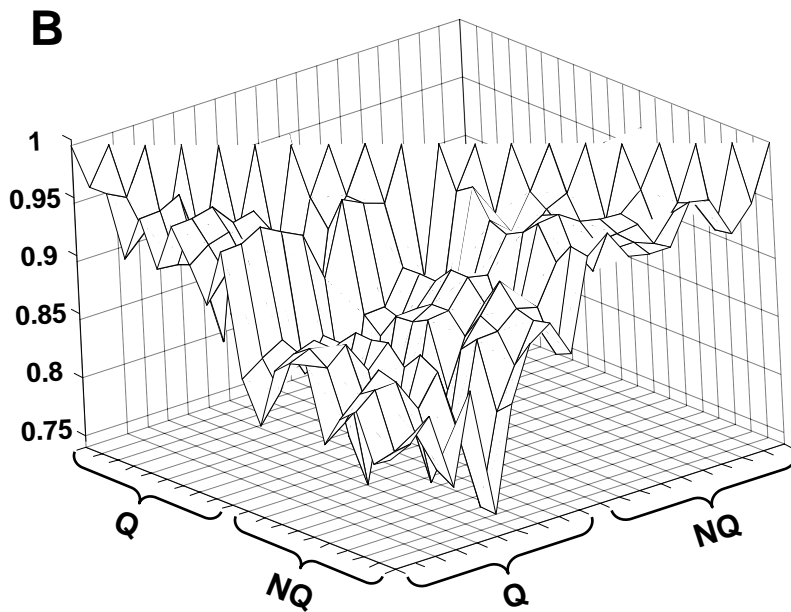
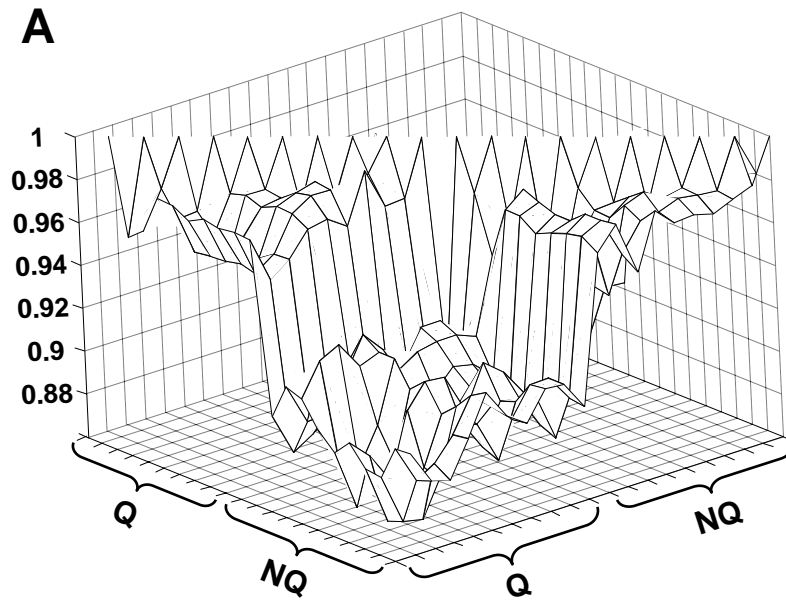


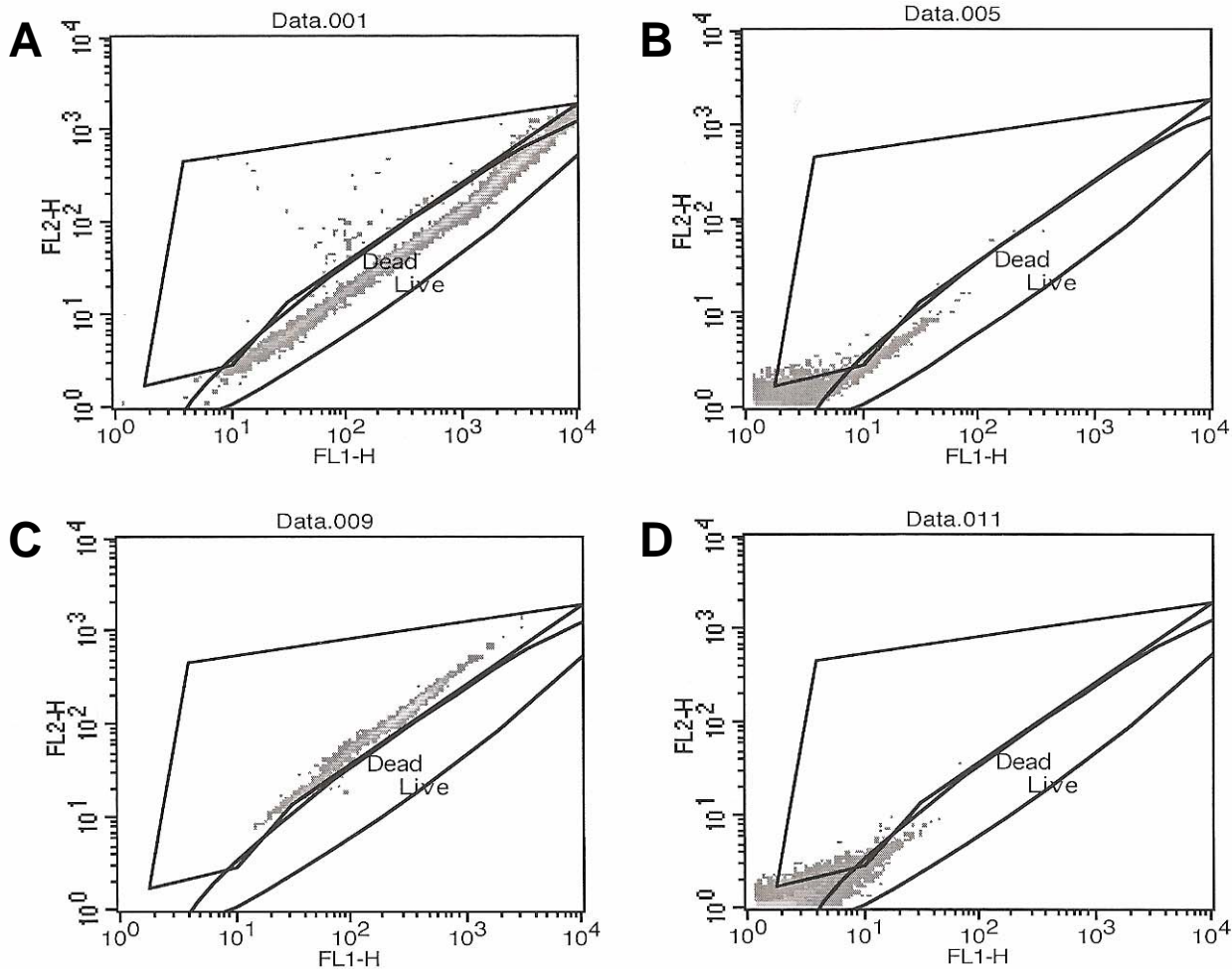
Mutants in this study

ACS1  
ADH2  
ADY2  
AGX1  
ALD2  
ALD3  
ALD4  
ARD1  
ATG8  
ATP1  
ATP18  
ATP2  
ATP3  
CIT1  
CIT2  
COR1  
COX6  
COX7  
COX8  
CTA1  
CTT1  
DDR2  
DOA4  
ETR1  
FAA1  
FBP1  
FMP16  
FMP21  
FMP45  
GAD1  
GAT2  
GID8  
GIS1  
GLK1  
GPD1  
GPG1  
GRE1  
GTT1  
GUT2  
HAP4  
HBT1  
HSP104  
HSP12  
HSP26  
HSP30  
HXX1  
HXT5  
ICL1  
JEN1  
KGD1  
MDH1  
MLS1  
MOH1  
MPM1  
MSC1  
NAT1

NGR1  
ODC1  
OM45  
PAI3  
PBI2  
PCK1  
PNC1  
POR1  
POT1  
PST2  
QCR10  
QCR7  
QCR8  
RBF9  
RIP1  
RTN2  
SDH2  
SDH4  
SDS24  
SFA1  
SIP18  
SNA2  
SNZ1  
SOD2  
SPG1  
SPG3  
SPG4  
SPG5  
SPI1  
SPS100  
TIP1  
UBI4  
XBP1  
YAT1  
YMR31  
YBL048W  
YBR056W  
YBR230C  
YDL218W  
YDR262W  
YGR043C  
YHR097C  
YHR138C  
YLR312C  
YPL230W



**Correlation plots of gene expression ratios from replicate hybridizations of the Q and NQ fraction.** Correlation was determined using Matlab as described in the Materials and Methods. (A) Correlation map of pair wise  $R^2$  values calculated for all replicate hybridizations of the Q and NQ fractions in the wild-type strain S288c. (B) Correlation map of pair wise  $R^2$  values calculated for all replicate hybridizations of the Q and NQ fractions in the parental strain BY4742.



**Flow cytometric viability assay using BY4742 haploid yeast cells.** (A) Stained exponential cells grown overnight, positive viability control. (B) Unstained exponential cells, autofluorescence control. (C) Stained isopropanol “killed” cells from a non-separated stationary-phase culture, negative viability control. (D) Unstained isopropanol “killed” cells from a non-separated stationary-phase culture, autofluorescence control.

Q gene list	YDL085W	YDR256C	YFL005W	YGR161C	YIL037C
YAL001C	YDL091C	YDR311W	YFL014W	YGR174C	YIL041W
YAL008W	YDL110C	YDR320C	YFL033C	YGR180C	YIL048W
YAL049C	YDL112W	YDR330W	YFL043C	YGR181W	YIL051C
YAL051W	YDL113C	YDR331W	YFL048C	YGR193C	YIL057C
YAL056W	YDL124W	YDR358W	YFR006W	YGR201C	YIL068C
YAL064W-B	YDL130W-A	YDR372C	YFR013W	YGR202C	YIL083C
YBL001C	YDL131W	YDR380W	YFR014C	YGR209C	YIL090W
YBL003C	YDL133C-A	YDR381C-A	YFR032C-A	YGR213C	YIL095W
YBL027W	YDL133W	YDR381W	YGL017W	YGR218W	YIL101C
YBL048W	YDL134C	YDR385W	YGL030W	YGR224W	YIL120W
YBL064C	YDL135C	YDR397C	YGL038C	YGR235C	YIL124W
YBL092W	YDL136W	YDR421W	YGL054C	YGR236C	YIL136W
YBL108C-A	YDL137W	YDR422C	YGL055W	YGR237C	YIL148W
YBR004C	YDL174C	YDR430C	YGL068W	YGR243W	YIL160C
YBR026C	YDL183C	YDR435C	YGL080W	YGR244C	YIL161W
YBR050C	YDL184C	YDR441C	YGL121C	YGR256W	YIR014W
YBR056W	YDL191W	YDR466W	YGL144C	YGR271W	YIR016W
YBR072W	YDL199C	YDR471W	YGL151W	YGR277C	YIR017C
YBR089C-A	YDL201W	YDR477W	YGL156W	YHL029C	YIR037W
YBR090C	YDL203C	YDR479C	YGL167C	YHL034C	YIR038C
YBR094W	YDL204W	YDR483W	YGL190C	YHL038C	YIR043C
YBR117C	YDL205C	YDR490C	YGL196W	YHL039W	YJL001W
YBR126C	YDL206W	YDR513W	YGL205W	YHR008C	YJL003W
YBR129C	YDL214C	YDR514C	YGL231C	YHR021C	YJL005W
YBR140C	YDL215C	YEL004W	YGL233W	YHR028C	YJL016W
YBR149W	YDL218W	YEL005C	YGL237C	YHR037W	YJL021C
YBR150C	YDL247W-A	YEL011W	YGR001C	YHR073W	YJL026W
YBR167C	YDR017C	YEL027W	YGR005C	YHR075C	YJL027C
YBR189W	YDR018C	YEL034W	YGR008C	YHR091C	YJL049W
YBR216C	YDR025W	YEL035C	YGR026W	YHR096C	YJL070C
YBR225W	YDR032C	YEL057C	YGR027C	YHR103W	YJL071W
YBR230C	YDR034W-B	YER009W	YGR032W	YHR106W	YJL084C
YBR255C-A	YDR070C	YER019C-A	YGR042W	YHR115C	YJL085W
YBR265W	YDR074W	YER020W	YGR043C	YHR132C	YJL088W
YBR269C	YDR099W	YER021W	YGR052W	YHR132W-A	YJL096W
YBR280C	YDR120C	YER022W	YGR053C	YHR133C	YJL099W
YBR287W	YDR122W	YER027C	YGR056W	YHR137W	YJL141C
YBR295W	YDR154C	YER028C	YGR067C	YHR138C	YJL142C
YBR296C	YDR155C	YER030W	YGR071C	YHR139C-A	YJL146W
YCL001W	YDR161W	YER042W	YGR082W	YHR155W	YJL163C
YCL032W	YDR164C	YER054C	YGR086C	YHR158C	YJL164C
YCL033C	YDR166C	YER063W	YGR087C	YHR160C	YJL165C
YCR007C	YDR167W	YER075C	YGR088W	YHR164C	YJL185C
YCR030C	YDR170C	YER101C	YGR090W	YHR165C	YJL197W
YCR079W	YDR172W	YER105C	YGR100W	YHR171W	YJL206C
YCR083W	YDR173C	YER112W	YGR106C	YHR186C	YJL207C
YCR094W	YDR176W	YER121W	YGR116W	YHR187W	YJR005W
YDL019C	YDR189W	YER129W	YGR118W	YHR195W	YJR008W
YDL022W	YDR192C	YER131W	YGR131W	YHR198C	YJR013W
YDL027C	YDR197W	YER136W	YGR132C	YIL017C	YJR019C
YDL028C	YDR200C	YER144C	YGR133W	YIL024C	YJR025C
YDL049C	YDR205W	YER165W	YGR134W	YIL030C	YJR036C
YDL064W	YDR223W	YER166W	YGR143W	YIL033C	YJR039W
YDL072C	YDR225W	YER169W	YGR144W	YIL034C	YJR047C
YDL078C	YDR233C	YER179W	YGR145W	YIL035C	YJR061W
YDL083C	YDR244W	YER185W	YGR146C	YIL036W	YJR066W

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YJR090C	YKR076W	YLR269C	YMR118C	YOL059W	YPL016W
YJR094W-A	YKR084C	YLR270W	YMR119W-A	YOL062C	YPL028W
YJR099W	YKR089C	YLR271W	YMR126C	YOL065C	YPL036W
YJR104C	YKR094C	YLR272C	YMR139W	YOL071W	YPL050C
YJR122W	YKR096W	YLR273C	YMR143W	YOL083W	YPL054W
YJR125C	YKR102W	YLR275W	YMR152W	YOL084W	YPL069C
YJR134C	YLL018C	YLR284C	YMR160W	YOL086C	YPL079W
YJR135W-A	YLL040C	YLR289W	YMR162C	YOL087C	YPL081W
YJR136C	YLL041C	YLR304C	YMR165C	YOL096C	YPL085W
YJR138W	YLL050C	YLR321C	YMR169C	YOL121C	YPL096C-A
YKL002W	YLL057C	YLR330W	YMR174C	YOL127W	YPL098C
YKL006C-A	YLR006C	YLR331C	YMR175W	YOL145C	YPL099C
YKL007W	YLR007W	YLR337C	YMR207C	YOL146W	YPL100W
YKL010C	YLR010C	YLR345W	YMR208W	YOL147C	YPL113C
YKL013C	YLR021W	YLR350W	YMR209C	YOL162W	YPL123C
YKL015W	YLR030W	YLR352W	YMR218C	YOR005C	YPL125W
YKL034W	YLR031W	YLR356W	YMR223W	YOR019W	YPL127C
YKL060C	YLR033W	YLR362W	YMR224C	YOR031W	YPL128C
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YKL072W	YLR045C	YLR417W	YMR232W	YOR069W	YPL145C
YKL093W	YLR052W	YLR425W	YMR238W	YOR070C	YPL147W
YKL107W	YLR054C	YLR440C	YMR246W	YOR092W	YPL149W
YKL121W	YLR056W	YLR448W	YMR284W	YOR093C	YPL183W-A
YKL124W	YLR068W	YLR454W	YMR287C	YOR099W	YPL185W
YKL125W	YLR069C	YML004C	YMR295C	YOR109W	YPL186C
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YKL135C	YLR072W	YML024W	YMR315W	YOR122C	YPL219W
YKL137W	YLR075W	YML047W-A	YNL015W	YOR125C	YPL222W
YKL142W	YLR079W	YML054C	YNL031C	YOR165W	YPL223C
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YKL150W	YLR081W	YML065W	YNL053W	YOR173W	YPL228W
YKL162C	YLR099C	YML072C	YNL121C	YOR175C	YPL230W
YKL162C-A	YLR106C	YML073C	YNL131W	YOR176W	YPL243W
YKL163W	YLR118C	YML075C	YNL189W	YOR177C	YPL265W
YKL173W	YLR119W	YML086C	YNL193W	YOR180C	YPL280W
YKL174C	YLR120C	YML088W	YNL208W	YOR181W	YPR006C
YKL179C	YLR134W	YML128C	YNL211C	YOR185C	YPR026W
YKL188C	YLR136C	YMR018W	YNL212W	YOR186W	YPR028W
YKL189W	YLR148W	YMR029C	YNL213C	YOR209C	YPR029C
YKL203C	YLR149C	YMR033W	YNL219C	YOR214C	YPR030W
YKL214C	YLR164W	YMR034C	YNL256W	YOR215C	YPR043W
YKL217W	YLR165C	YMR035W	YNL257C	YOR228C	YPR052C
YKL219W	YLR166C	YMR036C	YNL261W	YOR230W	YPR055W
YKL220C	YLR178C	YMR041C	YNL270C	YOR234C	YPR056W
YKL221W	YLR194C	YMR072W	YNL302C	YOR273C	YPR084W
YKR001C	YLR206W	YMR085W	YNL317W	YOR275C	YPR098C
YKR009C	YLR213C	YMR090W	YNL325C	YOR285W	YPR132W
YKR017C	YLR231C	YMR091C	YNR006W	YOR291W	YPR134W
YKR018C	YLR239C	YMR095C	YNR011C	YOR328W	YPR151C
YKR024C	YLR241W	YMR096W	YNR059W	YOR329C	YPR165W
YKR029C	YLR248W	YMR097C	YOL016C	YOR336W	YPR172W
YKR031C	YLR250W	YMR099C	YOL024W	YOR340C	YPR189W
YKR035W-A	YLR265C	YMR101C	YOL025W	YOR374W	YPR192W
YKR046C	YLR266C	YMR107W	YOL044W	YOR385W	YPR200C

	Probability
Quiescent	
vesicle-mediated transport	1.29E-09
vesicle docking during exocytosis	2.77E-06
oxygen and reactive oxygen species metabolism	9.11E-06
vesicle docking	9.41E-06
fatty acid oxidation	1.22E-05
exocytosis	1.55E-05
membrane organization and biogenesis	2.05E-05
response to oxidative stress	2.07E-05
membrane fusion	7.46E-05
lipid metabolism	9.20E-05
cellular lipid metabolism	9.55E-05
signal transduction	9.67E-05
establishment of localization	0.0001
transport	0.00011
post-Golgi vesicle-mediated transport	0.00013
Golgi to plasma membrane transport	0.00014
secretion	0.00014
cell communication	0.00016
fatty acid beta-oxidation	0.00023
bipolar bud site selection	0.00027
localization	0.00027
Golgi vesicle transport	0.00031
secretory pathway	0.00034
endocytosis	0.0004
response to stress	0.00049
cellular localization	0.00065
reproduction	0.00066
cell organization and biogenesis	0.00077
physiological process	0.00087
fatty acid metabolism	0.00092
intracellular transport	0.00106
establishment of cellular localization	0.00112
protein modification	0.00113
regulation of protein metabolism	0.0013
response to stimulus	0.00135
cell wall organization and biogenesis (sensu Fungi)	0.00153
cellular process	0.00164
actin polymerization and/or depolymerization	0.00175
response to abiotic stimulus	0.00199
cellular physiological process	0.00242
biopolymer biosynthesis	0.00243
vesicle fusion	0.00243
polysaccharide biosynthesis	0.00243
ethanol metabolism	0.00275
glucan biosynthesis	0.00314
cell wall biosynthesis	0.00314
cell wall biosynthesis (sensu Fungi)	0.00314
cell wall polysaccharide biosynthesis (sensu Fungi)	0.00321
protein localization	0.00336
endosome transport	0.00362
regulation of translational fidelity	0.00411
response to chemical stimulus	0.00436
establishment of protein localization	0.00436
age-dependent response to oxidative stress during chronological cell aging	0.00455
age-dependent general metabolic decline during chronological cell aging	0.00455
age-dependent response to oxidative stress	0.00455
asexual reproduction	0.00487
cell budding	0.00487

intracellular protein transport	0.00496
lipid biosynthesis	0.00511
Ras protein signal transduction	0.00584
Golgi to endosome transport	0.00588
protein amino acid phosphorylation	0.00645
regulation of proteolysis	0.00661
actin filament depolymerization	0.00661
beta-1,6 glucan biosynthesis	0.00661
protein transport	0.00711
beta-glucan biosynthesis	0.00723
age-dependent general metabolic decline	0.00723
cellular polysaccharide metabolism	0.00755
polysaccharide metabolism	0.00755
cell wall organization and biogenesis	0.00774
external encapsulating structure organization and biogenesis	0.00774
cell aging	0.00831
phosphate metabolism	0.00929
phosphorus metabolism	0.00929
carbohydrate biosynthesis	0.00955
aging	0.00964
steroid biosynthesis	0.01071
beta-glucan metabolism	0.01077
regulation of cellular biosynthesis	0.01121
regulation of biosynthesis	0.01121
intracellular signaling cascade	0.01179
beta-1,6 glucan metabolism	0.01206
glucose catabolism to ethanol	0.01206
protein retention in Golgi	0.01229
coenzyme metabolism	0.01277
development	0.01304
actin filament organization	0.014
ubiquitin-dependent protein catabolism via the multivesicular body pathway	0.01435
regulation of cell redox homeostasis	0.01527
response to desiccation	0.01527
cell redox homeostasis	0.01527
response to water	0.01527
response to water deprivation	0.01527
aromatic amino acid family catabolism	0.01548
actin filament capping	0.01548
age-dependent response to reactive oxygen species during chronological cell aging	0.01548
age-dependent response to reactive oxygen species	0.01548
barbed-end actin filament capping	0.01548
regulation of actin filament depolymerization	0.01548
regulation of cell shape	0.01548
negative regulation of actin filament depolymerization	0.01548
regulation of translation	0.01617
glucan metabolism	0.01669
late endosome to vacuole transport	0.01839
cortical cytoskeleton organization and biogenesis	0.01839
cortical actin cytoskeleton organization and biogenesis	0.01839
regulation of protein biosynthesis	0.01884
cell death	0.0189
glycolytic fermentation	0.01948
carbohydrate metabolism	0.01987
protein targeting	0.02007
maintenance of protein localization	0.02093
actin cytoskeleton organization and biogenesis	0.02104
death	0.02134
dephosphorylation	0.02182

energy reserve metabolism	0.02182
MAPKKK cascade	0.02311
regulation of physiological process	0.02327
vacuole fusion, non-autophagic	0.02704
cell adhesion	0.02856
maintenance of localization	0.02859
actin filament-based process	0.02866
peroxisome organization and biogenesis	0.02874
trehalose metabolism	0.0289
plasma membrane organization and biogenesis	0.0289
phospholipid translocation	0.0289
copper ion homeostasis	0.0289
regulation of transcription from RNA polymerase III promoter	0.0289
response to reactive oxygen species	0.0289
regulation of biological process	0.03156
generation of precursor metabolites and energy	0.03158
lipid transport	0.03202
reproductive cellular physiological process	0.03266
reproductive physiological process	0.03266
formation of catalytic spliceosome for first transesterification step	0.03278
regulation of actin polymerization and/or depolymerization	0.03278
aromatic compound catabolism	0.03278
regulation of actin filament length	0.03278
phosphorylation	0.03339
cofactor metabolism	0.03416
biopolymer modification	0.03486
cytokinesis, site selection	0.03507
bud site selection	0.03507
chronological cell aging	0.03519
steroid metabolism	0.03542
small GTPase mediated signal transduction	0.03709
replicative cell aging	0.03796
oxidoreduction coenzyme metabolism	0.03956
reproductive sporulation	0.04017
sporulation (sensu Fungi)	0.04017
cell cycle arrest in response to pheromone	0.04033
cell wall chitin metabolism	0.04033
protein depolymerization	0.04033
protein kinase cascade	0.04173
vacuole organization and biogenesis	0.04174
energy derivation by oxidation of organic compounds	0.0422
cellular macromolecule metabolism	0.04259
protein amino acid dephosphorylation	0.04369
actin cortical patch assembly	0.04408
regulation of cellular physiological process	0.04441
protein targeting to vacuole	0.04564
regulation of cellular process	0.04568
cell division	0.04607
cellular carbohydrate metabolism	0.04654
morphogenesis	0.05078
cellular morphogenesis	0.05078
growth	0.05096
protein import into mitochondrial inner membrane	0.0537
nonprotein amino acid metabolism	0.0537
negative regulation of protein metabolism	0.0537
protein targeting to peroxisome	0.05412
osmosensory signaling pathway	0.05412
MAPKKK cascade during cell wall biogenesis	0.05485
N-glycan processing	0.05485



proline catabolism	0.05485
disaccharide biosynthesis	0.05485
trehalose biosynthesis	0.05485
fatty acid transport	0.05485
sporulation	0.05506
mitochondrial genome maintenance	0.0577
cytokinesis	0.06098
pyridine nucleotide metabolism	0.06221
cell differentiation	0.06249
nitrogen compound catabolism	0.07412
sterol biosynthesis	0.07412
amine catabolism	0.07412
retrograde vesicle-mediated transport, Golgi to ER	0.07749
response to heat	0.07755
fermentation	0.07755
negative regulation of biological process	0.07929
ubiquitin cycle	0.08037
negative regulation of cell organization and biogenesis	0.08071
endoplasmic reticulum organization and biogenesis	0.08071
peptide or protein carboxyl-terminal blocking	0.08071
propionate metabolism	0.08071
metabolism	0.08142
negative regulation of cellular process	0.08358
negative regulation of cellular physiological process	0.08358
regulation of cell growth	0.08584
chitin metabolism	0.08584
cell cycle arrest	0.08584
negative regulation of progression through cell cycle	0.08584
organic acid metabolism	0.08664
carboxylic acid metabolism	0.08664
ergosterol metabolism	0.08838
ergosterol biosynthesis	0.08838
filamentous growth	0.09108
negative regulation of physiological process	0.09153
regulation of metabolism	0.09165
transcription initiation	0.0917
Not yet annotated	

NQ gene list	YCR002C	YDR261W-A	YER103W	YGR157W	YIL019W
YAL004W	YCR008W	YDR261W-B	YER116C	YGR161C-D	YIL047C
YAL012W	YCR018C-A	YDR265W	YER124C	YGR161W-A	YIL059C
YAL020C	YCR021C	YDR266C	YER138C	YGR161W-B	YIL080W
YAL023C	YCR038W-A	YDR267C	YER138W-A	YGR164W	YIL082W
YAL039C	YCR039C	YDR271C	YER139C	YGR165W	YIL106W
YAL040C	YCR040W	YDR273W	YER146W	YGR170W	YIL108W
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YAR018C	YDL007W	YDR306C	YER150W	YGR173W	YIL121W
YAR028W	YDL012C	YDR309C	YER151C	YGR177C	YIL123W
YAR029W	YDL047W	YDR316W	YER152C	YGR185C	YIL144W
YAR031W	YDL054C	YDR316W-A	YER158C	YGR189C	YIL152W
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YBL005W-A	YDL065C	YDR327W	YER160C	YGR199W	YIL169C
YBL005W-B	YDL066W	YDR342C	YER161C	YGR204W	YIR018W
YBL010C	YDL069C	YDR343C	YER163C	YGR205W	YIR029W
YBL021C	YDL070W	YDR344C	YER172C	YGR210C	YIR039C
YBL029C-A	YDL071C	YDR345C	YER173W	YGR211W	YJL034W
YBL033C	YDL095W	YDR349C	YFL002W-A	YGR222W	YJL037W
YBL043W	YDL100C	YDR353W	YFL002W-B	YGR242W	YJL079C
YBL045C	YDL165W	YDR354W	YFL016C	YGR253C	YJL082W
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YBL061C	YDL230W	YDR356W	YFL022C	YGR279C	YJL102W
YBL086C	YDL231C	YDR363W-A	YFL036W	YGR280C	YJL143W
YBL093C	YDL232W	YDR365C	YFL037W	YGR289C	YJL156W-A
YBL101W-A	YDR009W	YDR365W-B	YFL050C	YHL007C	YJL158C
YBL101W-B	YDR034C-A	YDR366C	YFL054C	YHL008C	YJL184W
YBL107W-A	YDR034C-C	YDR391C	YFR026C	YHL009W-B	YJL199C
YBR012C	YDR034C-D	YDR406W	YFR053C	YHL021C	YJR017C
YBR012W-B	YDR037W	YDR408C	YGL008C	YHL026C	YJR027W
YBR013C	YDR041W	YDR423C	YGL012W	YHL036W	YJR029W
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YBR063C	YDR045C	YDR454C	YGL058W	YHR016C	YJR046W
YBR065C	YDR046C	YDR481C	YGL082W	YHR020W	YJR064W
YBR077C	YDR047W	YDR502C	YGL088W	YHR025W	YJR073C
YBR078W	YDR049W	YDR516C	YGL096W	YHR041C	YJR077C
YBR082C	YDR079W	YDR517W	YGL106W	YHR043C	YJR111C
YBR100W	YDR088C	YDR518W	YGL108C	YHR044C	YJR117W
YBR101C	YDR098C-B	YDR527W	YGL123W	YHR049W	YJR148W
YBR105C	YDR133C	YDR530C	YGL163C	YHR050W	YKL004W
YBR106W	YDR151C	YDR532C	YGL172W	YHR064C	YKL008C
YBR114W	YDR170W-A	YEL010W	YGL178W	YHR071W	YKL023W
YBR158W	YDR171W	YEL012W	YGL193C	YHR081W	YKL043W
YBR161W	YDR179C	YEL020W-A	YGL198W	YHR092C	YKL044W
YBR162C	YDR206W	YEL026W	YGL203C	YHR094C	YKL062W
YBR162W-A	YDR210C-D	YEL038W	YGL209W	YHR102W	YKL081W
YBR164C	YDR210W	YEL039C	YGL212W	YHR104W	YKL082C
YBR177C	YDR210W-A	YEL047C	YGL213C	YHR143W	YKL101W
YBR183W	YDR210W-B	YEL065W	YGL255W	YHR143W-A	YKL103C
YBR223C	YDR210W-D	YEL066W	YGR027W-B	YHR146W	YKL104C
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YBR290W	YDR215C	YER002W	YGR039W	YHR152W	YKL109W
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YCL021W-A	YDR234W	YER062C	YGR099W	YHR179W	YKR011C
YCL022C	YDR242W	YER067W	YGR108W	YHR199C	YKR013W
YCL025C	YDR252W	YER076C	YGR122C-A	YHR214C-B	YKR038C
YCL030C	YDR253C	YER088C	YGR124W	YHR214W-A	YKR040C
YCL050C	YDR258C	YER090W	YGR137W	YHR216W	YKR041W
YCL066W	YDR259C	YER091C	YGR142W	YIL009C-A	YKR042W
YCL067C	YDR260C	YER091C-A	YGR151C	YIL014C-A	YKR043C
	YDR261C	YER092W	YGR156W	YIL015C-A	YKR045C
	YDR261C-D				

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YKR066C	YML085C	YNL284C-A	YOR368W
YKR070W	YML101C	YNL284C-B	YOR369C
YKR071C	YML102W	YNL285W	YOR370C
YKR075C	YML106W	YNL286W	YOR375C
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YLL038C	YML119W	YNR018W	YOR382W
YLL043W	YML124C	YNR043W	YOR383C
YLR024C	YML125C	YNR055C	YOR394W
YLR035C-A	YML130C	YOL032W	YPL001W
YLR036C	YMR002W	YOL036W	YPL014W
YLR059C	YMR013W-A	YOL068C	YPL024W
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YLR114C	YMR046C	YOL103W	YPL027W
YLR130C	YMR046W-A	YOL103W-B	YPL034W
YLR142W	YMR050C	YOL104C	YPL038W
YLR153C	YMR058W	YOL107W	YPL055C
YLR154C	YMR081C	YOL108C	YPL066W
YLR155C	YMR122W-A	YOL113W	YPL087W
YLR156W	YMR134W	YOL128C	YPL106C
YLR157C	YMR135C	YOL155C	YPL108W
YLR157C-B	YMR158C-B	YOR007C	YPL144W
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YLR159W	YMR217W	YOR027W	YPL213W
YLR160C	YMR240C	YOR049C	YPL237W
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YLR176C	YMR265C	YOR131C	YPL257W-B
YLR179C	YMR269W	YOR132W	YPL258C
YLR189C	YMR272C	YOR136W	YPL272C
YLR190W	YMR307W	YOR142W-B	YPR002C-A
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YLR217W	YMR318C	YOR144C	YPR033C
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YLR225C	YNL006W	YOR146W	YPR062W
YLR227W-B	YNL007C	YOR153W	YPR063C
YLR228C	YNL039W	YOR154W	YPR064W
YLR244C	YNL046W	YOR155C	YPR065W
YLR245C	YNL054W-B	YOR156C	YPR094W
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YLR285W	YNL063W	YOR195W	YPR114W
YLR286C	YNL064C	YOR204W	YPR137C-B
YLR299W	YNL065W	YOR210W	YPR137W
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YLR303W	YNL074C	YOR247W	YPR145W
YLR332W	YNL075W	YOR248W	YPR156C
YLR334C	YNL076W	YOR257W	YPR158C-D
YLR372W	YNL077W	YOR292C	YPR158W
YLR375W	YNL101W	YOR298C-A	YPR158W-B
YLR410W-A	YNL130C	YOR303W	YPR160W
YLR410W-B	YNL136W	YOR309C	YPR174C
YLR411W	YNL142W	YOR310C	
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YLR437C	YNL155W	YOR335C	
YML034W	YNL167C	YOR343C-A	
YML038C	YNL180C	YOR343C-B	
YML039W	YNL190W	YOR343W-A	
YML045W	YNL191W	YOR343W-B	
YML046W	YNL221C	YOR344C	
YML051W	YNL231C	YOR357C	
YML052W	YNL232W	YOR358W	

Non-quiescent GO_term	Probability
Ty element transposition	4.19E-29
DNA transposition	3.01E-27
DNA recombination	1.94E-19
DNA metabolism	2.48E-06
nucleobase, nucleoside, nucleotide and nucleic acid metabolism	2.46E-05
amino acid metabolism	6.42E-05
amine metabolism	8.66E-05
nitrogen compound metabolism	9.58E-05
asparagine metabolism	0.00014
protein folding	0.00016
amino acid and derivative metabolism	0.00028
aspartate family amino acid metabolism	0.00058
cellular response to nitrogen starvation	0.00095
asparagine catabolism	0.00095
cellular response to nitrogen levels	0.00095
hexose transport	0.00135
monosaccharide transport	0.00135
carbohydrate transport	0.00191
phosphatidylcholine biosynthesis	0.0032
carboxylic acid metabolism	0.0042
organic acid metabolism	0.0042
amino acid activation	0.00459
tRNA aminoacylation	0.00459
tRNA aminoacylation for protein translation	0.00459
nuclear migration during conjugation with cellular fusion	0.00502
regulation of transcription, mating-type specific	0.00512
glutamine family amino acid catabolism	0.00542
cellular process	0.00587
physiological process	0.00656
sulfur amino acid metabolism	0.00666
cellular physiological process	0.00714
siderophore transport	0.00767
phosphatidylcholine metabolism	0.00767
snoRNA processing	0.00923
homologous chromosome segregation	0.00923
regulation of carbohydrate metabolism	0.0108
aspartate family amino acid catabolism	0.01096
karyogamy during conjugation with cellular fusion	0.01096
glutamine family amino acid metabolism	0.01229
cellular response to extracellular stimulus	0.01248
cellular response to stimulus	0.01248
response to starvation	0.01248
cellular response to starvation	0.01248
cellular response to nutrient levels	0.01248
pyrimidine ribonucleoside metabolism	0.01282
phenylalanyl-tRNA aminoacylation	0.01282
donor selection	0.01282
cytidine metabolism	0.01282
GMP metabolism	0.01282
sphingolipid metabolism	0.01287
regulation of transcription from RNA polymerase II promoter	0.01781
transcription from RNA polymerase II promoter	0.01836
karyogamy	0.01995
regulation of physiological process	0.02126
positive regulation of cellular metabolism	0.02191
positive regulation of metabolism	0.02191
cell separation during cytokinesis	0.02239

ceramide metabolism	0.02239
homoserine metabolism	0.02239
cellular metabolism	0.02241
biopolymer metabolism	0.02375
primary metabolism	0.02484
regulation of progression through cell cycle	0.02511
regulation of cell cycle	0.02511
glutamate biosynthesis	0.02575
glucose transport	0.0273
histone ubiquitination	0.0273
ion transport	0.02801
regulation of biological process	0.02857
pigment biosynthesis	0.02911
amino acid biosynthesis	0.0301
positive regulation of cellular physiological process	0.03125
positive regulation of physiological process	0.03125
positive regulation of cellular process	0.03125
regulation of metabolism	0.03199
amino acid catabolism	0.03379
pigment metabolism	0.03475
protein monoubiquitination	0.03475
positive regulation of transcription	0.03594
positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolism	0.03915
nuclear migration, microtubule-mediated	0.04012
microtubule-based movement	0.04012
regulation of exit from mitosis	0.04102
negative regulation of gluconeogenesis	0.04212
sphingoid metabolism	0.04212
negative regulation of carbohydrate metabolism	0.04212
membrane lipid biosynthesis	0.04256
metabolism	0.0434
regulation of cellular physiological process	0.04415
regulation of cellular process	0.04535
cysteine metabolism	0.04595
snoRNA 3'-end processing	0.04595
asparagine biosynthesis	0.04595
sex determination	0.04793
mating type determination	0.04793
methionine metabolism	0.04793
glutamate metabolism	0.04871
cytoskeleton-dependent intracellular transport	0.04871
inorganic anion transport	0.04871
positive regulation of transcription, DNA-dependent	0.04919
amine catabolism	0.05071
nitrogen compound catabolism	0.05071
membrane lipid metabolism	0.05155
phosphate transport	0.05439
response to desiccation	0.05439
response to water deprivation	0.05439
response to water	0.05439
ribonucleoside metabolism	0.05439
amine biosynthesis	0.05484
nitrogen compound biosynthesis	0.05484
response to nutrient levels	0.05549
response to extracellular stimulus	0.05549
secondary metabolism	0.05549
response to external stimulus	0.05549
metal ion transport	0.05691
positive regulation of biological process	0.05787

organelle fusion	0.05823
anion transport	0.05823
transcription	0.05827
sulfur metabolism	0.06199
regulation of mitosis	0.06592
carboxylic acid transport	0.06592
pyrimidine nucleoside metabolism	0.06799
pyrimidine salvage	0.06799
response to hexose stimulus	0.06799
response to glucose stimulus	0.06799
isocitrate metabolism	0.06799
regulation of gluconeogenesis	0.06815
chitin metabolism	0.06815
aspartate family amino acid biosynthesis	0.06867
transition metal ion transport	0.06944
negative regulation of transcription from RNA polymerase II promoter	0.06944
organic acid transport	0.07201
di-, tri-valent inorganic cation transport	0.07201
glycerophospholipid biosynthesis	0.07202
meiosis I	0.073
regulation of transcription	0.07409
regulation of cellular metabolism	0.07545
regulation of transcription, DNA-dependent	0.07632
transcription, DNA-dependent	0.07768
sphingolipid biosynthesis	0.08001
glutamine family amino acid biosynthesis	0.08205
G1/S-specific transcription in mitotic cell cycle	0.08333
external encapsulating structure organization and biogenesis	0.0841
cell wall organization and biogenesis	0.0841
organelle localization	0.08521
positive regulation of transcription from RNA polymerase II promoter	0.08521
response to stimulus	0.08694
heterocycle metabolism	0.09014
alcohol metabolism	0.0922
nucleus localization	0.09221
nuclear migration	0.09221
establishment of nucleus localization	0.09221
organic cation transport	0.09275
zinc ion transport	0.09275
mitochondrial signaling pathway	0.09275
purine base biosynthesis	0.09275
response to carbohydrate stimulus	0.09275
polyol transport	0.09275
cytokinesis, completion of separation	0.09275
siderophore-iron transport	0.09275
ammonium transport	0.09275
monosaccharide metabolism	0.09654
cation transport	0.09654
amino acid transport	0.09774
drug transport	0.0998
telomerase-dependent telomere maintenance	0.0998
DNA damage checkpoint	0.0998
Not yet annotated	

Q	YML016C	YMR278W	YCL041C	YPL203W	YGL076C	YHL033C	YBR172C
protease	YGR187C	YAL060W	YDR261W-B	YLR078C	YCR066W	YGL159W	YOL068C
gene list	YBR217W	YBL005W-B	YMR045C	YKR011C	YER047C	YHL008C	YJR015W
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YFL036W	YOL008W	YJL158C	YGL012W	YDL051W	YPL178W	YER137C-A	YGR027W-A
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YML040W	YMR039C	YNL155W	YJR101W	YHR027C	YMR212C	YGR105W	YDL126C
YDL215C	YNL080C	YBR241C	YBR025C	YKR007W	YHL007C	YDR231C	YHR143W-A
YBR146W	YLR017W	YGL078C	YLR122C	YML085C	YDR263C	YDR379C-A	YLR167W
YOR383C	YGL245W	YDR453C	YOL120C	YKL126W	YEL027W	YMR294W	YGR174C
YBL107C	YJR080C	YLR466W	YKL218C	YPL183W-A	YNL014W	YPL240C	YFR024C
YEL012W	YLR007W	YOR306C	YER010C	YDR346C	YDR424C	YGR181W	YMR251W-A
YPR110C	YHR188C	YLL039C	YDR423C	YLR079W	YGR141W	YOL139C	YKL176C
YHR018C	YGL096W	YBL071W-A	YGL062W	YNL339C	YMR095C	YIR006C	YPL028W
YJR008W	YFR052W	YPR129W	YKL045W	YMR222C	YPL186C	YPL222W	YDR272W
YJR026W	YOL129W	YNL190W	YLR113W	YOR281C	YBL036C	YOL151W	YAL062W
YNL005C	YDR271C	YJR156C	YKL083W	YCR077C	YDL123W	YFL058W	YKL160W
YHR017W	YOL096C	YNL284C	YKR001C	YJR103W	YCR051W	YDL010W	YCR081W
YKL103C	YDL128W	YLR032W	YBR270C	YJR078W	YMR155W	YLL049W	YCR088W
YML116W-A	YOR215C	YPL063W	YER175C	YDR343C	YBR199W	YLL014W	YLR387C
YER064C	YOR154W	YCR017C	YGR095C	YPR104C	YMR090W	YBR052C	YNL195C
YLL043W	YPR154W	YOL040C	YPR143W	YKR025W	YMR029C	YMR173W	YAL055W
YNR017W	YLR392C	YMR100W	YJR105W	YBL088C	YMR046W-A	YPR004C	YPR098C
YDR098C-A	YPL221W	YPR166C	YPR080W	YER007C-A	YNL099C	YDR376W	YMR027W
YJL205C-A	YGR038C-B	YGL026C	YML126C	YKL177W	YOR147W	YNL137C	YIL027C
YLR048W	YNR035C	YMR265C	YLR107W	YGL164C	YOR382W	YGR077C	YOR007C
YOR192C-B	YGR157W	YKR100C	YPR101W	YDR380W	YDR284C	YDR284C	YDL049C
YKL181W	YBR005W	YDR054C	YDL007W	YIL069C	YML073C	YML073C	YNR016C
YDR354W	YHL020C	YIL144W	YOR184W	YAL042W	YPL198W	YPL091W	YAL034C
YMR252C	YER152C	YPR158W-B	YHR034C	YJR027W	YLR157C-A	YPL234C	YHL025W
YER100W	YMR295C	YDR342C	YML007W	YDR463W	YKR088C	YDR408C	YPL084W
YJR014W	YFR024C-A	YGR070W	YER138W-A	YMR197C	YML026C	YOR286W	YIL039W
YPL170W	YGL037C	YPR069C	YDR212W	YOR326W	YLR227W-A	YLR354C	YDL083C
YOL116W	YFL006W	YFR014C	YBR101C	YDR505C	YOR289W	YDL113C	YDR331W
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YML132W	YJL128C	YGR279C	YDR381C-A	YLR355C	YJL021C	YPL118W	YDR047W
YDL004W	YOR232W	YKR084C	YBR169C	YDR171W	YCL064C	YPL004C	YOL108C
YPL224C	YLR257W	YEL058W	YJL111W	YIL047C	YPL265W	YMR115W	YAL063C
YPR036W	YPR182W	YDR313C	YDR266C	YNR049C	YEL071W	YNL063W	YBL099W
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YJL217W	YNL117W	YHR214C-C	YLR175W	YPL225W	YBR036C	YKL081W	YMR081C
YDR210W-C	YOR133W	YNL073W	YBR268W	YLR224W	YGL173C	YGR106C	YEL051W
YOR369C	YBR090C	YPL268W	YNL142W	YPL159C	YOR370C	YBR208C	YDL029W
YJL210W	YLR262C-A	YDL115C	YKL151C	YEL050C	YJR048W	YOR223W	YGR260W
YLL018C	YOR246C	YJR028W	YGL105W	YLR371W	YJR139C	YHR096C	YDR447C
YBR292C	YNR032C-A	YMR044W	YGL043W	YJL081C	YOR350C	YMR022W	YHR162W
YFL044C	YGR222W	YPL092W	YOR257W	YJL186W	YPL031C	YBR218C	YHR074W
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YBR057C	YDL173W	YDR479C	YDR435C	YKL028W	YJL045W	YJL191W	YML009C
YOL030W	YOR332W	YGR254W	YOL016C	YIL059C	YNL056W	YPL230W	YBR095C
YCR009C	YPR188C	YDL185W	YMR314W	YNL192W	YML129C	YKL094W	YGR235C
YOL073C	YPR028W	YJL016W	YPL079W	YLR216C	YOR224C	YOR146W	YLL023C
YOR123C	YKL053C-A	YDL071C	YNL091W	YPL215W	YGR198W	YKL096W	YGR007W
YLR109W	YBR179C	YLR367W	YMR315W	YKR048C	YER141W	YOR015W	YBR158W
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YPL218W	YDL012C	YOL086C	YPL106C	YDL122W	YGL215W	YGL161C	YOR262W



YOR245C	YKR013W	YGL237C	YCL025C	YDR265W	YNL054W-A	YKL027W	YNL302C
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YPR088C	YDL019C	YGL187C	YLR467W	YER019C-A	YDR050C	YER120W	YOR091W
YDR405W	YML001W	YLR033W	YJR100C	YBR017C	YDR007W	YDR064W	YDR388W
YBR173C	YHL015W	YIL053W	YPR108W	YLL050C	YAL017W	YLR406C	YER128W
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YNL121C	YPR192W	YIL161W	YCR069W	YNL016W	YEL077C	YLR066W	YIL046W
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YER072W	YHR087W	YGR034W	YLR258W	YPR151C	YGR037C	YBR094W	YDR289C
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YGL058W	YKL210W	YHR170W	YGL011C	YOR206W	YDR385W	YBL113C	YJR064W
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YGR256W	YPL117C	YIL055C	YMR011W	YLR300W	YOR023C	YLR193C	YGR170W
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YGL055W	YFR050C	YNL305C	YHR098C	YJR086W	YER154W	YGR043C	YDL181W
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YGL056C	YAL003W	YKL164C	YMR083W	YDR196C	YAL041W	YMR062C	YJR009C
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YLR395C	YPL059W	YPL249C-A	YBR263W	YBR011C	YGR118W	YIL014C-A	YER009W
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YBL086C	YLR150W	YOR062C	YKR057W
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YFL041W	YAL038W	YDL097C	YCR094W
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YJR104C	YOR228C	YIL024C	YBR016W
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YHR081W	YPR134W	YCL067C	YGR080W
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YHR033W	YMR304W	YNR015W	
YOR072W	YGR189C	YDL134C	
YDR264C	YER165W	YGL087C	

Q Protease	Probability
Ty element transposition	2.21E-28
transposition	5.54E-27
transposition, DNA-mediated	5.54E-27
DNA recombination	3.15E-15
DNA metabolism	4.82E-06
protein targeting to mitochondrion	0.00014
homeostasis	0.00017
cellular localization	0.00027
ion homeostasis	0.00039
establishment of cellular localization	0.00041
protein folding	0.00042
intracellular transport	0.00044
cell homeostasis	0.00056
nitrogen compound biosynthesis	0.0012
amino acid and derivative metabolism	0.0012
amine biosynthesis	0.0012
establishment of protein localization	0.00143
cofactor metabolism	0.00164
cell ion homeostasis	0.00168
cation homeostasis	0.00194
regulation of pH	0.00198
protein localization	0.00207
protein targeting	0.00236
amino acid biosynthesis	0.00245
amine metabolism	0.00249
monovalent inorganic cation homeostasis	0.00271
intracellular protein transport	0.00286
nitrogen compound metabolism	0.00306
amino acid metabolism	0.00306
protein transport	0.00329
asparagine metabolism	0.00336
regulation of translation	0.00441
organic acid metabolism	0.00463
carboxylic acid metabolism	0.00463
regulation of protein biosynthesis	0.00553
aspartate family amino acid catabolism	0.00555
generation of precursor metabolites and energy	0.00583
aspartate family amino acid metabolism	0.00617
coenzyme metabolism	0.00677
cellular response to nitrogen levels	0.00856
asparagine catabolism	0.00856
cellular response to nitrogen starvation	0.00856
iron ion homeostasis	0.00917
threonine metabolism	0.00935
glutamine family amino acid metabolism	0.00963
biogenic amine biosynthesis	0.0116
glutamine family amino acid biosynthesis	0.01184
malate metabolism	0.01235
water-soluble vitamin metabolism	0.01408
vitamin metabolism	0.01408
ion transport	0.01452
amino acid derivative metabolism	0.01487
vacuolar acidification	0.0153
hydrogen ion homeostasis	0.0153
pH reduction	0.0153
proton transport	0.0153
serine family amino acid metabolism	0.0153
cellular pH reduction	0.0153

regulation of cellular pH	0.0153
hydrogen transport	0.0153
pyridine nucleotide metabolism	0.01616
ribosomal small subunit assembly and maintenance	0.0182
cation transport	0.01821
energy derivation by oxidation of organic compounds	0.01923
biogenic amine metabolism	0.01931
response to inorganic substance	0.01979
amino acid derivative biosynthesis	0.01979
regulation of protein metabolism	0.02023
tryptophan metabolism	0.0222
indole and derivative metabolism	0.0222
indolalkylamine biosynthesis	0.0222
indole derivative metabolism	0.0222
indole derivative biosynthesis	0.0222
indolalkylamine metabolism	0.0222
aromatic amino acid family biosynthesis, anthranilate pathway	0.0222
tryptophan biosynthesis	0.0222
SRP-dependent cotranslational protein targeting to membrane, translocation	0.0222
oxidoreduction coenzyme metabolism	0.02238
protein import	0.02268
regulation of biosynthesis	0.02341
regulation of cellular biosynthesis	0.02341
metal ion homeostasis	0.02475
protein import into mitochondrial matrix	0.02515
main pathways of carbohydrate metabolism	0.02537
cofactor biosynthesis	0.02537
homoserine metabolism	0.02582
signal peptide processing	0.02582
glyoxylate cycle	0.02611
ribosomal small subunit export from nucleus	0.02611
glyoxylate metabolism	0.02611
budding cell bud growth	0.02739
alcohol biosynthesis	0.02739
non-developmental growth	0.02739
coenzyme biosynthesis	0.02765
nucleotide metabolism	0.02796
cell budding	0.03545
asexual reproduction	0.03545
peptide metabolism	0.03906
protein secretion	0.03906
heterocycle metabolism	0.04008
spermidine biosynthesis	0.04027
nicotinate nucleotide salvage	0.04027
pyridine nucleotide salvage	0.04027
GDP-mannose biosynthesis	0.04027
S-adenosylmethionine transport	0.04027
glutathione biosynthesis	0.04027
nucleotide salvage	0.04027
nucleotide-sugar biosynthesis	0.04027
spermidine metabolism	0.04027
mannose biosynthesis	0.04027
GDP-mannose metabolism	0.04027
nicotinate nucleotide metabolism	0.04027
lysyl-tRNA aminoacylation	0.04027
SRP-dependent cotranslational protein targeting to membrane	0.04133
peroxisome organization and biogenesis	0.04146
growth	0.04212
serine family amino acid biosynthesis	0.04306

response to starvation	0.0431
branched chain family amino acid metabolism	0.0431
cellular response to starvation	0.0431
cellular response to extracellular stimulus	0.0431
cellular response to stimulus	0.0431
cellular response to nutrient levels	0.0431
protein modification	0.04387
ubiquitin cycle	0.04543
regulation of translational initiation	0.04553
response to copper ion	0.04553
protein import into mitochondrial intermembrane space	0.04553
proteasome assembly	0.04553
sulfur amino acid transport	0.04553
response to extracellular stimulus	0.04709
response to nutrient levels	0.04709
response to external stimulus	0.04709
di-, tri-valent inorganic cation homeostasis	0.05078
nucleobase biosynthesis	0.0511
ribosomal large subunit biogenesis	0.0511
monovalent inorganic cation transport	0.05111
protein processing	0.05385
response to metal ion	0.05462
siderophore transport	0.05552
protein import into mitochondrial inner membrane	0.05552
glycerol metabolism	0.05552
polyol metabolism	0.05552
ribonucleotide biosynthesis	0.05562
glutamate biosynthesis	0.05678
alcohol metabolism	0.05945
phosphorylation	0.06599
histone acetylation	0.0671
thiamin and derivative biosynthesis	0.06784
negative regulation of translation	0.07031
manganese ion transport	0.07031
cytokinesis, completion of separation	0.07031
negative regulation of cellular biosynthesis	0.07031
microautophagy	0.07031
L-amino acid transport	0.07031
negative regulation of protein biosynthesis	0.07031
poly(A)+ mRNA export from nucleus	0.07031
mitochondrial protein processing	0.07031
negative regulation of biosynthesis	0.07031
dicarboxylic acid metabolism	0.07031
invasive growth (sensu Saccharomyces)	0.07187
ribonucleotide metabolism	0.07268
NADPH regeneration	0.07273
cotranslational protein targeting to membrane	0.07468
protein catabolism	0.0747
iron-sulfur cluster assembly	0.07517
metallo-sulfur cluster assembly	0.07517
budding cell isotropic bud growth	0.07517
cell communication	0.07608
vacuolar transport	0.07674
hexose biosynthesis	0.0788
monosaccharide biosynthesis	0.0788
amino acid catabolism	0.0788
vesicle fusion	0.0788
nucleotide biosynthesis	0.0798
protein targeting to ER	0.0811

nucleobase metabolism	0.0811
proline biosynthesis	0.08188
mannose metabolism	0.08188
sodium ion homeostasis	0.08188
positive regulation of cellular biosynthesis	0.08188
vesicle coating	0.08188
glycerol catabolism	0.08188
positive regulation of protein biosynthesis	0.08188
homoserine biosynthesis	0.08188
positive regulation of translation	0.08188
positive regulation of protein metabolism	0.08188
polyol biosynthesis	0.08188
polyol catabolism	0.08188
threonine catabolism	0.08188
glycerol biosynthesis	0.08188
positive regulation of biosynthesis	0.08188
transition metal ion homeostasis	0.0819
purine ribonucleotide biosynthesis	0.08216
tricarboxylic acid cycle intermediate metabolism	0.08275
ribonucleoside triphosphate biosynthesis	0.08852
ribonucleoside triphosphate metabolism	0.08852
acetyl-CoA catabolism	0.09088
negative regulation of protein metabolism	0.09088
protein targeting to peroxisome	0.09088
pyrimidine base biosynthesis	0.09088
tricarboxylic acid cycle	0.09088
nicotinamide metabolism	0.09305
cellular protein catabolism	0.09447
phosphorus metabolism	0.09468
phosphate metabolism	0.09468
ubiquitin-dependent protein catabolism	0.09563
modification-dependent protein catabolism	0.09563
modification-dependent macromolecule catabolism	0.09563
regulation of cell redox homeostasis	0.09783
cell redox homeostasis	0.09783
thiamin and derivative metabolism	0.09934
protein refolding	0.09989
phosphatidylcholine biosynthesis	0.09989
NAD biosynthesis	0.09989
calcium-mediated signaling	0.09989
'de novo' protein folding	0.09989
Not yet annotated	

NQ Protease	YPR062W	YJL012C-A	YMR305C
Gene list	YLR109W	YGR170W	YOR144C
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YMR058W	YLR161W	YOR192C-A	YKL013C
YPR073C	YIR029W	YKR084C	YIL065C
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YNL307C	YPR198W	YBR280C	YIL147C
YPR013C	YFL067W	YPL195W	YGL231C
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YPR128C	YER096W	YNL336W	YGL245W
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YPL179W	YLL067C	YJR086W	YGL248W
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YDR494W	YPL169C	YDR333C	
YLR462W	YBR222C	YDL120W	
YGR138C	YLR465C	YGR153W	

GO_term	Probability
regulation of signal transduction	0.00096
1,6-beta-glucan biosynthesis	0.00375
transcription from RNA polymerase I promoter	0.0043
1,6-beta-glucan metabolism	0.00577
cortical cytoskeleton organization and biogenesis	0.00577
cortical actin cytoskeleton organization and biogenesis	0.00577
vitamin B6 metabolism	0.01415
beta-glucan biosynthesis	0.01415
pyridoxine metabolism	0.01415
phosphorus metabolism	0.01418
phosphate metabolism	0.01418
signal transduction	0.01647
beta-glucan metabolism	0.01766
protein amino acid phosphorylation	0.01802
phosphorylation	0.01827
ergosterol metabolism	0.01906
ergosterol biosynthesis	0.01906
endocytosis	0.03028
cell communication	0.03131
sterol biosynthesis	0.03302
biopolymer biosynthesis	0.03858
polysaccharide biosynthesis	0.03858
actin cortical patch assembly	0.03976
actin filament organization	0.04907
peroxisome organization and biogenesis	0.05443
steroid biosynthesis	0.05443
thiamin biosynthesis	0.05616
response to metal ion	0.05616
sterol metabolism	0.05792
transcription from RNA polymerase III promoter	0.05792
cellular lipid metabolism	0.06017
cell wall polysaccharide biosynthesis (sensu Fungi)	0.06207
thiamin and derivative biosynthesis	0.06207
thiamin metabolism	0.06207
protein deubiquitination	0.06818
cell surface receptor linked signal transduction	0.069
thiamin and derivative metabolism	0.07448
glucan biosynthesis	0.07448
lipid metabolism	0.07952
response to inorganic substance	0.08096
steroid metabolism	0.08941
translational initiation	0.09376
signal transduction during conjugation with cellular fusion	0.09441
regulation of conjugation with cellular fusion	0.09441
regulation of conjugation	0.09441
pheromone-dependent signal transduction during conjugation with cellular fusion	0.09441
Not yet annotated	



Stationary	YOR171C	YPL013C	YER004W	YAL053W	YOR256C
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protease	YDL083C	YJL048C	YJR121W	YJL091C	YCR024C-A
gene list	YER006W	YOL129W	YLR069C	YJL217W	YPL223C
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YPL231W	YGL053W	YKL103C	YGL030W	YGL126W	YJR044C
YKL141W	YKL186C	YCR031C	YFL018C	YDR025W	YGR135W
YIL069C	YGR254W	YML128C	YNL105W	YMR297W	YBL003C
YLR163C	YBL099W	YDR385W	YNR017W	YPL154C	YOL126C
YPL004C	YLR270W	YDL173W	YDR134C	YHR139C	YJL138C
YKL164C	YDR155C	YDR533C	YJR093C	YOR142W	YOR027W
YOR317W	YDR098C	YGR146C	YLR158C	YPL247C	YER024W
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YKL163W	YMR008C	YGR234W	YPL203W	YJL066C	YMR295C
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Stationary phase protease	Probability
generation of precursor metabolites and energy	9.64E-13
main pathways of carbohydrate metabolism	3.94E-12
Ty element transposition	4.78E-10
transposition, DNA-mediated	7.30E-10
transposition	7.30E-10
energy derivation by oxidation of organic compounds	9.35E-10
cofactor metabolism	2.04E-09
coenzyme metabolism	2.44E-09
organic acid metabolism	1.77E-08
carboxylic acid metabolism	1.77E-08
carbohydrate metabolism	1.10E-07
acetyl-CoA metabolism	1.59E-07
tricarboxylic acid cycle intermediate metabolism	4.12E-07
cellular carbohydrate metabolism	5.03E-07
tricarboxylic acid cycle	6.56E-07
acetyl-CoA catabolism	6.56E-07
coenzyme catabolism	2.75E-06
cofactor catabolism	5.23E-06
pyruvate metabolism	8.83E-06
DNA recombination	1.14E-05
alcohol biosynthesis	1.37E-05
amino acid biosynthesis	2.05E-05
hydrogen transport	3.07E-05
proton transport	3.07E-05
glutamine family amino acid metabolism	3.45E-05
nucleotide metabolism	3.56E-05
hexose biosynthesis	4.86E-05
monosaccharide biosynthesis	4.86E-05
nitrogen compound biosynthesis	5.46E-05
amine biosynthesis	5.46E-05
glucose metabolism	5.96E-05
oxidative phosphorylation	8.79E-05
catabolism	8.83E-05
hexose metabolism	9.39E-05
cellular catabolism	9.95E-05
glutamine family amino acid biosynthesis	0.00011
glutamate metabolism	0.00015
monosaccharide metabolism	0.00017
alcohol metabolism	0.00019
gluconeogenesis	0.00025
monovalent inorganic cation transport	0.00033
pyridine nucleotide metabolism	0.00036
vitamin metabolism	0.00036
water-soluble vitamin metabolism	0.00036
carbohydrate biosynthesis	0.00052
cellular respiration	0.00053
glutamate biosynthesis	0.00055
purine ribonucleoside triphosphate metabolism	0.00061
purine ribonucleoside triphosphate biosynthesis	0.00061
purine nucleoside triphosphate metabolism	0.00061
purine nucleoside triphosphate biosynthesis	0.00061
cofactor biosynthesis	0.00064
glucose catabolism	0.00065
aerobic respiration	0.00078
hexose catabolism	0.00088
NADPH regeneration	0.00093
ATP metabolism	0.00095
nucleoside phosphate metabolism	0.00095

energy coupled proton transport, down electrochemical gradient	0.00095
ATP synthesis coupled proton transport	0.00095
ATP biosynthesis	0.00095
oxidoreduction coenzyme metabolism	0.00101
cell wall organization and biogenesis	0.00102
external encapsulating structure organization and biogenesis	0.00102
homeostasis	0.00107
alcohol catabolism	0.00112
nicotinamide metabolism	0.00117
ribonucleoside triphosphate biosynthesis	0.00127
ribonucleoside triphosphate metabolism	0.00127
monosaccharide catabolism	0.00132
purine ribonucleotide biosynthesis	0.00132
response to stress	0.00164
isocitrate metabolism	0.00201
coenzyme biosynthesis	0.00204
purine ribonucleotide metabolism	0.00219
ribonucleotide biosynthesis	0.00219
ribosomal small subunit assembly and maintenance	0.00223
nucleoside triphosphate biosynthesis	0.00244
phosphorylation	0.00269
amino acid metabolism	0.00275
endocytosis	0.00275
cell homeostasis	0.00283
cation transport	0.00288
protein targeting to mitochondrion	0.00297
ion transport	0.00315
nucleoside triphosphate metabolism	0.00329
amino acid and derivative metabolism	0.00334
NADP metabolism	0.00341
ribonucleotide metabolism	0.0035
nucleotide biosynthesis	0.00364
dicarboxylic acid metabolism	0.00434
purine nucleotide biosynthesis	0.00436
group transfer coenzyme metabolism	0.00436
response to oxidative stress	0.00437
mitochondrion distribution	0.00513
mitochondrion localization	0.00513
mitochondrion inheritance	0.00513
regulation of protein metabolism	0.0054
calcium-dependent cell-cell adhesion	0.00541
flocculation via cell wall protein-carbohydrate interaction	0.00541
asparagine metabolism	0.00541
flocculation	0.00541
mitochondrial electron transport, succinate to ubiquinone	0.00561
regulation of transcription from RNA polymerase I promoter	0.00561
glycolysis	0.00598
electron transport	0.00612
oxygen and reactive oxygen species metabolism	0.00621
ion homeostasis	0.00637
regulation of biosynthesis	0.0065
regulation of cellular biosynthesis	0.0065
protein folding	0.00653
protein catabolism	0.00667
cellular protein catabolism	0.0074
purine nucleotide metabolism	0.00802
regulation of transcription from RNA polymerase III promoter	0.00816
heterophilic cell adhesion	0.00851
aspartate family amino acid catabolism	0.00882

cellular macromolecule catabolism	0.00918
regulation of translation	0.00966
response to stimulus	0.01038
amine metabolism	0.01079
regulation of pH	0.01131
regulation of protein biosynthesis	0.01195
cellular response to nitrogen starvation	0.01197
asparagine catabolism	0.01197
cellular response to nitrogen levels	0.01197
regulation of translational initiation	0.01197
cell-cell adhesion	0.01236
cell redox homeostasis	0.01354
regulation of cell redox homeostasis	0.01354
pentose-phosphate shunt	0.01354
cellular localization	0.01364
ATP synthesis coupled electron transport (sensu Eukaryota)	0.01366
ATP synthesis coupled electron transport	0.01366
response to water deprivation	0.01385
response to water	0.01385
pyridoxine metabolism	0.01385
vitamin B6 metabolism	0.01385
response to desiccation	0.01385
phosphate metabolism	0.01525
phosphorus metabolism	0.01525
macromolecule catabolism	0.0157
malate metabolism	0.01606
cell ion homeostasis	0.01955
nitrogen compound metabolism	0.0197
serine family amino acid biosynthesis	0.0198
mitochondrial protein processing	0.0217
glycine metabolism	0.0217
mitochondrion organization and biogenesis	0.02174
translational initiation	0.02352
cellular response to stimulus	0.02355
response to starvation	0.02355
cellular response to extracellular stimulus	0.02355
cellular response to starvation	0.02355
cellular response to nutrient levels	0.02355
ubiquitin cycle	0.02552
cell adhesion	0.02571
amino acid catabolism	0.02706
proteolysis	0.02725
glutamine family amino acid catabolism	0.02778
proteolysis during cellular protein catabolism	0.03004
aromatic compound biosynthesis	0.03117
fermentation	0.03117
SRP-dependent cotranslational protein targeting to membrane, translocation	0.03205
budding cell isotropic bud growth	0.03205
vacuolar protein catabolism	0.03205
glyoxylate metabolism	0.03356
glyoxylate cycle	0.03356
citrate metabolism	0.03356
fatty acid metabolism	0.03368
NAD biosynthesis	0.0352
organelle inheritance	0.03716
ubiquitin-dependent protein catabolism	0.03828
modification-dependent protein catabolism	0.03828
modification-dependent macromolecule catabolism	0.03828
thiamin and derivative biosynthesis	0.04029



intracellular transport	0.04468
amine catabolism	0.04793
nitrogen compound catabolism	0.04793
positive regulation of gluconeogenesis	0.0481
glycine biosynthesis	0.0481
G-protein signaling, adenylate cyclase activating pathway	0.0481
acetyl-CoA biosynthesis from pyruvate	0.0481
nucleotide-sugar biosynthesis	0.0481
sequestering of metal ion	0.0481
lysyl-tRNA aminoacylation	0.0481
intracellular sequestering of iron ion	0.0481
mannose biosynthesis	0.0481
GDP-mannose metabolism	0.0481
GDP-mannose biosynthesis	0.0481
inositolphosphoceramide metabolism	0.0481
L-serine metabolism	0.0481
L-serine biosynthesis	0.0481
2-oxoglutarate metabolism	0.0481
negative regulation of protein metabolism	0.04947
heterocycle metabolism	0.05163
purine ribonucleoside metabolism	0.05263
cell separation during cytokinesis	0.05263
establishment of cellular localization	0.0539
DNA metabolism	0.05699
cation homeostasis	0.05701
propionate metabolism	0.05786
folic acid and derivative biosynthesis	0.05786
actin filament bundle formation	0.05786
actin cable formation	0.05786
intron homing	0.05786
attachment of GPI anchor to protein	0.05786
protein targeting	0.05881
vitamin biosynthesis	0.05889
water-soluble vitamin biosynthesis	0.05889
'de novo' pyrimidine base biosynthesis	0.06066
cellular pH reduction	0.06182
regulation of cellular pH	0.06182
hydrogen ion homeostasis	0.06182
pH reduction	0.06182
vacuolar acidification	0.06182
serine family amino acid metabolism	0.06182
pigment biosynthesis	0.06333
thiamin and derivative metabolism	0.06333
glucan biosynthesis	0.06333
branched chain family amino acid metabolism	0.06336
aromatic amino acid family biosynthesis	0.06336
carbohydrate catabolism	0.06374
cellular carbohydrate catabolism	0.06374
response to abiotic stimulus	0.06413
monovalent inorganic cation homeostasis	0.06665
protein modification	0.06698
aromatic compound metabolism	0.06976
actin filament organization	0.0723
polyol metabolism	0.07395
purine nucleoside metabolism	0.07395
glycerol metabolism	0.07395
ergosterol biosynthesis	0.0742
ergosterol metabolism	0.0742
response to external stimulus	0.0742

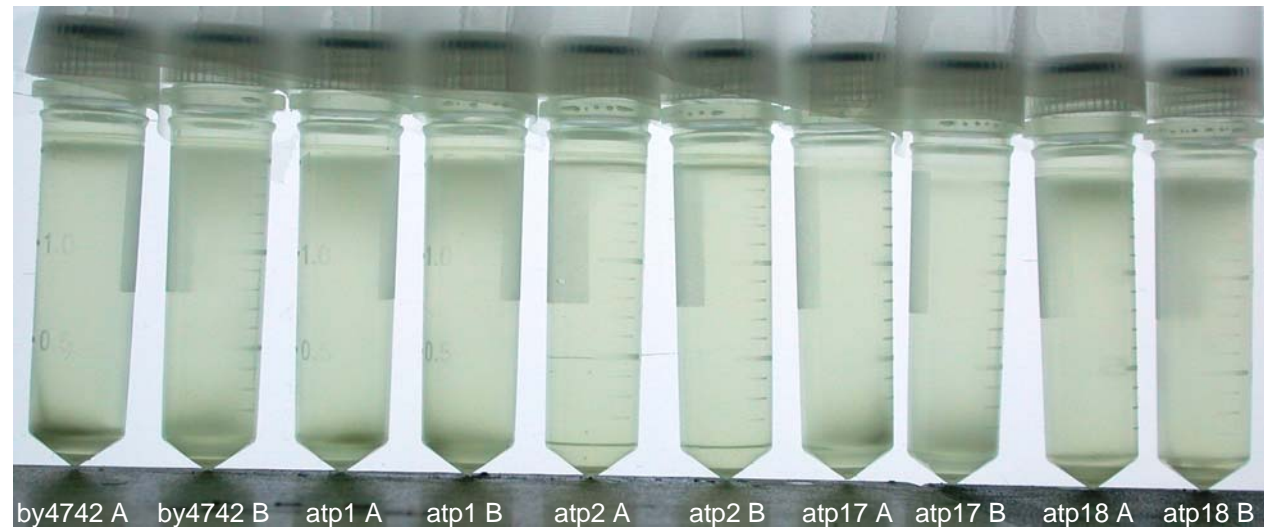
response to extracellular stimulus	0.0742
response to nutrient levels	0.0742
pigment metabolism	0.07733
nucleobase biosynthesis	0.07733
asexual reproduction	0.07889
cell budding	0.07889
NAD metabolism	0.07903
branched chain family amino acid biosynthesis	0.07903
Ras protein signal transduction	0.07933
thiamin biosynthesis	0.07933
transcription from RNA polymerase III promoter	0.0832
intracellular protein transport	0.0881
purine ribonucleoside salvage	0.08837
negative regulation of cellular biosynthesis	0.08837
negative regulation of translation	0.08837
negative regulation of biosynthesis	0.08837
poly(A)+ mRNA export from nucleus	0.08837
negative regulation of protein biosynthesis	0.08837
microautophagy	0.08837
organic cation transport	0.08837
ammonium transport	0.08837
nucleoside salvage	0.08837
cytokinesis, completion of separation	0.08837
protein processing	0.08949
biopolymer catabolism	0.09029
protein import into mitochondrial matrix	0.093
budding cell bud growth	0.09615
non-developmental growth	0.09615
regulation of phosphorylation	0.09681
actin nucleation	0.09681
glycosphingolipid metabolism	0.09681
isoleucine metabolism	0.09681
glycosphingolipid biosynthesis	0.09681
protein-tetrapyrrole linkage	0.09681
protein-heme linkage	0.09681
glycerol biosynthesis	0.09681
mannose metabolism	0.09681
homoserine biosynthesis	0.09681
glycolipid biosynthesis	0.09681
glycolipid metabolism	0.09681
negative regulation of phosphorylation	0.09681
polyol biosynthesis	0.09681
cytochrome c-heme linkage	0.09681
negative regulation of phosphate metabolism	0.09681
thiamin metabolism	0.09734
mRNA polyadenylation	0.09734
RNA polyadenylation	0.09734
establishment of protein localization	0.09795
indolalkylamine metabolism	0.09896
indole derivative biosynthesis	0.09896
iron-sulfur cluster assembly	0.09896
indolalkylamine biosynthesis	0.09896
tryptophan biosynthesis	0.09896
ribonucleoside metabolism	0.09896
arginine biosynthesis	0.09896
tryptophan metabolism	0.09896
pyridine nucleotide biosynthesis	0.09896
metallo-sulfur cluster assembly	0.09896
indole derivative metabolism	0.09896

polyamine transport	0.09896
indole and derivative metabolism	0.09896
aromatic amino acid family biosynthesis, anthranilate pathway	0.09896
aspartate family amino acid metabolism	0.09906
Not yet annotated	

## Aging Genes

YCL025C	YGR237C	YPL145C	YOR268C
YJL129C	YKL027W	YBL066C	YAL067C
YIL094C	YGR054W	YNR049C	YDR018C
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YER091C-A	YKL015W	YER059W	YPR005C
YHR204W	YDR262W	YBR018C	YLR278C
YDL173W	YBR019C	YBR072W	YKL034W
YDL172C	YHR126C	YBL107C	YJL096W
YLL007C	YML066C	YJL132W	YPR029C
YGR057C	YBL042C	YLR187W	YDL049C
YGL197W	YPR031W	YIL168W	YKL150W
YGR027C	YBR030W	YIL121W	YMR118C
YML121W	YHR003C	YNR056C	YDR357C
YHL034C	YBR248C	YPR151C	YKL184W
YLL013C	YKL001C	YGL079W	YBR116C
YBR077C	YKL081W	YIR023W	YFR017C
YJR066W	YHR064C	YGR291C	YNR070W
YEL014C	YER132C	YCL013W	YJL094C
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YGL203C	YDR515W	YPL017C	YPL009C
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YOR179C	YKL068W	YPL150W	YBR040W
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YGR043C	YHR111W	YDL053C	
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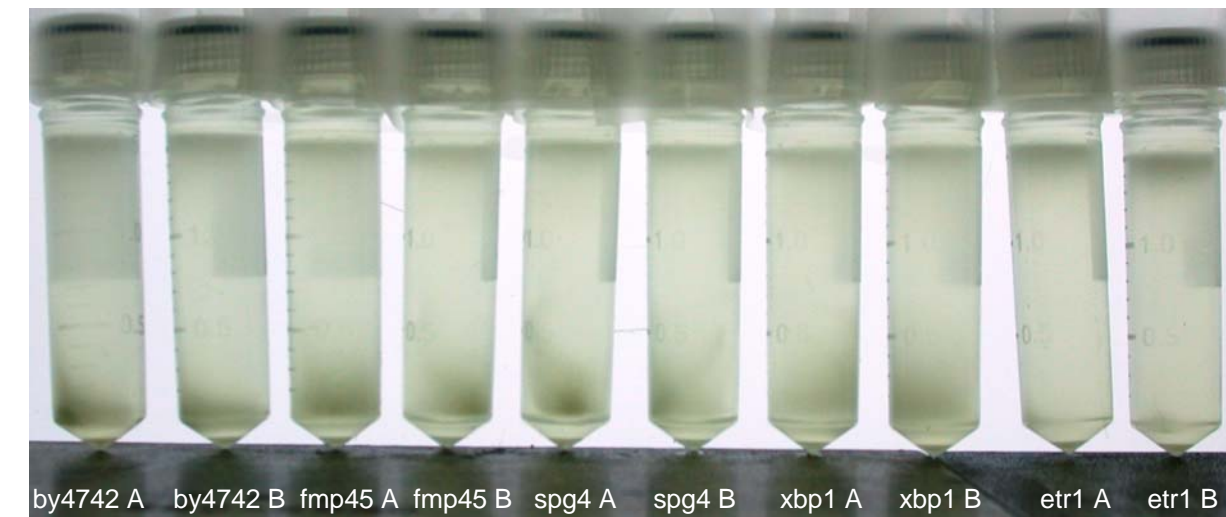
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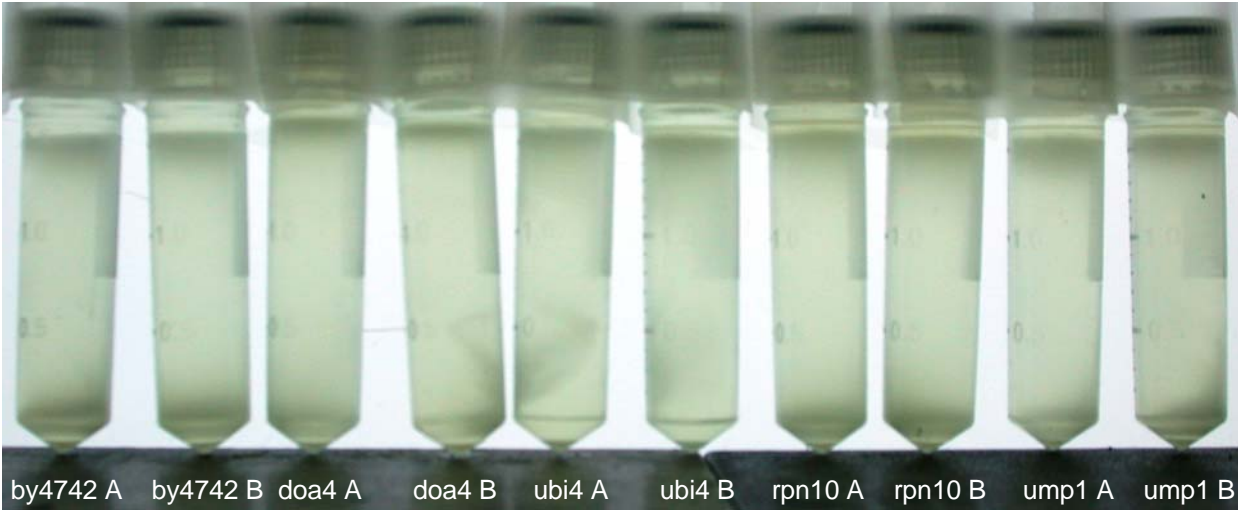
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\*pictures were autocorrected

9/12/07

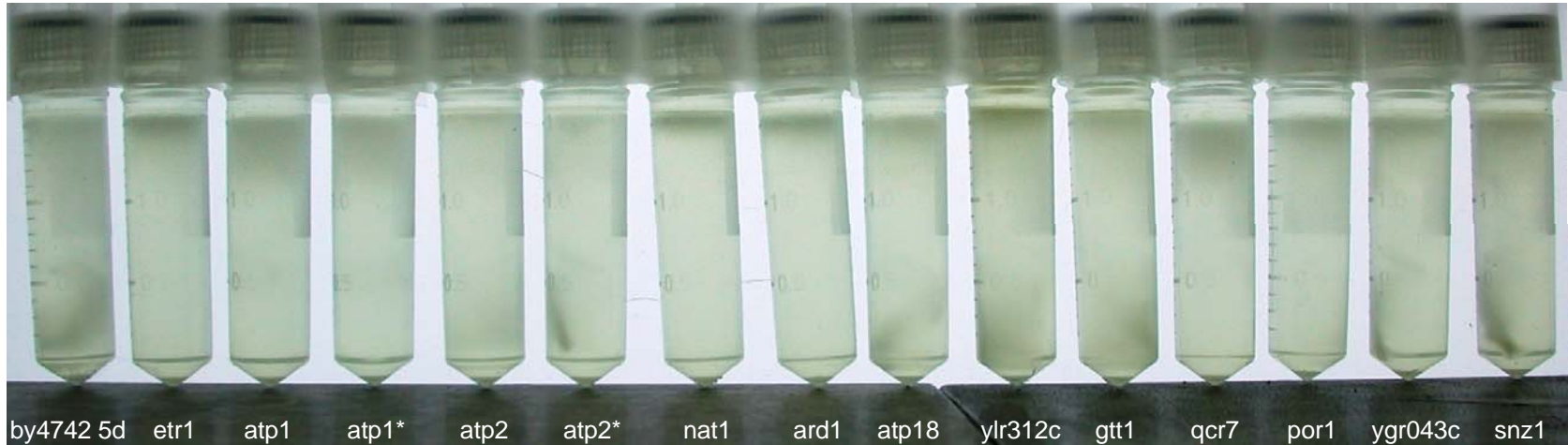


9/12/07



10/16/07

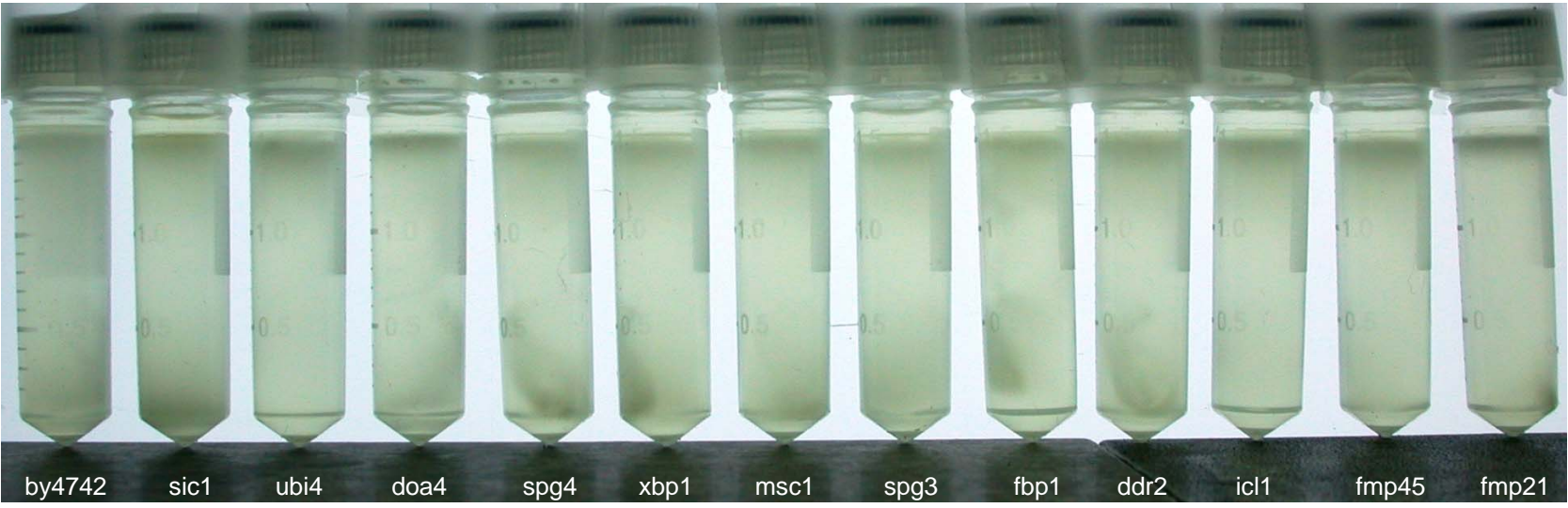
\*pictures were autocorrected



No lower band for etr1, nat1, ard1

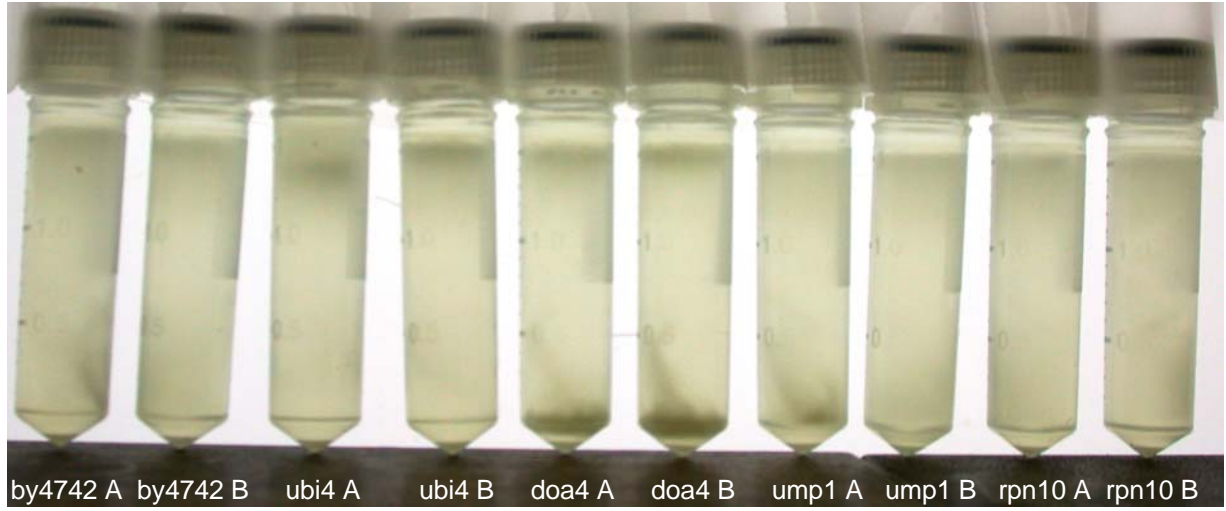
-atp1\* and atp2\* are from the micro titer dishes (deletion set)

10/16/07



10/26/07

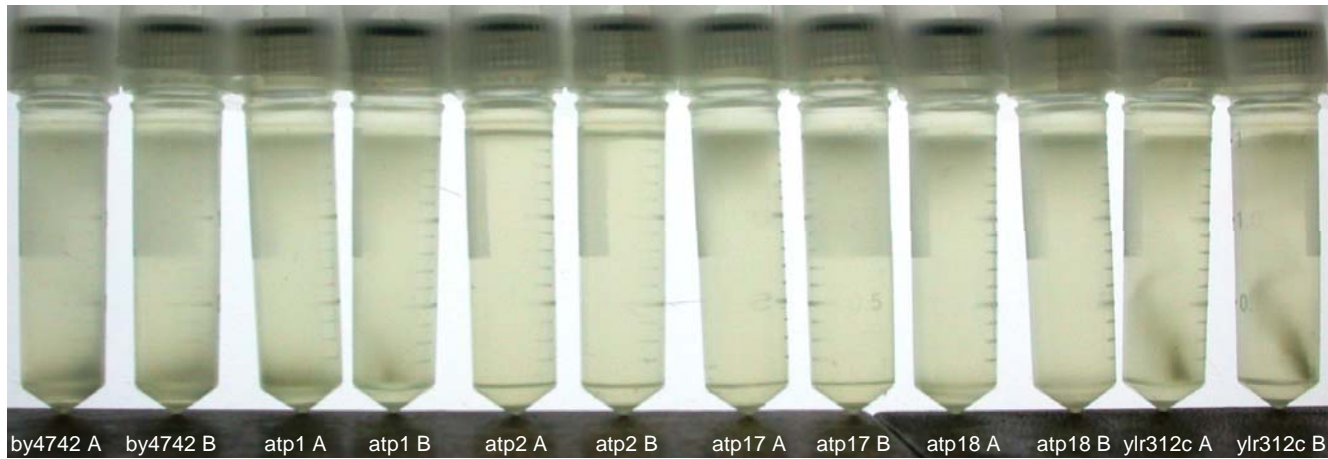
\*pictures were autocorrected



Doa4 seems odd in this picture, look at the high concentration of cells

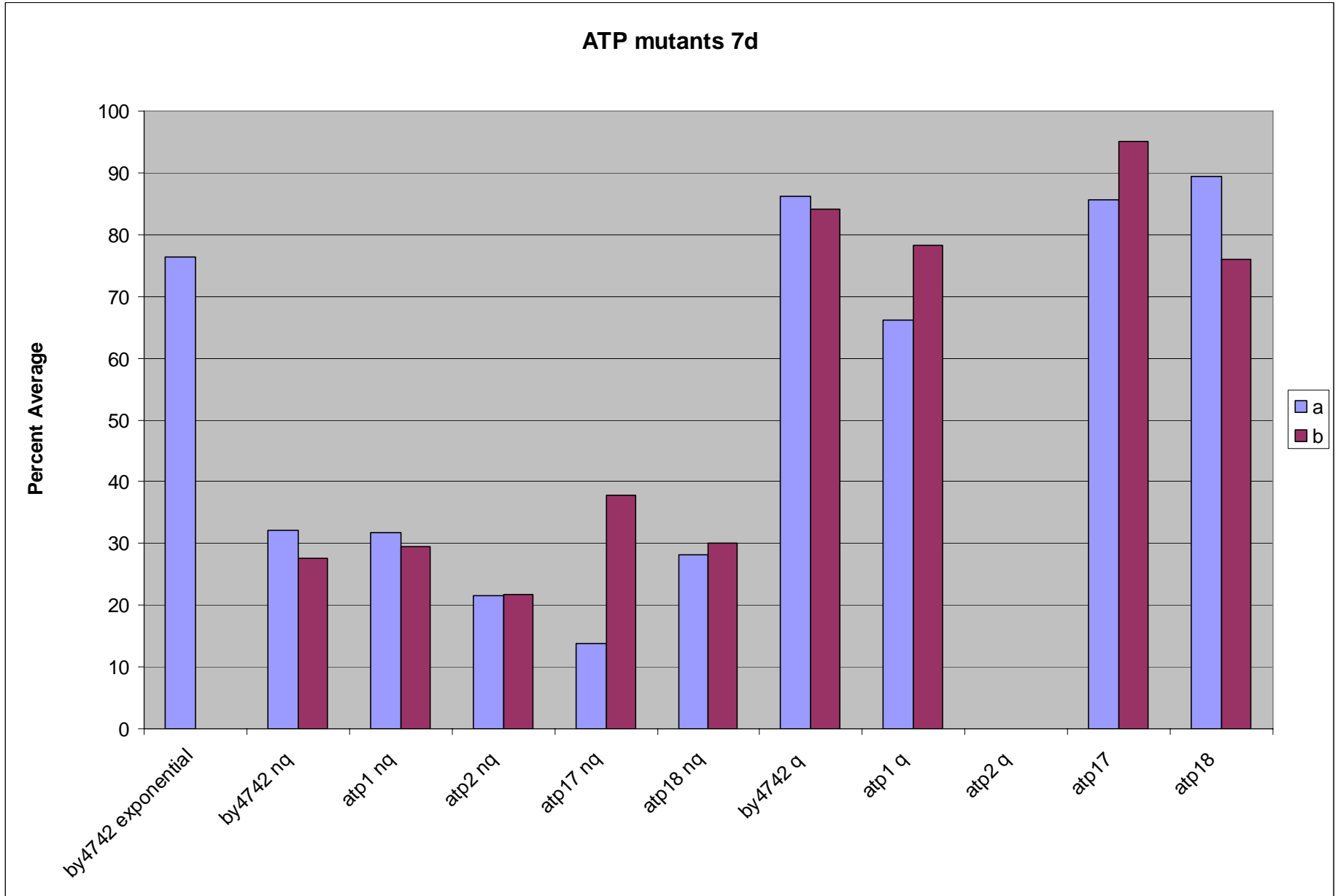
\*picture was autocorrected

11/2/07



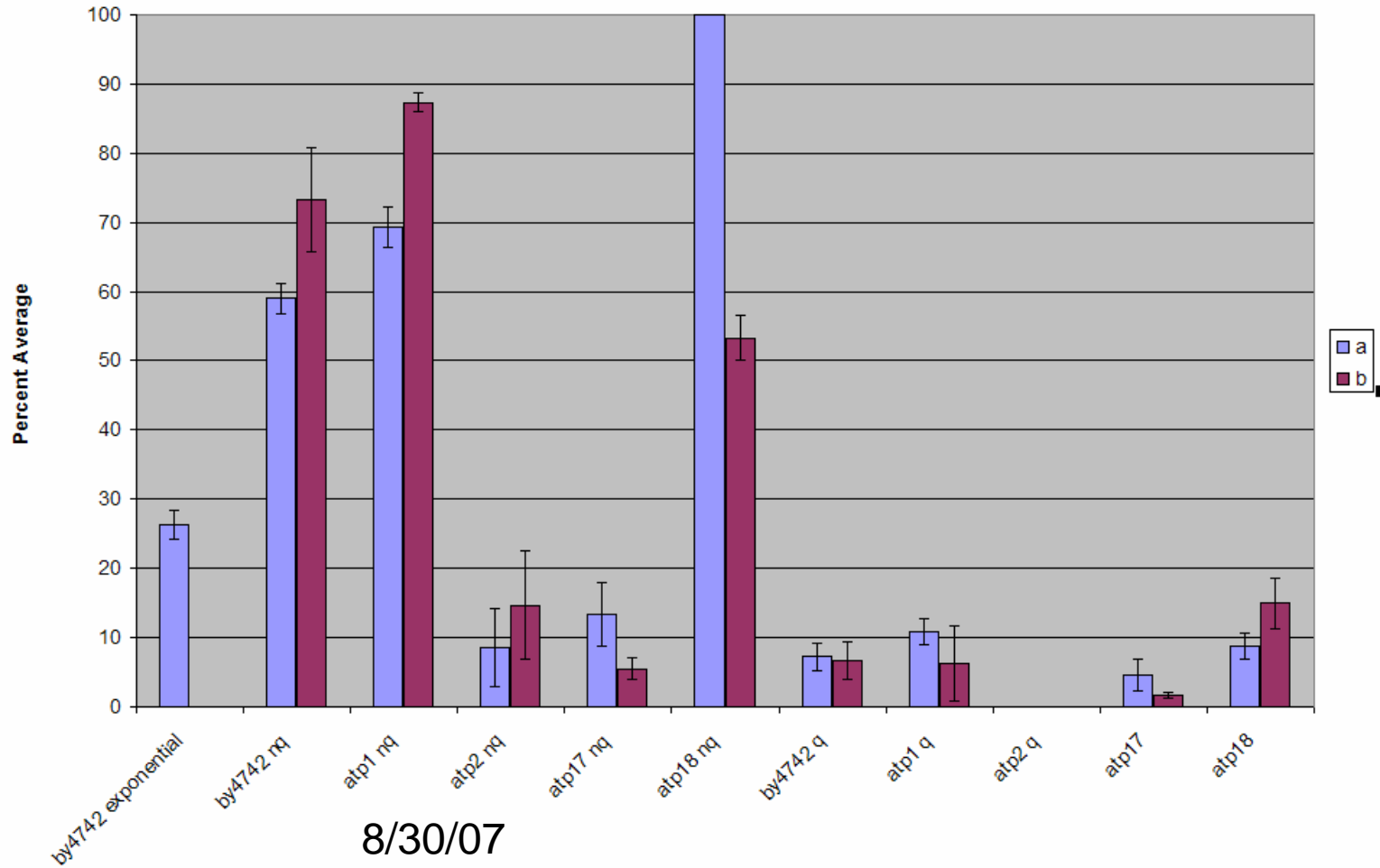
-No lower bands for atp2 and atp17 A&B

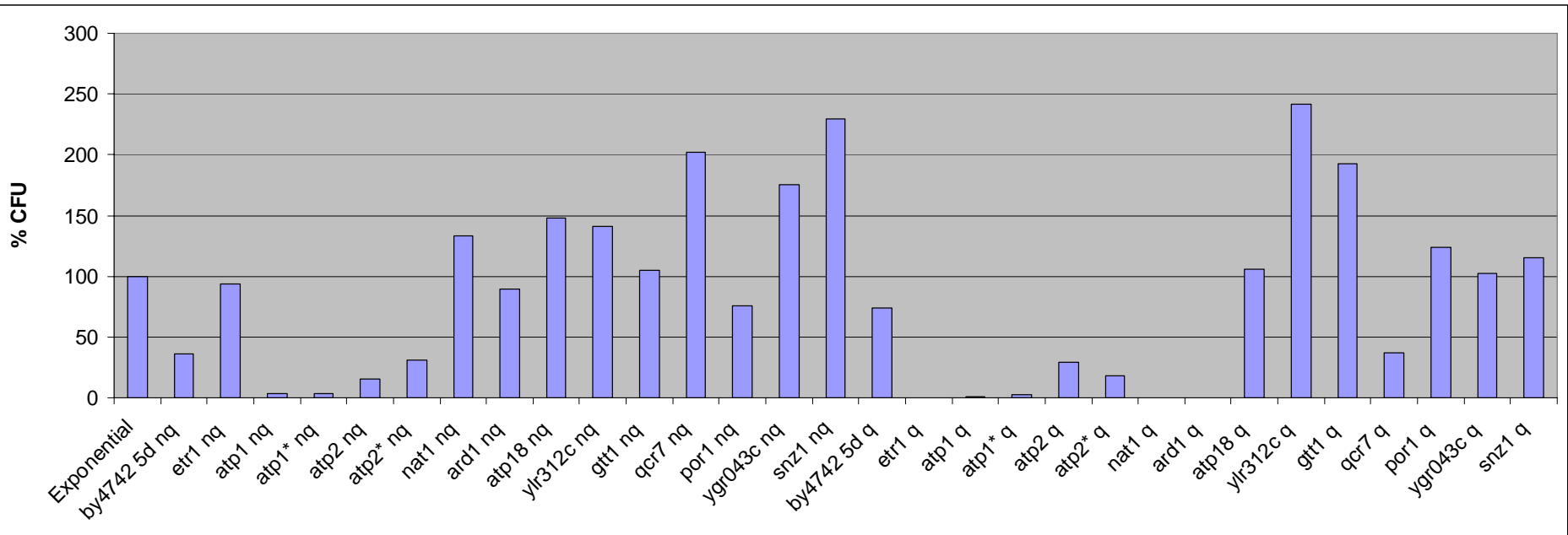




	by4742 ex	by4742 nq	atp1 nq	atp2 nq	atp17 nq	atp18 nq	by4742 q	atp1 q	atp2 q	atp17	atp18
a	26.304	58.9886	69.2987	8.52007	13.2576	100	7.22679	10.8933		4.66288	8.80246
b		73.3279	87.3473	14.7179	5.46455	53.2995	6.75071	6.22748		1.70145	14.9438

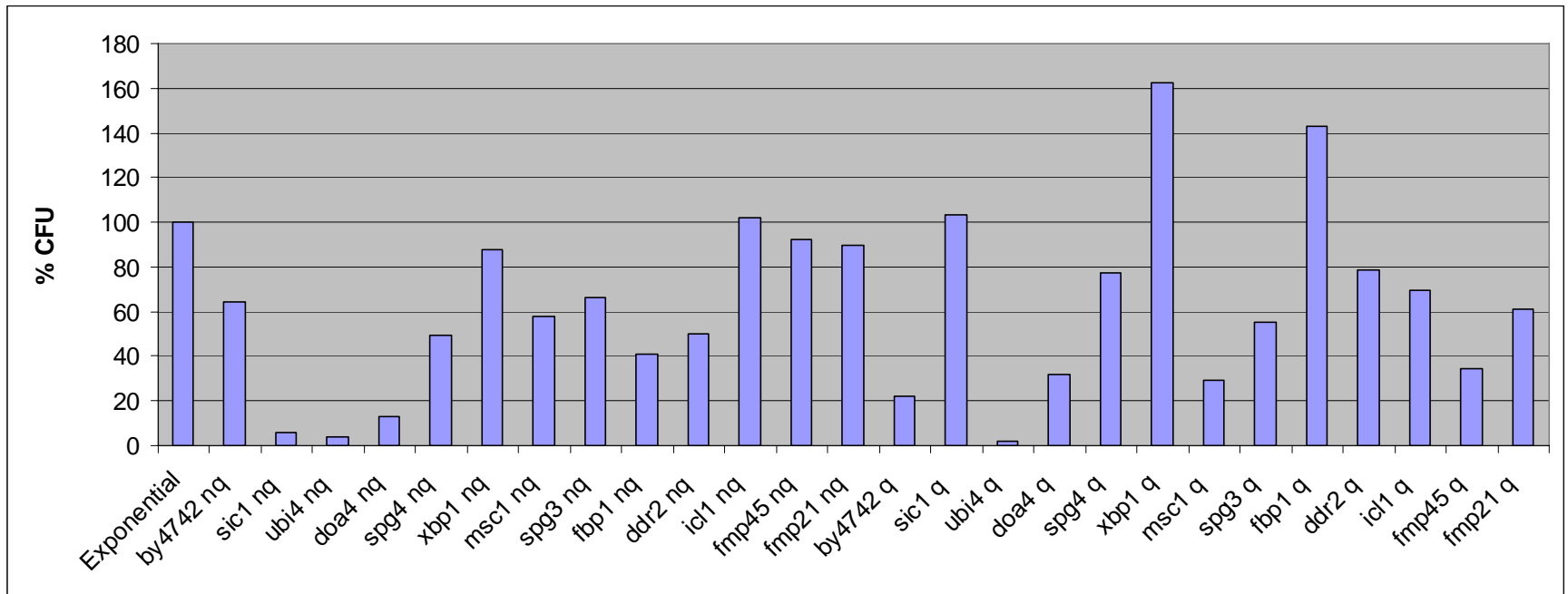
Petites for atp mutants 7d





From 10/16/2007 shows atp1,atp2 acting identically, atp18 different

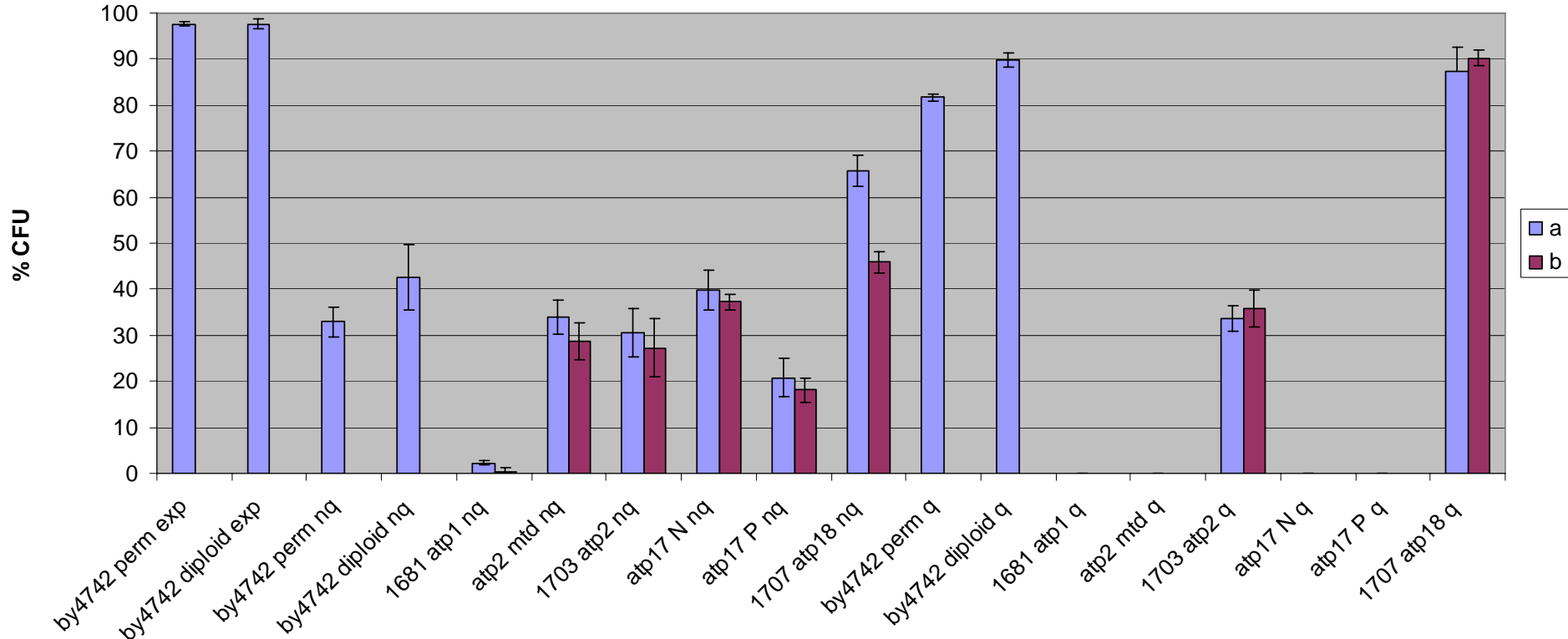
From 10/18/2007



Shows appropriate xbp1 phenotype, ng parental q numbers

11/18/2007

### ATP CFU's



<b>Table 1S. Change in viability and reproductive capacity of mutants from the parental strain</b>						
Group	Strain	Q viability	Q CFU	NQ viability	NQ CFU	Function <sup>a</sup>
1	<i>SPG4</i>	NC	↓ <b>55% ± 5.2</b>	NC	NC	Unknown
2	<i>YLR312C</i> <i>GTT1</i>	NC	↓ <b>79% ± 9.4</b> ↓ <b>71% ± 19.6</b>	NC	↓ <b>75% ± 6.0</b> ↓ <b>54% ± 11.6</b>	Unknown Glutathione transferase <sup>c</sup>
3	<i>YGR043C</i> <i>SNZ1</i> <i>MSC1</i> <i>FMP21</i>	NC	NC	NC	↓ <b>54% ± 13.4</b> ↓ <b>52% ± 17.6</b> ↓ <b>57% ± 16.5</b> ↓ <b>50% ± 10.9</b>	Unknown Vitamin B6 biosynthesis Unknown Unknown <sup>b</sup>
4	<i>XBP1</i> <i>FBP1</i> <i>ATP18</i>	NC	NC	NC	↑ <b>83% ± 50.0</b> ↑ <b>81% ± 32.1</b> ↑ <b>46% ± 26.8</b>	Transcriptional repressor Gluconeogenesis ATP synthesis <sup>b</sup>

<sup>a</sup>*Saccharomyces* Genome Database

<sup>b</sup>mitochondrial

<sup>c</sup>endoplasmic reticulum