

Supplementary Table 1***Mutants affected in carbon/nitrogen signalling/amino acid metabolism***

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
Carbon signaling; RAS/cAMP/PKA pathway					
<u>yol081w</u>	<i>ira2</i>	25	yes	1; 1	GTPase-acting protein for Ras1p & Ras2p
<u>yor360c</u>	<i>pde2</i>	22	yes	4; 4	High-affinity phosphodiesterase
Nitrogen signaling; amino acid metabolism					
<u>ydr300c</u>	<i>pro1</i>	18	yes	1; 3	Proline biosynthesis pathway
<u>yel062w</u>	<i>npr2</i>	6	yes	2; 3	Nitrogen permease regulator
<u>ygl227w</u>	<i>vid30</i>	3	yes	2; 3	Nitrogen metabolism; gene expression
<u>ynl229c</u>	<i>ure2</i>	24	yes	2; 3	Regulator nitrogen catabolite repression
<u>yor375c</u>	<i>gdh1</i>	5	yes	4; 4	Glutamate dehydrogenase (NADP ⁺)

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 2

Mutants affected in mitochondrial function

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
Mitochondrial respiratory complexes: subunits and assembly					
<i>ybr003w</i>	<i>coq1</i>	12	no	4; 4	Coenzyme Q biosynthesis
<i>ybr037c</i>	<i>sco1</i>	10	no	4; 4	Cu ²⁺ insertion into cytochrome c oxidase
<i>ydr079w</i>	<i>pet100</i>	11	no	4; 4	Assembly of cytochrome c oxidase
<i>ydr204w</i>	<i>coq4</i>	9	no	4; 4	Coenzyme Q biosynthesis
<i>ydr298c</i>	<i>atp5</i>	10	no	4; 4	Subunit of F ₁ F ₀ -ATPase
<i>ydr529c</i>	<i>qcr7</i>	10	no	4; 4	Cytochrome c reductase subunit VII
<i>yer141w</i>	<i>cox15</i>	11	no	4; 4	Heme A biosynthesis; Cox assembly
<i>yer154w</i>	<i>oxa1</i>	11	no	4; 4	Assembly of F ₁ F ₀ -ATPase and Cox
<i>ygr062c</i>	<i>cox18</i>	6	no	4; 4	Activity of cytochrome c oxidase
<i>yhr051w</i>	<i>cox6</i>	7	no	4; 4	Cytochrome c oxidase subunit VI
<i>yil098c</i>	<i>fmc1</i>	14	yes	4; 4	Cytochrome assembly
<i>yjl166w</i>	<i>qcr8</i>	8	no	4; 4	Cytochrome c reductase subunit VIII
<i>yll009c</i>	<i>cox17</i>	2	no	4; 4	Cu ²⁺ insertion into cytochrome c oxidase
<i>yll018c-a</i>	<i>cox19</i>	10	no	4; 4	Cytochrome c oxidase activity
<i>ypl132w</i>	<i>cox11</i>	8	no	4; 4	Heme A biosynthesis
<i>ypr004c</i>		25	yes	4; 4	Electron transfer flavoprotein
<i>ypr191w</i>	<i>qcr2</i>	7	no	4; 4	Cytochrome c reductase subunit II
Mitochondrial genome integrity and expression					
<i>ybr268w</i>	<i>mrpl37</i>		no	4; 4	Mitochondrial ribosomal protein
<i>ycr046c</i>	<i>img1</i>	8	poor	4; 4	Putative mitochondrial ribosomal protein
<i>ydl069c</i>	<i>cbs1</i>	10	no	4; 4	Translational activator of COB mRNA
<i>ydl107w</i>	<i>mss2</i>	8	no	4; 4	Mitochondrial expression of COX2
<i>ydl202w</i>	<i>mrpl11</i>		no	4; 4	Mitochondrial ribosomal protein
<i>ydr175c</i>	<i>rsm24</i>	9	no	3; 3	Mitochondrial ribosomal protein
<i>ydr197w</i>	<i>cbs2</i>	10	no	4; 4	Mitochondrial translational COB mRNA
<i>ydr322w</i>	<i>mrpl35</i>	10	no	4; 4	Mitochondrial ribosomal protein
<i>ydr337w</i>	<i>mrps28</i>	2	no	4; 4	Mitochondrial ribosomal protein
<i>ydr462w</i>	<i>mrpl28</i>	11	no	4; 4	Mitochondrial ribosomal protein
<i>yer153c</i>	<i>pet122</i>	9	no	2; 3	Translational activator COX3 mRNA
<i>ygr171c</i>	<i>msm1</i>	11	no	4; 4	Methionyl t-RNA synthetase
<i>yhl038c</i>	<i>cbp2</i>	4	no	1; 3	COB aI5 intron splicing
<i>yhr011w</i>	<i>dia4</i>	15	no	4; 4	Amino acyl-tRNA synthetase
<i>yhr116w</i>		8	no	4; 4	Putative mitochondrial translation
<i>yhr120w</i>	<i>msh1</i>	11	no	4; 4	Mitochondrial DNA repair
<i>yhr147c</i>	<i>mrpl6</i>	11	no	4; 4	Mitochondrial ribosomal protein
<i>yil093c</i>	<i>rsm25</i>	7	no	4; 4	Mitochondrial ribosomal protein
<i>yir021w</i>	<i>mrs1</i>	9	no	4; 4	COB mRNA splicing
<i>yjl063c</i>	<i>mrpl8</i>	6	no	1; 1	Mitochondrial ribosomal protein
<i>yjl102w</i>	<i>mef2</i>	8	no	4; 4	Putative mitochondrial translation
<i>yjl209w</i>	<i>cbp1</i>	8	no	4; 4	COB mRNA stability & 5' processing
<i>yjr144w</i>	<i>mgm101</i>	11	no	4; 4	Mitochondrial genome protein

<i>ykl003c</i>	<i>mrp17</i>	29 ^b	no	1; 2	Mitochondrial ribosomal protein
<i>ykr006c</i>	<i>mrpl13</i>	8	no	4; 4	Mitochondrial ribosomal protein
<i>ylr067c</i>	<i>pet309</i>	2	no	2; 3	Stability & translation of <i>COX1</i>
<i>ylr439w</i>	<i>mrpl4</i>	10	no	4; 4	Mitochondrial ribosomal protein
<i>ymr064w</i>	<i>aep1</i>	11	no	4; 4	<i>ATP9/OLI1</i> transcript accumulation
<i>ymr072w</i>	<i>abf2</i>	10	no	4; 4	Transmission & recombination mtDNA
<i>ymr193w</i>	<i>mrpl24</i>	12	no	4; 4	Mitochondrial ribosomal protein
<i>ymr228w</i>	<i>mtf1</i>	8	no	4; 4	mtRNA polymerase specificity factor
<i>ynl177c</i>		8	no	1; 2	Putative mitochondrial translation
<i>ynr036c</i>		11	no	4; 4	Putative mitochondrial ribosomal protein
<i>ynr037c</i>	<i>rsm19</i>	4	no	4; 4	Putative mitochondrial ribosomal protein
<i>ynr045w</i>	<i>pet494</i>	10	no	1; 3	Translation of <i>COX3</i> mRNA
<i>yol033w</i>	<i>mse1</i>	9	no	4; 4	Mitochondrial Glutamyl t-RNA synthetase
<i>yol095c</i>	<i>hmi1</i>	10	no	4; 4	Mitochondrial DNA helicase
<i>yp1183w-a</i>		12	no	4; 4	Putative mitochondrial ribosomal protein
<i>ypr166c</i>	<i>mrp2</i>	8	no	4; 4	Mitochondrial ribosomal protein
Mitochondrial: other					
<i>ybr163w</i>	<i>dem1</i>	10	no	4; 4	Putative mt morphology and respiration
<i>ygl237c</i>	<i>hap2</i>	3	no	4; 4	Component Hap2,3,4,5p complex
<i>ygr257c</i>		14	poor	4; 4	Mitochondrial carrier family (MCF)
<i>yil006w</i>		6	yes	4; 4	Mitochondrial carrier family (MCF)
<i>yil065c</i>	<i>fis1</i>	10	yes	4; 4	Involved in mitochondrial division
<i>yil070c</i>	<i>mam33</i>	11	yes	4; 4	Required for normal respiratory growth
<i>ylr139c</i>	<i>sls1</i>	4	yes	4; 4	Mitochondrial metabolism
<i>ylr369w</i>	<i>ssq1</i>	4	no	4; 4	Mitochondria heat shock protein 70
<i>ymr150c</i>	<i>imp1</i>	8	no	4; 4	Mitochondrial inner membrane protein
<i>yol009c</i>	<i>mdm12</i>	2	no	4; 4	Mitochondrial inheritance protein

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain. ^bSince *MRP17* (*YKL003c*; Crick strand) and *VPS2* (*YKL002w*; Watson strand) are in close proximity on opposite DNA strands, deletion of *MRP17* may have disrupted *VPS2* expression.

Supplementary Table 3

Mutants affected in secretory pathway function/vacuolar protein sorting

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
Class E vacuolar protein sorting/late endosome (LE) function					
<i>ynr006w</i>	<i>vps27</i>	34	yes	2; 3	Ub & PI3P binding; upstream ESCRT-I ?
<i>ycl008c</i>	<i>vps23</i>	27	yes	3; 4	ESCRT-I complex
<i>ylr119w</i>	<i>vps37/srn2</i>	25	yes	2; 4	ESCRT-I complex
<i>yp1065w</i>	<i>vps28</i>	29	ND	ND	ESCRT-I complex
<i>yjr102c</i>	<i>vps25</i>	30	poor	1; 3	ESCRT-II complex
<i>ylr417w</i>	<i>vps36</i>	26	poor	3; 3	ESCRT-II complex
<i>yp1002c</i>	<i>vps22/snf8</i>	35	yes	1; 1	ESCRT-II complex
<i>ykl002w</i>	<i>vps2/did4</i>	37	no	1; 2	ESCRT-III complex
<i>ylr025w</i>	<i>vps32/snf7</i>	23	yes	1; 2	ESCRT-III complex
<i>ymr077c</i>	<i>vps20</i>	29	no	1; 3	ESCRT-III complex
<i>ykl041w</i>	<i>vps24</i>	26	yes	4; 4	ESCRT-III complex
<i>yp1084w</i>	<i>vps31/bro1</i>	20	ND	ND	Functions downstream ESCRT-III compl.
<i>ykr035w-a</i>	<i>did2</i>	21	yes	2; 3	Endosomal protein sorting
<i>ydr486c</i>	<i>vps60</i>	19	yes	4; 4	Endosomal protein sorting
<i>ypr173c</i>	<i>vps4</i>	12	yes	1; 3	AAA-ATPase, ESCRT complex release
<i>ydr456w</i>	<i>vps44/nhx1</i>	6	ND	ND	Na+/H+ antiporter Endosomal/vacuolar
SNAREs					
<i>yor036w</i>	<i>vps6/pep12</i>	21	yes	1; 1	SNARE-Syntaxin of the LE
<i>yhl031c</i>	<i>gos1</i>	22	yes	4; 4	SNARE-GOlgI SNARE 1
<i>ygl212w</i>	<i>vam7</i>	5	yes	4; 4	SNARE-vacuolar morphogenesis
<i>yor106w</i>	<i>vam3</i>	6		4; 4	SNARE-Assoc. with Vam7 & Complex C
PI3P Kinases, FYVE domain-containing					
<i>ydr323c</i>	<i>pep7/vac1</i>	28	poor	1; 1	FYVE domain-containing vac. inherit.
<i>yfr019w</i>	<i>fab1</i>	11	yes	1; 1	FYVE domain-containing PI3(P)5-kinase
<i>ynr006w</i>	<i>vps27</i>	34	yes	2; 3	FYVE domain-containing PI3P binding
GTP-related					
<i>ykr001c</i>	<i>vps1</i>	8	no	4; 4	GTPase; Golgi-to-LE; sorts Pep12 to LE
<i>ylr262c</i>	<i>ypt6</i>	3	poor	4; 4	GTP-binding LE-to-TGN
<i>yml001w</i>	<i>ypt7</i>	13	ND	ND	GTP-binding LE-to-vacuole
<i>yor089c</i>	<i>vps21</i>	9	yes	4; 4	Rab GTPase activating/GTP-binding
<i>yor070c</i>	<i>gyp1</i>	4	yes	4; 4	GTPase-activating protein ER-to-Golgi
<i>ybr131w</i>	<i>ccz1</i>	11	ND	ND	Vesicular transport, interacts with Ypt7p
<i>ygl124c</i>	<i>mon1</i>	5	yes	4; 4	Complexes with Ccz1p vacuolar delivery
Vacuolar import and degradation					
<i>ybr105c</i>	<i>vid24</i>	2	yes	4; 4	Vacuolar import and degradation
<i>ygl227w</i>	<i>vid30</i>	3	poor	4; 4	Vacuolar import and degradation
<i>yil017c</i>	<i>vid28</i>	9	yes	4; 4	Vacuolar import and degradation
<i>ylr373c</i>	<i>vid22</i>	4		4; 4	Vacuolar import and degradation
Class C Complex/vacuolar biogenesis/Ypt7p associated complex					
<i>ylr148w</i>	<i>vps18/pep3</i>	21	no	1; 1	Class C complex; vac. biogenesis
<i>ydl077c</i>	<i>vps39/vam6</i>	5	ND	ND	Class C complex; Assoc. with Ypt7p
<i>ylr396c</i>	<i>vps33</i>	14	no	1; 1	Class C complex vac. morphogenesis

Endosome-to-Golgi retrieval					
<i>yhr012w</i>	<i>vps29</i>	8	yes	4; 4	Endosome-to-Golgi retrieval
<i>yjl053w</i>	<i>vps26/pep8</i>	7	yes	4; 4	Endosome-to-Golgi retrieval
<i>yjl154c</i>	<i>vps35</i>	19	yes	4; 4	Endosome-to-Golgi retrieval
<i>yor069w</i>	<i>vps5</i>	8	yes	4; 4	Endosome-to-Golgi retrieval
<i>yp1120w</i>	<i>vps30</i>	4	poor	4; 4	Endosome-to-Golgi retrieval
<i>ylr360w</i>	<i>vps38</i>	6	yes	4; 4	Endosome-to-Golgi retrieval
<i>ydr027c</i>	<i>vps54/luv1</i>	15	poor	1; 4	Subunit (Sac2p-Vps53p-Luv1p) complex
<i>ydr484w</i>	<i>vps52/sac2</i>	10	yes	4; 4	Subunit (Sac2p-Vps53p-Luv1p) complex
<i>yjl029c</i>	<i>vps53</i>	13	ND	ND	Subunit (Sac2p-Vps53p-Luv1p) complex
Vacuolar protein sorting: other					
<i>yal002w</i>	<i>vps8</i>	7	yes	4; 4	Golgi-to-LE transport
<i>ydr495c</i>	<i>vps3</i>	16	yes	1; 1	Vacuolar sorting protein and segregation
<i>yll040c</i>	<i>vps13</i>	3	yes	4; 4	Protein involved in vacuolar sorting
<i>yml097c</i>	<i>vps9</i>	2	yes	4; 4	Protein involved in vacuolar sorting
<i>ymr004w</i>	<i>mvp1</i>	3	yes	4; 4	Protein involved in vacuolar sorting
<i>ynl297c</i>	<i>mon2</i>	8	poor	4; 4	Protein involved in vacuolar sorting
<i>yor132w</i>	<i>vps17</i>	3	ND	ND	Protein involved in vacuolar sorting
<i>ypl045w</i>	<i>vps16</i>	2	no	4; 4	Protein involved in vacuolar sorting
Golgi-to-ER retrograde transport					
<i>yer122c</i>	<i>glo3</i>	6	no	3; 3	Retrograde transport between Golgi/ER
Glycosylation					
<i>ygl005c</i>	<i>cod5</i>	2	poor	4; 4	Component of Sec34p-Sec35p complex
<i>ygl223c</i>	<i>cod3</i>	3	yes	4; 4	Component of Sec34p-Sec35p complex
<i>yml071c</i>	<i>dor1</i>	5	yes	4; 4	Component of Sec34p-Sec35p complex
<i>ynl041c</i>	<i>cod2</i>	3	no	4; 4	Component of Sec34p-Sec35p complex
<i>ynl051w</i>	<i>cod4</i>	2	yes	4; 4	Component of Sec34p-Sec35p complex
<i>yel036c</i>	<i>anp1</i>	5	yes	4; 4	Subunit of mannosyltransferase complex
<i>yjl183w</i>	<i>mnn11</i>	3	yes	2; 3	Subunit of mannosyltransferase complex
<i>yjr075w</i>	<i>hoc1</i>	4		4; 4	Subunit of mannosyltransferase complex
<i>ypr159w</i>	<i>kre6</i>	5	no	4; 4	Glucan synthase subunit
ER/Golgi: other					
<i>ydr518w</i>	<i>eug1</i>	12	no	4; 4	Protein disulfide isomerase
<i>ygl167c</i>	<i>pmr1</i>	8	poor	1; 3	Ca ²⁺ , Mn ²⁺ -transporting ATPase of Golgi
<i>ylr264w</i>	<i>sec22</i>	7	yes	4; 4	ER-to-Golgi transp. vesicles (v-SNARE)
<i>yel031w</i>	<i>cod1</i>	3	ND	ND	Ca ²⁺ -ATPase of the ER
<i>yfl005w</i>	<i>sec4</i>	2		4; 4	Golgi-to-plasma membrane transport
<i>ygr284c</i>	<i>erv29</i>	4	no	4; 4	Component of COPII-coated vesicles
<i>ykl212w</i>	<i>sac1</i>	3	yes	1; 3	PI phosphatase; ATP transport into ER
Autophagy					
<i>ydl149w</i>	<i>apg9</i>	2	poor	4; 4	Involved in autophagy pathway
<i>yhr171w</i>	<i>apg7</i>	4		1; 3	Involved in autophagy pathway
<i>yll042c</i>	<i>apg10</i>	2	yes	4; 4	Involved in autophagy pathway
<i>ylr423c</i>	<i>apg17</i>	3	yes	4; 4	Involved in autophagy pathway
<i>ypl149w</i>	<i>apg5</i>	3	no	4; 4	Involved in autophagy pathway

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 4***Mutants affected in mRNA translation***

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
<i>ybl027w</i>	<i>rpl19b</i>	4	yes	4; 4	Ribosomal protein L19
<i>ybl072c</i>	<i>rps8a</i>	3	yes	4; 4	Ribosomal protein S8
<i>ybr191w</i>	<i>rpl21a</i>	4	yes	4; 4	Ribosomal protein L21
<i>ydl160c</i>	<i>dhh1</i>	3	poor	4; 4	Putative RNA helicase
<i>ydl191w</i>	<i>rpl35a</i>	2	yes	4; 4	Ribosomal protein L35
<i>ydr332w</i>		9	yes	4; 4	RNA helicase
<i>yhr169w</i>	<i>dbp8</i>	5	yes	4; 4	RNA helicase
<i>yil018w</i>	<i>rpl2b</i>	4	yes	4; 4	Ribosomal protein L2
<i>yjl138c</i>	<i>tif2</i>	6	yes	4; 4	Translation initiation factor 4A (eIF4A)
<i>ypl037c</i>	<i>egd1</i>	11	no	1; 1	Subunit nascent polypeptide-assoc. compl.

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 5
Mutants affected in ubiquitin/proteasome related processes

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
<i>ybr173c</i>	<i>ump1</i>	10	yes	4; 4	Proteasome maturation and assembly
<i>yel012w</i>	<i>ubc8</i>	2	poor	4; 4	Ubiquitin-conjugating enzyme
<u><i>yer151c</i></u>	<u><i>ubp3</i></u>	3	yes	4; 4	Ubiquitin-specific protease
<i>yfr010w</i>	<i>ubp6</i>	18	yes	1; 1	Putative ubiquitin-specific protease
<i>yil008w</i>	<i>urm1</i>	2	yes	4; 4	Ubiquitin-related protein
<i>ykl213c</i>	<i>doa1</i>	25	yes	1; 1	Protein required in ubiquitin proteolysis
<i>ynr051c</i>	<i>bre5</i>	9	yes	4; 4	Protein with an RNA recognition motif
<i>yol138c</i>		7	poor	4; 4	Protein contains WD (WD-40) repeats
<i>ypl074w</i>	<i>yta6</i>	11	no	4; 4	Probable component 26S proteasome

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 6
Mutants affected in cell integrity/cytoskeleton/inositol metabolism

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
<u><i>yal047c</i></u>	<i>spc72</i>	5	no	1; 2	Cytoplasmic plaque of spindle pole body
<u><i>ybl007c</i></u>		9	no	4; 4	Assembly of cortical actin cytoskeleton
<u><i>ycl007c</i></u>	<i>cwh36</i>	7	no	1; 1	Generation of mannoprotein layer
<u><i>yhr030c</i></u>	<i>mpk1</i>	5	yes	1; 1	Serine/threonine protein kinase
<i>yhr129c</i>	<i>arp1</i>	3	yes	4; 4	Actin related protein
<i>yjl042w</i>	<i>mhp1</i>	10	no	1; 1	Microtubule-interacting protein
<u><i>yjl095w</i></u>	<i>bck1</i>	2	yes	1; 1	Serine/threonine protein kinase
<i>yjl188c</i>	<i>bud19</i>	7	yes	4; 4	Possibly involved in bud site selection
<i>yjl201w</i>	<i>ecm25</i>	21	yes	4; 4	Possibly involved in cell wall structure
<i>ylr006c</i>	<i>ssk1</i>	6	yes	4; 4	Component of MAP kinase pathway
<i>ylr330w</i>	<i>chs5</i>	5	yes	4; 4	Chitin synthase III activity
<u><i>ynl225c</i></u>		2	yes	1; 1	Component of spindle pole body
<i>yor026w</i>	<i>bub3</i>	5	poor	4; 4	Cell cycle arrest; microtubule function
<u><i>yor043w</i></u>	<i>whi2</i>	4	yes	4; 4	DNA repair protein
Inositol metabolism					
<i>yjl153c</i>	<i>ino1</i>	14	yes	4; 4	Inositol biosynthesis
<i>yol108c</i>	<i>ino4</i>	13	poor	4; 4	Activation phospholipid synthetic genes
<i>ydr017c</i>	<i>kcs1</i>	7	yes	2; 4	Inositol hexaphosphate kinase
<i>ydr497c</i>	<i>itr1</i>	2	yes	4; 4	Myo-inositol permease
<i>yfr019w</i>	<i>fab1</i>	11	yes	1; 1	PI3P-5-kinase

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 7***Mutants affected in Ion homeostasis/transport***

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
Vacuolar ATPase related					
<i>ybr127c</i>	<i>vma2</i>	6	no	1; 1	Required for vacuolar H ⁺ -ATPase activity
<i>ylr477c</i>	<i>vma6</i>	6	no	1; 1	Required for vacuolar H ⁺ -ATPase activity
<i>yor332w</i>	<i>vma4</i>	6	no	1; 1	Required for vacuolar H ⁺ -ATPase activity
<i>ypr036w</i>	<i>vma13</i>	2	no	1; 1	Required for vacuolar H ⁺ -ATPase activity
Calcium related					
<i>ybr036c</i>	<i>csg2</i>	2	yes	4; 4	Ca ²⁺ homeostasis protein (CHP) family
<i>yel031w</i>	<i>cod1</i>	3	ND	ND	Ca ²⁺ -ATPase of the ER
<i>ygl167c</i>	<i>pmr1</i>	8	poor	1; 3	Ca ²⁺ , Mn ²⁺ -transporting ATPase of Golgi
<i>ygr217w</i>	<i>cch1</i>	2	yes	4; 4	Voltage-gated Ca ²⁺ channel
<i>yor088w</i>	<i>yvc1</i>	3	yes	4; 4	Ca ²⁺ -activated vacuolar ion channel
Other					
<i>ydr276c</i>	<i>pmp3</i>	6	yes	4; 4	Plasma membrane proteolipid
<i>ydr456w</i>	<i>nhx1</i>	6	yes	4; 4	Endosomal/vacuolar Na ⁺ /H ⁺ antiporter
<i>yhl011c</i>	<i>prs3</i>	8	poor	3; 3	Cell cycle regulation; critical cell size
<i>yjl056c</i>	<i>zap1</i>	5	yes	4; 4	Zn ²⁺ responsive transcription activator
<i>yjr059w</i>	<i>ptk2</i>	11	yes	4; 4	Stimulates H ⁺ -pumping via Pma1p
<i>yjl212c</i>	<i>hgt1</i>	3	yes	4; 4	Glutathione uptake transporter
<i>yll010c</i>	<i>psr1</i>	2	yes	4; 4	Na ⁺ stress response; plasma membrane
<i>yol001w</i>	<i>pho80</i>	4	yes	4; 4	Cyclin interacting with Pho85p
<i>ypl058c</i>	<i>pdr12</i>	7	no	4; 4	Weak organic acid resistance

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 8
Mutants affected in transcription; chromatin remodelling

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
<u>ybr279w</u>	<i>paf1</i>	10	poor	1; 4	Protein associated with RNA polymerase II
<u>ybr289w</u>	<i>snf5</i>	11	No	4; 4	Component of SWI-SNF complex
<u>ydl194w</u>	<i>snf3</i>	2	Yes	4; 4	High-affinity glucose sensor
<u>ydr448w</u>	<i>ada2</i>	2	Yes	1; 3	Component of SAGA & ADA complexes
<u>yel009c</u>	<i>gcn4</i>	2	yes	4; 4	Transcription factor
<u>ygl025c</u>	<i>pgd1</i>	3	yes	4; 4	Component RNA polymerase II holoenz.
<u>ygl115w</u>		2	yes	4; 4	Derepression of glucose-repressed genes
<u>ygl244w</u>	<i>rtf1</i>	3	poor	1; 2	Regulation of transcription elongation
<u>ygr252w</u>	<i>gcn5</i>	7	poor	2; 4	Component of SAGA & ADA complexes
<u>yhl025w</u>	<i>snf6</i>	3	yes	4; 4	Component of SWI-SNF complex
<u>yjl176c</u>	<i>swi3</i>	3	yes	4; 4	Component of SWI-SNF complex
<u>yjr063w</u>	<i>rpa12</i>	7	yes	4; 4	RNA polymerase I subunit
<u>ylr226w</u>	<i>bur2</i>	6	yes	2; 4	Regulation of transcription
<u>ylr357w</u>	<i>rsc2</i>	2	yes	2; 4	Component of the abundant RSC complex
<u>yol004w</u>	<i>sin3</i>	7	no	1; 2	Component of histone deacetylase B
<u>ypl254w</u>	<i>hfi1</i>	5	no	1; 2	Component of the ADA complex

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 9
Miscellaneous/Ungrouped deletants

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT Tolerance ^a 48 h; 72 h	Function
<i>ybr041w</i>	<i>fat1</i>	2	yes	4; 4	Very long-chain acyl-CoA synthetase
<i>ybr059c</i>	<i>akl1</i>	3	yes	4; 4	Serine/threonine protein kinase
<u><i>ydr264c</i></u>	<u><i>akr1</i></u>	5	no	1; 1	Pheromone signaling pathway
<i>yer056c</i>	<i>fcy2</i>	7	no	2; 3	Cytosine/purine permease
<i>yer116c</i>	<i>slx8</i>	5	yes	1; 1	Subunit of Hex3p-Slx8p complex
<i>yhr185c</i>	<i>pfs1</i>	2	yes	4; 4	Prospore membrane formation
<u><i>ynl280c</i></u>	<u><i>erg24</i></u>	4	poor	4; 4	C-14 sterol reductase
<i>ypl091w</i>	<i>glr1</i>	2	yes	4; 4	Glutathione reductase
<i>ydl179w</i>	<i>pcl9</i>	2	yes	4; 4	Cyclin that associates with the Pho85p

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 10
Mutations in genes of unknown function

Locus	Common name	Glutathione excretion (fold parent)	Capacity for respiratory growth	DTT tolerance ^a 48 h; 72 h	Function
<u><i>yal024c</i></u>	<i>lte1</i>	2	poor	2; 3	Required for termination of M phase
<i>ybl100c</i>		8	no	1; 4	Protein of unknown function
<i>ybr056w</i>		3	yes	4; 4	Protein of unknown function
<i>ybr162c</i>	<i>tos1</i>	2	yes	4; 4	Protein of unknown function
<i>ybr220c</i>		7	yes	4; 4	Similar to human acetyl CoA transporter
<u><i>ydl023c</i></u>		5	yes	4; 4	Protein of unknown function
<i>ydl039c</i>	<i>prm7</i>	6	yes	1; 3	Protein of unknown function
<i>ydl074c</i>	<i>bre1</i>	5	yes	1; 1	Protein of unknown function
<i>ydr200c</i>		3	yes	4; 4	Protein of unknown function
<i>ydr475c</i>		3	yes	4; 4	Protein of unknown function
<i>ydr533c</i>		9	no	4; 4	Protein of unknown function
<i>yel007w</i>	<i>tos9</i>	2	yes	2; 4	Protein of unknown function
<u><i>ygl107c</i></u>		9	yes	4; 4	Protein of unknown function
<i>ygl127c</i>	<i>soh1</i>	3	yes	4; 4	Allows hpr1 null mutant to grow at 37°C
<i>ygr150c</i>		10	poor	4; 4	Protein of unknown function
<i>yhl023c</i>		6	yes	1; 3	Protein of unknown function
<u><i>yil029c</i></u>		10	yes	4; 4	Protein of unknown function
<u><i>yil041w</i></u>		13	yes	4; 4	Protein of unknown function
<u><i>yil077c</i></u>		12	yes	4; 4	Protein of unknown function
<i>yil092w</i>		3	yes	4; 4	Protein of unknown function
<u><i>yil097w</i></u>	<i>fyv10</i>	2	yes	1; 2	Protein of unknown function
<u><i>yil110w</i></u>		5	yes	4; 4	Protein of unknown function
<i>ykr035c</i>		12	yes	2; 3	Protein of unknown function
<i>ylr114c</i>	<i>efr4</i>	15	yes	4; 4	Null is synthetically lethal with <i>pho85</i>
<i>ylr261c</i>		4	yes	4; 4	Protein of unknown function
<i>ylr322w</i>		12	yes	4; 4	Protein of unknown function
<i>yml048w</i>	<i>gsf2</i>	2	yes	4; 4	Protein involved in glucose repression
<i>ymr066w</i>	<i>sov1</i>	6	no	4; 4	Protein of unknown function
<u><i>ymr123w</i></u>	<i>pkr1</i>	4	no	2; 3	Protein of unknown function
<i>ymr151w</i>	<i>yim2</i>	7	ND	4; 4	Protein of unknown function
<i>ynl215w</i>		3	yes	1; 3	Protein of unknown function
<i>ynl296w</i>	<i>kre25</i>	5	poor	4; 4	Questionable ORF; overlaps <i>MON2</i>
<u><i>yol027c</i></u>		7	no	4; 4	Protein of unknown function
<i>yor384w</i>	<i>fre5</i>	2	yes	4; 4	Protein with similarity to Fre2p
<i>yp1017c</i>		2	yes	2; 2	Protein with similarity to Lpd1p
<i>ybl009w</i>		6	no	4; 4	Protein of unknown function
<i>ypr099c</i>		12	yes	4; 4	Protein of unknown function
<i>yol008w</i>		5	no	4; 4	Protein of unknown function
<i>ylr193c</i>		11	no	4; 4	Protein of unknown function
<i>ypr100w</i>		8	yes	4; 4	Protein of unknown function
<i>ynl183c</i>		3	yes	2; 3	Protein of unknown function
<i>yol050c</i>		4	yes	4; 4	Protein of unknown function
<i>ylr257w</i>		4	yes	4; 4	Protein of unknown function

<i>ydr230w</i>	3	no	4; 4	Protein of unknown function
<i>ydl072c</i>	2	yes	4; 4	Protein of unknown function
<i>ydl048c</i> <i>stp4</i>	2	yes	4; 4	Protein with strong similarity to Stp1p

Glutathione was measured in stationary phase and is expressed as fold relative to the parent. Respiratory capacity was determined by checking growth on YPG medium. Underlined loci denote mutants showing a reduced capacity/inability to utilise 1 mM GSH as a sole nitrogen source. ^aTolerance to DTT determined after 48 h and 72 h: 1 = no detectable growth; 2 = very poor growth; 3 = poor growth; 4 = minor or no effect relative to the parental strain.

Supplementary Table 11
Extracellular glutathione (GSH and/or GSSG) accumulated by strains of *S. cerevisiae* following growth to stationary phase (72

h) under various conditions

Locus	Gene name	SD medium GSH + GSSG	S.D.	SD medium 2X BCAA	S.D.	SD medium 4X BCAA	S.D.	SD medium pH 6 GSH + GSSG	S.D.	SD medium GSSG	S.D.
BY4743	parent	4.6	0.4	6.6	0.1	2.8	0.7	BD	0.20	0.89	0.05
BY4743	parent	5.2	1.1	4.7	0.1	4.1	1.6	BD	0.02	0.85	0.07
<i>yal024c</i>	<i>lte1</i>	8.9	0.4	13.2	1.0	10.7	4.0	8.34	4.16	0.70	0.05
<i>yal047c</i>	<i>spc72</i>	14.1	0.7	14.2	2.9	11.7	1.7	7.43	8.94	1.08	0.08
<i>yar002c-a</i>	<i>erp1</i>	5.8	0.3	5.5	0.8	4.9	1.9	BD	0.13	0.89	0.02
<i>ybl007c</i>		37.0	5.1	26.8	0.9	28.1	0.8	0.82	0.30	3.05	0.29
<i>ybl009w</i>	<i>atp1</i>	23.5	2.1	21.5	0.7	11.2	2.8	BD	0.08	2.28	0.14
<i>ybl027w</i>		2.9	0.7	2.7	0.2	2.2	0.2	BD	0.10	0.66	0.06
<i>ybl047c</i>		3.8	0.7	2.9	0.2	2.6	0.4	BD	0.09	0.80	0.13
<i>ybl072c</i>		4.8	1.2	3.8	0.5	2.6	0.2	BD	0.20	0.77	0.10
<i>ybl091c</i>		4.7	0.6	4.0	0.6	2.2	0.4	BD	0.05	0.67	0.07
<i>ybl100c</i>		21.4	1.0	21.9	1.4	14.9	5.5	BD	0.03	1.95	0.08
<i>ybr003w</i>	<i>cox1</i>	33	0	23	3	6	2	BD	0.13	3.41	0.45
<i>ybr036c</i>	<i>csg2</i>	5.1	0.3	4.3	0.4	3.0	0.7	BD	0.28	0.81	0.10
<i>ybr037c</i>	<i>sco1</i>	37.3	0.2	22.0	0.9	15.6	1.2	BD	0.08	3.76	0.33
<i>ybr041w</i>	<i>fat1</i>	8.5	0.0	7.8	0.1	7.2	1.5	BD	0.18	0.74	0.04
<i>ybr056w</i>		14.7	1.5	16.3	0.4	21.4	5.1	BD	0.09	0.87	0.06
<i>ybr059c</i>	<i>akl1</i>	16.4	1.1	7.6	10.1	19.3	3.1	0.21	0.30	1.05	0.08
<i>ybr125c</i>	<i>ptc4</i>	12.7	2.0	12.0	1.8	4.1	0.5	BD	0.17	1.05	0.03
<i>ybr131w</i>	<i>ccz1</i>	1.0	0.0	1.1	0.2	-0.9	0.2	BD	0.06	0.67	0.01
<i>ybr162c</i>	<i>tos1</i>	19.3	5.4	21.6	0.3	13.7	7.3	BD	0.18	2.35	0.66
<i>ybr163w</i>	<i>dem1</i>	34.2	1.4	22.5	1.5	22.0	1.0	BD	0.12	3.47	0.07

<i>ybr279w</i>	<i>paf1</i>	24.9	0.9	19.0	0.8	16.7	2.9	8.79	1.53	1.38	0.06
<i>ybr289w</i>	<i>snf5</i>	18.5	0.9	14.0	2.1	8.8	0.4	8.15	0.63	1.05	0.04
<i>ycl007c</i>	<i>cwh36</i>	14.0	2.4	12.4	1.9	10.6	0.5	0.95	0.28	1.14	0.02
<i>ycl008c</i>	<i>vps23</i>	38	10	14	1	8	2	1.52	0.56	1.99	0.66
<i>ycr046c</i>	<i>img1</i>	32.8	1.0	21.0	1.4	18.8	1.9	BD	0.13	3.26	0.03
<i>ycr063w</i>	<i>bud31</i>	11.3	0.6	14.0	0.6	7.0	1.2	3.41	0.98	0.86	0.09
<i>ycr077c</i>	<i>pat1</i>	5.4	0.1	6.7	1.9	5.3	2.6	0.07	0.40	0.80	0.01
<i>ycr086w</i>	<i>csm1</i>	3.1	0.0	8.2	5.4	2.4	0.4	0.11	0.82	0.69	0.19
<i>ydl023c</i>		42.6	0.1	25.5	4.6	24.1	2.9	BD	0.05	2.12	0.00
<i>ydl039c</i>	<i>prm7</i>	28.0	5.7	17.8	8.8	10.4	6.7	BD	0.10	2.71	0.63
<i>ydl069c</i>	<i>cbs1</i>	36.6	0.5	22.0	0.4	20.5	2.8	BD	0.07	3.25	0.18
<i>ydl074c</i>	<i>bre1</i>	22.5	5.8	15.7	1.0	21.1	3.6	4.12	3.44	1.77	0.64
<i>ydl106c</i>	<i>pho2</i>	5.7	0.0	4.4	0.0	8.1	4.3	BD	0.24	0.77	0.07
<i>ydl107w</i>	<i>mss2</i>	31.7	2.4	20.4	0.6	12.4	3.4	BD	0.05	3.00	0.33
<i>ydl179w</i>	<i>pcl9</i>	4.3	0.6	4.4	0.8	2.1	1.0	BD	0.15	0.88	0.01
<i>ydl191w</i>	<i>rpl35a</i>	7.4	0.7	6.9	0.8	5.2	1.0	BD	0.19	0.86	0.16
<i>ydl202w</i>	<i>mrpl11</i>	28.4	2.2	17.1	4.2	13.4	1.1	BD	0.09	3.07	0.49
<i>ydr017c</i>	<i>kcs1</i>	13.4	5.0	12.3	0.8	4.6	1.2	BD	0.17	1.42	0.84
<i>ydr027c</i>	<i>luv1</i>	32.1	1.9	31.0	1.4	34.7	2.7	0.89	0.33	1.53	0.14
<i>ydr175c</i>	<i>rsm24</i>	30.5	6.9	22.1	1.4	19.7	0.7	BD	0.02	3.24	0.44
<i>ydr197w</i>	<i>cbs2</i>	33.5	4.1	23.2	0.7	20.8	1.4	BD	0.05	3.81	1.00
<i>ydr200c</i>		14.2	1.9	9.8	1.1	10.0	3.0	1.16	0.57	1.08	0.13
<i>ydr204w</i>	<i>coq4</i>	29.7	2.7	19.5	1.9	18.0	0.9	BD	0.04	3.21	0.54
<i>ydr230w</i>		32.4	2.1	20.2	2.7	20.9	0.8	BD	0.08	3.13	0.90
<i>ydr264c</i>	<i>akr1</i>	18.0	0.9	12.1	4.3	19.4	3.8	10.91	10.77	1.90	1.15
<i>ydr276c</i>	<i>pmp3</i>	29	6	16	5	7	1	0.17	0.32	1.57	1.26
<i>ydr298c</i>	<i>atp5</i>	34.9	1.5	23.1	3.8	19.3	0.6	BD	0.02	3.22	0.44
<i>ydr300c</i>	<i>pro1</i>	20.8	6.0	18.1	1.4	13.2	3.1	1.94	0.12	1.52	0.14
<i>ydr322w</i>	<i>mrpl35</i>	36.7	3.8	24.8	3.9	20.3	1.5	BD	0.09	1.08	0.51
<i>ydr323c</i>	<i>pep7</i>	30.5	1.2	35.1	4.9	25.6	5.1	4.20	1.11	1.37	0.10

<i>ydr332w</i>		32.0	3.9	22.0	5.4	20.4	1.6	BD	0.05	1.73	1.34
<i>ydr337w</i>	<i>mrps28</i>	31.5	3.8	18.5	3.1	14.4	0.5	BD	0.11	2.59	1.35
<i>ydr440w</i>	<i>dot1</i>	4.5	0.2	6.2	0.7	4.3	1.2	BD	0.34	0.91	0.05
<i>ydr448w</i>	<i>ada2</i>	5.2	0.5	4.6	0.0	6.9	4.7	0.13	0.54	0.75	0.05
<i>ydr462w</i>	<i>mrpl28</i>	33.9	0.5	25.2	3.9	19.7	4.0	BD	0.12	3.25	0.07
<i>ydr475c</i>		26.5	6.3	25.9	1.5	13.2	4.9	BD	0.26	3.05	0.96
<i>ydr484w</i>	<i>sac2</i>	34.8	4.0	31.6	3.5	26.9	0.9	4.77	1.96	1.49	0.18
<i>ydr486c</i>	<i>vps60</i>	37	2	28	3	9	7	BD	0.06	3.72	0.15
<i>ydr495c</i>	<i>vps3</i>	23.1	0.7	28.1	0.1	18.3	2.2	3.91	0.81	1.27	0.10
<i>ydr497c</i>	<i>itr1</i>	5.7	0.8	6.6	0.0	5.3	2.4	BD	0.18	0.84	0.06
<i>ydr518w</i>	<i>eug1</i>	36.2	1.3	26.0	4.6	21.7	3.8	BD	0.02	3.08	0.00
<i>ydr529c</i>	<i>qcr7</i>	33.3	0.4	27.2	4.4	15.1	0.6	BD	0.03	3.33	0.28
<i>ydr533c</i>		35.9	1.1	25.2	4.7	12.4	2.2	BD	0.06	3.46	0.56
<i>yel007w</i>	<i>tos9</i>	13.2	1.1	14.8	3.5	10.4	1.3	BD	0.13	1.05	0.21
<i>yel009c</i>	<i>gcn4</i>	6.8	1.2	7.0	1.0	3.9	1.2	1.69	1.37	0.84	0.06
<i>yel051w</i>	<i>vma8</i>	4.6	0.5	5.2	1.0	2.7	0.9	BD	0.05	1.75	1.30
<i>yel062w</i>	<i>npr2</i>	35	2	22	5	5	2	BD	0.04	1.37	0.91
<i>yer004w</i>		4.6	0.6	6.2	0.4	2.3	0.5	BD	0.06	0.86	0.21
<i>yer005w</i>	<i>ynd1</i>	6.7	1.1	9.2	1.2	3.2	0.3	BD	0.06	0.77	0.05
<i>yer017c</i>	<i>afg3</i>	12.9	3.7	10.8	2.7	5.8	0.8	BD	0.09	1.41	0.75
<i>yer056c</i>	<i>fcy2</i>	36.2	3.2	22.5	3.5	19.2	1.0	BD	0.09	2.19	2.06
<i>yer116c</i>	<i>slx8</i>	15.1	3.5	21.0	0.4	23.6	6.5	BD	0.10	1.45	0.01
<i>yer119c-a</i>		5.2	0.5	6.0	0.3	4.6	1.1	2.29	1.92	0.73	0.01
<i>yer122c</i>	<i>glo3</i>	21.6	1.1	20.7	0.4	12.5	2.4	BD	0.06	2.17	0.21
<i>yer141w</i>	<i>cox15</i>	35.5	1.7	21.8	2.2	19.1	3.6	BD	0.10	3.60	0.42
<i>yer151c</i>	<i>ubp3</i>	6.6	0.1	7.4	0.2	3.9	1.4	0.14	0.58	0.82	0.05
<i>yer153c</i>	<i>pet122</i>	34.3	1.1	25.4	4.1	22.4	5.0	BD	0.05	3.21	0.06
<i>yer154w</i>	<i>oxa1</i>	30.0	1.5	23.1	1.1	10.3	1.1	BD	0.06	3.05	0.10
<i>yfl034w</i>	<i>mrpl7</i>	5.7	1.5	4.1	0.4	3.3	0.8	BD	0.04	0.76	0.06
<i>yfr010w</i>	<i>ubp6</i>	20	2	11	2	6	1	0.04	0.28	1.25	0.08

<i>yfr019w</i>	<i>fab1</i>	7.8	0.1	8.6	0.3	4.6	0.7	BD	0.19	0.94	0.03
<i>yfr019w</i>	<i>fab1</i>	28.0	0.2	27.6	0.3	25.7	3.8	BD	0.17	2.91	0.04
<i>ygl025c</i>	<i>pgd1</i>	7.1	0.5	8.1	1.1	4.3	0.5	0.05	0.62	0.80	0.04
<i>ygl066w</i>		10.3	1.4	10.5	0.3	7.5	0.8	BD	0.22	0.86	0.03
<i>ygl101w</i>		39.5	1.4	31.6	3.1	21.2	3.0	BD	0.11	3.96	0.06
<i>ygl107c</i>		28.5	0.5	28.0	3.1	17.8	1.8	BD	0.05	3.51	0.43
<i>ygl115w</i>		9.9	0.2	11.4	0.4	6.8	0.5	0.77	0.60	0.81	0.09
<i>ygl124c</i>	<i>mon1</i>	5.8	0.3	15.8	5.7	6.1	1.0	0.25	0.13	0.99	0.06
<i>ygl127c</i>	<i>soh1</i>	9.5	0.9	10.4	0.9	7.0	0.8	4.35	0.86	1.10	0.04
<i>ygl167c</i>	<i>pmr1</i>	29.7	4.0	21.3	0.3	13.7	1.0	15.34	3.51	7.11	0.40
<i>ygl168w</i>		0.7	0.3	0.7	0.1	-0.9	0.2	BD	0.21	0.64	0.15
<i>ygl194c</i>	<i>hos2</i>	4.2	0.5	5.1	0.4	3.1	0.6	BD	0.09	0.77	0.06
<i>ygl223c</i>	<i>tfi1</i>	8	6	13	4	1	5	BD	0.20	1.11	0.53
<i>ygl227w</i>	<i>vid30</i>	8.7	0.2	15.7	0.5	5.2	0.6	BD	0.09	0.86	0.00
<i>ygl237c</i>	<i>hap2</i>	10	2	3.3	0.5	1.0	0.6	BD	0.15	0.99	0.04
<i>ygl244w</i>	<i>rtf1</i>	11.9	0.8	10.2	0.7	5.6	1.4	BD	0.15	0.93	0.01
<i>ygl252c</i>	<i>rtg2</i>	9.8	0.1	11.3	0.3	7.3	0.1	BD	0.24	0.95	0.00
<i>ygr021w</i>		3.9	0.2	6.0	0.5	4.9	1.4	BD	0.11	0.69	0.10
<i>ygr123c</i>	<i>ppt1</i>	5.1	0.4	5.5	0.8	3.0	0.1	BD	0.08	0.73	0.05
<i>ygr150c</i>		35.8	3.5	24.0	4.6	18.1	0.8	BD	0.53	3.88	0.82
<i>ygr171c</i>	<i>msm1</i>	33.0	1.5	23.2	3.9	20.9	0.6	BD	0.52	2.91	0.17
<i>ygr206w</i>		11	1	8	1	3	1	0.08	0.92	1.13	0.20
<i>ygr217w</i>	<i>cch1</i>	8.5	1.7	21.2	6.4	14.7	12.7	BD	0.83	3.28	3.34
<i>ygr252w</i>	<i>gcn5</i>	22.7	4.2	11.9	0.6	12.1	0.7	2.93	0.50	1.67	0.33
<i>ygr257c</i>		24.6	1.9	16.1	1.7	9.7	2.6	BD	0.15	1.84	0.10
<i>yhl011c</i>	<i>prs3</i>	31.4	3.1	22.4	4.1	11.2	2.0	BD	0.06	3.52	0.90
<i>yhl023c</i>		33	3	20	4	4.2	0.3	BD	0.12	1.74	1.25
<i>yhl025w</i>	<i>snf6</i>	12.6	1.0	12.4	1.4	8.3	0.8	4.63	0.15	1.06	0.06
<i>yhl031c</i>	<i>gos1</i>	23.1	4.8	15.5	4.7	8.3	8.9	BD	0.12	3.12	0.11
<i>yhl038c</i>	<i>cbp2</i>	32.9	3.4	20.7	3.1	20.9	1.2	BD	0.21	2.55	1.76

<i>yhl044w</i>		3.5	0.9	4.4	0.4	4.0	1.1	BD	0.06	0.70	0.29
<i>yhr010w</i>	<i>rpi27A</i>	6.9	1.3	6.4	1.8	5.9	0.7	BD	0.27	1.63	1.06
<i>yhr011w</i>	<i>dia4</i>	30.8	5.4	24.7	4.0	19.6	0.7	BD	0.10	2.31	0.72
<i>yhr030c</i>	<i>mpk1</i>	12.1	2.9	11.9	1.4	15.1	0.2	2.95	0.89	2.16	1.31
<i>yhr034c</i>		5.1	0.6	6.0	0.2	3.5	0.4	BD	0.11	1.82	1.20
<i>yhr051w</i>	<i>cox6</i>	28.8	0.2	21.0	0.7	18.3	1.7	BD	0.13	2.95	0.26
<i>yhr116w</i>		25.5	15.3	10.6	3.2	14.9	1.4	BD	0.18	2.57	1.42
<i>yhr120w</i>	<i>msh1</i>	35.6	5.6	21.0	2.0	23.8	2.3	BD	0.16	3.57	0.68
<i>yhr129c</i>	<i>arp1</i>	8.5	2.1	9.7	0.5	7.3	1.3	BD	0.18	0.81	0.07
<i>yhr147c</i>	<i>mrpl6</i>	30.8	3.4	21.3	0.6	20.6	1.7	BD	0.07	3.20	0.11
<i>yhr185c</i>	<i>pfs1</i>	8.0	0.0	8.5	1.3	5.1	1.3	BD	0.34	0.79	0.12
<i>yil001w</i>		5.2	0.1	7.7	0.8	6.5	0.4	BD	0.68	0.80	0.11
<i>yil006w</i>		7.4	0.5	9.5	1.7	7.2	1.2	BD	0.17	0.99	0.20
<i>yil008w</i>	<i>urm1</i>	8.7	0.7	13.7	3.5	11.5	1.0	0.82	1.52	0.96	0.17
<i>yil017c</i>	<i>vid28</i>	40.8	1.4	26.9	2.1	21.8	0.3	0.12	0.22	2.01	0.38
<i>yil018w</i>	<i>rpl2B</i>	19.7	4.3	17.8	8.1	10.7	4.6	BD	0.07	2.22	0.67
<i>yil029c</i>		32.9	1.3	26.4	2.6	25.4	1.2	BD	0.69	1.87	0.09
<i>yil041w</i>		35.5	4.7	26.1	2.6	22.0	0.5	BD	0.09	2.17	0.08
<i>yil053w</i>	<i>rhr2</i>	20.4	4.7	20.9	1.4	10.1	1.5	BD	0.66	1.40	0.53
<i>yil065c</i>	<i>fis1</i>	34.7	7.2	25.3	2.0	19.9	1.5	BD	0.07	2.65	0.24
<i>yil070c</i>	<i>mam33</i>	34.0	1.6	25.3	4.0	21.1	1.7	BD	0.21	4.58	0.69
<i>yil077c</i>		39.5	2.3	27.8	6.1	24.4	0.3	BD	0.10	1.87	1.10
<i>yil092w</i>		8.1	0.1	11.3	0.8	10.6	1.7	BD	0.17	1.03	0.02
<i>yil093c</i>	<i>rsm25</i>	33.6	1.3	21.5	3.9	14.1	1.8	BD	0.11	3.26	0.21
<i>yil097w</i>	<i>fyv10</i>	15.9	1.2	23.4	2.7	9.7	1.8	0.28	1.15	1.30	0.39
<i>yil098c</i>	<i>fmc1</i>	54.1	2.9	43.3	3.7	39.3	1.9	0.22	0.69	3.69	0.43
<i>yil110w</i>		30.6	0.0	19.5	0.3	23.1	3.0	BD	0.16	1.88	0.07
<i>yir017c</i>	<i>met28</i>	3.9	5.6	2.0	0.4	-0.5	0.5	BD	0.06	0.68	0.16
<i>yir021w</i>	<i>mrs1</i>	30.7	4.6	20.8	2.0	17.1	0.3	BD	0.06	2.90	0.39
<i>yjl004c</i>	<i>sys1</i>	8.4	0.6	9.5	1.2	6.1	0.5	BD	0.40	0.90	0.04

<i>yjl022w</i>		34.2	0.0	24.6	4.3	23.5	2.8	BD	0.02	3.01	0.04
<i>yjl042w</i>	<i>mhp1</i>	29.0	1.0	26.3	0.8	25.0	2.6	BD	0.05	2.99	0.17
<i>yjl056c</i>	<i>zap1</i>	25	7	15	7	5	1	0.02	0.23	1.46	0.12
<i>yjl063c</i>	<i>mrpl8</i>	31.9	7.1	23.2	0.8	20.6	2.1	BD	0.03	2.70	0.14
<i>yjl095w</i>	<i>bck1</i>	13.2	2.4	15.5	0.6	18.0	1.1	12.84	10.39	1.20	0.09
<i>yjl102w</i>	<i>mef2</i>	24.4	2.0	22.4	1.0	23.5	3.1	BD	0.07	1.78	2.02
<i>yjl117w</i>	<i>pho86</i>	7.2	1.5	6.3	0.4	9.8	1.2	0.41	0.67	0.87	0.03
<i>yjl128c</i>	<i>pbs2</i>	4.5	0.2	5.1	0.4	3.0	0.2	BD	0.06	0.77	0.03
<i>yjl138c</i>	<i>tif2</i>	31.9	5.1	21.4	5.7	19.1	2.3	BD	0.16	3.89	0.73
<i>yjl152w</i>	<i>ino1</i>	39.9	2.9	36.6	1.4	39.4	6.2	27.42	2.52	1.51	0.18
<i>yjl166w</i>	<i>qcr8</i>	29.7	3.3	22.2	0.8	19.4	1.5	BD	0.16	3.03	0.42
<i>yjl176c</i>	<i>swi3</i>	10.4	1.5	11.3	1.1	13.5	0.7	1.02	0.22	1.04	0.13
<i>yjl183w</i>	<i>mnn11</i>	13.6	3.1	12.1	0.5	9.8	2.1	1.95	1.22	0.96	0.04
<i>yjl188c</i>	<i>bud19</i>	32	6	18	0	8	1	BD	0.15	2.27	0.55
<i>yjl201w</i>	<i>ecm25</i>	35.8	4.1	23.5	3.3	20.5	0.5	BD	0.25	4.36	0.46
<i>yjl204c</i>	<i>rct1</i>	13.0	1.8	9.4	0.7	6.6	0.1	0.15	0.34	0.95	0.03
<i>yjl209w</i>	<i>cbp1</i>	30.9	3.6	21.1	0.3	19.0	0.9	BD	0.05	3.09	0.58
<i>yjl212c</i>	<i>opt1</i>	6.8	0.7	7.3	1.6	5.4	0.5	BD	0.16	0.92	0.03
<i>yjr059w</i>	<i>ptk2</i>	32.3	4.8	23.6	3.0	19.7	1.5	BD	0.22	2.10	0.62
<i>yjr063w</i>	<i>rpa12</i>	31.2	3.2	23.9	1.1	20.5	1.3	BD	0.18	2.02	0.45
<i>yjr102c</i>	<i>vps25</i>	40	8	16	0	9	1	2.61	1.29	1.70	0.52
<i>yjr144w</i>	<i>mgm101</i>	34.8	1.0	22.6	0.0	23.0	0.6	BD	0.18	3.25	0.22
<i>ykl002w</i>	<i>did4</i>	52	0	28	3	14	1	0.82	0.45	1.92	0.13
<i>ykl003c</i>	<i>mrp17</i>	53	3	30	4	15	1	0.61	0.41	1.85	0.00
<i>ykl007w</i>	<i>cap1</i>	12.8	4.1	8.4	1.9	5.4	0.4	BD	0.10	0.92	0.13
<i>ykl032c</i>	<i>ixr1</i>	12	3	10	0	1.9	0.2	BD	0.09	1.37	0.31
<i>ykl041w</i>	<i>vps24</i>	35.5	1.3	25.3	3.3	16.0	0.7	0.25	0.20	1.40	0.09
<i>ykl055c</i>	<i>oar1</i>	11.9	9.5	7.4	3.0	4.3	1.6	BD	0.12	2.23	1.56
<i>ykl212w</i>	<i>sac1</i>	15.6	0.5	12.6	2.7	11.8	2.0	1.62	0.48	0.99	0.10
<i>ykl213c</i>	<i>doa1</i>	24	5	16	1	7.6	0.1	1.78	0.99	1.48	0.15

<i>ykr001c</i>	<i>vps13</i>	22.8	3.2	22.1	1.2	25.1	1.0	1.67	1.10	1.15	0.02	
<i>ykr006c</i>	<i>mrpl13</i>	29.9	2.5	20.2	2.0	17.7	2.4	BD	0.38	3.11	0.34	
<i>ykr035c</i>		24.8	8.3	13.9	1.5	11.8	5.1	2.58	1.34	1.09	0.70	
<i>ykr035w-a</i>	<i>did2</i>	24	9	14	2	7	2	1.23	0.85	1.35	0.15	
<i>ykr054c</i>	<i>dyn1</i>	8.4	2.8	6.6	0.8	6.0	4.2	BD	0.19	0.78	0.08	
<i>ykr067w</i>	<i>gpt2</i>	4.2	1.3	3.5	0.4	2.8	0.6	BD	0.14	0.65	0.11	
<i>yll009c</i>	<i>cox17</i>	9.2	0.5	10.7	1.8	4.7	3.7	BD	0.40	0.91	0.02	
<i>yll010c</i>	<i>psr1</i>	8.2	1.1	9.5	0.7	6.1	1.4	BD	0.10	0.81	0.13	
<i>yll018c-a</i>	<i>cox19</i>	35.6	0.6	26.3	1.1	20.7	7.9	BD	0.08	3.15	0.09	
<i>yll040c</i>	<i>vps13</i>	9.7	1.6	10.4	3.0	6.4	0.8	BD	0.44	0.87	0.09	
<i>ylr006c</i>	<i>ssk1</i>	8.6	2.2	11.1	0.6	4.4	1.3	BD	0.21	0.82	0.01	
<i>ylr018c</i>	<i>pom34</i>	5.1	0.9	5.8	1.3	3.0	0.8	BD	0.37	0.67	0.03	
<i>ylr025w</i>	<i>vps32</i>	40	7	19	1	12	2	3.52	0.88	1.92	0.20	
<i>ylr067c</i>	<i>pet309</i>	5.7	1.3	4.8	0.0	4.7	0.8	BD	0.64	0.73	0.04	
<i>ylr1148w</i>	<i>pep3</i>	50.2	0.6	48.0	2.1	50.5	2.3	13.57	1.47	1.57	0.07	
<i>ylr114c</i>	<i>erf4</i>	44.1	3.6	35.0	1.9	35.7	1.3	11.92	2.59	1.57	0.08	
<i>ylr119w</i>	<i>srn2</i>	38	8	10	1	7	1	1.81	0.59	1.65	0.32	
<i>ylr139c</i>	<i>sls1</i>	5.9	0.9	5.4	0.3	3.7	0.6	BD	0.06	0.66	0.03	
<i>ylr193c</i>		32.4	5.2	21.5	2.0	19.0	2.2	BD	0.08	3.08	0.58	
<i>ylr226w</i>	<i>bur2</i>	14.1	2.7	9.3	3.7	14.4	2.7	12.13	2.07	1.08	0.20	
<i>ylr234w</i>	<i>top3</i>	8.5	1.5	7.9	0.9	6.9	2.5	15.16	8.54	0.93	0.10	
<i>ylr239c</i>	<i>lip2</i>	9.0	1.0	10.7	0.8	6.4	1.1	0.74	0.88	0.92	0.08	
<i>ylr257w</i>		6.1	1.6	5.4	1.4	4.0	0.8	BD	0.29	0.85	0.02	
<i>ylr261c</i>		17.7	3.4	15.1	0.6	12.4	2.1	3.20	0.68	1.14	0.08	
<i>ylr262c</i>	<i>ypt6</i>	14.5	2.2	13.1	1.7	8.1	0.2	1.31	0.21	1.02	0.08	
<i>ylr295c</i>	<i>hsp60</i>	6.6	1.1	6.4	0.7	3.2	0.2	BD	0.09	0.94	0.02	
<i>ylr322w</i>		20.4	1.9	18.8	2.1	14.9	1.6	6.28	1.45	2.04	0.16	
<i>ylr324w</i>		7.6	2.2	6.5	0.6	3.1	1.8	BD	0.13	0.81	0.13	
<i>ylr330w</i>	<i>chs5</i>	17.9	0.9	16.1	1.3	9.5	0.7	BD	0.17	1.16	0.04	
<i>ylr342w</i>	<i>fks1</i>	3.3	0.9	7.2	4.4	5.3	5.8	BD	0.10	0.69	0.06	

<i>ylr357w</i>	<i>rsc2</i>	10.6	3.0	7.8	1.3	11.8	2.5	BD	0.34	1.23	0.24
<i>ylr360w</i>	<i>vps38</i>	28.0	10.1	10.4	2.3	14.0	3.8	1.67	0.48	1.42	0.48
<i>ylr369w</i>	<i>ssq1</i>	13	4	7.4	2.5	2	2	BD	0.11	1.14	0.15
<i>ylr396c</i>	<i>vps33</i>	23.5	5.7	30.2	5.8	41.3	6.2	5.05	0.35	1.58	0.39
<i>ylr417w</i>	<i>vps36</i>	36	7	15	1	10	1	3.15	1.30	1.59	0.29
<i>ylr423c</i>	<i>apg17</i>	7.5	0.1	8.0	0.2	5.9	2.1	1.14	0.96	0.97	0.03
<i>ylr439w</i>	<i>mrpl4</i>	4.8	0.2	6.1	0.4	3.0	0.9	BD	0.16	0.78	0.00
<i>yml048w</i>	<i>gsf2</i>	8.3	0.5	4.9	0.4	2.7	0.3	BD	0.12	0.84	
<i>yml071c</i>	<i>dor1</i>	20.0	3.6	14.1	1.5	11.8	4.4	3.41	2.30	0.95	0.32
<i>yml078w</i>	<i>cpr3</i>	4.2	0.5	6.2	0.3	2.4	0.4	BD	0.04	0.02	1.15
<i>yml097c</i>	<i>vps9</i>	6.5	0.9	7.8	1.3	9.1	0.8	0.69	0.18	0.89	0.04
<i>ymr004w</i>	<i>mvp1</i>	7.0	1.2	6.2	1.0	4.8	0.5	BD	0.11	0.79	0.04
<i>ymr063w</i>	<i>rim9</i>	4.9	1.1	3.3	0.5	2.4	0.8	BD	0.18	0.76	0.10
<i>ymr064w</i>	<i>aep1</i>	33.4	6.8	21.5	0.5	24.2	3.5	BD	0.08	3.08	0.93
<i>ymr066w</i>	<i>sov1</i>	33.5	2.9	22.0	2.0	20.0	0.6	BD	0.07	3.24	0.37
<i>ymr072w</i>	<i>abf2</i>	28.5	2.7	23.0	0.7	16.8	2.7	BD	0.03	2.98	0.46
<i>ymr077c</i>	<i>vps20</i>	35.3	4.6	15.7	1.3	12	3	3.28	0.54	1.53	0.28
<i>ymr123w</i>	<i>pkr1</i>	8.3	0.4	7.5	1.1	5.3	1.3	0.02	0.21	0.92	0.08
<i>ymr150c</i>	<i>imp1</i>	34.3	2.2	20.7	3.1	20.3	1.3	BD	0.36	3.03	0.36
<i>ymr151w</i>	<i>yim2</i>	37.1	5.3	20.4	1.4	21.0	2.5	BD	0.17	3.25	0.57
<i>ymr193w</i>	<i>mrpl24</i>	36.7	4.3	22.1	1.2	22.0	1.6	BD	0.37	3.41	0.37
<i>ymr228w</i>	<i>mtf1</i>	39.5	6.2	22.7	1.2	21.9	2.8	BD	0.21	3.56	0.49
<i>ynl080c</i>		19.3	3.7	11.7	2.6	16.0	2.2	1.58	0.64	1.92	0.18
<i>ynl098c</i>	<i>ras2</i>	10.9	0.2	12.5	2.2	4.8	1.2	BD	0.23	0.95	0.06
<i>ynl106c</i>	<i>inp52</i>	5.1	0.3	4.9	0.4	2.9	0.3	BD	0.16	0.84	0.02
<i>ynl119w</i>		7.7	0.8	7.0	1.1	7.4	0.6	0.02	0.53	0.82	0.00
<i>ynl148c</i>	<i>alf1</i>	6.2	1.0	7.8	0.6	2.9	0.2	BD	0.12	0.84	0.05
<i>ynl154c</i>	<i>yck2</i>	5.2	1.0	5.1	0.6	5.5	1.8	BD	0.16	2.50	2.31
<i>ynl159c</i>	<i>asi2</i>	4.8	0.7	5.2	0.9	6.6	0.7	BD	0.06	0.97	0.19
<i>ynl177c</i>		27.8	1.0	24.2	2.9	18.9	0.2	BD	0.21	1.66	1.01

<i>ynl183c</i>	7	2	2.7	0.1	1.1	0.3	BD	0.09	2.01	1.66
<i>ynl215w</i>	6.6	1.4	5.5	0.6	4.7	0.6	3.38	0.33	1.73	1.23
<i>ynl225c</i>	10.2	1.5	8.8	1.3	7.6	1.2	1.59	0.44	0.89	0.08
<i>ynl229c ure2</i>	26	7	2.8	0.5	1.9	0.5	2.25	0.43	1.40	0.83
<i>ynl280c erg24</i>	10.4	0.6	12.1	0.1	10.1	0.8	1.79	2.11	0.74	0.03
<i>ynl296w kre25</i>	7.2	0.4	8.6	1.6	8.3	2.1	1.58	0.68	0.71	0.01
<i>ynl297c mon2</i>	23.2	3.9	19.8	5.5	18.2	2.4	3.05	1.49	1.13	0.30
<i>ynr005c</i>	38	11	12	1	8	1	0.66	0.51	1.85	0.64
<i>ynr006w vps27</i>	51.7	10.3	23.1	0.7	18.5	2.5	2.20	0.48	2.29	0.73
<i>ynr036c</i>	23.2	2.0	23.9	2.6	21.3	1.2	BD	0.08	3.22	0.15
<i>ynr037c rsm19</i>	34.6	6.0	22.5	2.5	16.3	1.1	BD	0.10	3.57	0.86
<i>ynr045w pet494</i>	38.5	3.2	23.4	1.8	19.7	0.9	BD	0.14	3.64	0.73
<i>ynr050c lys9</i>	3.6	0.0	5.2	0.6	4.0	0.6	BD	0.22	1.25	0.02
<i>ynr051c bre5</i>	8.4	0.3	8.7	1.2	7.5	3.9	0.43	0.70	0.79	0.06
<i>yol001w pho80</i>	17.7	3.4	8.1	6.0	12.2	1.9	BD	0.21	2.42	1.53
<i>yol004w sin3</i>	37	6	11	1	9	1	BD	0.16	2.25	0.10
<i>yol008w</i>	32.0	7.3	20.0	3.3	13.9	1.1	BD	0.03	1.23	0.53
<i>yol009c mdm12</i>	24.4	2.8	16.7	3.0	13.7	2.3	BD	0.21	1.98	0.16
<i>yol018c tlg2</i>	4.6	0.6	6.5	1.1	3.5	0.7	BD	0.01	2.09	1.87
<i>yol027c</i>	30	1	12	1	5	1	BD	0.17	1.85	0.97
<i>yol033w mse1</i>	35.1	2.6	23.9	2.5	20.9	1.2	BD	0.19	1.80	1.49
<i>yol050c</i>	16	1	12	1	3	0	BD	0.32	2.32	1.57
<i>yol081w ira2</i>	18.3	2.6	18.1	0.7	16.6	2.8	BD	0.57	1.25	0.10
<i>yol095c hmi1</i>	31.7	4.8	22.6	2.1	23.2	0.8	BD	0.11	3.60	0.53
<i>yol108c ino4</i>	14.5	3.4	14.9	1.8	16.5	0.5	21.69	1.63	1.22	0.09
<i>yol138c</i>	34	1	16	1	4.8	0.4	BD	0.24	2.36	0.18
<i>yor008c slg1</i>	24.1	4.5	21.0	3.4	9.0	1.0	BD	0.06	2.77	0.53
<i>yor026w bub3</i>	10.7	0.7	9.6	1.0	11.7	2.1	1.22	0.31	0.90	0.01
<i>yor036w pep12</i>	34.6	1.8	37.5	5.4	28.3	1.1	3.22	0.36	1.61	0.09
<i>yor043w whi2</i>	30.8	1.4	27.6	2.5	21.8	1.2	BD	0.04	1.84	0.05

<i>yor069w</i>	<i>vps5</i>	0.9	0.0	0.9	0.2	-0.8	0.1	BD	0.17	0.60	0.01
<i>yor070c</i>	<i>gyp1</i>	18.4	2.2	19.1	0.5	17.4	0.3	2.56	0.10	0.94	0.03
<i>yor088w</i>	<i>yvc1</i>	4.5	0.5	5.3	0.3	3.9	0.8	BD	0.19	0.79	0.07
<i>yor089c</i>	<i>vps21</i>	14.0	1.0	11.6	1.2	7.4	1.1	2.25	0.10	0.84	0.50
<i>yor360c</i>	<i>pde2</i>	13.9	4.0	12.5	1.9	7.8	1.0	BD	0.23	1.27	0.61
<i>yor375c</i>	<i>gdh1</i>	12	5	4	0	3	1	BD	0.18	1.46	0.43
<i>yor384w</i>	<i>fre5</i>	4.6	0.4	6.8	0.9	4.7	0.6	BD	0.17	1.88	1.73
<i>yp1003w</i>	<i>vps22</i>	49.7	1.4	41.9	2.0	27.6	1.6	21.47	3.87	1.78	0.03
<i>yp1017c</i>		5.4	0.0	6.9	0.2	4.2	1.3	BD	0.29	0.81	0.06
<i>yp1022w</i>	<i>rad1</i>	53.3	5.5	23.1	0.3	19.7	1.8	5.95	1.59	2.16	0.14
<i>yp1026c</i>	<i>sha3</i>	10	1	10	0	2	1	BD	0.05	0.99	0.09
<i>yp1037c</i>	<i>egd1</i>	19.0	1.2	21.3	0.1	13.1	1.6	1.35	0.70	1.09	0.10
<i>yp1058c</i>	<i>pdr12</i>	34.3	5.3	19.7	0.5	15.5	4.3	BD	0.21	3.19	0.75
<i>yp1074w</i>	<i>yta6</i>	37.2	9.4	21.2	1.5	22.5	1.8	BD	0.05	3.30	0.85
<i>yp1091w</i>	<i>glr1</i>	5.5	1.6	4.8	0.2	3.3	0.7	BD	0.14	0.78	0.07
<i>yp1132w</i>	<i>cox11</i>	33.8	3.1	22.0	4.4	18.1	1.6	BD	0.09	3.57	0.24
<i>yp1254w</i>	<i>hfi1</i>	19.6	7.2	13.4	0.4	11.9	8.6	BD	0.52	0.95	0.12
<i>yp1272c</i>		5.4	1.1	5.1	1.0	6.0	0.3	BD	0.38	0.74	0.10
<i>yp1004c</i>		34	2	15	1	9	1	2.47	0.42	1.71	0.15
<i>yp1036w</i>	<i>vma13</i>	14.9	2.3	14.8	2.7	11.1	1.1	0.54	0.31	0.97	0.17
<i>yp1099c</i>		35.7	5.3	21.3	1.7	20.1	1.3	BD	0.14	3.21	1.27
<i>yp1100w</i>		38.5	4.1	21.9	0.4	21.5	2.4	BD	0.19	3.67	0.59
<i>yp1138c</i>	<i>mep3</i>	9	3	2.8	0.5	2.6	0.5	BD	0.08	0.98	0.27
<i>yp1166c</i>	<i>mrp2</i>	33.2	4.0	20.2	0.6	17.8	2.0	BD	0.15	3.41	0.54
<i>yp1173c</i>	<i>vps4</i>	45.9	2.6	30.7	0.5	19.2	0.6	2.56	1.18	1.85	0.11
<i>yp1191w</i>	<i>qcr2</i>	31.4	3.7	21.3	2.5	19.2	1.8	BD	0.01	3.10	0.77

All data shown are means \pm S.D. for triplicate values expressed in μM . All values were obtained following growth of strains in 96-well plates at 30°C without shaking. GSH + GSSG (column 3) = Extracellular total glutathione following growth in SD medium to stationary phase (72 h); 2XBCAA (column 5) = As for GSH + GSSG (column 3) but supplemented with 2-times standard BCAA (see methods section for concentrations used); 4X BCAA (column 7) = As for GSH+ GSSG (column 3) but supplemented with 4-times BCAA (see methods section for concentrations used); GSH + GSSG pH 6.0 (column 9) = As for GSH + GSSG (column 3) but SD medium was buffered to pH 6.0 (25 mM PIPPS); GSSG (column

11) = Extracellular GSSG following growth in SD medium to stationary phase (72 h). Abbreviations: BCAA = branched-chain amino acids; BD = below detection limits.