

Table S1. *S. cerevisiae* Strains Tested as Part of This Work, Related to Figure 2

This table describes the single-deletion yeast strains tested as part of this work. The first 56 strains were tested in a high-throughput 96-well format (Supplemental Experimental Procedures). The three right-most columns refer to results from the colony forming assays conducted in 24-well plates and described in the main text. "Resistant" or "Sensitive" indicate at least a 5-fold CFU difference from wildtype at the final time point.

Strain Name	Gene	96 Well Screen AMB	96 Well Screen MCZ	CFU AMB	CFU CIC	CFU MCZ
PAB101	WT	Normal	Normal	Normal	Not Tested	Not Tested
PAB102	HSP104	Resistant	Normal	Normal	Not Tested	Not Tested
PAB103	SDH2	Resistant	Resistant	Resistant	Resistant	Resistant
PAB104	FRE8	Resistant	Normal	Resistant	Not Tested	Not Tested
PAB105	CHA4	Resistant	Normal	Resistant	Not Tested	Not Tested
PAB106	FMS1	Resistant	Normal	Resistant	Normal	Not Tested
PAB107	NDE1	Resistant	Resistant	Resistant	Resistant	Resistant
PAB108	ALD3	Resistant	Normal	Normal	Not Tested	Not Tested
PAB109	GAD1	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB110	PGM3	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB111	PYK2	Resistant	Resistant	Not Tested	Not Tested	Not Tested
PAB112	MNE1	Normal	Normal	Resistant	Resistant	Resistant
PAB113	FUM1	Normal	Resistant	Resistant	Resistant	Resistant
PAB114	TPK2	Normal	Normal	Resistant	Normal	Resistant
PAB115	ATG29	Resistant	Normal	Not Tested	Not Tested	Not Tested
PAB116	ISU1	Resistant	Normal	Normal	Not Tested	Not Tested
PAB117	CYC7	Normal	Normal	Normal	Not Tested	Not Tested
PAB118	ARN1	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB119	CIT2	Resistant	Resistant	Resistant	Resistant	Resistant
PAB120	HSP30	Normal	Resistant	Normal	Not Tested	Not Tested
PAB121	SDH1	Normal	Resistant	Resistant	Resistant	Resistant
PAB122	TPK3	Resistant	Resistant	Resistant	Resistant	Resistant
PAB123	ISU2	Normal	Normal	Normal	Not Tested	Not Tested
PAB124	TPK1	Normal	Normal	Resistant	Resistant	Resistant
PAB125	MID2	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB126	SSK1	Sensitive	Normal	Not Tested	Not Tested	Not Tested
PAB127	HSP42	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB128	PIG1	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB129	ACO1	Poor Growth	Poor Growth	Not Tested	Not Tested	Not Tested

Strain Name	Gene	96 Well Screen AMB	96 Well Screen MCZ	CFU AMB	CFU CIC	CFU MCZ
PAB130	UGA1	Resistant	Normal	Not Tested	Not Tested	Not Tested
PAB131	MTL1	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB132	CIT3	Resistant	Resistant	Resistant	Resistant	Resistant
PAB133	ZWF1	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB134	SUM1	sensitive	Normal	Not Tested	Not Tested	Not Tested
PAB135	NDI1	Resistant	Normal	Resistant	Resistant	Resistant
PAB136	PGM2	Normal	Resistant	Not Tested	Not Tested	Not Tested
PAB137	HFD1	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB138	PUF2	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB139	TDH1	Sensitive	Normal	Not Tested	Not Tested	Not Tested
PAB140	GUD1	Sensitive	Sensitive	Not Tested	Not Tested	Not Tested
PAB141	ATG15	Sensitive	Normal	Not Tested	Not Tested	Not Tested
PAB142	TDH2	Sensitive	Normal	Not Tested	Not Tested	Not Tested
PAB143	ATP1	Sensitive	Normal	Not Tested	Not Tested	Not Tested
PAB144	UGA2	Sensitive	Normal	Not Tested	Not Tested	Not Tested
PAB145	CIT1	Resistant	Resistant	Resistant	Resistant	Resistant
PAB146	SOL1	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB147	PAN6	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB148	SOL4	Normal	Normal	Not Tested	Not Tested	Not Tested
PAB149	YAK1	Sensitive	Sensitive	Sensitive	Not Tested	Not Tested
PAB150	PBS2	Sensitive	Sensitive	Not Tested	Not Tested	Not Tested
PAB152	GPD1	Sensitive	Sensitive	Not Tested	Not Tested	Not Tested
PAB153	SHO1	Sensitive	Sensitive	Sensitive	Not Tested	Not Tested
PAB154	FET3	Sensitive	Sensitive	Not Tested	Not Tested	Not Tested
PAB155	FBP1	Sensitive	Sensitive	Sensitive	Not Tested	Not Tested
PAB156	COX6	Sensitive	Sensitive	Not Tested	Not Tested	Not Tested
PAB157	SKN7	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
PAB158	MSN4	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB159	SSK1	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
PAB161	MSN2	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB162	YAP1	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB163	CIN5	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB164	Pde2	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB165	USV1	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB166	CAD1	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB167	RIM101	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB168	RAS1	Not Tested	Not Tested	Resistant	Resistant	Resistant
PAB169	HYR1	Not Tested	Not Tested	Resistant	Not Tested	Not Tested
PAB170	CRZ1	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB171	RAS2	Not Tested	Not Tested	Resistant	Resistant	Resistant
PAB172	XBP1	Not Tested	Not Tested	Normal	Not Tested	Not Tested

Strain Name	Gene	96 Well Screen AMB	96 Well Screen MCZ	CFU AMB	CFU CIC	CFU MCZ
PAB173	SRV2	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB174	TPS3	Not Tested	Not Tested	Resistant	Not Tested	Not Tested
PAB175	TPS2	Poor Growth	Poor Growth	Sensitive	Not Tested	Not Tested
PAB176	SOD1	Poor Growth	Poor Growth	Not Tested	Not Tested	Not Tested
PAB177	SOD2	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB178	CTA1	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB179	CTT1	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB180	MET1	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB181	TVP18	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB182	PML39	Not Tested	Not Tested	Normal	Not Tested	Not Tested
PAB183	VPS9	Not Tested	Not Tested	Normal	Not Tested	Not Tested

Table S2. Changes in Expression of Select Genes, Related to Figure 1

KEY			
	$Z > 4$		$-2 < Z \leq -1$
	$3 < Z \leq 4$		$-3 < Z \leq -2$
	$2 < Z \leq 3$		$-4 < Z \leq -3$
	$1 < Z \leq 2$		$Z \leq -4$
	$-1 < Z \leq 1$		

Gene name	AMB	MCZ	CIC
<i>ALD3</i>	2.63	4.48	2.26
<i>TPS2</i>	2.55	2.94	2.57
<i>TSL1</i>	2.48	3.05	2.74
<i>ALD3</i>	2.42	2.63	2.26
<i>RTC3</i>	2.29	2.56	2.14
<i>PGM3</i>	2.19	2.5	2
<i>TDH1</i>	2.15	2.38	2.15
<i>TPS1</i>	2.13	2.38	2.44
<i>DOA4</i>	2.12	2.35	1.77
YGR127W	2.1	2.64	2.22
<i>PYK2</i>	2.1	2.01	2
<i>HSP104</i>	2.02	2.62	2.63
<i>SDS24</i>	1.94	2.14	2.07
<i>HSP82</i>	1.89	2.28	2.26
<i>GUD1</i>	1.89	2.69	2.17
<i>PMC1</i>	1.87	3.22	3.04
<i>ZRG8</i>	1.84	2.81	2.11
<i>YAK1</i>	1.81	2.51	2.37
<i>CDC13</i>	1.8	2.51	2.34
<i>SOL4</i>	1.8	2.33	2.37
<i>HSP78</i>	1.8	1.9	2.12
<i>GSY2</i>	1.8	2.02	2.09
YOL166W-A	1.79	2.1	2.03
<i>SSE2</i>	1.78	1.91	1.85
<i>SIP5</i>	1.78	1.99	1.73
<i>TPK2</i>	1.78	1.7	1.79
<i>ATG29</i>	1.76	2.41	2.11

Gene name	AMB	MCZ	CIC
<i>GAD1</i>	1.74	2.28	2.47
<i>SDP1</i>	1.74	2.06	2.08
<i>HFD1</i>	1.72	2.16	1.99
<i>YGR066C</i>	1.72	2.07	2.39
<i>YOR352W</i>	1.7	2.35	2.56
<i>BUD5</i>	1.69	2.54	1.75
<i>PGM2</i>	1.68	2.16	2.38
<i>PTK2</i>	1.68	2.4	2.41
<i>TPK1</i>	1.67	2.07	2.24
<i>UGA1</i>	1.66	2.01	1.9
<i>VPS8</i>	1.66	2.34	2.48
<i>YKL091C</i>	1.66	2.2	2.06
<i>LPE10</i>	1.65	1.99	2.13
<i>PDE1</i>	1.6	3.33	1.82
<i>CIT1</i>	1.59	1.79	1.06
<i>KGD1</i>	1.54	2.22	0.55
<i>UGP1</i>	1.52	1.91	0.82
<i>CYR1</i>	1.51	1.93	1.52
<i>SDH1</i>	1.42	1.69	-0.07
<i>GPH1</i>	1.4	2.11	1.71
<i>SDH2</i>	1.29	1.5	-0.07
<i>ALD2</i>	1.1	2.8	1.71
<i>MDH1</i>	1.09	1.53	1.85
<i>BCY1</i>	1.07	2.6	1.26
<i>BMH2</i>	1.07	2.33	1.01
<i>SRV2</i>	0.91	2.62	1.18
<i>RAS2</i>	0.82	0.49	0.58
<i>PDE2</i>	-1.6	-2.53	-0.93
<i>YIL096C</i>	-1.65	-2.12	-1.82
<i>YGR272C</i>	-1.65	-2.52	-2.14
<i>ENP2</i>	-1.66	-2.02	-1.8
<i>YDR161W</i>	-1.68	-1.92	-1.67
<i>NOP8</i>	-1.69	-2.17	-1.78
<i>UTP6</i>	-1.69	-2.35	-2.04
<i>UTP7</i>	-1.7	-2.21	-1.89
<i>SOF1</i>	-1.71	-2.05	-1.67
<i>KRI1</i>	-1.72	-2.56	-1.71

Gene name	AMB	MCZ	CIC
<i>SSF1</i>	-1.73	-2.23	-2.24
<i>RPC31</i>	-1.73	-3.18	-2.6
<i>LTV1</i>	-1.75	-2.55	-1.95
<i>UTP30</i>	-1.76	-2.49	-2.33
<i>UTP11</i>	-1.77	-2.99	-2.32
<i>UTP5</i>	-1.78	-2.32	-1.65
<i>REX4</i>	-1.78	-2.26	-2.32
<i>ECM1</i>	-1.78	-2.46	-2.05
<i>RRP36</i>	-1.8	-2.82	-2.23
<i>MAK3</i>	-1.8	-2.26	-2.37
<i>CNS1</i>	-1.8	-2.5	-2.15
<i>RRT14</i>	-1.8	-3.04	-2.26
<i>RNT1</i>	-1.81	-2.73	-2.53
<i>UTP23</i>	-1.82	-2.4	-2.11
<i>EFG1</i>	-1.82	-2.54	-2.22
<i>RIM2</i>	-1.83	-2.07	-1.76
<i>SEN15</i>	-1.83	-2.93	-2.5
<i>DUS1</i>	-1.85	-2.14	-2.23
<i>MPP6</i>	-1.85	-2.77	-2.25
<i>RPC53</i>	-1.85	-2.43	-2.15
<i>NCS2</i>	-1.85	-3.52	-3.1
YNL050C	-1.86	-2.94	-1.71
<i>TMA23</i>	-1.86	-2.06	-1.69
<i>GCD14</i>	-1.87	-2.16	-1.76
<i>CGR1</i>	-1.87	-2.77	-1.86
<i>NOP16</i>	-1.88	-2.67	-2.43
<i>MPP10</i>	-1.88	-2.73	-2.29
<i>ALB1</i>	-1.88	-2.1	-1.84
<i>NOP15</i>	-1.9	-3.21	-2.86
<i>UTP9</i>	-1.9	-2.65	-2.22
<i>IMP3</i>	-1.9	-2.85	-2.03
<i>ESF2</i>	-1.93	-2.62	-2.37
YNL022C	-1.96	-3.06	-2.66
<i>SSF2</i>	-1.97	-2.09	-1.9
<i>MTC6</i>	-1.98	-2.57	-2.39
<i>DJP1</i>	-1.99	-2.09	-1.84
<i>FAL1</i>	-1.99	-2.44	-2.02

Gene name	AMB	MCZ	CIC
<i>NOP53</i>	-1.99	-3.16	-2.35
<i>SAP185</i>	-2.01	-2.22	-1.77
<i>YBR141C</i>	-2.02	-2.39	-2.06
<i>RRP14</i>	-2.02	-2.65	-2.31
<i>HCA4</i>	-2.04	-2.44	-2.36
<i>NOB1</i>	-2.06	-3.07	-2.21
<i>KTII2</i>	-2.08	-2.7	-2.09
<i>TMA16</i>	-2.08	-2.56	-2.2
<i>YNL097C-A</i>	-2.09	-1.96	-1.91
<i>DBP7</i>	-2.1	-2.19	-1.95
<i>NA</i>	-2.19	-2.33	-2.31
<i>RAS1</i>	-2.19	-3.62	-1.47
<i>RRP4</i>	-2.2	-3.65	-2.15
<i>NA</i>	-2.22	-2.43	-2.06
<i>PRM7</i>	-2.26	-2.42	-2.44
<i>RRP15</i>	-2.27	-2.89	-2.5
<i>REI1</i>	-2.28	-2.55	-2.3
<i>RRN11</i>	-2.3	-2.67	-1.78
<i>RRP17</i>	-2.31	-2.71	-2.8
<i>GFD2</i>	-2.32	-2.7	-2.31
<i>SPB4</i>	-2.35	-2.4	-2.19
<i>TPK3</i>	-2.37	-2.91	-1.99
<i>RKM3</i>	-2.38	-2.22	-2.3
<i>BUD22</i>	-2.4	-3.02	-2.4
<i>DBP8</i>	-2.41	-2.43	-2.2
<i>PPH3</i>	-2.6	-2.74	-1.88
<i>YBR271W</i>	-2.66	-2.68	-2.39
<i>RPC37</i>	-2.68	-2.61	-1.86
<i>BRL1</i>	-3.11	-2.63	-1.69

Table S3. DNA Damage Repair Deletion Strain List, Related to Figure 4

A list of *C. albicans* DKCa strains used in this work. The following strains were obtained from the Kirkpatrick Lab (Legrand et al., 2007, 2008).

Strain Name	Relevant Genotype
DKCa20	rad10::CdHIS1/rad10::CdARG4
DKCa33	msh2::CdHIS1/msh2::CdARG4
DKCa39	WT
DKCa67	rad50::CdHIS1/rad50::CdARG4
DKCa96	rad52::CdHIS1/rad52::CdARG4
DKCa97	rad52::CdHIS1/rad52::CdARG4