

Table S1. Genes regulated by *pmt* mutations

Supplemental Table 1A

Transcript levels of genes in the *pmt1* mutant CAP1-312 relative to wild-type strain CAF2-1. The minimal FDR value calculated by the SAM program was 5.6 %. Only genes regulated at least by a factor 1.5 are shown. Functional assignments are according to <http://mips.gsf.de/CYGD/db/index.html> and <http://www.candidagenome.org/>

gene on array	synonym	orf19 number	proposed function	q-value	fold regulation	gene regulated in other mutants (<i>pmt</i> number)
<u>Upregulation (59 genes)</u>						
<i>Unknown function or not classified</i>						
<i>IPF7109</i>	<i>CA5650</i>	<i>orf19.7350</i>	unknown function	0.65	2.16	
<i>IPF5217</i>	<i>CA5382</i>	<i>orf19.7270</i>	unknown function	0.47	1.98	
<i>IPF525</i>	<i>CA5613</i>	<i>orf19.7085</i>	unknown function	0.93	1.98	
<i>IPF9384</i>	<i>CA4769</i>	<i>orf19.4001</i>	unknown function	0.65	1.91	
<i>IPF14348.3f</i>	<i>CA3231</i>	<i>orf19.6293.1</i>	unknown function, 3-prime end	4.91	1.89	
<i>IPF8951</i>	<i>CA2360</i>	<i>orf19.4897</i>	unknown function	0.47	1.84	↓: 4
<i>IPF13577</i>	<i>CA0434</i>	<i>orf19.1735</i>	unknown function	0.47	1.79	
<i>IPF26</i>	<i>CA6083</i>	<i>orf19.5976</i>	unknown function	3.98	1.79	
<i>IPF1911</i>	<i>CA5282</i>	<i>orf19.7139</i>	unknown function	3.98	1.71	
<i>IPF19977</i>	<i>CA3211</i>	<i>orf19.6192</i>	unknown function	3.98	1.70	↑: 5
<i>IPF4129</i>	<i>CA3647</i>	<i>orf19.2038</i>	unknown function	5.66	1.69	
<i>IPF2233</i>	<i>CA4580</i>	<i>orf19.6898.1</i>	unknown function	0.47	1.68	
<i>IFF8</i>	<i>CA2713</i>	<i>orf19.570</i>	unknown function	0.47	1.65	
<i>IPF17380.2</i>	<i>CA0078</i>	<i>orf19.381</i>	unknown function,5-prime end	0.79	1.57	
<i>IPF1980</i>	<i>CA5564</i>	<i>orf19.7328</i>	unknown function	4.14	1.54	↓: 6
<i>IPF20054</i>	<i>CA0262</i>	<i>orf19.6117</i>	unknown function	0.47	1.53	↓: 2
<i>IPF2334</i>	<i>CA5199</i>	<i>orf19.7013</i>	unknown function	5.66	1.53	
<i>IPF9211.3f</i>	<i>CA3141</i>	<i>orf19.3712</i>	unknown function, 3-prime end	3.98	1.51	
<i>IPF8617</i>	<i>CA0941</i>	<i>orf19.3705</i>	unknown function	3.26	1.51	
<i>IPF4258</i>	<i>CA4002</i>	<i>orf19.1634</i>	unknown function	4.63	1.51	
<i>Cellular defense mechanisms, stress</i>						
<i>RTA2</i>	<i>CA3607</i>	<i>orf19.24</i>	stress-associated protein	0.47	2.03	
<i>AOX2.3f</i>	<i>CA2189</i>	<i>orf19.4773</i>	alternative oxidase	0.47	1.92	
<i>KAR2</i>	<i>CA0915</i>	<i>orf19.2013</i>	DnaK-type molecular chaperone	0.47	1.89	↑: 5
<i>RGD3</i>	<i>CA3679</i>	<i>orf19.730</i>	Rho GTPase activating protein	0.47	1.87	
<i>DDR48</i>	<i>CA4336</i>	<i>orf19.4082</i>	stress protein	0.47	1.80	
<i>SSR1</i>	<i>CA5213</i>	<i>orf19.7030</i>	secretory stress response protein 1	0.47	1.70	
<i>CDR1</i>	<i>CA6066</i>	<i>orf19.6000</i>	multidrug resistance protein	0.47	1.64	
<i>DEF1</i>	<i>CA5968</i>	<i>orf19.7561</i>	induced by farnesol and high density	0.47	1.65	
<i>GTT1</i>	<i>CA4712</i>	<i>orf19.6947</i>	glutathione S-transferase	0.47	1.63	
<i>HAC1</i>	<i>CA0457</i>	<i>orf19.2432</i>	transcription factor (UPR pathway)	4.63	1.54	
<i>SPR3</i>	<i>CA0363</i>	<i>orf19.1524</i>	sporulation-specific septin	5.66	1.52	

Metabolism						
<i>LPD1</i>	CA2998	<i>orf19.6127</i>	dihydrolipoamide dehydrogenase	0.47	1.90	
<i>RMT2.5eoc</i>	CA0119	<i>orf19.920</i>	N-delta-arginine methyltransferase	0.47	1.78	
<i>CFL1</i>	CA3460	<i>orf19.1263</i>	ferric reductase	0.47	1.75	
<i>KGD2</i>	CA2997	<i>orf19.6126</i>	2-oxoglutarate dehydrogenase complex E2 component	0.47	1.66	
<i>TFP3</i>	CA4937	<i>orf19.6538</i>	H ⁺ -ATPase	0.65	1.60	
<i>DPM1</i>	CA3899	<i>orf19.5073</i>	dolichol phosphate mannose synthase	5.22	1.58	
<i>ARD8</i>	CA3288	<i>orf19.6322</i>	D-arabinitol dehydrogenase	1.50	1.58	
<i>FGR28</i>	CA0296	<i>orf19.1596</i>	adenylate cyclase	0.47	1.57	↓: 4; ↑: 5
<i>IPF4293</i>	CA4249	<i>orf19.538</i>	similar to <i>Saccharomyces cerevisiae</i> Gpi2p N-acetylglucosaminyl-phosphatidylinositol biosynthetic protein	0.47	1.56	
<i>IPF5673</i>	CA1103	<i>orf19.4948</i>	similar to <i>Saccharomyces cerevisiae</i> Rex3p RNA exonuclease	5.66	1.53	
<i>CHT1</i>	CA5859	<i>orf19.7517</i>	endochitinase 1 precursor	4.14	1.52	
<i>IPF15525</i>	CA2907	<i>orf19.4520</i>	gluconokinase	0.47	1.50	
Transport						
<i>IPF11059.2</i>	CA0993	<i>orf19.1395</i>	phosphate transporter	0.47	2.27	
<i>HGT16</i>	CA3414	<i>orf19.6141</i>	glucose permease	3.98	1.70	
<i>IPF6108</i>	CA3073	<i>orf19.4811</i>	tricarboxylate carrier	1.50	1.67	↓: 4
<i>HGT14</i>	CA0480	<i>orf19.2633</i>	glucose permease	1.95	1.62	
<i>YPT32</i>	CA0470	<i>orf19.2622</i>	small GTP-binding protein essential for Golgi function	0.47	1.53	
Transcription						
<i>CTA213.3</i>	CA5387	<i>orf19.7276.1</i>	transcriptional activator, 3-prime end	0.47	1.71	
<i>ZCF15</i>	CA1892	<i>orf19.2753</i>	zinc finger transcription factor	0.47	1.64	
<i>CTA21</i>	CA3851	<i>orf19.6112</i>	transcriptional activator	3.98	1.55	
Protein fate						
<i>MAP2</i>	CA1534	<i>orf19.1214</i>	methionine aminopeptidase	0.79	1.56	
<i>IPF11888</i>	CA4416	<i>orf19.5180</i>	cystein peroxidase	4.91	1.56	↑: 2
<i>IPF20016</i>	CA4514	<i>orf19.491</i>	similar to <i>Saccharomyces cerevisiae</i> Sec63p ER protein-translocation complex subunit	0.47	1.52	
Interaction with environment						
<i>PGA13</i>	CA5112	<i>orf19.6420</i>	Similarity to mucin proteins	0.47	1.75	
<i>ALS1</i>	CA0316	<i>orf19.5741</i>	agglutinin-like protein	0.47	1.71	↓: 2
<i>PGA36</i>	CA3827	<i>orf19.5760</i>	GPI protein	0.47	1.54	
Protein biosynthesis						
<i>MRPL8</i>	CA2999		mitochondrial 60S ribosomal subunit	0.93	1.56	
Cell cycle and DNA processing						
<i>HPR5</i>	CA5811	<i>orf19.6614</i>	DNA helicase	3.26	1.84	↓: 2

Down-regulation (42 genes)

Unknown

function or not classified

<i>IPF6518</i>	CA2302	<i>orf19.1691</i>	unknown function	4.63	0.48	↓: 2, 5
<i>IPF6238</i>	CA2752	<i>orf19.2374</i>	GAG protein of retrotransposon pCal (Tca2)	0.47	0.49	↓: 6
<i>IPF6235</i>	CA2216	<i>orf19.5372</i>	protein of retrotransposon pCal (Tca2)	0.47	0.52	↓: 2, 5, 6
<i>IPF19568</i>	CA4870	<i>orf19.6556</i>	unknown function	4.63	0.57	↓: 5
<i>IPF5358</i>	CA3120	<i>orf19.3007</i>	unknown function	3.98	0.58	
<i>IPF10231.3f</i>	CA4052	<i>orf19.427</i>	unknown function, 3-prime end	0.79	0.58	
<i>IPF17119</i>	CA3934	<i>orf19.2008</i>	unknown function	0.65	0.61	
<i>IPF14802</i>	CA1184	<i>orf19.3782.2</i>	unknown function	2.68	0.61	
<i>IPF4459</i>	CA0523	<i>orf19.3528</i>	unknown function	0.47	0.64	
<i>IPF11854</i>	CA1412	<i>orf19.1278</i>	unknown function	4.14	0.64	
<i>IPF6237.2</i>	CA2217	<i>orf19.5373</i>	protein of retrotransposon pCal (Tca2)	0.47	0.64	
<i>IPF16143</i>	CA3581	<i>orf19.2259</i>	unknown function	0.47	0.66	
<i>IPF17055.3</i>	CA1692	<i>orf19.5036</i>	unknown function, 3-prime end	4.63	0.66	

Protein fate

<i>PMT1</i>	CA4424	<i>orf19.5171</i>	protein mannosyltransferase	0.47	0.19	
<i>PRC1</i>	CA0430	<i>orf19.1339</i>	carboxypeptidase Y precursor	0.65	0.48	
<i>RPN5.3f</i>	CA4798	<i>orf19.4032</i>	subunit of the regulatory particle of the proteasome, 3-prime end	1.50	0.53	
<i>IPF1183</i>	CA4816	<i>orf19.2082</i>	aspartyl protease	1.95	0.58	
<i>TOM37</i>	CA0230	<i>orf19.1532</i>	Mitochondrial outer membrane import receptor subunit	3.26	0.59	
<i>CPS2.5f</i>	CA5172	<i>orf19.4610</i>	carboxypeptidase YSCS precursor, 5-prime end	0.79	0.63	
<i>SMP2</i>	CA4540	<i>orf19.1462</i>	involved in plasmid maintenance, respiration and cell proliferation	4.14	0.65	
<i>TOM6</i>	CA1043	<i>orf19.1650</i>	mitochondrial outer membrane import receptor subunit	4.14	0.65	
<i>ANP1</i>	CA0528	<i>orf19.3622</i>	Golgi mannosyltransferase	4.91	0.65	
<i>VPS27</i>	CA1585	<i>orf19.6031</i>	vacuolar sorting	1.95	0.65	↓: 5

Transcription

<i>IPF19614.3f</i>	CA1859	<i>orf19.1496</i>	transcription factor (zinc finger)	1.95	0.54	
<i>ZNC1</i>	CA2539	<i>orf19.3187</i>	transcription factor (zinc finger)	2.68	0.57	
<i>SRB2.3f</i>	CA1292	<i>orf19.2711.1</i>	DNA-directed RNA polymerase II holoenzyme and Kornberg s mediator (SRB) subcomplex subunit, 3-prime end	0.79	0.63	
<i>SBP1</i>	CA2951	<i>orf19.5854</i>	RNA binding protein	0.47	0.64	
<i>IPF8362</i>	CA3384	<i>orf19.325</i>	similar to <i>Saccharomyces cerevisiae</i> Cft2p cleavage and polyadenylation specificity factor	5.66	0.65	
<i>IRO1</i>	CA2802	<i>orf19.1715</i>	transcription factor for iron transport	3.26	0.65	↓: 5

Metabolism

<i>PLB1</i>	CA1975	<i>orf19.689</i>	phospholipase B	0.93	0.54	↓: 2,5,6 ↑: 4
<i>IFE1</i>	CA1958	<i>orf19.769</i>	polyol dehydrogenase	3.98	0.58	
<i>ERG11</i>	CA1387	<i>orf19.922</i>	cytochrome P450 lanosterol 14a-demethylase	0.47	0.60	↓: 6
<i>GPD1</i>	CA2263	<i>orf19.1756</i>	glycerol-3-phosphate dehydrogenase	0.47	0.63	↓: 5, 6

Protein biosynthesis						
<i>MRPL37</i>	CA1928	<i>orf19.755</i>	mitochondrial ribosomal protein	0.65	0.57	
<i>NEP1</i>	CA4099	<i>orf19.665</i>	unknown function (ribosome biogenesis)	0.79	0.59	
<i>MRP51</i>	CA1445	<i>orf19.185</i>	mitochondrial ribosomal protein of the small subunit	4.14	0.62	
<i>MRP10</i>	CA1724	<i>orf19.2650.1</i>	mitochondrial ribosomal protein	4.63	0.65	
Interaction with environment						
<i>PGA45</i>	CA0380	<i>orf19.2451</i>	unknown function (GPI-linked protein)	0.47	0.47	
<i>ALS9.3f</i>	CA1426	<i>orf19.5745</i>	cell wall protein	5.66	0.62	
Cellular defense mechanisms						
<i>HSP12</i>	CA0627	<i>orf19.3160</i>	heat shock protein	0.47	0.64	↓: 5, 6
Cell cycle						
<i>SPC19</i>	CA2420	<i>orf19.4473</i>	spindle pole body protein	0.65	0.58	
Transport						
<i>NIC96</i>	CA3940	<i>orf19.2002</i>	nuclear pore protein	2.68	0.62	

Supplemental Table 1B

Transcript levels of genes in the *pmt2/PMT2* mutant P2-2 relative to wild-type strain CAF2-1. The minimal FDR value calculated by the SAM program was 2.3 %. Only genes regulated at least by a factor 1.5 are shown. Functional assignments are according to <http://mips.gsf.de/CYGD/db/index.html> and <http://www.candidagenome.org/>.

gene on array	synonym	orf19 number	proposed function	q-value	fold regulation	gene regulated in other mutants (<i>pmt</i> number)
<u>Upregulation (10 genes)</u>						
<i>Metabolism</i>						
<i>GDH2</i>	CA1775	<i>orf19.2192</i>	NAD-specific glutamate dehydrogenase (NAD)	1.79	1.69	
<i>IPF15013</i>	CA2761	<i>orf19.5626</i>	pyruvate decarboxylase regulatory protein (by homology)	1.79	1.69	
<i>CIT1</i>	CA3909	<i>orf19.4393</i>	citrate synthase	1.79	1.52	↑: 5
<i>DBP9</i>	CA0715	<i>orf19.3393</i>	DEAD box RNA helicase	2.36	1.52	
<i>PYC2.3f</i>	CA1464	<i>orf19.789</i>	pyruvate carboxylase 2, 3 prime end	1.07	1.51	↑: 6
<i>Unknown function or not classified</i>						
<i>IPF1617</i>	CA4894	<i>orf19.6586</i>	unknown function (induced by benomyl and diols)	1.07	1.99	
<i>IPF538</i>	CA5609	<i>orf19.7091</i>	unknown function	1.07	1.68	
<i>IPF5330</i>	CA1339	<i>orf19.3448</i>	unknown function	1.07	1.59	
<i>Protein fate</i>						

<i>ALG2.5</i>	<i>CA1530</i>	<i>orf19.1221</i>	mannosyltransferase, 5-prime end	2.36	1.72	
<i>IPF11888</i>	<i>CA4416</i>	<i>orf19.5180</i>	cystein peroxidase	1.79	1.52	↑: 1
<u>Down-regulation (46 genes)</u>						
<i>Metabolism</i>						
<i>SOU2</i>	<i>CA3770</i>	<i>orf19.2897</i>	sorbitol utilization protein	1.07	0.26	
<i>RNR22</i>	<i>CA4492</i>	<i>orf19.1868</i>	ribonucleoside-diphosphate reductase	1.07	0.30	↓: 6
<i>DLD1</i>	<i>CA4905</i>	<i>orf19.6043</i>	D-lactate ferricytochrome c oxidoreductase	2.36	0.35	
<i>RHR2</i>	<i>CA5788</i>	<i>orf19.5437</i>	DL-glycerol phosphatase	1.07	0.43	↓: 5, 6
<i>PFK1</i>	<i>CA1834</i>	<i>orf19.3967</i>	6-phosphofructokinase, alpha subunit	1.07	0.44	↓: 4, 5, 6
<i>ADH5</i>	<i>CA2391</i>	<i>orf19.2608</i>	alcohol dehydrogenase	1.07	0.48	↓: 5
<i>GSY1</i>	<i>CA5467</i>	<i>orf19.3278</i>	glycogen synthase	1.07	0.53	↓: 5
<i>PLB1</i>	<i>CA1975</i>	<i>orf19.689</i>	phospholipase B	1.07	0.54	↓: 1, 5, 6; ↑: 4
<i>TPS3</i>	<i>CA5505</i>	<i>orf19.5348</i>	alpha,alpha-trehalose-phosphate synthase, regulatory subunit	1.07	0.55	↓: 5, 6
<i>GLK1</i>	<i>CA0263</i>	<i>orf19.13</i>	aldohexose specific glucokinase	1.07	0.57	↓: 5, 6
<i>CAF16</i>	<i>CA3880</i>	<i>orf19.388</i>	ABC ATPase	2.10	0.59	↓: 5, 6
<i>GPD2</i>	<i>CA0824</i>	<i>orf19.691</i>	glycerol 3-phosphate dehydrogenase	1.07	0.59	↓: 5, 6
<i>PFK2</i>	<i>CA3112</i>	<i>orf19.6540</i>	6-phosphofructokinase, beta subunit	1.07	0.62	↓: 4, 6
<i>PHO15</i>	<i>CA4657</i>	<i>orf19.4444</i>	phosphatase	1.07	0.63	↓: 5
<i>IPF1097</i>	<i>CA5766</i>	<i>orf19.5408</i>	serine/threonine protein kinase	1.07	0.64	↓: 5
<i>HXK2</i>	<i>CA0127</i>	<i>orf19.542</i>	hexokinase II	1.07	0.65	↓: 6
<i>IFE2</i>	<i>CA2075</i>	<i>orf19.5288</i>	alcohol dehydrogenase	1.79	0.65	↓: 4, 5
<i>IPF2471</i>	<i>CA5728</i>	<i>orf19.7437</i>	maltose acetyltransferase	1.07	0.66	
<i>IPF4959</i>	<i>CA6057</i>	<i>orf19.7676</i>	D-xylulose reductase	1.07	0.66	↓: 5, 6
<i>ERG1</i>	<i>CA1353</i>	<i>orf19.406</i>	squalene epoxidase	1.07	0.66	↓: 5
<i>FBA1</i>	<i>CA5180</i>	<i>orf19.4618</i>	fructose-bisphosphate aldolase	1.07	0.66	↓: 5, 6
<i>Unknown function or not classified</i>						
<i>IPF9000</i>	<i>CA0732</i>	<i>orf19.4636</i>	unknown function	1.07	0.17	
<i>IPF4976</i>	<i>CA1739</i>	<i>orf19.2522</i>	unknown function	2.10	0.18	
<i>IPF11273</i>	<i>CA1108</i>	<i>orf19.5231</i>	unknown function	1.07	0.35	
<i>NOP15</i>	<i>CA5644</i>	<i>orf19.7050</i>	nucleolar ribosome biogenesis factor	1.07	0.44	
<i>IPF7477</i>	<i>CA1919</i>	<i>orf19.2442</i>	unknown function	2.10	0.57	
<i>IPF20054</i>	<i>CA0262</i>	<i>orf19.6117</i>	unknown function	1.07	0.63	↑: 1
<i>IPF6518</i>	<i>CA2302</i>	<i>orf19.1691</i>	unknown function	1.07	0.66	↓: 1, 5
<i>IPF10493</i>	<i>CA0831</i>	<i>orf19.247</i>	unknown function	1.07	0.67	↓: 5
<i>IPF6235</i>	<i>CA2216</i>	<i>orf19.5372</i>	protein of pCal (Tca2) retrotransposon	1.07	0.66	↓: 1, 5, 6
<i>Interaction with environment</i>						
<i>CHS8</i>	<i>CA5750</i>	<i>orf19.5384</i>	chitin synthase	1.07	0.08	
<i>KRE1</i>	<i>CA2589</i>	<i>orf19.4377</i>	β-1,6-glucan synthesis	1.07	0.21	
<i>ALS12.3f</i>	<i>CA0413</i>	<i>orf19.2122</i>	agglutinin-like protein, 3-prime end	1.07	0.34	↓: 5
<i>ALS4.3f</i>	<i>CA1528</i>	<i>orf19.4556</i>	agglutinin-like protein, 3-prime end	1.07	0.44	↓: 5, 6
<i>IRS4</i>	<i>CA4717</i>	<i>orf19.6953</i>	cell wall integrity factor	1.07	0.55	
<i>ALS1</i>	<i>CA0316</i>	<i>orf19.5741</i>	agglutinin-like protein	1.07	0.57	↑: 1
<i>Transport</i>						
<i>DAL52</i>	<i>CA2478</i>	<i>orf19.3208</i>	allantoate permease	1.07	0.25	

<i>CAN2</i>	<i>CA1191</i>	<i>orf19.111</i>	amino acid permease	1.07	0.37	
<i>SNC2</i>	<i>CA5256</i>	<i>orf19.5006.1</i>	v-SNARE	1.07	0.65	↓: 5, 6
Transcription						
<i>HOS1</i>	<i>CA1453</i>	<i>orf19.4411</i>	histon deacetylase	1.07	0.39	
<i>IPF9347</i>	<i>CA1643</i>	<i>orf19.1729</i>	transcription factor (zinc finger)	1.07	0.34	
<i>IPF1674</i>	<i>CA4874</i>	<i>orf19.6559</i>	transcription initiation factor	1.07	0.59	
Cellular defense mechanisms						
<i>OSM1</i>	<i>CA4570</i>	<i>orf19.6882</i>	similar to <i>Saccharomyces cerevisiae</i> Osm1p osmotic growth protein	1.07	0.47	↓: 4, 5, 6
<i>IPF4065</i>	<i>CA0386</i>	<i>orf19.1862</i>	stress-related protein	1.07	0.64	↓: 5
Cell cycle and DNA processing						
<i>HRP5</i>	<i>CA5811</i>	<i>orf19.6614</i>	DNA helicase	1.07	0.64	↑: 1
Protein fate						
<i>STF2</i>	<i>CA2738</i>	<i>orf19.2107.1</i>	ATP synthase regulatory factor	1.07	0.53	↓: 4, 5, 6

Supplemental Table 1C

Transcript levels of genes in the *pmt4* mutant CAP4-216 relative to wild-type strain CAF2-1. The minimal FDR value calculated by the SAM program was 4.79 %. Only genes regulated at least by a factor 1.5 are shown. Functional assignments are according to <http://mips.gsf.de/CYGD/db/index.html> and <http://www.candidagenome.org/>.

gene on array	synonym	orf19 number	proposed function	q-value	fold regulation	gene regulated in other mutants (<i>pmt</i> number)
<u>Upregulation (67 genes)</u>						
Protein biosynthesis						
<i>SMD3</i>	<i>CA3087</i>	<i>orf19.4146</i>	core snRNP protein	4.79	6.50	
<i>MRPL36</i>	<i>CA2481</i>	<i>orf19.3205</i>	ribosomal protein YmL36 precursor, mitochondrial	3.73	2.35	
<i>IPF5446</i>	<i>CA2613</i>	<i>orf19.5698</i>	putative ribosomal protein	1.52	2.24	
<i>VAS1</i>	<i>CA0223</i>	<i>orf19.1295</i>	valyl-tRNA synthetase	1.52	2.16	
<i>IPF3361</i>	<i>CA4785</i>	<i>orf19.4018</i>	putative mitochondrial ribosomal protein S7	1.52	1.91	
<i>IPF10027</i>	<i>CA3016</i>	<i>orf19.3914</i>	unknown function	1.52	1.86	
<i>TRM1</i>	<i>CA5457</i>	<i>orf19.3265</i>	tRNA methyltransferase	1.52	1.81	
<i>IPF6893</i>	<i>CA3324</i>	<i>orf19.2675</i>	RNA splicing factor	3.98	1.70	
<i>NOPI</i>	<i>CA3570</i>	<i>orf19.3138</i>	fibrillarlin	1.52	1.70	
<i>MRPL16</i>	<i>CA0910</i>	<i>orf19.2019</i>	ribosomal protein	1.52	1.74	
<i>IPF13717</i>	<i>CA0712</i>	<i>orf19.2167</i>	pre-rRNA processing	1.52	1.66	
<i>MAK21</i>	<i>CA6134</i>	<i>orf19.5912</i>	ribosome biogenesis protein	1.52	1.60	
<i>IPF4776</i>	<i>CA1443</i>	<i>orf19.4492</i>	nucleolar protein	3.22	1.57	
<i>TIF5</i>	<i>CA0667</i>	<i>orf19.4261</i>	translation initiation factor eIF5	1.52	1.54	
<i>IMG1</i>	<i>CA2945</i>	<i>orf19.1967</i>	ribosomal protein, mitochondrial	3.73	1.53	
<i>IPF10301</i>	<i>CA1876</i>	<i>orf19.2275</i>	putative 60S ribosomal protein L7/L12 homolog, mitochondrial precursor	3.98	1.52	

<i>LPA4</i>	CA5198	<i>orf19.7012</i>	similar to ribosomal protein S16, mitochondrial	3.98	1.51	
Unknown and not classified						
<i>IPF20137</i>	CA3583	<i>orf19.2257</i>	unknown function	1.52	7.78	
<i>JIP5</i>	CA1950	<i>orf19.4746</i>	unknown function	1.52	2.28	
<i>IPF2988</i>	CA5030	<i>orf19.6984</i>	unknown function (membrane protein)	3.22	2.12	
<i>IPF6328</i>	CA1807	<i>orf19.1114</i>	unknown function	4.79	2.05	
<i>IPF8275</i>	CA3993	<i>orf19.1569</i>	unknown function	3.98	1.88	
<i>IPF18109</i>	CA5391	<i>orf19.934</i>	unknown function	3.98	1.85	
<i>IPF19617</i>	CA0249	<i>orf19.1350</i>	unknown function	3.98	1.85	
<i>IPF14797.5f</i>	CA1082	<i>orf19.4818</i>	unknown function	3.98	1.80	
<i>IPF14013</i>	CA3012	<i>orf19.6227</i>	unknown function	1.52	1.66	
<i>IPF3618</i>	CA4339	<i>orf19.6710</i>	unknown function	1.52	1.66	
<i>IPF15664</i>	CA2160	<i>orf19.5296</i>	unknown function	3.73	1.64	
<i>IPF6754</i>	CA3389	<i>orf19.319</i>	unknown function	3.98	1.59	
<i>SOL1</i>	CA0259	<i>orf19.1355</i>	unknown function	3.98	1.54	
<i>IPF9130</i>	CA1923	<i>orf19.5539</i>	unknown function	1.52	1.51	
Metabolism						
<i>PLB1</i>	CA1975	<i>orf19.689</i>	phospholipase B	3.73	30.47	↓: 1, 2, 5, 6
<i>IPF2861</i>	CA5524	<i>orf19.7281</i>	pyruvate dehydrogenase kinase	3.98	3.35	
<i>PEL1</i>	CA5625	<i>orf19.7072</i>	CDP-diacylglycerol-serine-O-phosphatidyltransfer	1.52	2.20	
<i>IMH3</i>	CA1246	<i>orf19.18</i>	IMP dehydrogenase	1.52	2.09	
<i>CYS3</i>	CA5127	<i>orf19.6402</i>	cystathionine gamma-lyase	1.52	1.94	
<i>IMH3</i>	CA1246	<i>orf19.19</i>	IMP dehydrogenase	1.52	1.89	
<i>CYB5</i>	CA5645	<i>orf19.7049</i>	cytochrome b5	1.52	1.69	
<i>HPT1</i>	CA3787	<i>orf19.5832</i>	hypoxanthine guanine phosphoribosyl- transferase	1.52	1.63	
<i>ACS2</i>	CA2858	<i>orf19.1064</i>	acetyl-coenzyme-A synthetase	1.52	1.63	
<i>PRS3</i>	CA3168	<i>orf19.1575</i>	ribosephosphate pyrophosphokinase	4.79	1.59	
<i>ERG6</i>	CA4005	<i>orf19.1631</i>	sterol transmethylase	3.98	1.54	
<i>IPP1</i>	CA0870	<i>orf19.3590</i>	inorganic pyrophosphatase	3.98	1.52	
Protein fate						
<i>IMP1</i>	CA5084	<i>orf19.3061</i>	protease, mitochondrial	4.79	4.54	
<i>SLA2</i>	CA5327	<i>orf19.7201</i>	cytoskeleton assembly control protein	1.52	2.16	
<i>YTA7</i>	CA1092	<i>orf19.3949</i>	26S proteasome subunit	1.52	1.78	
<i>VAN1</i>	CA5956	<i>orf19.6738</i>	vanadate resistance protein	2.54	1.75	
<i>UBP12</i>	CA1124	<i>orf19.6260</i>	ubiquitin C-terminal hydrolase	3.22	1.63	
<i>FAA4</i>	CA5992	<i>orf19.7592</i>	long-chain fatty acid--CoA ligase and synthetase 4	1.52	1.63	
<i>TOM72</i>	CA1397	<i>orf19.3700</i>	mitochondrial import receptor	3.98	1.53	
<i>IPF2973</i>	CA3064	<i>orf19.4283</i>	subunit of proteasome regulatory particle	3.98	1.53	
Transport						
<i>IPF9224</i>	CA3806	<i>orf19.2485</i>	similar to <i>Saccharomyces cerevisiae</i> Nup170p nuclear pore protein	1.52	2.25	
<i>PSE1</i>	CA3892	<i>orf19.5085</i>	karyopherin-beta protein	1.52	1.95	

IPF7706	CA4115	orf19.680	mitochondrial phosphatase	1.52	1.75	
IPF15660	CA1226	orf19.4159	mitochondrial carrier	3.22	1.63	
IPF11224	CA3781	orf19.5839	similar to <i>Saccharomyces cerevisiae</i> Pdr16p protein involved in lipid biosynthesis and multidrug resistance	1.52	1.60	

Transcription

CUP1	CA4960	orf19.6514	transcription factor	1.52	3.01	
ZCF37	CA5678	orf19.7381	transcription factor (zinc-finger)	3.98	1.87	
BDF1	CA5425	orf19.978	transcription factor	1.52	1.87	
ARC1	CA3042	orf19.2422	RNA binding protein	3.98	1.84	↑: 5
RPB5	CA3494	orf19.6340	DNA-directed RNA polymerase I, II, III	1.52	1.60	
MCM1	CA5209	orf19.7025	transcription factor (MADS box)	1.52	1.56	

Cellular defense and stress

SNZ1	CA4184	orf19.2947	stationary phase protein	1.52	3.87	↑: 6; ↓: 5
SSE1	CA1911	orf19.2435	heat shock protein of HSP70 family	3.98	1.63	

Cellular organization and differentiation

IPF7423.3f	CA0400	orf19.6223	similar to <i>Saccharomyces cerevisiae</i> Spo22 involved in sporulation, 3-prime end	1.52	1.97	
CBF5	CA2373	orf19.1833	centromere/ microtubule binding protein	1.52	1.74	↑: 5
CDC42	CA3879	orf19.390	small GTPase	1.52	1.69	

Down-regulation (61 genes)

Unknown and not classified

IPF4696	CA4970	orf19.5282	unknown function	3.73	0.28	
IPF4859	CA3700	orf19.6276	unknown function	3.73	0.34	↓: 5
IPF13080	CA0589	orf19.1162.1	unknown function	3.98	0.35	
IPF3857	CA3608	orf19.25	unknown function	3.98	0.37	↓: 5
IPF8951	CA2360	orf19.4897	unknown function	3.73	0.37	↓: 1
IPF20134	CA3522	orf19.994	unknown function	3.73	0.38	↓: 5
IPF10424	CA5230	orf19.5034	unknown function	4.79	0.38	↓: 5
IFR1	CA2258	orf19.1763	unknown function	1.52	0.39	
IPF1631	CA4888	orf19.6580	unknown function	4.79	0.43	
IPF13868	CA4436	orf19.5159	unknown function	3.73	0.43	
IPF11995	CA0427	orf19.2761	unknown function (membrane protein)	4.79	0.43	↓: 5
IPF20056	CA0495	orf19.2659	unknown function	1.52	0.44	↓: 5
IPF13621	CA3398	orf19.3973	unknown function	2.54	0.46	↓: 5
IPF10032.3f	CA2237	orf19.3917	unknown function, 3-prime end	2.54	0.48	
IPF2106	CA4318	orf19.4104	unknown function	3.73	0.49	↓: 5
IPF16267	CA0634	orf19.1772	unknown function	3.22	0.50	
IPF14219.2	CA0564	orf19.2928	unknown function	3.73	0.55	↓: 5
IPF8114	CA2200	orf19.2939	unknown function	3.73	0.55	
IPF7353	CA2716	orf19.577	unknown function	2.54	0.56	

<i>IPF19936</i>	<i>CA1935</i>	<i>orf19.4185</i>	unknown function	3.98	0.56	
<i>IPF8990</i>	<i>CA3135</i>	<i>orf19.1366</i>	unknown function	3.98	0.57	
<i>IPF9162</i>	<i>CA4486</i>	<i>orf19.1877</i>	unknown function	2.54	0.57	
<i>IPF3866</i>	<i>CA1248</i>	<i>orf19.21</i>	unknown function	3.73	0.58	
<i>SDS24</i>	<i>CA3920</i>	<i>orf19.5118</i>	unknown function	3.22	0.59	
<i>IPF14825</i>	<i>CA0799</i>	<i>orf19.1610</i>	unknown function	3.73	0.61	
<i>IPF11858</i>	<i>CA1411</i>	<i>orf19.1277</i>	unknown function	4.79	0.62	
<i>IPF11299</i>	<i>CA4378</i>	<i>orf19.5671</i>	unknown function	4.79	0.62	
<i>IPF3964</i>	<i>CA4111</i>	<i>orf19.675</i>	unknown function	3.98	0.63	
<i>IPF4949</i>	<i>CA6053</i>	<i>orf19.7670</i>	unknown function	4.79	0.63	
<i>IPF7403</i>	<i>CA2710</i>	<i>orf19.4664</i>	unknown function	4.79	0.64	
<i>IPF3257.2</i>	<i>CA4850</i>	<i>orf19.3820</i>	unknown function	3.98	0.65	
<i>IPF9483</i>	<i>CA2435</i>	<i>orf19.3395</i>	unknown function (membrane protein)	3.73	0.64	
Metabolism						
<i>ISN1</i>	<i>CA1020</i>	<i>orf19.3355</i>	inosine 5'-monophosphate 5'-nucleotidase	2.54	0.31	
<i>AMYG2.5f</i>	<i>CA3518</i>	<i>orf19.999</i>	glucoamylase, 5-prime end	4.79	0.39	
<i>PCK1</i>	<i>CA5857</i>	<i>orf19.7514</i>	phosphoenolpyruvate carboxykinase	3.73	0.42	
<i>BNA1</i>	<i>CA0804</i>	<i>orf19.3515</i>	3-hydroxyanthranilic acid dioxygenase	1.52	0.46	
<i>FGR28</i>	<i>CA0296</i>	<i>orf19.1596</i>	adenylate cyclase	1.52	0.50	↑: 1, 5
<i>IFE2</i>	<i>CA2075</i>	<i>orf19.5288</i>	alcohol dehydrogenase	1.52	0.55	↓: 2, 5
<i>IPF1912</i>	<i>CA5283</i>	<i>orf19.7140</i>	catechol o-methyltransferase	3.98	0.55	
<i>TPS2</i>	<i>CA5066</i>	<i>orf19.3038</i>	trehalose-6-phosphate phosphatase	2.54	0.55	
<i>PFK2</i>	<i>CA3112</i>	<i>orf19.6540</i>	6-phosphofructokinase, beta subunit	3.73	0.59	↓: 2, 6
<i>PFK1</i>	<i>CA1834</i>	<i>orf19.3967</i>	6-phosphofructokinase, alpha subunit	4.79	0.61	↓: 2, 5, 6
<i>IPF12210</i>	<i>CA1742</i>	<i>orf19.5054</i>	quinolinate phosphoribosyltransferase	4.79	0.62	
<i>IPF4942</i>	<i>CA6052</i>	<i>orf19.7668</i>	similar to <i>Saccharomyces cerevisiae</i> Mal32p alpha-glucosidase	4.79	0.64	↓: 5
<i>GPH1</i>	<i>CA5206</i>	<i>orf19.7021</i>	glycogen phosphorylase	3.73	0.65	
Transport						
<i>SFT1</i>	<i>CA5433</i>	<i>orf19.3234</i>	SNARE-like protein	2.54	0.27	↓: 5
<i>SEC10</i>	<i>CA2012</i>	<i>orf19.3086</i>	exocyst component	3.73	0.40	
<i>HGT7</i>	<i>CA1067</i>	<i>orf19.2023</i>	glucose transporter	3.98	0.63	
<i>IPF6108</i>	<i>CA3073</i>	<i>orf19.4811</i>	tricarboxylate carrier	4.79	0.64	↑: 1
<i>IPF1022</i>	<i>CA5142</i>	<i>orf19.4579</i>	similar to <i>Saccharomyces cerevisiae</i> Erv29p ER-Golgi transport vesicle protein	3.73	0.65	
Transcription						
<i>EST3</i>	<i>CA5778</i>	<i>orf19.5423</i>	telomerase subunit	4.79	0.42	
<i>HDA1</i>	<i>CA1899</i>	<i>orf19.2606</i>	histone deacetylase	1.52	0.52	
<i>IPF12537</i>	<i>CA5577</i>	<i>orf19.7344</i>	subunit of histone deacetylase complex	3.73	0.58	
<i>IPF7646</i>	<i>CA1865</i>	<i>orf19.861</i>	transcription factor (bZIP)	4.79	0.65	
Cellular defense						
<i>YHB1</i>	<i>CA0943</i>	<i>orf19.3707</i>	nitric oxide dioxygenase	1.52	0.46	
<i>OSM1</i>	<i>CA4570</i>	<i>orf19.6882</i>	similar to <i>Saccharomyces cerevisiae</i> Osm1p osmotic growth protein	3.73	0.61	↓: 2, 5, 6

<i>MUM2</i>	CA2490	<i>orf19.4044</i>	ubiquitin C-terminal hydrolase	4.79	0.66	
Interaction with environment						
<i>SMK1</i>	CA5334	<i>orf19.7208</i>	MAP kinase	2.54	0.43	↓: 5
<i>PRA1</i>	CA4399	<i>orf19.3111</i>	pH-regulated cell surface protein	2.54	0.50	
<i>GPR1</i>	CA3354	<i>orf19.9499</i>	G-protein-coupled receptor of plasma membrane	4.79	0.60	
Protein fate						
<i>STF2</i>	CA2738	<i>orf19.2107.1</i>	ATP synthase regulatory factor	1.52	0.43	↓: 2, 5, 6

Supplemental Table 1D

Transcript levels of genes in the *pmt5* mutant P5-571 relative to wild-type strain CAF2-1. The minimal FDR value calculated by the SAM program was 5.4 %. Only genes regulated at least by a factor 1.5 are shown. Functional assignments are according to <http://mips.gsf.de/CYGD/db/index.html> and <http://www.candidagenome.org/>.

gene on array	synonym	orf19 number	proposed function	q-value	fold regulation	gene regulated in other mutants (<i>pmt</i> number)
<u>Upregulation (31 genes)</u>						
Unknown function or not classified						
<i>IPF10138</i>	CA1356	<i>orf19.409</i>	unknown function (membrane protein)	3.42	1.62	
<i>IPF3709</i>	CA5051	<i>orf19.3015</i>	unknown function	2.18	1.58	
<i>IPF16479</i>	CA0098	<i>orf19.2319</i>	unknown function	5.49	1.57	
<i>IPF17283</i>	CA2021	<i>orf19.4907</i>	unknown function	2.18	1.54	
<i>IPF19977</i>	CA3211	<i>orf19.6192</i>	unknown function	2.18	1.54	↑: 1
<i>IPF18447</i>	CA2592	<i>orf19.59</i>	unknown function (zinc-finger)	3.42	1.52	
<i>NOG2</i>	CA2847	<i>orf19.5733</i>	unknown function (nuclear/nucleolar GTP-binding protein)	2.96	1.50	
Interaction with environment						
<i>CCC2</i>	CA1655	<i>orf19.4328</i>	putative copper-transporting ATPase	2.18	2.13	
<i>FET35</i>	CA1431	<i>orf19.1206</i>	multicopper ferroxidase	2.18	1.57	
<i>SUN42</i>	CA5232	<i>orf19.5032</i>	cell wall beta-glucosidase	3.74	1.55	
<i>IHD1</i>	CA3827	<i>orf19.5760</i>	GPI protein	2.18	1.55	
<i>PHR1</i>	CA4857	<i>orf19.3829</i>	GPI-anchored pH responsive glycosyl transferase	3.74	1.54	
<i>FET34</i>	CA2920	<i>orf19.4215</i>	multicopper ferroxidase	2.18	1.51	
Protein fate						
<i>KAR2</i>	CA0915	<i>orf19.2013</i>	dnaK-type molecular chaperone	2.96	2.14	↑: 1
<i>MNT1</i>	CA3469	<i>orf19.1665</i>	mannosyltransferase involved in n-linked and o-linked glycosylation	2.96	1.66	
<i>NPI46</i>	CA1629	<i>orf19.1030</i>	proline cis-trans isomerase	2.96	1.56	
<i>MNT2</i>	CA3467	<i>orf19.1663</i>	alpha-1,2-mannosyltransferase	3.29	1.51	
Protein biosynthesis						

<i>EFT3</i>	CA3081	<i>orf19.4152</i>	translation elongation factor 3	3.29	1.73	
<i>RPS21</i>	CA1715	<i>orf19.3334</i>	ribosomal protein	3.42	1.56	
<i>GCD11</i>	CA1322	<i>orf19.4223</i>	translation initiation factor eIF2	3.29	1.52	
<i>SQT1</i>	CA4794	<i>orf19.4029</i>	suppresses dominant-negative mutants of the ribosomal protein QSR1	2.18	1.52	
Metabolism						
<i>URA7</i>	CA1635	<i>orf19.3941</i>	CTP synthase 1	2.18	1.63	
<i>IPF6105</i>	CA3075	<i>orf19.4813</i>	GMP synthase	2.18	1.57	
<i>CIT1</i>	CA3909	<i>orf19.4393</i>	citrate synthase	3.42	1.55	↑: 2
<i>FGR28</i>	CA0296	<i>orf19.1596</i>	adenylate cyclase	3.29	1.55	↑: 1; ↓: 4
Transcription						
<i>ARC1</i>	CA3042	<i>orf19.2422</i>	G4 nucleic acid binding protein	3.42	7.82	↑: 4
<i>TYE7</i>	CA3707	<i>orf19.4941</i>	bHLH transcription factor	3.74	1.65	
<i>IPF16752</i>	CA1291	<i>orf19.2711</i>	RNA polymerase II elongator subunit	4.68	1.62	
Cellular organisation						
<i>CBF5</i>	CA2373	<i>orf19.1833</i>	centromere/ microtubule binding protein	3.29	9.78	↑: 4
<i>PHR1</i>	CA4857	<i>orf19.3829</i>	GPI-anchored pH responsive glycosyl transferase	3.74	1.54	
<i>NSR1</i>	CA3862	<i>orf19.6090</i>	nuclear localization sequence binding protein	3.29	1.52	
<u>Downregulation (41 genes)</u>						
Unknown function or not classified						
<i>IFU5</i>	CA2679	<i>orf19.2568</i>	unknown function (membrane protein)	0.46	0.06	
<i>IPF9398</i>	CA5393	<i>orf19.936</i>	unknown function	3.42	0.35	
<i>IPF6156</i>	CA1625	<i>orf19.1034</i>	unknown function	0.46	0.44	
<i>IPF6518</i>	CA2302	<i>orf19.1691</i>	unknown function	0.46	0.50	↓: 1, 2
<i>IPF8878</i>	CA3614	<i>orf19.31</i>	unknown function	0.46	0.50	
<i>IPF1382</i>	CA5097	<i>orf19.6444</i>	unknown function	0.46	0.51	
<i>IPF11480</i>	CA4755	<i>orf19.4824</i>	unknown function	0.46	0.51	
<i>IPF15822</i>	CA1869	<i>orf19.2457</i>	unknown function	0.46	0.51	
<i>IPF1820</i>	CA5254	<i>orf19.5008.1</i>	unknown function	0.46	0.51	
<i>IPF8024</i>	CA2118	<i>orf19.1334</i>	unknown function	0.46	0.53	
<i>IPF3790</i>	CA2883	<i>orf19.5852</i>	unknown function	0.46	0.53	
<i>IPF19377</i>	CA0036	<i>orf19.3336</i>	unknown function	0.46	0.54	
<i>IPF373</i>	CA5861	<i>orf19.7519</i>	unknown function	0.46	0.54	
<i>IPF3105</i>	CA4652	<i>orf19.4439</i>	unknown function	2.18	0.54	
<i>IPF9972.3eoc</i>	CA1511	<i>orf19.4522</i>	unknown function, 3-prime end	0.46	0.54	
<i>IPF9069</i>	CA3617	<i>orf19.199</i>	unknown function (membrane protein)	2.71	0.55	
<i>IPF2234</i>	CA4579	<i>orf19.6898</i>	unknown function	0.46	0.55	
<i>IPF10424</i>	CA5230	<i>orf19.5034</i>	unknown function	0.46	0.55	↓: 4
<i>IPF13972</i>	CA0513	<i>orf19.4955</i>	unknown function	0.46	0.58	
<i>IPF900.3f</i>	CA5332	<i>orf19.7206</i>	unknown function, 3-prime end	3.29	0.56	
<i>IPF20134</i>	CA3522	<i>orf19.994</i>	unknown function	0.46	0.56	↓: 4
<i>IPF8856.5f</i>	CA0595	<i>orf19.4901</i>	unknown function, 5-prime end	0.46	0.57	

<i>IPF7647</i>	<i>CA1866</i>	<i>orf19.860</i>	unknown function	0.46	0.57	
<i>IPF11995</i>	<i>CA0427</i>	<i>orf19.2761</i>	unknown function (membrane protein)	0.46	0.57	↓: 4
<i>IPF8856.5f</i>	<i>CA0595</i>	<i>orf19.4901</i>	unknown function, 5-prime end	0.46	0.57	
<i>IPF13839</i>	<i>CA0477</i>	<i>orf19.6017</i>	unknown function	0.46	0.58	
<i>IPF1306</i>	<i>CA5123</i>	<i>orf19.6405</i>	unknown function	0.46	0.58	
<i>IPF12900</i>	<i>CA3592</i>	<i>orf19.2246</i>	unknown function	0.46	0.59	
<i>IPF18234.3f</i>	<i>CA4254</i>	<i>orf19.542.2</i>	unknown function, 3-prime end	0.46	0.59	
<i>IPF5279</i>	<i>CA4370</i>	<i>orf19.5661</i>	unknown function	0.46	0.59	
<i>SKI3</i>	<i>CA4737</i>	<i>orf19.4848</i>	unknown function	0.46	0.59	
<i>IPF6235</i>	<i>CA2216</i>	<i>orf19.5372</i>	protein of pCal (Tca2) retrotransposon	0.46	0.61	↓: 1, 2, 6
<i>IPF10493</i>	<i>CA0831</i>	<i>orf19.247</i>	unknown function	0.46	0.62	↓: 2
<i>IPF4859</i>	<i>CA3700</i>	<i>orf19.6276</i>	unknown function	1.59	0.62	↓: 4
<i>IPF16024</i>	<i>CA0226</i>	<i>orf19.1297</i>	unknown function	0.46	0.62	
<i>IPF8953</i>	<i>CA2358</i>	<i>orf19.4895</i>	unknown function	1.59	0.62	
<i>IPF2125</i>	<i>CA4310</i>	<i>orf19.4116</i>	unknown function	0.46	0.63	
<i>IPF2106</i>	<i>CA4318</i>	<i>orf19.4104</i>	unknown function	0.46	0.63	↓: 4
<i>IPF7385</i>	<i>CA3748</i>	<i>orf19.3430</i>	unknown function	1.59	0.63	
<i>IPF19154</i>	<i>CA0172</i>	<i>orf19.1126</i>	unknown function	0.46	0.63	
<i>IPF15297</i>	<i>CA5078</i>	<i>orf19.3053</i>	unknown function	0.46	0.63	
<i>IPF4405</i>	<i>CA0905</i>	<i>orf19.1482</i>	unknown function	0.46	0.64	
<i>IPF14219.2</i>	<i>CA0564</i>	<i>orf19.2928</i>	unknown function	1.59	0.64	↓: 4
<i>IPF11093</i>	<i>CA5182</i>	<i>orf19.4621</i>	unknown function	2.18	0.64	
<i>IPF1437</i>	<i>CA4910</i>	<i>orf19.6048</i>	unknown function	1.59	0.65	
<i>IPF19568</i>	<i>CA4870</i>	<i>orf19.6556</i>	unknown function	1.59	0.65	↓: 1
<i>IPF20163</i>	<i>CA4135</i>	<i>orf19.4239</i>	unknown function	2.18	0.65	
<i>IPF7999</i>	<i>CA1940</i>	<i>orf19.4190</i>	unknown function	2.18	0.66	
<i>IPF3857</i>	<i>CA3608</i>	<i>orf19.25</i>	unknown function	2.71	0.66	↓: 4
<i>IPF2878</i>	<i>CA5735</i>	<i>orf19.7445</i>	unknown function	0.46	0.66	
<i>IPF4497</i>	<i>CA4740</i>	<i>orf19.4844</i>	unknown function	2.18	0.64	
<i>IPF8810</i>	<i>CA3312</i>	<i>orf19.2305</i>	unknown function	0.46	0.63	
<i>IPF630</i>	<i>CA6016</i>	<i>orf19.7618</i>	unknown function	1.59	0.62	
<i>IPF16024</i>	<i>CA0226</i>	<i>orf19.1297</i>	unknown function	0.46	0.62	
<i>IPF13621</i>	<i>CA3398</i>	<i>orf19.3973</i>	unknown function	0.46	0.63	↓: 4
Metabolism						
<i>STF2</i>	<i>CA2738</i>	<i>orf19.2107.1</i>	ATP synthase regulatory factor	0.46	0.29	↓: 2, 4, 6
<i>IFE2</i>	<i>CA2075</i>	<i>orf19.5288</i>	alcohol dehydrogenase	0.46	0.31	↓: 2, 4
<i>DAK2</i>	<i>CA0776</i>	<i>orf19.4777</i>	dihydroxyacetone kinase	0.46	0.34	↓: 6
<i>RHR2</i>	<i>CA5788</i>	<i>orf19.5437</i>	DL-glycerol phosphatase	0.46	0.37	↓: 2, 6
<i>GPD1</i>	<i>CA2263</i>	<i>orf19.1756</i>	glycerol-3-phosphate dehydrogenase	0.46	0.41	↓: 1, 6
<i>IPF4959</i>	<i>CA6057</i>	<i>orf19.7676</i>	D-xylulose reductase	0.46	0.42	↓: 2, 6
<i>PHO15</i>	<i>CA4657</i>	<i>orf19.4444</i>	phosphatase	0.46	0.42	↓: 5
<i>GPD2</i>	<i>CA0824</i>	<i>orf19.691</i>	glycerol 3-phosphate dehydrogenase	0.46	0.44	↓: 2, 6
<i>GSY1</i>	<i>CA5467</i>	<i>orf19.3278</i>	glycogen synthase	0.46	0.46	↓: 2
<i>PLB1</i>	<i>CA1975</i>	<i>orf19.689</i>	phospholipase B	0.46	0.46	↓: 1, 2, 6; ↑: 4
<i>IFP3</i>	<i>CA1840</i>	<i>orf19.4707</i>	secreted acid sphingomyelin phosphodiesterase	0.46	0.47	
<i>CAF16</i>	<i>CA3880</i>	<i>orf19.388</i>	ABC ATPase	0.46	0.53	↓: 2, 6
<i>IPF6439.3</i>	<i>CA2404</i>	<i>orf19.3545</i>	protein kinase in cytokinesis	0.46	0.53	
<i>COQ4</i>	<i>CA3118</i>	<i>orf19.3008</i>	ubiquinone biosynthesis	0.46	0.54	
<i>CDC21</i>	<i>CA2665</i>	<i>orf19.3549</i>	thymidylate synthase	0.46	0.54	

<i>IPF4905</i>	<i>CA0899</i>	<i>orf19.411</i>	GTPase regulator	0.46	0.54	
<i>PFK1</i>	<i>CA1834</i>	<i>orf19.3967</i>	6-phosphofructokinase, alpha subunit	0.46	0.55	↓: 2, 4, 6
<i>IPF4942</i>	<i>CA6052</i>	<i>orf19.7668</i>	similar to <i>Saccharomyces cerevisiae</i> Mal32p alpha-glucosidase	0.46	0.56	↓: 4
<i>ADH5</i>	<i>CA2391</i>	<i>orf19.2608</i>	alcohol dehydrogenase	0.46	0.57	↓: 2
<i>PDC11</i>	<i>CA2474</i>	<i>orf19.2877</i>	pyruvate decarboxylase	0.46	0.57	↓: 6
<i>ERG1</i>	<i>CA1353</i>	<i>orf19.406</i>	squalene epoxidase	0.46	0.57	↓: 2
<i>TRP3</i>	<i>CA5004</i>	<i>orf19.5243</i>	anthranilate synthase	0.46	0.58	
<i>RIB3.5f</i>	<i>CA1111</i>	<i>orf19.5228</i>	3,4-dihydroxy-2-butanone 4-phosphate synthase, 5-prime end	0.46	0.58	
<i>IPF8321</i>	<i>CA2938</i>	<i>orf19.3325</i>	similar to <i>Saccharomyces cerevisiae</i> Glg2p self-glucosylating initiator of glycogen synthesis	0.46	0.59	
<i>TPS3</i>	<i>CA5505</i>	<i>orf19.5348</i>	alpha,alpha-trehalose-phosphate synthase, regulatory subunit	0.46	0.60	↓: 2, 6
<i>IPF1097</i>	<i>CA5766</i>	<i>orf19.5408</i>	serine/threonine protein kinase	0.46	0.60	↓: 2
<i>CNA1</i>	<i>CA4137</i>	<i>orf19.4235</i>	cyclic nucleotide phosphodiesterase	1.59	0.61	
<i>MET7</i>	<i>CA2911</i>	<i>orf19.4516</i>	tetrahydrofolylpolyglutamate synthase	0.46	0.62	
<i>SDH41</i>	<i>CA2423</i>	<i>orf19.4468</i>	succinate dehydrogenase membrane anchor subunit for Sdh2p	0.46	0.62	
<i>SUR2</i>	<i>CA2225</i>	<i>orf19.5818</i>	sphinganine C4-hydroxylase	0.46	0.62	↓: 6
<i>LYS12</i>	<i>CA1737</i>	<i>orf19.2525</i>	homo-isocitrate dehydrogenase	0.46	0.62	
<i>AMYG1</i>	<i>CA0855</i>	<i>orf19.4899</i>	glucoamylase	1.59	0.63	
<i>IDII</i>	<i>CA4116</i>	<i>orf19.2775</i>	isopentenyl diphosphate isomerase	1.59	0.63	
<i>PDX3</i>	<i>CA4261</i>	<i>orf19.550</i>	pyridoxamine-phosphate oxidase	0.46	0.64	
<i>FBA1</i>	<i>CA5180</i>	<i>orf19.4618</i>	fructose-bisphosphate aldolase	1.59	0.64	↓: 2, 6
<i>GLK1</i>	<i>CA0263</i>	<i>orf19.13</i>	aldohexose specific glucokinase	0.46	0.64	↓: 2, 6
<i>GPM2</i>	<i>CA2855</i>	<i>orf19.1067</i>	phosphoglycerate mutase	0.46	0.65	
<i>HEM14</i>	<i>CA1951</i>	<i>orf19.4747</i>	mitochondrial protoporphyrinogen oxidase	0.46	0.65	

Protein fate

<i>ESA1</i>	<i>CA5772</i>	<i>orf19.5416</i>	histone acetyltransferase	0.46	0.54	
<i>MAK3</i>	<i>CA5179</i>	<i>orf19.4617</i>	N-acetyltransferase	0.46	0.54	
<i>IPF7862</i>	<i>CA4548</i>	<i>orf19.1450</i>	ubiquitin conjugating factor	0.46	0.56	
<i>IPF4500</i>	<i>CA4738</i>	<i>orf19.4846</i>	GTP-binding protein	0.46	0.57	
<i>SEC2</i>	<i>CA3598</i>	<i>orf19.4928</i>	GDP/GTP exchange factor	0.46	0.64	
<i>IPF13316</i>	<i>CA1880</i>	<i>orf19.2269</i>	phosphoserine phosphatase	0.46	0.65	

Cellular defense and stress

<i>HSP12</i>	<i>CA0627</i>	<i>orf19.3160</i>	heat shock protein	0.46	0.44	↓: 1, 6
<i>OSM1</i>	<i>CA4570</i>	<i>orf19.6882</i>	similar to <i>Saccharomyces cerevisiae</i> Osm1p osmotic growth protein	0.46	0.46	↓: 2, 4, 6
<i>SSA1</i>	<i>CA2857</i>	<i>orf19.1065</i>	heat shock protein of Hsp70 family	0.46	0.49	
<i>IPF4065</i>	<i>CA0386</i>	<i>orf19.1862</i>	stress-related protein	0.46	0.53	↓: 2
<i>CHK1</i>	<i>CA4676</i>	<i>orf19.896</i>	histidine kinase	0.46	0.55	
<i>OGG1</i>	<i>CA5318</i>	<i>orf19.7190</i>	8-oxoguanine DNA glycosylase	2.96	0.56	
<i>SNZ1</i>	<i>CA4184</i>	<i>orf19.2947</i>	stationary phase protein	0.46	0.58	↑: 4, 6
<i>CRD1</i>	<i>CA2832</i>	<i>orf19.4784</i>	Cu-transporting P1-type ATPase	0.46	0.60	
<i>PXA2</i>	<i>CA4993</i>	<i>orf19.5255</i>	ABC transporter, peroxisomal	0.46	0.61	
<i>DAP1</i>	<i>CA4516</i>	<i>orf19.489</i>	stress response protein	0.46	0.63	

Transcription

<i>HSH49</i>	CA3579	<i>orf19.2261</i>	spliceosome-associated protein	0.46	0.36	
<i>SWI1</i>	CA4366	<i>orf19.5657</i>	transcription regulation	0.46	0.42	
<i>POP7</i>	CA3718	<i>orf19.4168</i>	nuclear RNase P subunit	0.46	0.43	
<i>IRO1</i>	CA2802	<i>orf19.1715</i>	transcription factor in iron transport	0.46	0.46	↓: 1
<i>ZCF21</i>	CA3716	<i>orf19.4166</i>	transcription factor (zinc finger)	0.46	0.58	
<i>TEA1</i>	CA5031	<i>orf19.6985</i>	transcription factor (zinc finger)	0.46	0.59	
<i>GTS1</i>	CA5132	<i>orf19.6393</i>	transcription factor	0.46	0.61	
<i>CRZ2</i>	CA0424	<i>orf19.2356</i>	transcription factor (zinc finger)	0.46	0.62	
<i>IPF8044</i>	CA4556	<i>orf19.6866</i>	similar to <i>Saccharomyces cerevisiae</i> Snp1p U1 small nuclear ribonucleoprotein	1.59	0.63	
<i>IPF1598</i>	CA5424	<i>orf19.976</i>	transcription factor (zinc finger)	2.71	0.65	
Biosynthesis of cellular components						
<i>MSM1</i>	CA1093	<i>orf19.3950</i>	mitochondrial methionyl-tRNA synthetase	1.59	0.12	
<i>KAR3.3</i>	CA4321	<i>orf19.4100</i>	kinesin-related protein, 3-prime end	0.46	0.56	
<i>APL6</i>	CA2826	<i>orf19.1323</i>	AP-3 complex subunit, beta3-adaptin	0.46	0.56	
<i>ARP6</i>	CA0593	<i>orf19.4904</i>	actin-related protein	0.46	0.57	
<i>BMH2</i>	CA5050	<i>orf19.3014</i>	similar to <i>Saccharomyces cerevisiae</i> Bmh2p suppressor of clathrin deficiency	0.46	0.58	
<i>SAC6.5f</i>	CA0408	<i>orf19.5544</i>	actin filament bundling protein, fimbrin, 5-prime end	0.46	0.60	
<i>SCW11.3eoc</i>	CA1053	<i>orf19.3893</i>	glucanase gene family member, 3-prime end	1.59	0.63	
<i>DNM1</i>	CA5033	<i>orf19.6987</i>	dynamamin-related protein	0.46	0.64	
<i>UTR2</i>	CA0605	<i>orf19.1671</i>	beta-glucanase	2.71	0.66	
<i>CSL4</i>	CA0142	<i>orf19.1026</i>	involved in kinetochore-related function	2.18	0.66	
Interaction with environment						
<i>ALS4.3f</i>	CA1528	<i>orf19.4556</i>	agglutinin-like protein, 3-prime end	0.46	0.39	↓: 2, 6
<i>FGR14</i>	CA0930	<i>orf19.559</i>	filamentous growth	0.46	0.43	
<i>ALS12.3f</i>	CA0413	<i>orf19.2122</i>	agglutinin-like protein, 3-prime end	0.46	0.40	↓: 2
<i>SMK1</i>	CA5334	<i>orf19.7208</i>	MAP kinase	0.46	0.54	↓: 4
<i>MTLA1</i>	CA0760	<i>orf19.3201</i>	repression of switching and mating	0.46	0.57	
<i>SYG1</i>	CA1957	<i>orf19.768</i>	similar to <i>Saccharomyces cerevisiae</i> Syg1p plasma membrane protein	0.46	0.65	
<i>PGA50</i>	CA1777	<i>orf19.1824</i>	GPI-anchor protein	2.18	0.66	
Transport						
<i>VPS27</i>	CA1585	<i>orf19.6031</i>	vacuolar protein sorting	0.46	0.54	↓: 1
<i>SFT1</i>	CA5433	<i>orf19.3234.1</i>	SNARE-like protein	0.46	0.58	↓: 4
<i>SNC2</i>	CA5256	<i>orf19.5006.1</i>	v-SNARE	0.46	0.64	↓: 2, 6
<i>RAV2</i>	CA1653	<i>orf19.5561</i>	acidification of the vacuole	0.46	0.64	
<i>IPF4632</i>	CA3859	<i>orf19.6094</i>	similar to <i>Saccharomyces cerevisiae</i> Vps53p subunit of VP52-54 complex, required for protein sorting at the yeast late Golgi	2.18	0.65	

Supplemental Table 1E

Transcript levels of genes in the *pmt6* mutant CAP2-239 relative to wild-type strain CAF2-1. The minimal FDR value calculated by the SAM program was 5.4 %. Only genes regulated at least by a factor 1.5 are shown. Functional assignments are according to <http://mips.gsf.de/CYGD/db/index.html> and <http://www.candidagenome.org/>.

gene on array	synonym	orf19 number	proposed function	q-value	fold regulation	gene regulated in other mutants (<i>pmt</i> number)
Upregulation (5 genes)						
Metabolism						
<i>HIS7</i>	CA2447	<i>orf19.5505</i>	histidine biosynthesis	0.92	1.69	
<i>IPF7602</i>	CA1761	<i>orf19.5193</i>	oxidoreductase	2.69	1.49	
<i>PYC2.3f</i>	CA1464	<i>orf19.789</i>	pyruvate carboxylase 2, 3 prime end	5.55	1.47	↑: 2
<i>URA2</i>	CA1315	<i>orf19.2360</i>	pyrimidine biosynthesis	5.55	1.46	
Cellular defense						
<i>SNZ1</i>	CA4184	<i>orf19.2947</i>	stationary phase protein	5.55	1.80	↑: 4; ↓: 5
Downregulation (46 genes)						
Metabolism						
<i>RHR2</i>	CA5788	<i>orf19.5437</i>	DL-glycerol phosphatase	0.92	0.44	↓: 2, 5
<i>TPS3</i>	CA5505	<i>orf19.5348</i>	alpha,alpha-trehalose-phosphate synthase, regulatory subunit	0.92	0.44	↓: 2, 5
<i>PFK1</i>	CA1834	<i>orf19.3967</i>	6-phosphofructokinase, alpha subunit	0.92	0.45	↓: 2, 4, 5
<i>IPF4959</i>	CA6057	<i>orf19.7676</i>	D-xylulose reductase	0.92	0.46	↓: 2, 5
<i>TPH1</i>	CA5950	<i>orf19.6745</i>	triose phosphate isomerase	0.92	0.46	
<i>GPM1</i>	CA4671	<i>orf19.903</i>	phosphoglycerate mutase	0.92	0.46	
<i>PFK2</i>	CA3112	<i>orf19.6540</i>	6-phosphofructokinase, beta subunit	0.92	0.47	↓: 2, 4
<i>PGK1</i>	CA1691	<i>orf19.3651</i>	phosphoglycerate kinase	0.92	0.47	
<i>FBA1</i>	CA5180	<i>orf19.4618</i>	fructose-bisphosphate aldolase	0.92	0.49	↓: 2, 5
<i>ERG11</i>	CA1387	<i>orf19.922</i>	cytochrome P450 lanosterol 14a-demethylase	0.92	0.49	↓: 1
<i>COX8</i>	CA2134	<i>orf19.5213</i>	cytochrome c oxidase	0.92	0.49	
<i>RNR22</i>	CA4492	<i>orf19.1868</i>	ribonucleoside-diphosphate reductase	3.50	0.49	↓: 2
<i>PDC11</i>	CA2474	<i>orf19.2877</i>	pyruvate decarboxylase	0.92	0.50	↓: 5
<i>ADH1</i>	CA4765	<i>orf19.3997</i>	alcohol dehydrogenase	0.92	0.53	
<i>URA1</i>	CA4745	<i>orf19.4836</i>	dihydroorotate dehydrogenase	0.92	0.55	
<i>GPD2</i>	CA0824	<i>orf19.691</i>	glycerol 3-phosphate dehydrogenase	0.92	0.55	↓: 2, 5
<i>PLB1</i>	CA1975	<i>orf19.689</i>	phospholipase B	0.92	0.56	↓: 1, 2, 5; ↑: 4
<i>GLK1</i>	CA0263	<i>orf19.13</i>	aldohexose specific glucokinase	0.92	0.57	↓: 2, 5
<i>HXK2</i>	CA0127	<i>orf19.542</i>	hexokinase II	0.92	0.58	↓: 2
<i>PGH1</i>	CA3559	<i>orf19.3888</i>	glucose-6-phosphate isomerase	0.92	0.59	
<i>GAP1</i>	CA5892	<i>orf19.6814</i>	glyceraldehyde-3-phosphate dehydrogenase	0.92	0.61	
<i>GPD1</i>	CA2263	<i>orf19.1756</i>	glycerol-3-phosphate dehydrogenase	0.92	0.62	↓: 1, 5
<i>DAK2</i>	CA0776	<i>orf19.4777</i>	dihydroxyacetone kinase	0.92	0.62	↓: 5
<i>ADH2</i>	CA3923	<i>orf19.5113</i>	alcohol dehydrogenase I	0.92	0.63	
<i>CAR2</i>	CA2561	<i>orf19.5641</i>	ornithine aminotransferase	0.92	0.65	

<i>CAF16</i>	CA3880	<i>orf19.388</i>	ABC ATPase	0.92	0.66	↓: 2, 5
<i>SUR2</i>	CA2225	<i>orf19.5818</i>	sphinganine C4-hydroxylase	0.92	0.67	↓: 5
Cellular defense and stress						
<i>OSM1</i>	CA4570	<i>orf19.6882</i>	similar to <i>Saccharomyces cerevisiae</i> Osm1p osmotic growth protein	0.92	0.43	↓: 2, 4, 5
<i>HSP12</i>	CA0627	<i>orf19.3160</i>	heat shock protein	0.92	0.45	↓: 1, 5
<i>SSA4</i>	CA1230	<i>orf19.4980</i>	Hsp70 heat shock protein	0.92	0.59	
<i>IPF284</i>	CA5463	<i>orf19.3272</i>	heat shock protein	0.92	0.60	
<i>IPF6629</i>	CA4127	<i>orf19.2762</i>	alkyl hydroperoxide reductase	0.92	0.65	
Unknown and not classified						
<i>IPF6235</i>	CA2216	<i>orf19.5372</i>	Protein of pCal (Tca2) retrotransposon	0.92	0.48	↓: 1, 2, 5
<i>IPF1980</i>	CA5564	<i>orf19.7328</i>	unknown function	0.92	0.64	↑: 4
<i>IPF15540</i>	CA0486	<i>orf19.258</i>	unknown function	5.55	0.65	
<i>IPF6238</i>	CA2752	<i>orf19.2374</i>	GAG protein of retrotransposon pCal (Tca2)	1.90	0.66	↓: 1
<i>IPF1217</i>	CA4834	<i>orf19.2063</i>	unknown function	1.90	0.56	
<i>IPF7033</i>	CA1212	<i>orf19.131</i>	unknown function	3.50	0.67	
Protein fate and transport						
<i>STF2</i>	CA2738	<i>orf19.2107.</i>	ATP synthase regulatory factor	0.92	0.58	↓: 2, 4, 5
<i>CDC48</i>	CA3333	<i>orf19.2340</i>	microsomal ATPase	0.92	0.65	
<i>SNC2</i>	CA5256	<i>orf19.5006.</i>	v-SNARE	3.50	0.66	↓: 2, 5
<i>PRD1</i>	CA4059	<i>orf19.434</i>	proteinase	0.92	0.66	
Transcription, protein biosynthesis						
<i>MRPS5.5f</i>	CA3526	<i>orf19.989</i>	Probable ribosomal protein S5, mitochondrial	5.55	0.03	
<i>IPF7289</i>	CA3878	<i>orf19.391</i>	similar to <i>Saccharomyces cerevisiae</i> Upc2p RNA polymerase II transcription factor	0.92	0.63	
<i>IPF4276</i>	CA4260	<i>orf19.549</i>	similar to <i>Saccharomyces cerevisiae</i> Mrp132p putative mitochondrial ribosomal protein	5.55	0.66	
Interaction with environment						
<i>ALS4.3f</i>	CA1528	<i>orf19.4556</i>	agglutinin-like protein, 3-prime end	0.92	0.32	↓: 2, 5

Table S2. Genes regulated by *O*-glycosylation inhibitor

Transcript levels of genes in the wild-type strain CAF2-1 treated with inhibitor OGT2599 (5 μ M) relative to untreated wild-type strain CAF2-1 during growth of a culture at 30 °C from OD₆₀₀= 0.1 to OD₆₀₀= 0.5. The minimal FDR value calculated by the SAM program was 5.1 %. Only genes regulated at least by a factor 1.5 are shown.

gene on array	synonym	orf19 number	proposed function	q-value	fold regulation	gene regulated in <i>pmt</i> mutants (<i>pmt</i> number)
Upregulation (27 genes)						
<i>IPF7109</i>	<i>CA5650</i>	<i>orf19.7350</i>	unknown function	0.00	2.67	↑: 1
<i>KAR2</i>	<i>CA0915</i>	<i>orf19.2013</i>	DnaK-type molecular chaperone	0.00	2.02	↑: 1, 5
<i>SCJ1</i>	<i>CA4025</i>	<i>orf19.3438</i>	mitochondrial and ER import protein	0.00	1.88	
<i>GFA1</i>	<i>CA4016</i>	<i>orf19.1618</i>	glutamine:fructose-6-phosphateamidotransferase	0.00	1.82	
<i>IPF12676</i>	<i>CA1681</i>	<i>orf19.4914</i>	unknown function	0.00	1.80	
<i>TPM2</i>	<i>CA5116</i>	<i>orf19.6414.3</i>	tropomyosin	0.00	1.79	
<i>SPC3</i>	<i>CA3600</i>	<i>orf19.4930</i>	signal peptidase subunit	1.20	1.78	
<i>RNR22</i>	<i>CA4492</i>	<i>orf19.1868</i>	ribonucleoside-diphosphate reductase	0.00	1.77	↓: 2, 6
<i>CEK1</i>	<i>CA0722</i>	<i>orf19.2886</i>	ERK-family protein kinase	0.00	1.75	
<i>DPM1</i>	<i>CA3899</i>	<i>orf19.5073</i>	dolichol-phosphate (beta-D) mannosyltransferase 1	0.00	1.72	
<i>YSY6</i>	<i>CA1267</i>	<i>orf19.242.2</i>	protein involved in the secretory pathway	0.00	1.72	
<i>SEC23</i>	<i>CA3453</i>	<i>orf19.1254</i>	component of COPII coat	0.00	1.69	
<i>HOS3</i>	<i>CA4118</i>	<i>orf19.2772</i>	histone deacetylase	5.10	1.69	
<i>HAC1</i>	<i>CA0457</i>	<i>orf19.2432</i>	transcription factor	0.00	1.68	↑: 1
<i>IPF2532</i>	<i>CA0356</i>	<i>orf19.6630</i>	unknown function	0.00	1.67	
<i>IPF11101</i>	<i>CA5177</i>	<i>orf19.4615</i>	unknown function	2.08	1.66	
<i>PDII</i>	<i>CA1755</i>	<i>orf19.5130</i>	protein disulfide-isomerase	0.00	1.62	
<i>PMM1</i>	<i>CA2198</i>	<i>orf19.2937</i>	phosphomannomutase	4.22	1.57	
<i>ASG1</i>	<i>CA0465</i>	<i>orf19.166</i>	transcription factor	4.22	1.56	
<i>CLC1</i>	<i>CA5156</i>	<i>orf19.4594</i>	clathrin light chain	0.00	1.54	
<i>SOD5</i>	<i>CA4836</i>	<i>orf19.2060</i>	superoxide dismutase	0.00	1.53	
<i>PHO100</i>	<i>CA1363</i>	<i>orf19.4424</i>	acid phosphatase	5.10	1.53	
<i>ALS10</i>	<i>CA0448</i>	<i>orf19.2355</i>	agglutinin like protein	4.22	1.53	
<i>IPF1461</i>	<i>CA4898</i>	<i>orf19.6035</i>	NADH dehydrogenase	5.10	1.52	
<i>IFD4</i>	<i>CA2416</i>	<i>orf19.4477</i>	aryl-alcohol dehydrogenase	4.22	1.51	
<i>IPF10901</i>	<i>CA0538</i>	<i>orf19.2819</i>	unknown function	1.20	1.50	
<i>RTA2</i>	<i>CA3607</i>	<i>orf19.24</i>	stress-associated protein	0.00	1.50	↑: 1
Downregulation (13 genes)						
<i>FTR2</i>	<i>CA5354</i>	<i>orf19.7231</i>	high affinity iron permease	0.00	0.52	
<i>YWP1</i>	<i>CA1678</i>	<i>orf19.3618</i>	cell wall protein	0.00	0.54	
<i>CHT2</i>	<i>CA1051</i>	<i>orf19.3895</i>	chitinase 2 precursor	0.00	0.59	
<i>FRP1</i>	<i>CA3813</i>	<i>orf19.2496</i>	unknown function	2.08	0.61	
<i>IPF17283</i>	<i>CA2021</i>	<i>orf19.4907</i>	unknown function	4.22	0.61	
<i>FTR1</i>	<i>CA5345</i>	<i>orf19.7219</i>	high affinity iron permease	1.33	0.63	↑: 5
<i>CHT3</i>	<i>CA5987</i>	<i>orf19.7586</i>	chitinase 3 precursor	0.00	0.63	
<i>ERG5</i>	<i>CA4418</i>	<i>orf19.5178</i>	C-22 sterol desaturase	0.00	0.64	
<i>PGA59</i>	<i>CA4124</i>	<i>orf19.2767</i>	GPI anchored protein	0.00	0.65	
<i>PHO84</i>	<i>CA0083</i>	<i>orf19.655</i>	high-affinity inorganic phosphate/H ⁺ symporter	0.00	0.65	
<i>IPF13782</i>	<i>CA3301</i>	<i>orf19.2314</i>	unknown function	0.00	0.66	
<i>UBR12</i>	<i>CA3263</i>	<i>orf19.2697</i>	ubiquitin-protein ligase by homology	2.79	0.66	
<i>IMH3</i>	<i>CA1246</i>	<i>orf19.19</i>	IMP dehydrogenase	0.00	0.66	↑: 4