RAD59</b>	2.16	involved in mitotic recombination and DNA repair
<b>orf19.7605</b>	<b>PUP1</b>	2.15	20S proteasom ebata2 subunit
<b>orf19.2871</b>	<b>SDH3</b>	2.15	succinate dehydrogenase
<b>orf19.3797</b>	<b>MPRL11</b>	2.14	mitochondrial ribosomal protein (YmL11)
<b>orf19.5767</b>	<b>CUS2</b>	2.13	cold sensitive U2 snRNA Suppressor
<b>orf19.6321</b>		2.13	hypothetical protein
<b>orf19.5989</b>	<b>HRP1</b>	2.12	nuclear polyadenylated-RNA- binding protein
<b>orf19.6959</b>	<b>HOM32</b>	2.12	first step in common pathway for methionine and threonine biosynthesis   aspartate kinase (L-

<b>orf19.4399</b>			aspartate 4-P-transferase)   L-aspartate 4-P-transferase
<b>orf19.5515</b>	<b>CBP3</b>	2.12	conserved hypothetical protein
<b>orf19.5461</b>		2.12	involved in cytochrome-c reductase assembly
<b>orf19.5658</b>	<b>MNN10</b>	2.11	hypothetical protein
<b>orf19.6648</b>	<b>SDA1</b>	2.11	galactosyltransferase
<b>orf19.6190</b>	<b>PSA1</b>	2.11	required for normal organization of the actin cytoskeleton and passage through Start
<b>orf19.2385</b>	<b>KTI12</b>	2.11	GDP-mannose pyrophosphorylase
<b>orf19.6751</b>	<b>TRM7</b>	2.11	RNA polymerase II Elongator associated protein
<b>orf19.5793</b>	<b>RPT3</b>	2.1	tRNA methyltransferase
<b>orf19.3409</b>	<b>SED4</b>	2.1	26S proteasome regulatory subunit
<b>orf19.105</b>	<b>MET22</b>	2.1	involved in vesicle formation at the endoplasmic reticulum
<b>orf19.3089</b>		2.1	3'(2')5'-bisphosphate nucleotidase , possibly involved in salt tolerance and methionine synthesis
<b>orf19.2711</b>	<b>ELP2</b>	2.1	3'(2')5'-bisphosphate nucleotidase , possibly involved in salt tolerance and methionine synthesis
<b>orf19.2154</b>	<b>HXK1</b>	2.1	possibly involved in intramitochondrial sorting
<b>orf19.6570</b>	<b>NUP3</b>	2.09	hexokinase I
<b>orf19.3123</b>	<b>RPT5</b>	2.09	purine nucleoside permease
<b>orf19.3449</b>		2.09	26S proteasome regulatory subunit
<b>orf19.6297</b>	<b>DEG1</b>	2.09	highly conserved hypothetical protein
<b>orf19.2604</b>		2.09	pseudouridine synthase   rRNA methyltransferase
<b>orf19.2920</b>		2.09	highly conserved hypothetical protein
<b>orf19.4627</b>	<b>NUP120</b>	2.09	highly conserved hypothetical protein
<b>orf19.5665</b>		2.08	nuclear pore protein
<b>orf19.2889</b>	<b>IES6</b>	2.08	conserved hypothetical protein
<b>orf19.2320</b>	<b>RIO1</b>	2.08	conserved hypothetical protein
<b>orf19.5564</b>	<b>RNH1</b>	2.08	protein serine kinase
<b>orf19.7552</b>		2.08	ribonuclease H, exon 2
<b>orf19.3126</b>	<b>CCT6</b>	2.07	conserved hypothetical protein
<b>orf19.52</b>	<b>MMT2</b>	2.07	cytoplasmic chaperonin of the Cct ring complex
<b>orf19.3080</b>	<b>SCC2</b>	2.07	mitochondrial protein with role in iron accumulation
<b>orf19.6014</b>	<b>RRS1</b>	2.07	sister chromatid cohesion protein
			sister chromatid cohesion protein
			regulator of ribosome synthesis

<b>orf19.7657</b>	<b>POP3</b>	2.06	RNase P and RNase MRP subunit
<b>orf19.5009</b>	<b>KEL3</b>	2.06	Kelch-repeat containing protein
<b>orf19.4183</b>		2.06	Pro/Ser-rich protein
<b>orf19.4676</b>		2.06	conserved hypothetical protein
<b>orf19.2131</b>	<b>TUL1</b>	2.06	transmembrane ubiquitin ligase
<b>orf19.4639.1</b>	<b>PWP1</b>	2.06	beta-transducin superfamily with periodic tryptophan residues
<b>orf19.3827</b>		2.05	conserved hypothetical protein
<b>orf19.4004</b>	<b>CCT3</b>	2.05	chaperonin
<b>orf19.5768</b>	<b>SNF4</b>	2.05	nuclear protein
<b>orf19.1261</b>	<b>CEG1</b>	2.05	mRNA capping enzyme alpha subunit and guanylyltransferase
<b>orf19.3967</b>	<b>PFK1</b>	2.05	6-phosphofructokinase, alpha subunit
<b>orf19.3775</b>	<b>SSK2</b>	2.05	MAP kinase kinase kinase   Activator of Pbs2p
<b>orf19.6862</b>		2.04	conserved hypothetical protein
<b>orf19.7618</b>		2.03	conserved hypothetical protein
<b>orf19.7109</b>		2.03	ankyrin repeat protein
<b>orf19.3055</b>	<b>SRB4</b>	2.03	subunit of RNA polymerase II holoenzyme
<b>orf19.4177</b>	<b>HIS5</b>	2.03	histidinol-phosphate aminotransferase
<b>orf19.6369</b>	<b>RIO2</b>	2.03	conserved protein of unknown function
<b>orf19.789</b>	<b>PYC2</b>	2.03	pyruvate carboxylase
<b>orf19.962</b>		2.02	hypothetical protein
<b>orf19.3076</b>	<b>TVP15</b>	2.02	conserved hypothetical protein
<b>orf19.156</b>		2.01	hypothetical protein
<b>orf19.7658</b>	<b>RFC4</b>	2.01	DNA replication factor C
<b>orf19.3244</b>		2.01	conserved hypothetical protein
<b>orf19.3846</b>	<b>LYS4</b>	2.01	homoaconitase
<b>orf19.6955</b>	<b>NOB1</b>	2.01	Nin1 (One) Binding protein
<b>orf19.2465</b>		2.01	hypothetical protein
<b>orf19.5710</b>	<b>NSP2</b>	2.01	nuclear pore protein
<b>orf19.364</b>	<b>VMA6</b>	2.01	vacuolar ATPase
<b>orf19.5753</b>	<b>STL1</b>	2.01	sugar transporter
<b>orf19.5812</b>		2	conserved hypothetical protein
<b>orf19.4940</b>	<b>HIP1</b>	2	histidine permease

<b>orf19.3129</b>	<b>RVB1</b>	2	RUVB-like protein
<b>orf19.5734</b>	<b>POP2</b>	2	glucose derepression
<b>orf19.5526</b>	<b>SEC20</b>	2	secretory pathway protein
<b>orf19.1791</b>	<b>MAK11</b>	2	involved in cell growth and viral replication
<b>orf19.3921</b>	<b>FSH3</b>	2	dihydrofolate reductase
<b>orf19.2135</b>	<b>TAF2</b>	2	component of TFIID complex
<b>orf19.494</b>	<b>NAF1</b>	2	nuclear snoRNA binding and assembly factor
<b>Down-regulated at 37°C</b>			
<b>orf19.2767</b>		-20.48	hypothetical protein
<b>orf19.7219</b>	<b>FTR1</b>	-16.75	plasma membrane iron permease
<b>orf19.2020</b>	<b>HXT6</b>	-14.22	hexose transporter
<b>orf19.2765</b>		-12.28	hypothetical protein
<b>orf19.6133</b>	<b>PIF1</b>	-9.99	DNA helicase, mitochondrial
<b>orf19.6814</b>	<b>TDH3</b>	-9.72	GLYCERALDEHYDE 3- PHOSPHATE DEHYDROGENASE
<b>orf19.1321</b>	<b>HWP1</b>	-9.56	hyphal wall protein
<b>orf19.2765</b>		-9.43	hypothetical protein
<b>orf19.1321</b>	<b>HWP1</b>	-9.34	hyphal wall protein
<b>orf19.1321</b>	<b>HWP1</b>	-9.11	hyphal wall protein
<b>orf19.5383</b>	<b>PMA1</b>	-8.03	plasma membrane H+-ATPase
<b>orf19.1353</b>		-7.77	hypothetical protein
<b>orf19.5741</b>	<b>ALS1-1</b>	-7.43	agglutinin like protein 1
<b>orf19.2355</b>	<b>ALS2</b>	-7.35	agglutinin-like protein 2
<b>orf19.3384</b>	<b>RBT12</b>	-6.94	repressed by TUP1 protein 1
<b>orf19.4885</b>	<b>MIR1</b>	-6.38	mitochondrial phosphate transport protein
<b>orf19.2766</b>		-6.37	hypothetical protein
<b>orf19.5960</b>	<b>NCE102</b>	-5.97	non-classical protein export pathway
<b>orf19.1097</b>	<b>ALS4</b>	-5.79	agglutinin like protein 4
<b>orf19.2023</b>	<b>HXT3</b>	-5.54	hexose transporter
<b>orf19.4216</b>	<b>HSP122</b>	-5.5	heat shock protein
<b>orf19.5117</b>	<b>OLE1</b>	-5.45	stearoyl-CoA desaturase
<b>orf19.2659</b>		-5.39	conserved hypothetical protein
<b>orf19.4618</b>	<b>FBA1</b>	-5.31	fructose-bisphosphate aldolase

<b>orf19.6375</b>	<b>RPS20</b>	-5.2	ribosomal protein S20
<b>orf19.4216</b>	<b>HSP122</b>	-5.06	heat shock protein
<b>orf19.6906</b>	<b>ASC1</b>	-5.03	WD repeat protein that interacts with the translational machinery
<b>orf19.1435</b>	<b>TEF2</b>	-5.01	translational elongation factor EF- 1 alpha
<b>orf19.5741</b>	<b>ALS1-1</b>	-4.93	agglutinin like protein 1
<b>orf19.5117</b>	<b>OLE1</b>	-4.88	stearoyl-CoA desaturase
<b>orf19.1715</b>	<b>IRO1</b>	-4.88	transcription factor
<b>orf19.566</b>		-4.55	hypothetical protein
<b>orf19.6785</b>	<b>RPS12</b>	-4.41	acidic ribosomal protein S12
<b>orf19.5119</b>	<b>TEF1</b>	-4.39	elongation factor 1- alpha
<b>orf19.657</b>	<b>SAM2</b>	-4.39	S- adenosylmethionine synthetase
<b>orf19.930</b>	<b>PET9</b>	-4.35	ATP/ADP translocator
<b>orf19.4215</b>	<b>FET35</b>	-4.31	multicopper ferro-O2- oxidoreductase involved in high-affinity iron uptake
<b>orf19.7217</b>	<b>RPL4</b>	-4.16	ribosomal protein L4B
<b>orf19.4309</b>	<b>GRP3</b>	-4.13	induced by osmotic stress
<b>orf19.4941</b>	<b>TYE7</b>	-4.08	basic helix-loop-helix transcription factor
<b>orf19.5927</b>	<b>RPS15</b>	-4	ribosomal protein S15 (S21) (rp52) (RIG protein)
<b>orf19.3997</b>	<b>ADH1</b>	-4	alcohol dehydrogenase 1
<b>orf19.2531</b>	<b>CSP37</b>	-3.92	cell surface protein
<b>orf19.2685</b>		-3.88	hypothetical protein
<b>orf19.5007</b>	<b>ACT1</b>	-3.87	actin
<b>orf19.2021</b>	<b>HXT5</b>	-3.8	hexose transporter
<b>orf19.6608</b>		-3.79	transposase
<b>orf19.2013</b>	<b>KAR2</b>	-3.73	dnaK/HSP70/ BiP family ATPase and chaperone involved in translocation of nascent polypeptides across the ER membrane
<b>orf19.7015</b>	<b>RPP0</b>	-3.72	ribosomal protein P0 (A0) (L10E)
<b>orf19.2478.1</b>	<b>RPL7B</b>	-3.7	60S large subunit ribosomal protein
<b>orf19.1601</b>	<b>RPL3</b>	-3.67	60S large subunit ribosomal protein L3.e
<b>orf19.236</b>	<b>RPL9B</b>	-3.65	ribosomal protein L9B
<b>orf19.4959</b>		-3.62	hypothetical protein
<b>orf19.2168</b>		-3.61	hypothetical membrane protein
<b>orf19.1868</b>	<b>RNR3</b>	-3.6	small subunit of ribonucleotide reductase

<b>orf19.4649</b>		-3.56	zinc finger transcription factor
<b>orf19.4765</b>	<b>CCW12</b>	-3.55	cell wall mannoprotein
<b>orf19.6403.1</b>	<b>RPP2A</b>	-3.48	60S acidic ribosomal protein P2A (L44) (A2) (YP2alpha)
<b>orf19.1770</b>	<b>CYC1</b>	-3.43	cytochrome-c isoform 1
<b>orf19.5982</b>	<b>RPL18</b>	-3.42	ribosomal protein L18A (rp28A)
<b>orf19.979</b>	<b>FAS1</b>	-3.41	fatty-acyl-CoA synthase, beta chain
<b>orf19.7030</b>	<b>CCW14</b>	-3.38	cell wall mannoprotein   secretory Stress Response protein
<b>orf19.7021</b>	<b>GPH1</b>	-3.36	glycogen phosphorylase
<b>orf19.493</b>	<b>RPL15A</b>	-3.34	ribosomal protein L15B
<b>orf19.2021</b>	<b>HXT5</b>	-3.31	hexose transporter
<b>orf19.6745</b>	<b>TPI1</b>	-3.3	triose phosphate isomerase
<b>orf19.1862</b>		-3.28	conserved hypothetical protein
<b>orf19.7610</b>	<b>PTP3</b>	-3.27	protein tyrosine phosphatase
<b>orf19.3911</b>	<b>SAH1</b>	-3.27	S-adenosyl-L-homocysteine hydrolase
<b>orf19.3149</b>	<b>LSP1</b>	-3.27	Long chain base Stimulates Phosphorylation
<b>orf19.395</b>	<b>ENO1</b>	-3.25	enolase I
<b>orf19.655</b>	<b>PHO842</b>	-3.23	high-affinity inorganic phosphate/H <sup>+</sup> symporter
<b>orf19.1051</b>	<b>HTA2</b>	-3.22	histone 2A
<b>orf19.6873</b>	<b>RPS8</b>	-3.21	ribosomal protein S8E
<b>orf19.7606</b>		-3.2	hypothetical protein
<b>orf19.778</b>	<b>PIL1</b>	-3.19	conserved protein
<b>orf19.3354</b>	<b>S4</b>	-3.18	40S ribosomal protein
<b>orf19.2841</b>	<b>PGM2</b>	-3.18	phosphoglucomutase
<b>orf19.3575</b>	<b>CDC19</b>	-3.16	pyruvate kinase
<b>orf19.3475</b>		-3.12	Gag protein
<b>orf19.3642</b>	<b>SUN4</b>	-3.11	beta-glucosidase
<b>orf19.1206</b>	<b>FET34</b>	-3.1	iron transport multicopper oxidase
<b>orf19.3414</b>	<b>SUR7</b>	-3.09	potential membrane protein
<b>orf19.3074</b>	<b>CTA2</b>	-3.08	hypothetical protein
<b>orf19.6253</b>	<b>RPS23</b>	-3.08	ribosomal protein S23A
<b>orf19.7585</b>	<b>INO1</b>	-3.06	myo-inositol-1- phosphate synthase
<b>orf19.4490</b>	<b>RPL17B</b>	-3.05	ribosomal protein L17B

<b>orf19.5928</b>	<b>RPP2B</b>	-3.04	acidic ribosomal protein P2B   ribosomal protein P2B (YP2beta) (L45)
<b>orf19.6146</b>	<b>CLG1</b>	-3.04	cyclin-like protein
<b>orf19.227</b>	<b>COX7</b>	-3.04	cytochrome-c oxidase, subunit VII
<b>orf19.2551</b>	<b>MET6</b>	-3.03	methionine-synthesizing 5- methyltetrahydropteroylglutamate--homocysteine methyltransferase
<b>orf19.493</b>	<b>RPL15A</b>	-3	ribosomal protein L15B
<b>orf19.6562</b>	<b>RNH35</b>	-2.97	ribonuclease H
<b>orf19.3334</b>	<b>RPS2</b>	-2.95	ribosomal protein
<b>orf19.6002</b>	<b>RPL8B</b>	-2.94	ribosomal protein L8B (L4B) (rp6) (YL5)
<b>orf19.1327</b>	<b>RBT1</b>	-2.92	repressed by Tup1, related to HWP1
<b>orf19.7481</b>	<b>MDH2</b>	-2.89	malate dehydrogenase
<b>orf19.2803</b>	<b>HEM13</b>	-2.89	coprophyrinogen oxidase   heme biosynthesis
<b>orf19.6253</b>	<b>RPS23</b>	-2.88	ribosomal protein S23A
<b>orf19.1470</b>	<b>RPS26A</b>	-2.86	40S small subunit ribosomal protein S26A
<b>orf19.4152</b>	<b>EFT3</b>	-2.86	translation elongation factor
<b>orf19.1052</b>	<b>HTB2</b>	-2.84	histone 2B
<b>orf19.251</b>		-2.84	conserved hypothetical protein
<b>orf19.5341</b>	<b>RPS4</b>	-2.83	ribosomal protein S4
<b>orf19.3895</b>	<b>CHT2</b>	-2.83	chitinase 2 precursor
<b>orf19.683</b>	<b>ADK1</b>	-2.8	adenylate kinase
<b>orf19.1340</b>		-2.78	aldose reductase
<b>orf19.646</b>	<b>GLN1</b>	-2.75	glutamine synthetase
<b>orf19.7502</b>		-2.74	hypothetical protein
<b>orf19.5293</b>		-2.74	conserved hypothetical protein
<b>orf19.6791</b>	<b>HHT3</b>	-2.72	histone H3
<b>orf19.2992</b>	<b>RPA1</b>	-2.7	60S ribosomal protein
<b>orf19.4456</b>	<b>GAP4</b>	-2.69	amino acid permease
<b>orf19.717</b>	<b>HSP60</b>	-2.69	mitochondrial groEL-type heat shock protein
<b>orf19.2644</b>	<b>QCR2</b>	-2.68	ubiquinol--cytochrome-c reductase 40KD chain II
<b>orf19.3335</b>		-2.68	hypothetical protein
<b>orf19.3038</b>	<b>TPS2</b>	-2.66	threalose-6-phosphate phosphatase
<b>orf19.2355</b>	<b>ALS2</b>	-2.63	agglutinin-like protein 2

<b>orf19.3215</b>		-2.62	hypothetical protein
<b>orf19.1738</b>	<b>UGP1</b>	-2.6	UTP-glucose-1-phosphate uridylyltransferase
<b>orf19.5741</b>	<b>ALS1-1</b>	-2.6	agglutinin like protein 1
<b>orf19.712</b>	<b>KIP1</b>	-2.59	kinesin-related protein involved in mitotic spindle assembly
<b>orf19.1738</b>	<b>UGP1</b>	-2.57	UTP-glucose-1-phosphate uridylyltransferase
<b>orf19.4848</b>	<b>SKI3</b>	-2.56	antiviral protein with tetratricopeptide repeats
<b>orf19.3700</b>	<b>TOM70</b>	-2.56	mitochondrial outer membrane specialized import receptor
<b>orf19.1618</b>	<b>GFA1</b>	-2.56	glucosamine-6- phosphate synthase
<b>orf19.3156</b>	<b>MEDA</b>	-2.55	developmental regulator medusa
<b>orf19.7053</b>	<b>GAC1</b>	-2.53	regulatory subunit for phosphoprotein phosphatase type 1 (PP-1)
<b>orf19.903</b>	<b>GPM1</b>	-2.51	phosphoglycerate mutase
<b>orf19.2935</b>	<b>RPL10</b>	-2.5	ribosomal protein L10
<b>orf19.6472</b>	<b>CPR1</b>	-2.5	peptidyl-prolyl cis-trans isomerase
<b>orf19.5024</b>	<b>GND1</b>	-2.48	6-phosphogluconate dehydrogenase
<b>orf19.2778</b>		-2.48	conserved hypothetical protein
<b>orf19.3156</b>	<b>MEDA</b>	-2.47	developmental regulator medusa
<b>orf19.508</b>	<b>QDR1</b>	-2.47	multidrug resistance transporter
<b>orf19.1471</b>	<b>COX4</b>	-2.46	cytochrome c oxidase subunit IV
<b>orf19.5788</b>	<b>EFT2</b>	-2.43	translation elongation factor 2 (EF-2)
<b>orf19.922</b>	<b>ERG11</b>	-2.43	cytochrome P450 lanosterol 14a-demethylase
<b>orf19.1716</b>	<b>URA3</b>	-2.42	orotidine-5'-phosphate decarboxylase
<b>orf19.4980</b>	<b>HSP70</b>	-2.42	heat shock protein 70
<b>orf19.3599</b>	<b>TIF4631</b>	-2.41	mRNA cap binding protein eIF 4F
<b>orf19.236</b>	<b>RPL9B</b>	-2.39	ribosomal protein L9B
<b>orf19.4311</b>	<b>YNK1</b>	-2.39	nucleoside diphosphate kinase
<b>orf19.7514</b>	<b>PCK1</b>	-2.37	phosphoenolpyruvate carboxykinase
<b>orf19.1896</b>	<b>SSC1</b>	-2.37	mitochondrial heat shock protein of the HSP70 family
<b>orf19.85</b>	<b>GPX1</b>	-2.37	glutathione peroxidase
<b>orf19.7323</b>	<b>CBP1</b>	-2.36	corticosteroid- binding protein
<b>orf19.6663</b>	<b>RPS25</b>	-2.36	ribosomal protein S25
<b>orf19.2994</b>	<b>RPL13</b>	-2.36	ribosomal protein
<b>orf19.3651</b>	<b>PGK1</b>	-2.36	phosphoglycerate kinase

<b>orf19.1896</b>	<b>SSC1</b>	-2.35	mitochondrial heat shock protein of the HSP70 family
<b>orf19.5806</b>	<b>ALD5</b>	-2.34	aldehyde dehydrogenase
<b>orf19.915</b>	<b>LRR</b>	-2.34	leucine rich repeat protein
<b>orf19.2992</b>	<b>RPA1</b>	-2.34	60S ribosomal protein
<b>orf19.1172</b>	<b>PHO84</b>	-2.34	inorganic phosphate permease
<b>orf19.7239</b>	<b>CRP1</b>	-2.33	regulation of G-protein function
<b>orf19.1806</b>		-2.32	hypothetical protein
<b>orf19.6701</b>		-2.31	proline-tRNA ligase
<b>orf19.3618</b>	<b>YWP1</b>	-2.31	putative cell wall protein
<b>orf19.273</b>		-2.31	conserved hypothetical protein
<b>orf19.48</b>	<b>RPM2</b>	-2.31	RNase P subunit
<b>orf19.5949</b>	<b>FAS2</b>	-2.3	fatty acid synthase alpha subunit
<b>orf19.4118</b>	<b>NNT1</b>	-2.29	concentrative Na+-nucleoside cotransporter
<b>orf19.3010.1</b>	<b>ECM33</b>	-2.29	3-prime end of ExtraCellular Mutant protein
<b>orf19.5788</b>	<b>EFT2</b>	-2.28	translation elongation factor 2 (EF-2)
<b>orf19.815</b>		-2.27	DOCK180 protein
<b>orf19.1700</b>	<b>RPS7A</b>	-2.27	ribosomal protein S7A
<b>orf19.3590</b>	<b>IPP1</b>	-2.27	inorganic pyrophosphatase
<b>orf19.6604</b>		-2.26	hypothetical protein
<b>orf19.4660</b>	<b>RPS6A</b>	-2.26	ribosomal protein S6A (S10A) (rp9) (YS4)
<b>orf19.4737</b>	<b>DHA12</b>	-2.26	membrane transporter of the MFS-MDR family
<b>orf19.18</b>	<b>IMD3</b>	-2.25	inosine-5'- monophosphate dehydrogenase   guanosine nucleotide biosynthesis
<b>orf19.3554</b>	<b>AAT1</b>	-2.25	aspartate aminotransferase
<b>orf19.1613</b>	<b>ILV2</b>	-2.25	acetolactate synthase
<b>orf19.3599</b>	<b>TIF4631</b>	-2.24	mRNA cap binding protein eIF 4F
<b>orf19.646</b>	<b>GLN1</b>	-2.24	glutamine synthetase
<b>orf19.7417</b>	<b>TSA1</b>	-2.22	thiol-specific antioxidant protein
<b>orf19.3097</b>	<b>PDA1</b>	-2.22	alpha subunit of pyruvate dehydrogenase
<b>orf19.4646</b>		-2.22	hypothetical protein
<b>orf19.1152</b>		-2.21	hypothetical protein
<b>orf19.989</b>	<b>MRPS5</b>	-2.21	mitochondrial ribosomal protein S5
<b>orf19.238</b>	<b>CCP1</b>	-2.2	cytochrome-c peroxidase

<b>orf19.913.2</b>	<b>QCR6</b>	-2.2	ubiquinol-cytochrome c oxidoreductase subunit 6
<b>orf19.1779</b>	<b>SCW10</b>	-2.2	soluble cell wall protein similar to mannoprotein MP65
<b>orf19.5544</b>	<b>SAC6</b>	-2.19	actin filament bundling protein - fibrim homolog
<b>orf19.3426</b>	<b>HYP2</b>	-2.18	translation initiation factor eIF5A.1
<b>orf19.6197</b>	<b>DHH1</b>	-2.17	RNA helicase of DEAD box family
<b>orf19.6529</b>	<b>CDC34</b>	-2.16	ubiquitin-conjugating enzyme
<b>orf19.1378</b>	<b>ERF3</b>	-2.15	translation release factor 3
<b>orf19.4784</b>	<b>CRD1</b>	-2.15	copper-transporting P1-type ATPase
<b>orf19.1591</b>	<b>ERG10</b>	-2.15	acetyl-CoA acetyltransferase   acetoacetyl CoA thiolase
<b>orf19.4262</b>	<b>JSN1</b>	-2.14	tubulin mutant, benomyl dependent
<b>orf19.7247</b>	<b>RIM101</b>	-2.13	Zn finger transcription factor   regulator of pH response
<b>orf19.4632</b>	<b>RPL20B</b>	-2.13	ribosomal protein L20
<b>orf19.3268</b>		-2.12	translationally controlled tumor protein
<b>orf19.1635</b>	<b>RPL12</b>	-2.12	large subunit ribosomal protein L12.e
<b>orf19.1743</b>	<b>ACS1</b>	-2.12	acetyl-coenzyme A synthetase
<b>orf19.1331</b>	<b>HSM3</b>	-2.11	MutS family (putative)   mismatch repair
<b>orf19.150</b>	<b>TIM17</b>	-2.11	mitochondrial inner membrane import translocase subunit
<b>orf19.3599</b>	<b>TIF4631</b>	-2.11	mRNA cap binding protein eIF 4F
<b>orf19.3603</b>		-2.11	conserved hypothetical protein
<b>orf19.178</b>		-2.11	hypothetical protein
<b>orf19.7483</b>	<b>CRM1</b>	-2.1	nuclear export factor
<b>orf19.1442</b>	<b>PLB4</b>	-2.1	phospholipase B (lysophospholipase)
<b>orf19.3997</b>	<b>ADH1</b>	-2.1	alcohol dehydrogenase 1
<b>orf19.5351</b>	<b>TIF11</b>	-2.09	translation initiation factor eIF1A
<b>orf19.7239</b>	<b>CRP1</b>	-2.09	regulation of G-protein function
<b>orf19.7550</b>		-2.09	ORF MSV011 leucine rich repeat gene family protein
<b>orf19.736</b>	<b>SRB8</b>	-2.09	subunit of activation mediator subcomplex of RNA polymerase II holoenzyme
<b>orf19.1048</b>	<b>IFD1</b>	-2.09	conserved aryl-alcohol dehydrogenase
<b>orf19.3219</b>		-2.08	phosphohydrolase
<b>orf19.2241</b>	<b>PST1</b>	-2.08	1,4-benzoquinone reductase   brefeldin A resistance protein   Protoplast-SecreTed protein
<b>orf19.1433</b>		-2.08	predicted acetyltransferases and hydrolases with the alpha/beta hydrolase fold
<b>orf19.7214</b>		-2.07	glucan 1,3-beta-glucosidase

<b>orf19.5233</b>		-2.07	hypothetical protein
<b>orf19.147</b>	<b>YAK2</b>	-2.07	serine-threonine protein kinase, PKA suppressor
<b>orf19.1853</b>	<b>HHT2</b>	-2.07	histone H3
<b>orf19.3475</b>		-2.07	Gag protein
<b>orf19.409</b>		-2.07	conserved hypothetical protein
<b>orf19.4607</b>		-2.07	conserved hypothetical protein
<b>orf19.1742</b>	<b>HEM3</b>	-2.07	phorphobilinogen deaminase (uroporphyrinogen synthase)   heme biosynthesis
<b>orf19.6420</b>		-2.06	hypothetical membrane protein with repeated hydrophobic/hydrophilic domains
<b>orf19.5113</b>	<b>ADH2</b>	-2.06	alcohol dehydrogenase
<b>orf19.4317</b>	<b>GRE3</b>	-2.06	aldose reductase
<b>orf19.5949</b>	<b>FAS2</b>	-2.05	fatty acid synthase alpha subunit
<b>orf19.6112</b>	<b>CTA2</b>	-2.05	putative transcriptional activator transmembrane osmosensor   involved in the HOG1 high-osmolarity signal transduction pathway
<b>orf19.4772</b>	<b>SHO1</b>	-2.04	
<b>orf19.3599</b>	<b>TIF4631</b>	-2.04	mRNA cap binding protein eIF 4F
<b>orf19.3618</b>	<b>YWP1</b>	-2.04	putative cell wall protein
<b>orf19.7231</b>	<b>FTR2</b>	-2.03	plasma membrane iron permease
<b>orf19.7188</b>	<b>RP1B</b>	-2.02	60S large subunit acidic ribosomal protein a1
<b>orf19.6197</b>	<b>DHH1</b>	-2.02	RNA helicase of DEAD box family
<b>orf19.911</b>	<b>TOM12</b>	-2.02	E3 ubiquitin ligase required for G2/M transition
<b>orf19.3599</b>	<b>TIF4631</b>	-2.02	mRNA cap binding protein eIF 4F
<b>orf19.4211</b>	<b>FET3</b>	-2.02	multicopper ferro-O2- oxidoreductase involved in high-affinity iron uptake
<b>Up-regulated at 37°C</b>			
<b>orf19.2672</b>	<b>NCP1</b>	18.7	NADPH-cytochrome P450 reductase regulator protein involved in pleiotropic drug resistance that forms a ribosome-associated complex   DnaJ/HSP70 chaperone
<b>orf19.3812</b>	<b>SSZ1</b>	16.63	
<b>orf19.6540</b>	<b>PFK2</b>	11.99	PFK2 methylenetetrahydrofolate dehydrogenase   NAD-dependent 5,10-methylenetetrahydrofolate dehydrogenase   NAD-dependent 5,10- methylenetetrahydrofolate dehydrogenase
<b>orf19.3810</b>	<b>MTD1</b>	9.78	methylenetetrahydrofolate dehydrogenase (NAD+)
<b>orf19.1263</b>	<b>FRE1</b>	9.72	ferric reductase
<b>orf19.6548</b>	<b>ISU1</b>	9.34	iron-sulfur cluster nifU-like
<b>orf19.4181</b>	<b>SPC2</b>	8.22	subunit of signal peptidase complex

<b>orf19.3117</b>	<b>CSA2</b>	7.42	mycelial surface antigen, similar to RBT5
<b>orf19.3117</b>	<b>CSA2</b>	7.37	mycelial surface antigen, similar to RBT5
<b>orf19.3448</b>		6.76	hypothetical protein
<b>orf19.4203</b>	<b>NDC1</b>	6.03	nuclear envelope protein
<b>orf19.3710</b>	<b>YHB3</b>	5.79	flavohemoglobin   dihydropteridine reductase
<b>orf19.3817</b>	<b>RTS2</b>	5.59	similar to mouse KIN7 protein
<b>orf19.2676</b>	<b>IKI1</b>	5.53	RNA polymerase II elongator associated protein
<b>orf19.2678</b>	<b>BUB1</b>	5.34	ser/thr protein kinase in mitosis checkpoint
<b>orf19.3893</b>	<b>SCW11</b>	4.81	Soluble Cell Wall protein
<b>orf19.1562</b>		4.73	hypothetical protein
<b>orf19.5635</b>	<b>RBT6</b>	4.64	glycosyl- phosphatidylinositol protein   similar to RBT5
<b>orf19.5634</b>	<b>FRP1</b>	4.51	ferric reductase
<b>orf19.6837</b>		4.38	benzil reductase
<b>orf19.6321</b>		4.21	hypothetical protein
<b>orf19.4910</b>		4.1	hypothetical protein
<b>orf19.3396</b>	<b>HCH1</b>	3.9	high copy Hsp90 suppressor
<b>orf19.3438</b>	<b>SCJ1</b>	3.67	dnaJ homolog in endoplasmic reticulum
<b>orf19.5139</b>		3.57	hypothetical protein
<b>orf19.3127</b>	<b>CZF1</b>	3.57	zinc finger protein
<b>orf19.6073</b>	<b>HMX1</b>	3.56	heme binding protein
<b>orf19.4210</b>		3.54	epoxide hydrolase
<b>orf19.7504</b>		3.5	conserved hypothetical protein
<b>orf19.1418</b>	<b>SEC15</b>	3.49	exocyst complex component
<b>orf19.4183</b>		3.4	Pro/Ser-rich protein
<b>orf19.6192</b>		3.39	hypothetical protein
<b>orf19.3815</b>	<b>UBP7</b>	3.32	ubiquitin-specific protease
<b>orf19.3505</b>	<b>LIT1</b>	3.32	putative transcription factor
<b>orf19.4208</b>	<b>RAD52</b>	3.27	recombination and DNA repair protein
<b>orf19.5597</b>	<b>POL5</b>	3.21	DNA polymerase V, 5-prime end
<b>orf19.1797</b>		3.19	conserved hypothetical protein
<b>orf19.3753</b>	<b>SEF1</b>	3.17	zinc finger transcription factor
<b>orf19.6506</b>		3.16	conserved hypothetical protein

<b>orf19.4180</b>	<b>SEC72</b>	3.14	signal recognition particle receptor involved in membrane protein insertion into the ER
<b>orf19.6840</b>		3.12	hypothetical protein
<b>orf19.2909</b>	<b>ERG26</b>	3.12	C-3 sterol dehydrogenase
<b>orf19.3809</b>	<b>BAS1</b>	3.11	transcription factor regulating basal and induced activity of histidine and adenine biosynthesis genes
<b>orf19.747</b>	<b>NBP35</b>	3.08	nuclear ATPase
<b>orf19.2107</b>	<b>MUQ1</b>	3.05	choline phosphate cytidylyltransferase   phosphoethanolamine cytidylyltransferase
<b>orf19.6522</b>		3.02	allantoate permease
<b>orf19.2038</b>		2.97	hypothetical protein
<b>orf19.5299</b>	<b>ECM1</b>	2.94	cell wall structure or biosynthesis
<b>orf19.2768</b>	<b>AMS1</b>	2.92	vacuolar alpha mannosidase
<b>orf19.6818</b>		2.91	RNA helicase
<b>orf19.42</b>		2.87	transport protein
<b>orf19.5952</b>		2.84	hypothetical protein
<b>orf19.4676</b>		2.82	conserved hypothetical protein
<b>orf19.7285</b>		2.81	conserved hypothetical protein
<b>orf19.6077</b>		2.81	conserved hypothetical protein
<b>orf19.2146</b>	<b>HAT2</b>	2.81	histone acetyltransferase subunit
<b>orf19.5296</b>		2.81	conserved hypothetical protein
<b>orf19.4163</b>		2.79	conserved hypothetical protein
<b>orf19.1323</b>	<b>APL6</b>	2.79	clathrin assembly complex beta adaptin component
<b>orf19.2135</b>	<b>TAF2</b>	2.79	component of TFIID complex
<b>orf19.2320</b>	<b>RIO1</b>	2.77	protein serine kinase
<b>orf19.2337</b>	<b>ALP1</b>	2.73	high-affinity permease for basic amino acids
<b>orf19.4683</b>	<b>MLP1</b>	2.73	myosin-like protein involved in translocation of macromolecules between the nucleoplasm and the NPC
<b>orf19.1234</b>		2.73	hypothetical protein
<b>orf19.1186</b>		2.73	hypothetical protein
<b>orf19.7286</b>	<b>RPN7</b>	2.68	subunit of the regulatory particle of the proteasome
<b>orf19.62</b>		2.68	zinc aminopeptidase
<b>orf19.7085</b>		2.63	hypothetical protein
<b>orf19.5710</b>	<b>NSP2</b>	2.62	nuclear pore protein

<b>orf19.5630</b>	<b>APA2</b>	2.58	ATP adenylyltransferase II
<b>orf19.2667</b>	<b>RPF1</b>	2.57	nucleolar protein involved in rRNA processing
<b>orf19.1254</b>	<b>SEC23</b>	2.56	component of COPII coat of ER- golgi vesicles
<b>orf19.3578</b>		2.54	hypothetical protein
<b>orf19.5804</b>	<b>HYU1</b>	2.53	5-oxoprolinase   hydantoin utilization protein A
<b>orf19.1294</b>		2.52	coiled coil protein similar to myosin
<b>orf19.4145</b>	<b>HAP1</b>	2.52	zinc finger transcription factor of the Zn(2)-Cys(6) binuclear cluster domain type
<b>orf19.1185</b>		2.51	conserved hypothetical protein
<b>orf19.3055</b>	<b>SRB4</b>	2.5	subunit of RNA polymerase II holoenzyme
<b>orf19.6163</b>	<b>CSE4</b>	2.5	histone H3 variant
<b>orf19.1191</b>	<b>HRD3</b>	2.49	responsible for ER-associated degradation (ERAD) of numerous ER-resident proteins
<b>orf19.2889</b>	<b>IES6</b>	2.47	conserved hypothetical protein
<b>orf19.1265</b>	<b>TRS130</b>	2.47	targeting complex (TRAPP) component involved in ER to Golgi membrane traffic
<b>orf19.6840</b>		2.46	hypothetical protein
<b>orf19.3462</b>	<b>SAR1</b>	2.46	GTP-binding protein of the ARF family   component of COPII coat of vesicles   required for ER to Golgi protein transport
<b>orf19.3066</b>	<b>ACF3</b>	2.45	endo-1,3-beta-glucanase
<b>orf19.3818</b>		2.44	hypothetical protein
<b>orf19.3130</b>		2.43	highly conserved hypothetical protein
<b>orf19.2182</b>	<b>BLM3</b>	2.42	integral membrane protein possibly involved in bleomycin resistance
<b>orf19.3401</b>	<b>VPS60</b>	2.42	involved in vacuolar protein sorting
<b>orf19.7218</b>	<b>PRY2</b>	2.41	homology to plant PR-1 class of proteins
<b>orf19.6544</b>	<b>MHP1</b>	2.4	microtubule-interacting protein
<b>orf19.3344</b>	<b>VPS17</b>	2.38	vacuolar sorting protein
<b>orf19.3659</b>		2.38	conserved hypothetical protein
<b>orf19.3811</b>	<b>GYP1</b>	2.37	GTPase activating protein
<b>orf19.2983</b>	<b>CDC73</b>	2.37	accessory factor associated with RNA polymerase II
<b>orf19.2771</b>	<b>BEM3</b>	2.36	rho GTPase activating protein (GAP)
<b>orf19.2180</b>		2.35	calcium-binding protein
<b>orf19.5730</b>		2.35	3-polyprenyl-4-hydroxybenzoate decarboxylase
<b>orf19.4167</b>		2.35	hypothetical protein
<b>orf19.7265</b>	<b>SAD1</b>	2.34	snRNP assembly defective

<b>orf19.4191</b>	<b>RLP24</b>	2.34	similar to ribosomal protein L24.e.B
<b>orf19.2875</b>		2.33	hypothetical protein, possibly related to DNAJ
<b>orf19.5732</b>	<b>NOG2</b>	2.32	nuclear/nucleolar GTP-binding protein 2
<b>orf19.1792</b>	<b>CDC16</b>	2.32	subunit of anaphase-promoting complex (cyclosome)
<b>orf19.3123</b>	<b>RPT5</b>	2.31	26S proteasome regulatory subunit
<b>orf19.4079</b>	<b>SLP2</b>	2.31	potential SPFH domain   possible regulator of cation conductance
<b>orf19.5658</b>	<b>MNN10</b>	2.3	galactosyltransferase
<b>orf19.5595</b>	<b>SHE3</b>	2.3	mother-specific HO expression
<b>orf19.5584</b>	<b>PEP3</b>	2.3	vacuolar membrane protein
<b>orf19.2886</b>	<b>CEK1</b>	2.3	MAP kinase involved in pheromone signal transduction
<b>orf19.7101</b>	<b>TEL2</b>	2.29	involved in controlling telomere length
<b>orf19.2964</b>	<b>RSC1</b>	2.29	Member of RSC complex, which remodels the structure of chromatin
<b>orf19.3457</b>		2.29	WD domain protein likely involved in chromatin remodeling
<b>orf19.2465</b>		2.28	hypothetical protein
<b>orf19.1437</b>		2.28	conserved hypothetical protein
<b>orf19.1667</b>	<b>RAD15</b>	2.27	DNA-dependent ATPase of the nucleotide excision repair factor 4 complex
<b>orf19.5783</b>		2.27	conserved hypothetical protein
<b>orf19.7295</b>	<b>SCD5</b>	2.26	multicopy suppressor of clathrin deficiency
<b>orf19.3678</b>		2.26	hypothetical protein
<b>orf19.4201</b>	<b>NHX1</b>	2.26	NA+/H+ antiporter
<b>orf19.2143</b>		2.25	conserved hypothetical protein
<b>orf19.1290</b>	<b>XKS2</b>	2.24	xylulokinase
<b>orf19.7602</b>		2.23	conserved hypothetical protein
<b>orf19.4591</b>	<b>CAT2</b>	2.23	carnitine acetyltransferase
<b>orf19.5666</b>	<b>SUB1</b>	2.23	transcriptional coactivator
<b>orf19.4167</b>		2.23	hypothetical protein
<b>orf19.3132</b>	<b>MSC2</b>	2.23	transmembrane cation antiporter involved in zinc ion homeostasis and meiotic recombination
<b>orf19.2774</b>	<b>LIP12</b>	2.22	lipoic acid synthase
<b>orf19.2970</b>	<b>LYS2</b>	2.22	L-aminoacid-semialdehyde dehydrogenase, large subunit
<b>orf19.2739</b>	<b>RLF2</b>	2.22	chromatin assembly complex, subunit p90
<b>orf19.2731</b>		2.22	hypothetical protein
<b>orf19.4373</b>	<b>FMN1</b>	2.22	riboflavin kinase

<b>orf19.1259</b>	<b>SNT2</b>	2.21	conserved hypothetical protein
<b>orf19.2131</b>	<b>TUL1</b>	2.21	transmembrane ubiquitin ligase
<b>orf19.6692</b>	<b>MNN7</b>	2.2	alpha-1,2- mannosyltransferase
<b>orf19.4230</b>	<b>PRE4</b>	2.2	B-type subunit of proteasome
<b>orf19.401</b>	<b>TCP1</b>	2.2	component of chaperonin-containing T-complex
<b>orf19.2671</b>	<b>NDI1</b>	2.2	NADH dehydrogenase
<b>orf19.538</b>	<b>GPI2</b>	2.19	N-acetylglucosaminyl-phosphatidylinositol (GPI) biosynthetic protein
<b>orf19.2039</b>	<b>MSF1</b>	2.19	phenylalanyl-tRNA synthetase alpha subunit, mitochondrial
<b>orf19.5765</b>	<b>NUP82</b>	2.19	nuclear pore protein
<b>orf19.100</b>	<b>LIP11</b>	2.19	triacylglycerol lipase
<b>orf19.1324</b>	<b>RAD2</b>	2.18	structure-specific nuclease of the nucleotide excision repairosome
<b>orf19.789</b>	<b>PYC2</b>	2.18	pyruvate carboxylase
<b>orf19.7328</b>	<b>CAP100</b>	2.17	Candida albicans p100 homolog
<b>orf19.6861</b>	<b>APC5</b>	2.17	anaphase-promoting complex
<b>orf19.5171</b>	<b>PMT1</b>	2.16	mannosyltransferase
<b>orf19.6584</b>	<b>PRT1</b>	2.15	translation initiation factor eIF3 subunit
<b>orf19.5676</b>		2.15	conserved hypothetical protein
<b>orf19.5772</b>		2.15	actin overexpression resistant
<b>orf19.4603</b>	<b>ARL1</b>	2.14	GTP-binding protein of the ARF family   ADP-ribosylation factor
<b>orf19.6359</b>	<b>SOM1</b>	2.14	peptidase of the protein sorting machinery
<b>orf19.2684</b>	<b>SLK192</b>	2.14	conserved coiled-coil protein
<b>orf19.101</b>	<b>RIM9</b>	2.14	low similarity to a regulator of sporulation
<b>orf19.7583</b>		2.13	potential fungal Zn(2)-Cys(6) binuclear cluster domain
<b>orf19.3091</b>		2.13	hypothetical protein
<b>orf19.2605</b>	<b>ARK1</b>	2.13	serine/threonine protein kinase involved in regulation of actin cytoskeleton organization
<b>orf19.1180</b>		2.12	conserved hypothetical protein
<b>orf19.539</b>	<b>LAP3</b>	2.12	DNA-binding cysteine-type protease; bleomycin hydrolase
<b>orf19.5106</b>	<b>DIP2</b>	2.11	beta transducin
<b>orf19.2417</b>	<b>SMC5</b>	2.11	structural maintenance of chromosomes protein
<b>orf19.5640</b>	<b>PEX5</b>	2.11	peroxisomal protein receptor
<b>orf19.1336</b>	<b>PUP3</b>	2.11	20S proteasome subunit beta3
<b>orf19.3646</b>	<b>CTR1</b>	2.11	copper transport protein

<b>orf19.1440</b>		2.11	hypothetical protein
<b>orf19.5370</b>		2.1	conserved hypothetical protein
<b>orf19.3040</b>	<b>EHT1</b>	2.1	alcohol acyl transferase
<b>orf19.5725</b>		2.1	hypothetical protein
<b>orf19.133</b>		2.1	hypothetical protein
<b>orf19.2770</b>		2.09	hypothetical protein
<b>orf19.5830</b>	<b>LHS1</b>	2.09	translocation of protein precursors across ER   Hsp70 family chaperone
<b>orf19.3442</b>	<b>OYE3</b>	2.08	NADPH dehydrogenase
<b>orf19.5768</b>	<b>SNF4</b>	2.08	nuclear protein
<b>orf19.3428</b>	<b>IOC4</b>	2.08	chromatin component
<b>orf19.2411</b>	<b>SYN8</b>	2.08	SNARE protein related to mammalian syntaxin
<b>orf19.6965</b>	<b>MRS107</b>	2.08	hypothetical protein
<b>orf19.1301</b>		2.08	hypothetical protein
<b>orf19.2244</b>		2.08	aldo/keto reductase
<b>orf19.6417</b>	<b>TSR1</b>	2.07	conserved protein possibly involved in ribosome biogenesis
<b>orf19.3415</b>	<b>PTK2</b>	2.07	putative serine/threonine protein kinase
<b>orf19.4930</b>	<b>SPC3</b>	2.07	signal peptidase subunit
<b>orf19.6357</b>	<b>MAD1</b>	2.07	coiled-coil protein involved in the spindle-assembly checkpoint
<b>orf19.6183</b>	<b>TIM8</b>	2.07	mitochondrial protein import machinery subunit
<b>orf19.4792</b>		2.07	hypothetical protein
<b>orf19.992</b>		2.06	putative aminopeptidase
<b>orf19.1260</b>	<b>LEA1</b>	2.06	similar to human U2AsnRNP protein
<b>orf19.6136</b>	<b>MRPL4</b>	2.06	mitochondrial ribosome protein L4
<b>orf19.2301</b>	<b>NAS2</b>	2.06	putative proteasome modulator
<b>orf19.2737</b>		2.06	kinase
<b>orf19.687</b>		2.06	hypothetical protein
<b>orf19.3658</b>		2.06	conserved hypothetical protein
<b>orf19.7332</b>	<b>ELF1</b>	2.05	elongation-like factor
<b>orf19.3021</b>		2.05	hypothetical protein
<b>orf19.3126</b>	<b>CCT6</b>	2.05	cytoplasmic chaperonin of the Cct ring complex
<b>orf19.6630</b>		2.05	membrane protein confirmed by cDNA cloning
<b>orf19.3449</b>		2.05	highly conserved hypothetical protein

<b>orf19.5599</b>	<b>MDL2</b>	2.05	ATP-binding transporter, 3- prime end
<b>orf19.1796</b>		2.05	similar to glycerate dehydrogenases
<b>orf19.714</b>	<b>YPT6</b>	2.05	GTP binding protein involved in vesicle fusion in the secretory pathway
<b>orf19.5723</b>	<b>POX2</b>	2.05	acyl-coenzyme A oxidase
<b>orf19.559</b>		2.05	reverse transcriptase
<b>orf19.3387</b>	<b>RRT</b>	2.05	reverse transcriptase
<b>orf19.1814</b>	<b>STT4</b>	2.05	phosphatidylinositol-4- kinase involved in protein kinase C pathway
<b>orf19.7321</b>		2.04	conserved hypothetical protein
<b>orf19.3103</b>	<b>RPO31</b>	2.04	RNA polymerase III large subunit
			myosin-like protein involved in translocation of macromolecules between the nucleoplasm and the NPC
<b>orf19.4683</b>	<b>MLP1</b>	2.04	
<b>orf19.1560</b>	<b>POB3</b>	2.04	DNA polymerase delta binding protein
<b>orf19.1419</b>	<b>SEC15</b>	2.04	exocyst complex component
<b>orf19.593</b>	<b>SWA2</b>	2.04	auxilin-like clathrin-binding protein required for normal clathrin function
<b>orf19.6326</b>		2.04	hypothetical protein
<b>orf19.2690</b>	<b>MGM1</b>	2.04	mitochondrial dynamin-like GTP-ase
<b>orf19.2611</b>	<b>MCM6</b>	2.04	involved in replication
<b>orf19.5440</b>		2.03	26S proteasome subunit
<b>orf19.7335</b>	<b>PRE8</b>	2.03	20S proteasome subunit Y7
<b>orf19.4625</b>	<b>TOA2</b>	2.03	transcription factor IIA, small chain
<b>orf19.5164</b>	<b>ECM39</b>	2.03	alpha-1,6- mannosyltransferase
<b>orf19.5771</b>	<b>PBP2</b>	2.03	PAB1 binding protein
<b>orf19.3129</b>	<b>RVB1</b>	2.03	RUVB-like protein
<b>orf19.6345</b>	<b>RPG1</b>	2.03	translation initiation factor eIF3
<b>orf19.1261</b>	<b>CEG1</b>	2.03	mRNA capping enzyme alpha subunit and guanylyltransferase
<b>orf19.3402</b>		2.03	conserved hypothetical protein
<b>orf19.745</b>	<b>VAC8</b>	2.03	vacuole membrane protein required for vacuole inheritance
<b>orf19.3787</b>	<b>KAE1</b>	2.03	glycoprotease   kinase-associated endopeptidase
<b>orf19.1249</b>	<b>HIS6</b>	2.02	phosphoribosyl-5-amino-1-phosphoribosyl-4-imidazolecarboxiamide isomerase
<b>orf19.7313</b>		2.01	sulfite sensitivity protein
<b>orf19.6864</b>	<b>SSU1</b>	2.01	conserved hypothetical protein
<b>orf19.2769</b>		2.01	hypothetical protein

<b>orf19.2484</b>		2.01	highly conserved hypothetical protein
<b>orf19.3128</b>	<b>SLY1</b>	2.01	t-SNARE- interacting protein that functions in ER-to-Golgi traffic
<b>orf19.6177</b>		2.01	hypothetical protein
<b>orf19.2128</b>	<b>YLF2</b>	2.01	putative GTP-binding protein
<b>orf19.1578</b>	<b>RRP5</b>	2.01	processing of pre-rRNA to 18S and 5.8S rRNA
<b>orf19.1584</b>	<b>MCH</b>	2.01	similarity to monocarboxylate transporters
<b>orf19.1514</b>	<b>UBP1</b>	2.01	ubiquitin-dependent protease
<b>orf19.1195</b>	<b>OCT1</b>	2.01	mitochondrial intermediate peptidase involved in protein import
<b>orf19.2081</b>	<b>POM152</b>	2	nuclear pore membrane glycoprotein
<b>orf19.1893</b>		2	hypothetical protein
<b>orf19.3737</b>		2	hypothetical membrane protein
<b>orf19.1396</b>	<b>AGE2</b>	2	zinc finger protein   putative GTPase activating protein
<b>orf19.5734</b>	<b>POP2</b>	2	glucose derepression
<b>orf19.2873</b>	<b>TOP2</b>	2	DNA topoisomerase II
<b>orf19.4184</b>	<b>YAP180</b>	2	clathrin coat assembly protein

**Table S2.** Number of differentially expressed genes

Temperature	25°C				37°C			
	Up		Down		Up		Down	
Differentially expressed genes	Annotated	HP	Annotated	HP	Annotated	HP	Annotated	HP
	161	67	113	36	164	79	195	41
Total	228		149		243		236	

**Table S3.** Down-regulated cAMP-responsive genes at both 25°C and 37°C

Gene name	Gene function
<i>AATI</i>	aspartate aminotransferase
<i>ADH1</i>	alcohol dehydrogenase 1
<i>ADH2</i>	alcohol dehydrogenase
<i>ALSI-1</i>	agglutinin like protein 1
<i>CCP1</i>	cytochrome-c peroxidase
<i>CCW12</i>	cell wall mannoprotein
<i>CRPI</i>	regulation of G-protein function
<i>CSP37</i>	cell surface protein
<i>CYCI</i>	cytochrome-c isoform 1
<i>DHA12</i>	membrane transporter of the MFS-MDR family
<i>DHH1</i>	RNA helicase of DEAD box family
<i>ECM33</i>	3-prime end of ExtraCellular Mutant protein
<i>ERF3</i>	translation release factor 3
<i>FASI</i>	fatty-acyl-CoA synthase, beta chain
<i>FAS2</i>	fatty acid synthase alpha subunit
<i>FET3</i>	multicopper ferro-O2- oxidoreductase involved in high-affinity iron uptake
<i>FTR1</i>	plasma membrane iron permease
<i>GAC1</i>	regulatory subunit for phosphoprotein phosphatase type 1 (PP-1)
<i>GFA1</i>	glucoseamine-6- phosphate synthase
<i>GLN1</i>	glutamine synthetase
<i>GPH1</i>	glycogen phosphorylase
<i>GPXI</i>	glutathione peroxidase
<i>GRP3</i>	induced by osmotic stress
<i>HSP60</i>	mitochondrial groEL-type heat shock protein
<i>IROI</i>	transcription factor
<i>JSNI</i>	tubulin mutant, benomyl dependent
<i>LSPI</i>	Long chain base Stimulates Phosphorylation
<i>MDH2</i>	malate dehydrogenase
<i>MET6</i>	methionine-synthesizing 5- methyltetrahydropteroylglutamate--homocysteine methyltransferase
<i>MIR1</i>	mitochondrial phosphate transport protein
<i>NCE102</i>	non-classical protein export pathway
<i>OLE1</i>	stearoyl-CoA desaturase
<i>PGM2</i>	phosphoglucomutase

<i>PHO84</i>	inorganic phosphate permease
<i>PHO842</i>	high-affinity inorganic phosphate/H <sup>+</sup> symporter
<i>PLB4</i>	phospholipase B (lysophospholipase)
<i>PMA1</i>	plasma membrane H <sup>+</sup> -ATPase
<i>PTP3</i>	protein tyrosine phosphatase
<i>QCR2</i>	ubiquinol-cytochrome-c reductase 40KD chain II
<i>QDR1</i>	multidrug resistance transporter
<i>RPA1</i>	60S ribosomal protein
<i>RPL8B</i>	ribosomal protein L8B (L4B) (rp6) (YL5)
<i>RPM2</i>	RNase P subunit
<i>SAH1</i>	S-adenosyl-L-homocysteine hydrolase
<i>SAM2</i>	S-adenosylmethionine synthetase
<i>SUR7</i>	potential membrane protein
<i>TIF4631</i>	mRNA cap binding protein eIF 4F
<i>TOM70</i>	mitochondrial outer membrane specialized import receptor
<i>URA3</i>	orotidine-5'-phosphate decarboxylase
<i>YAK2</i>	serine-threonine protein kinase, PKA suppressor
<i>YWP1</i>	putative cell wall protein

**Table S4.** Up-regulated cAMP-responsive genes at both 25°C and 37°C

Gene	Gene function
<b>BAS1</b>	transcription factor regulating basal and induced activity of histidine and adenine biosynthesis genes
<b>BUB1</b>	ser/thr protein kinase in mitosis checkpoint
<b>CCT6</b>	cytoplasmic chaperonin of the Cct ring complex
<b>CEG1</b>	mRNA capping enzyme alpha subunit and guanylyltransferase
<b>CZF1</b>	zinc finger protein
<b>DIP2</b>	beta transducin
<b>ECM1</b>	cell wall structure or biosynthesis
<b>ERG26</b>	C-3 sterol dehydrogenase
<b>FRP1</b>	ferric reductase
<b>HAT2</b>	histone acetyltransferase subunit
<b>HCH1</b>	high copy Hsp90 supressor
<b>HIS6</b>	phosphoribosyl-5-amino-1-phosphoribosyl-4-imidazolecarboxiamide isomerase
<b>HMX1</b>	heme binding protein
<b>IES6</b>	conserved hypothetical protein
<b>IKI1</b>	RNA polymerase II elongator associated protein
<b>ISU1</b>	iron-sulfur cluster nifU-like
<b>LIP12</b>	lipoic acid synthase
<b>LIT1</b>	putative transcription factor
<b>MAD1</b>	coiled-coil protein involved in the spindle-assembly checkpoint
<b>MNN10</b>	galactosyltransferase
<b>MTDI</b>	methylenetetrahydrofolate dehydrogenase   NAD-dependent 5,10-methylenetetrahydrofolate dehydrogenase   NAD-dependent 5,10- methylenetetrahydrofolate dehydrogenase   methylenetetrahydrofolate dehydrogenase (NAD+)
<b>MUQ1</b>	choline phosphate cytidylyltransferase   phosphoethanolamine cytidylyltransferase
<b>NCPI</b>	NADPH-cytochrome P450 reductase
<b>NDC1</b>	nuclear envelope protein
<b>NOG2</b>	nuclear/nucleolar GTP-binding protein 2
<b>NSP2</b>	nuclear pore protein
<b>NUP82</b>	nuclear pore protein

<b><i>PFK2</i></b>	6-phosphofructokinase, alpha subunit
<b><i>POL5</i></b>	DNA polymerase V, 5-prime end
<b><i>POP2</i></b>	glucose derepression
<b><i>PTK2</i></b>	putative serine/threonine protein kinase
<b><i>PYC2</i></b>	pyruvate carboxylase
<b><i>RIO1</i></b>	protein serine kinase
<b><i>RLP24</i></b>	similar to ribosomal protein L24.e.B
<b><i>RPF1</i></b>	nucleolar protein involved in rRNA processing
<b><i>RPN7</i></b>	subunit of the regulatory particle of the proteasome
<b><i>RPO31</i></b>	RNA polymerase III large subunit
<b><i>RPT5</i></b>	26S proteasome regulatory subunit
<b><i>RTS2</i></b>	similar to mouse KIN7 protein
<b><i>RVB1</i></b>	RUVB-like protein
<b><i>SAD1</i></b>	snRNP assembly defective
<b><i>SLP2</i></b>	potential SPFH domain   possible regulator of cation conductance
<b><i>SLY1</i></b>	t-SNARE- interacting protein that functions in ER-to-Golgi traffic
<b><i>SNF4</i></b>	nuclear protein
<b><i>SPC2</i></b>	subunit of signal peptidase complex
<b><i>SRB4</i></b>	subunit of RNA polymerase II holoenzyme
<b><i>SSZ1</i></b>	regulator protein involved in pleiotropic drug resistance that forms a ribosome-associated complex   DnaJ/HSP70 chaperone
<b><i>SUB1</i></b>	transcriptional coactivator
<b><i>TAF2</i></b>	component of TFIID complex
<b><i>TOP2</i></b>	DNA topoisomerase II
<b><i>TRS130</i></b>	targeting complex (TRAPP) component involved in ER to Golgi membrane traffic
<b><i>TUL1</i></b>	transmembrane ubiquitin ligase
<b><i>VPS60</i></b>	involved in vacuolar protein sorting

**Table S5.** Common differentially transcribed genes in *pde2* mutants of *S. cerevisiae* and *C. albicans*

Genes with identical differential transcription pattern*		Genes with opposite differential transcription pattern*	
<i>C.albicans</i> at 25°C and <i>S. cerevisiae</i>			
Up	Down	Up <i>Candida</i> Down <i>Saccharomyces</i>	Down <i>Candida</i> Up <i>Saccharomyces</i>
MRPL25	YOR1	STL1	PDR16
LIP12	ENA5		ADO1
RPN7	FAS1		MIR1
MTD1	GPH1		URA3
LCP5	FAS2		GLN1
CYS3	MLS1		RPL8B
YKR087C	PGM2		YLR110C
PRS4	PIM1		YDR134C
YNL119W	MPT5		RPA1
RPL18	PDE2		
RPS3	PMT2		
SAM4			
ISU1			
CSH3			
TYR1			
CBP3			
LOC1			
<i>C.albicans</i> 37°C and <i>S. cerevisiae</i>			
LIP12	GPH1	YOR161C	RPL17B
RPN7	FAS1	STT4	ENO1
MTD1	FAS2	ACF3	RPL3
CEK1	PGM2	AMS1	PET9
TIM8	EFT2		HYP2
CTR1	TPS2		RPS23
ISU1	ACS1		RPS12
SAR1	HSP122		TPI1
SYN8			COX4
			RPS26A
			TIM17
			YKL056C
			MIR1
			RPL9B
			RPS6A
			RPS25
			GPM1
			URA3
			RPP2B
			ASC1
			RPS15
			GLN1
			CDC19
			RPS20
			ERG10
			FBA1
			RPL10
			RPS8
			TEF1
			RPL8B

		<i>HTA2</i>
		<i>RPS2</i>
		<i>RPL18</i>
		<i>RPS7A</i>
		<b><i>YLR110C</i></b>
		<b><i>YDR134C</i></b>
		<b><i>RPA1</i></b>
		<i>TDH3</i>
		<i>RPL12</i>
		<i>RPL13</i>

\*The genes shown in bold are common to both 25°C and 37°C *C.albicans* data sets, which we refer to cAMP-responsive genes

**Supplementary Table S6.** Comparative analysis of differentially expressed genes upon deletion of *PDE2* (our data) and *CDC35*, *EFG1* and *RAS1* (Harcus *et al.*, 2004).

<i>pde2 up</i> Harcus <b>up</b> *	<i>pde2 down</i> Harcus <b>down</b> *	<i>pde2 up</i> Harcus <b>down</b> *	<i>pde2 down</i> Harcus <b>up</b> *
<b><i>Candida</i> at 25°C versus <i>cdc35</i></b>			
<b>HAT2</b>	<i>DED1</i>	<i>ADH6</i>	<b>CCP1</b>
<i>VMA6</i>	<i>IFE2</i>	<i>CCT3</i>	<b>CSP37</b>
<b>orf19.1234</b>	<b>MIR1</b>	<i>CIC1</i>	<b>DHA12</b>
orf19.2030	<i>PHO87</i>	<i>CYS3</i>	<b>GPH1</b>
	<i>PIM1</i>	<i>HIS4</i>	<b>GRP3</b>
	<b>RPA1</b>	<i>HIS5</i>	<i>MLS1</i>
		<i>KEL3</i>	<b>NCE102</b>
		<i>LOC1</i>	<b>PLB4</b>
		<i>LYS4</i>	<i>SLK19</i>
		<i>MAK21</i>	<b>SUR7</b>
		<i>MAK5</i>	orf19.2170
		<b>MTD1</b>	<b>orf19.2765</b>
		<i>NUG1</i>	orf19.3793
		<i>PFK1</i>	<b>orf19.6420</b>
		<b>PFK2</b>	orf19.6983
		<i>PRS4</i>	<b>orf19.7502</b>
		<i>RNH1</i>	
		<b>RPF1</b>	
		<i>RPL18</i>	
		<i>RPS3</i>	
		<i>SDA1</i>	
		<i>SDH3</i>	
		<i>SUI2</i>	
		<i>TRP5</i>	
		<i>YMC1</i>	
		orf19.3089	
		orf19.3115	
		orf19.5066	
		orf19.6710	
		orf19.6718	
		orf19.6730	
		orf19.7601	
		orf19.962	
<b><i>Candida</i> at 37°C versus <i>cdc35</i></b>			
<b>CAT2</b>	<i>ASC1</i>	<i>EHT1</i>	<i>ACS1</i>
<i>CTR1</i>	<i>CHT2</i>	<i>ELF1</i>	<i>ALD5</i>
<b>HAT2</b>	<i>EFT3</i>	<i>FMN1</i>	<b>CCP1</b>
<i>HYU1</i>	<i>FTR2</i>	<i>MRPL4</i>	<i>CCW14</i>
<i>RBT6</i>	<i>HXT3</i>	<b>MTD1</b>	<i>CLG1</i>
<b>orf19.1234</b>	<i>HYP2</i>	<b>PFK2</b>	<b>CSP37</b>
orf19.2769	<b>MIR1</b>	<b>RPF1</b>	<b>DHA12</b>
	<i>MRPS5</i>	<i>YHB3</i>	<b>GPH1</b>
	<b>RPA1</b>	orf19.1301	<i>GRE3</i>

	<i>RPL13</i>	orf19.7602	<b>GRP3</b>
	<i>RPL15A</i>		<i>IFD1</i>
	<i>RPL18</i>		<b>NCE102</b>
	<i>RPL20B</i>		<i>PIL1</i>
	<i>RPL9B</i>		<b>PLB4</b>
	<i>RPS12</i>		<i>PST1</i>
	<i>RPS15</i>		<i>SCW10</i>
	<i>RPS6A</i>		<i>SHO1</i>
	<i>RPS7A</i>		<b>SUR7</b>
	<i>TYE7</i>		orf19.1152
	<i>YNK1</i>		orf19.2685
	orf19.1340		<b>orf19.2765</b>
			<b>orf19.6420</b>
			orf19.6604
			orf19.7214
			<b>orf19.7502</b>

*Candida* at 25°C versus *efg1*

<b>ISU1</b>	<b>ADH1</b>	<b>PFK1</b>	<i>FUN34</i>
<i>RNH2</i>	<b>CCP1</b>	<b>PFK2</b>	<i>RHD3</i>
	<b>CSP37</b>		
	<b>DHA12</b>		
	<i>ERG252</i>		
	<i>FCR1</i>		
	<b>GPH1</b>		
	<i>IFE2</i>		
	<b>QDR1</b>		
	<i>TIS11</i>		
	<b>YWP1</b>		
	<b>orf19.1353</b>		
	<b>orf19.1862</b>		
	<b>orf19.2659</b>		

*Candida* at 37°C versus *efg1*

<i>CAT2</i>	<b>ADH1</b>	<i>EHT1</i>	orf19.2685
<b>ISU1</b>	<b>CCP1</b>	<b>PFK2</b>	orf19.4607
<i>YHB3</i>	<i>CDC19</i>	orf19.7085	
	<b>CSP37</b>		
	<b>DHA12</b>		
	<i>FBA1</i>		
	<b>GPH1</b>		
	<i>HEM13</i>		
	<i>HXT3</i>		
	<i>HXT6</i>		
	<i>PGK1</i>		
	<b>QDR1</b>		
	<i>TPI1</i>		
	<i>TPS2</i>		
	<b>YWP1</b>		
	<b>orf19.1353</b>		
	<b>orf19.1862</b>		
	<b>orf19.2659</b>		

*Candida* at 25°C versus *ras1*

<b>DDI1</b>	<i>PHO87</i>	<i>MAK21</i>	<b>DHA12</b>
<i>RPB3</i>	<b>DED1</b>	<i>NOP16</i>	<b>GPH1</b>
<i>VMA6</i>	<i>NIP1</i>		<b>GRP3</b>
orf19.2030	<i>ERG252</i>		<b>PLB4</b>
<b>orf19.4183</b>	<i>RHD3</i>		<b>SUR7</b>
			<b>YWP1</b>

			<b>orf19.2765</b>
			orf19.3793
			orf19.6983
<b><i>Candida</i> at 37°C versus <i>ras1</i></b>			
CAT2	<i>RPL9B</i>		<b>GPH1</b>
orf19.2769			<b>CCW14</b>
<b>orf19.4183</b>			<b>DHA12</b>
			<b>GRP3</b>
			<b>HSP70</b>
			<b>IFD1</b>
			<b>PLB4</b>
			<b>SCW10</b>
			<b>SUR7</b>
			<b>YWP1</b>
			orf19.1152
			<b>orf19.2765</b>

\*The genes shown in bold are common to both 25°C and 37°C *C.albicans* data sets, which we refer to cAMP-responsive genes

**Table S7.** Differentially regulated genes involved in protein degradation, modification, folding, fate and targeting

25°C		37°C	
Gene name	Function	Gene name	Function
<b>Protein degradation</b>			
<i>AOS1</i>	protein-sumoylation function	<i>APC5</i>	anaphase-promoting complex
<i>CDC48</i>	microsomal ATPase	<i>CDC16</i>	subunit of anaphase-promoting complex (cyclosome)
<i>PUP1</i>	20S proteasome beta 2 subunit	<i>CDC34</i>	ubiquitin-conjugating enzyme
<i>RPN7</i>	subunit of the regulatory particle of the proteasome	<i>LAP3</i>	DNA-binding cysteine-type protease; bleomycin hydrolase
<i>RPT3</i>	26S proteasome regulatory subunit	<i>NAS2</i>	putative proteasome modulator
<i>SGT1</i>	subunit of SCF ubiquitin ligase complex	<i>PRE4</i>	B-type subunit of proteasome
		<i>PRE8</i>	20S proteasome subunit Y7
		<i>PUP3</i>	20S proteasome subunit beta3
		<i>RPT5</i>	26S proteasome regulatory subunit
		<i>UBP1</i>	ubiquitin-dependent protease
		<i>UBP7</i>	ubiquitin-specific protease
<b>Protein fate</b>			
<i>AOS1</i>	protein-sumoylation function	<i>APC5</i>	anaphase-promoting complex
<i>CBP3</i>	involved in cytochrome-c reductase assembly	<i>ARL1</i>	GTP-binding protein
<i>CCT6</i>	cytoplasmic chaperonin of the Cct ring complex	<i>CDC16</i>	subunit of anaphase-promoting complex (cyclosome)

<b>CDC48</b>	microsomal ATPase	<b>CDC34</b>	ubiquitin-conjugating enzyme
<b>FAS2</b>	fatty-acyl-CoA synthase, beta chain	<b>CPRI</b>	regulation of G-protein function
<b>HSP60</b>	mitochondrial groEL-type heat shock protein	<b>FAS2</b>	fatty-acyl-CoA synthase, beta chain
<b>MNN10</b>	galactosyltransferase	<b>HAT2</b>	histone acetyltransferase subunit
<b>PEX10</b>	peroxisomal biogenesis protein	<b>HRD3</b>	responsible for ER-associated degradation (ERAD) of ER-resident proteins
<b>PIM1</b>	mitochondrial ATP-dependent protease	<b>HSP60</b>	mitochondrial groEL-type heat shock protein
<b>PMT2</b>	dolichyl-P-mannose-protein mannosyltransferase	<b>KAE1</b>	glycoprotease   kinase-associated endopeptidase
<b>PUP1</b>	20S proteasome beta 2 subunit	<b>KAR2</b>	dnaK/HSP70/BiP family ATPase
<b>QCR2</b>	ubiquinol-cytochrome-c reductase 40KD chain II	<b>LAP3</b>	DNA-binding cysteine-type protease; bleomycin hydrolase
<b>RPN7</b>	subunit of the regulatory particle of the proteasome	<b>LEA1</b>	similar to human U2AsnRNP protein
<b>RPT3</b>	26S proteasome regulatory subunit	<b>LHS1</b>	translocation of protein precursors across ER   Hsp70 family chaperone
<b>RPT5</b>	26S proteasome regulatory subunit	<b>MNN10</b>	galactosyltransferase
<b>SEC20</b>	secretory pathway protein	<b>MSF1</b>	phenylalanyl-tRNA synthetase alpha subunit, mitochondrial
<b>SGT1</b>	subunit of SCF ubiquitin ligase complex	<b>NAS2</b>	putative proteasome modulator
<b>SPC2</b>	subunit of signal peptidase complex	<b>PEP3</b>	vacuolar membrane protein
<b>SQT1</b>	ribosomal assembly	<b>PEX5</b>	peroxisomal protein receptor

<b>TFP1</b>	vacuolar ATPase V1 domain catalytic subunit A	<b>PMT1</b>	mannosyltransferase
<b>TOM70</b>	mitochondrial outer membrane specialized import receptor	<b>PRE4</b>	B-type subunit of proteasome
<b>UBP10</b>	ubiquitin-specific protease	<b>PRE8</b>	20S proteasome subunit Y7
<b>VMA6</b>	vacuolar ATPase	<b>PUP3</b>	20S proteasome subunit beta3
		<b>QCR2</b>	ubiquinol--cytochrome-c reductase 40KD chain II
		<b>RLF2</b>	chromatin assembly complex, subunit p90
		<b>RPL10</b>	ribosomal protein L10
		<b>RPN7</b>	subunit of the regulatory particle of the proteasome
		<b>RPT5</b>	26S proteasome regulatory subunit
		<b>SCD5</b>	multicopy suppressor of clathrin deficiency
		<b>SCJ1</b>	dnaJ homolog in endoplasmic reticulum
		<b>SEC72</b>	signal recognition particle receptor
		<b>SOM1</b>	peptidase of the protein sorting machinery
		<b>SPC2</b>	subunit of signal peptidase complex
		<b>SPC3</b>	signal peptidase subunit
		<b>SSC1</b>	mitochondrial heat shock protein of the HSP70 family
		<b>SYN8</b>	SNARE protein releated to mammalian syntaxin
		<b>TCP1</b>	component of chaperonin-containing T-complex

		<b>TIM17</b>	mitochondrial inner membrane import translocase subunit
		<b>TIM8</b>	mitochondrial protein import machinery subunit
		<b>TOM70</b>	mitochondrial outer membrane import receptor
		<b>TUL1</b>	transmembrane ubiquitin ligase
		<b>UBP1</b>	ubiquitin-dependent protease
		<b>UBP7</b>	ubiquitin-specific protease
		<b>UGP1</b>	UTP-glucose-1-phosphate uridylyltransferase
		<b>VAC8</b>	vacuole membrane protein
		<b>VPS17</b>	vacuolar sorting protein
<b>Protein modification</b>			
<b>AOS1</b>	protein-sumoylation function	<b>APC5</b>	anaphase-promoting complex
<b>MNN10</b>	galactosyltransferase	<b>ARL1</b>	anaphase-promoting complex
<b>PMT2</b>	dolichyl-P-mannose-protein mannosyltransferase	<b>CDC16</b>	subunit of anaphase-promoting complex (cyclosome)
<b>SPC2</b>	subunit of signal peptidase complex	<b>CDC34</b>	ubiquitin-conjugating enzyme
<b>UBP10</b>	ubiquitin-specific protease	<b>HAT2</b>	histone acetyltransferase subunit
		<b>MNN10</b>	galactosyltransferase
		<b>PMT1</b>	mannosyltransferase
		<b>SPC2</b>	subunit of signal peptidase complex

		<b>SPC3</b>	signal peptidase subunit
		<b>TUL1</b>	transmembrane ubiquitin ligase
		<b>UGP1</b>	UTP-glucose-1-phosphate uridylyltransferase
<b>Protein folding</b>			
<b>CCT3</b>	chaperonin	<b>CCT6</b>	cytoplasmic chaperonin of the Cct ring complex
<b>CCT6</b>	cytoplasmic chaperonin of the Cct ring complex	<b>CPR1</b>	regulation of G-protein function
<b>HSP60</b>	mitochondrial groEL-type heat shock protein	<b>HSP60</b>	mitochondrial groEL-type heat shock protein
		<b>KAR2</b>	dnaK/HSP70/BiP family ATPase
		<b>LHS1</b>	translocation of protein precursors across ER   Hsp70 family chaperone
		<b>SSC1</b>	mitochondrial heat shock protein of the HSP70 family
		<b>TCPI</b>	component of chaperonin-containing T-complex
		<b>TIM8</b>	mitochondrial protein import machinery subunit
<b>Protein targeting</b>			
<b>SEC20</b>	secretory pathway protein	<b>KAR2</b>	dnaK/HSP70/BiP family ATPase
<b>TOM70</b>	mitochondrial outer membrane specialized import receptor	<b>LHS1</b>	translocation of protein precursors across ER   Hsp70 family chaperone
		<b>MSF1</b>	phenylalanyl-tRNA synthetase alpha subunit, mitochondrial
		<b>PEP3</b>	vacuolar membrane protein

		<b><i>PEX5</i></b>	peroxisomal protein receptor
		<b><i>SCD5</i></b>	multicopy suppressor of clathrin deficiency
		<b><i>SCJ1</i></b>	dnaJ homolog in endoplasmic reticulum
		<b><i>SEC72</i></b>	signal recognition particle receptor involved in membrane protein insertion into the ER
		<b><i>SOM1</i></b>	peptidase of the protein sorting machinery
		<b><i>TIM17</i></b>	mitochondrial inner membrane import translocase subunit
		<b><i>TIM8</i></b>	mitochondrial protein import machinery subunit
		<b><i>TOM70</i></b>	mitochondrial outer membrane specialized import receptor
		<b><i>VAC8</i></b>	vacuole membrane protein required for vacuole inheritance
		<b><i>VPS17</i></b>	vacuolar sorting protein

**Table S8.** Plasmids used in this study.

Plasmid	Details	Reference or source
pBluescript	Expression vector, <i>Amp</i> <sup>r</sup> , MCS, <i>lacZ</i> allowing blue-white selection	Stratagene
pDDB57	Cloning vector for gene disruption in <i>C. albicans</i> , <i>Amp</i> <sup>r</sup> , <i>URA3-dpl200</i>	Wilson <i>et al.</i> , 2000
pLUBP	Vector containing <i>C. albicans URA3</i> as a 4.9kb <i>Bgl</i> II- <i>Pst</i> I fragment	Ramon and Fonzi, 2003
p4	pBluescript derivative containing 1.8 kb <i>CaPDE1</i> , <i>Amp</i> <sup>r</sup>	Steffen Rupp
pWH-P2MB	pWHPDE2 derivative containing <i>hisG-URA3-hisG</i> flanked by 5' and 3' <i>PDE2</i> homologous sequences; <i>Amp</i> <sup>r</sup>	Jung and Stateva, 2003
pWHP2-R	pWH18P2-F-URA3 derivative containing 3' homologous <i>PDE2</i> sequence	Jung and Stateva, 2003
pDWURA3	pBluescript derivative containing <i>URA3</i> , <i>Amp</i> <sup>r</sup>	This study
pDWURA3-3'P1	pDURA21 derivative containing 3'- <i>PDE1</i> , <i>Amp</i> <sup>r</sup>	This study
pDPDE1	pBluescript derivative containing 1.8 kb <i>CaPDE1</i> (in the opposite orientation in comparison to p4); <i>Amp</i> <sup>r</sup>	This study
pDWR1	pDPDE1 derivative containing the <i>URA3-3'PDE1</i> fragment of pDURA::3'P1, <i>Amp</i> <sup>r</sup>	This study

**Table S9.** Primers used in this study

Primer name	Sequence 5'-3'	Purpose
ADHF	GATTACCCAGTTCCAACCTCC	Amplification of <i>ADH1</i>
ADHR	ATTTAGCGGCTTGGACAGC	Amplification of <i>ADH1</i>
PFK2F	TGG TGGCTACTCTGCATTAG	Amplification of <i>PFK2</i>
PFK2R	TGTCCAACCTTAATCTGTCG	Amplification of <i>PFK2</i>
PMA1F	GCTGCCACAGTCAATGAAGC	Amplification of <i>PMA1</i>
PMA1R	CAGACAAACCTGGGGCCAAG	Amplification of <i>PMA1</i>
RPL18F	ATCCGGTCACAGAACCGCTC	Amplification of <i>RPL18</i>
RPL18R	ATGCTGCTCGAGTCTCTATG	Amplification of <i>RPL18</i>
SAH1F	AGAACGGTCGTCACGTTATC	Amplification of <i>SAH1</i>
SAH1R	ATGTCAGCCTTGATGGACC	Amplification of <i>SAH1</i>
PDE1-SF1	CACCGGATCCCGAAAACATAAATGTCATTG	Confirmation of <i>pde1</i> mutants
PDE1-SR1	GTATTCTAGAGTGGCGTTATTCCAATACTCTA	Confirmation of <i>pde1</i> mutants
PDE1-PF1	GATTAACTGTGACACGACGCAC	Confirmation of <i>pde1</i> mutants
PDE1-TR1	CCAATAGATATGACAAGGAAGAGG	Confirmation of <i>pde1</i> mutants
PDE1DWF1	GTATAGGTCGACGGAAATAACGCCACTACAGAAATA	Amplification of 3' <i>PDE1</i> sequence
PDE1DWR1	GTTCGGGCCTGACGATGAAGAACATTAC	Amplification of 3' <i>PDE1</i> sequence
PDE1F	AACATATGAACATAAAATGTCATTG	Amplification of <i>PDE1</i>
PDE1hisR	GGGGATCCCTAGTGTGATGGTGGTGGTGATGTACTATA ATTGAGGTGCCACTAAG	Amplification of <i>PDE1</i>
PDE2TF	AACATATGAGATATTATGGCAGAA	Amplification of <i>PDE2</i>
PDE2-P2-RF	GGATATGGTTGTTAATTCTTGTGTC	<i>PDE2</i> reintegration
PDE2hisR	GGGGATCCCTAGTGTGATGGTGGTGGTGATGTTCTTT GCTCTTCCAACCAAAA	Amplification of <i>PDE2</i>
HWP1-F	TCAACTTATTGCTATCGCTTATTAC	RT-PCR of <i>HWP1</i>
HWP1-R	GGTGGATTGTCGCAAGG	RT-PCR of <i>HWP1</i>
CZF1-F	GTATCTCCCCCTAACAGCAG	RT-PCR of <i>CZF1</i>
CZF1-R	GTTTATGCCGCTTCTC	RT-PCR of <i>CZF1</i>
URA3-F	ACCAAGTAGCACAAACGA	RT-PCR of <i>URA3</i>
URA3-R	CTCCATTCCCAGTGACA	RT-PCR of <i>URA3</i>
EFB1-F	AGCTGATGTCACTGTCT	RT-PCR of <i>EFB1</i>
EFB1-R	CCTTCCATTGATAGCTT	RT-PCR of <i>EFB1</i>
URA3 INTF	ATCAGTAGCATCATCCTCAGCG	Reintegration of <i>URA3</i>
URA3INTR	TAGTGATCACTCTCCTACTCCG	Reintegration of <i>URA3</i>
URA3-INF1	GGATTGATTGGCTTATTATGACACC	<i>URA3</i> integration
URA3-INR1	CATTCCCAGTGACACCATGAGCATTG	<i>URA3</i> integration