Metabolism

amino-acid metabolism

amino-acid biosynthesis

[ORF]	[Gene]	[Encoded or related protein]
YHR037w	*PUT2*	1-pyrroline-5-carboxylate dehydrogenase
YDR035w	*ARO3*	2-dehydro-3-deoxyphosphoheptonate aldolase, phenylalanine-inhibited
YBR249c	*ARO4*	2-dehydro-3-deoxyphosphoheptonate aldolase, tyrosine-inhibited
YNL104c	*LEU4*	2-isopropylmalalate synthase
YGL009c	*LEU1*	3-isopropylmalate dehydratase
YPR167c	*MET16*	3'-phosphoadenylylsulphate reductase
YGR019w	*UGA1*	4-aminobutyrate aminotransferase (GABA transaminase)
YER091c	*MET6*	5-methyltetrahydropteroyltriglutamate-homocysteine methyltransferase
YMR108w	*ILV2*	acetolactate synthase
YCL009c	*ILV6*	acetolactate synthase, regulatory subunit
YER069w	*ARG5,6*	acetylglutamate kinase and acetylglutamyl-phosphate reductase
YJL071w	*ARG2*	acetylglutamate synthase
YOL140w	*ARG8*	acetylornithine aminotransferase
YDR234w	*LYS4*	aconitate hydratase
YER086w	*ILV1*	anabolic serine and threonine dehydratase
YDR354w	*TRP4*	anthranilate phosphoribosyltransferase
YER090w	*TRP2*	anthranilate synthase component I
YKL211c	*TRP3*	anthranilate synthase component II
YJR109c	*CPA2*	arginine-specific carbamoylphosphate synthase, large subunit
YOR303w	*CPA1*	arginine-specific carbamoylphosphate synthase, small subunit
YOL058w	*ARG1*	argininosuccinate synthetase
YHR018c	*ARG4*	arginosuccinate lyase
YDR127w	*ARO1*	arom pentafunctional enzyme
YPR145w	*ASN1*	asparagine synthetase
YGR124w	*ASN2*	asparagine synthetase
YLR027c	*AAT2*	aspartate aminotransferase, cytosolic
YKL106w	*AAT1*	aspartate transaminase, mitochondrial
YDR158w	*HOM2*	aspartate-semialdehyde dehydrogenase
YFR030w	*MET10*	assimilatory sulphite reductase flavin-binding subunit
YER055c	*HIS1*	ATP phosphoribosyltransferase
YCL018w	*LEU2*	β-isopropyl-malate dehydrogenase
YJR148w	*TWT2*	branched-chain amino acid aminotransferase, cytosolic
YHR208w	*TWT1*	branched-chain amino acid aminotransferase, mitochondrial
YGR204w	*ADE3*	C1-tetrahydrofolate synthase, cytoplasmic
YBR084w	*MIS1*	C1-tetrahydrofolate synthase, mitochondrial
YPR060c	*ARO7*	chorismate mutase
YGL148w	*ARO2*	chorismate synthase
YGR155w	*CYS4*	cystathionine β-synthase
YAL012w	*CYS3*	cystathionine γ-lyase
YER023w	*PRO3*	δ 1-pyrroline-5-carboxylate reductase
YHR068w	*DYS1*	deoxyhypusine synthase
YOR236w	*DFR1*	dihydrofolate reductase
YFL018c	*LPD1*	dihydrolipoamide dehydrogenase
YJR016c	*ILV3*	dihydroxy-acid dehydratase
YLR172c	*DPH5*	diphthamide methyltransferase
YKL191w	*DPH2*	diphtheria toxin resistance protein
YOR323c	*PRO2*	γ-glutamyl phosphate reductase
YDR300c	*PRO1*	glutamate 5-kinase
YDL171c	*GLT1*	glutamate synthase (NAPDPH) (GOGAT)
YPR035w	*GLN1*	glutamate-ammonia ligase
YBR248c	*HIS7*	glutamine amidotransferase/cyclase
YFR025c	*HIS2*	histidinol phosphatase
YIL116w	*HIS5*	histidinol-phosphate aminotransferase
YMR038c	*LYS7*	homocitrate dehydrogenase
YDL182w	*LYS20*	homocitrate synthase
YJR139c	*HOM6*	homoserine dehydrogenase
YHR025w	*THR1*	homoserine kinase
YNL277w	*MET2*	homoserine O-acetyltransferase
YOR202w	*HIS3*	imidazoleglycerol-phosphate dehydratase
YLR355c	*ILV5*	ketol-acid reducto-isomerase
YBR115c	*LYS2*	L-aminoadipate-semialdehyde dehydrogenase, large subunit
YGL154c	*LYS5*	L-aminoadipate-semialdehyde dehydrogenase, small subunit
YER052c	*HOM3*	L-aspartate 4-P-transferase
YLR303w	*MET25*	O-acetylhomoserine sulphydrylase
YLR438w	*CAR2*	ornithine aminotransferase
YJL088w	*ARG3*	ornithine carbamoyltransferase
YCL030c	*HIS4*	phosphoribosyl-AMP cyclohydrolase/phosphoribosyl-ATP pyrophosphatase/histidinol dehydrogenase
YDR007w	*TRP1*	phosphoribosylanthranilate isomerase
YGR208w	*SER2*	phosphoserine phosphatase
YOR184w	*SER1*	phosphoserine transaminase
YNL316c	*PHA2*	prephenate dehydratase
YBR166c	*TYR1*	prephenate dehydrogenase (NADP+)
YLR142w	*PUT1*	proline oxidase
YOL064c	*MET22*	protein ser/thr phosphatase
YCR054c	*CTR86*	putative threonine biosynthesis pathway protein
YEL046c	*GLY1*	required for glycine prototrophy in SHMT1 and SHMT2 double mutant
YIR034c	*LYS1*	saccharopine dehydrogenase
YNR050c	*LYS9*	saccharopine dehydrogenase (NADP+, L-glutamate forming)
YCL009c		similarity to acetolactate synthase III small subunit
YLR089c		similarity to alanine transaminases
YGL184c		similarity to cystathionine β-lyase
YHR112c		similarity to cystathionine γ-synthases
YIL074c		similarity to *E. coli* phosphoglycerate dehydrogenase
YGR012w		similarity to *E. nidulans* cysteine synthase
YMR250w		similarity to glutamate decarboxylases
YMR062c		similarity to glutamate N-acetyltransferase
YDL131w		similarity to homocitrate synthases and isopropylmalate synthases
YIL094c		similarity to isopropyl malate and tartrate dehydrogenases
YEL038w	*UTR4*	similarity to *K. oxytoca* enolase-phosphatase E-1
YML082w		similarity to *N. crassa* O-succinylhomoserine (thiol)-lyase
YJR130c		similarity to O-succinylhomoserine (thiol)-lyase
YKL215c		similarity to *P. aeruginosa* hyuA and hyuB
YOR280c		similarity to *S. pombe* dihydrofolate reductase
YFL030w		similarity to several transaminases
YOR108w		strong similarity to 2-isopropylmalate synthase
YAL004w		strong similarity to *A. klebsiana* glutamate dehydrogenase
YDR111c		strong similarity to alanine transaminase
YFR055w		strong similarity to β-cystathionases
YHR033w		strong similarity to glutamate 5-kinase
YHR070w		strong similarity to *N. crassa* met-10+ protein
YLL058w		strong similarity to *N. crassa* O-succinylhomoserine (thiol)-lyase
YER081w		strong similarity to phosphoglycerate dehydrogenases
YJR010w	*MET3*	sulphate adenylyltransferase
YCR053w	*THR4*	threonine synthase (o-p-homoserine p-lyase)
YPR074c	*TKL1*	transketolase 1
YBR117c	*TKL2*	transketolase 2
YGL026c	*TRP5*	tryptophan synthase
YML096w		weak similarity to asparagine synthases

regulation of amino-acid metabolism

YDR173c	*ARG82*	arginine metabolism transcription factor
YKL112w	*ABF1*	ARS-binding factor
YER055c	*HIS1*	ATP phosphoribosyltransferase
YBR253w	*SRB6*	DNA-directed RNA polymerase II suppressor protein
YNL236w	*SIN4*	global regulator protein

YFL010w-a	*AUA1*	involved in ammonia regulation of amino-acid transport
YIL046w	*MET30*	involved in regulation of sulphur assimilation genes
YJR060w	*CBF1*	kinetochore protein
YDR159w	*SAC3*	leucine permease transcriptional regulator
YDR207c	*UME6*	negative transcriptional regulator
YKL015w	*PUT3*	positive activator of the proline utilisation pathway
YCR028c	*FEN2*	similarity to allantoate permease transporter
YMR116c		strong similarity to *N. crassa* CPC2 protein
YKR099w	*BAS1*	transcription factor
YLR098c	*CHA4*	transcription factor
YLR451w	*LEU3*	transcription factor
YMR042w	*ARG80*	transcription factor involved in arginine metabolism
YML099c	*ARG81*	transcription factor involved in arginine metabolism
YMR043w	*MCM1*	transcription factor of the MADS box family
YIR023w	*DAL81*	transcriptional activator for allantoin and GABA catabolic genes
YEL009c	*GCN4*	transcriptional activator of amino acid biosynthetic genes
YDR034c	*LYS14*	transcriptional activator of lysine pathway genes
YIR017c	*MET28*	transcriptional activator of sulphur amino acid metabolism
YNL103w	*MET4*	transcriptional activator of sulphur metabolism

amino-acid transport

YBR068c	*BAP2*	amino-acid permease
YEL063c	*CAN1*	amino-acid permease
YBR069c	*VAP1*	amino-acid permease
YCL025c	*AGP1*	asparagine and glutamine permease
YPL265w	*DIP5*	dicarboxylic amino-acid permease
YKR039w	*GAP1*	general amino-acid permease
YDR508c	*GNP1*	high-affinity glutamine permease
YGR055w	*MUP1*	high-affinity methionine permease
YNL270c	*ALP1*	high-affinity permease for basic amino acids
YOL020w	*SCM2*	high-affinity tryptophan transport protein
YGR191w	*HIP1*	histidine permease
YLR375w	*STP3*	involved in pre-tRNA splicing and in uptake of branched-chain amino acids
YDL048c	*STP4*	involved in pre-tRNA splicing and in uptake of branched-chain amino acids
YNL268w	*LYP1*	lysine-specific high affinity permease
YOR130c	*ARG11*	member of the mitochondrial carrier family (MCF)
YHL036w	*MUP3*	methionine permease
YOR348c	*PUT4*	proline and γ-aminobutyrate permease
YFL055w		similarity to Gap1p and other amino-acid permeases
YDR160w		similarity to lysine transport protein LYP1
YLL061w		strong similarity to amino-acid transport protein Gap1p
YPL274w		strong similarity to amino-acid transport proteins
YDR046c	*(PAP1)*	strong similarity to amino-acid transport proteins
YBR132c		strong similarity to amino-acid permeases

amino-acid degradation

YPL111w	*CAR1*	arginase
YDR321w	*ASP1*	asparaginase
YOR375c	*GDH1*	glutamate dehydrogenase (NADP+)
YMR189w	*GSD2*	glycine decarboxylase subunit
YDR019c	*GCV1*	glycine decarboxylase T subunit
YDR272w	*GLO2*	glyoxalase II
YOR040w	*GLO4*	glyoxalase II
YLR155c	*ASP3A*	L-asparaginase II
YLR157c	*ASP3B*	L-asparaginase II
YLR158c	*ASP3C*	L-asparaginase II
YLR160c	*ASP3D*	L-asparaginase II
YCL064c	*CHA1*	L-serine/L-threonine deaminase
YAL062w	*GDH3*	NADP-glutamate dehydrogenase
YDL215c	*GDH2*	NAD-specific glutamate dehydrogenase (NAD)
YKL184w	*ORD1*	ornithine decarboxylase
YLR142w	*PUT1*	proline oxidase
YLR180w	*SAM1*	S-adenosylmethionine synthetase 1
YDR502c	*SAM2*	S-adenosylmethionine synthetase 2
YIL167w	*SDL1*	serine dehydratase
YDR294c		similarity to glutamate decarboxylases
YJR078w		similarity to indoleamine 2,3-dioxygenase
YIL042c		similarity to rat branched-chain α-ketoacid dehydrogenase kinase
YGL202w		similarity to rat kynurenine/α-aminoadipate aminotransferase
YHR137w		similarity to rat kynurenine/α-aminoadipate aminotransferase
YFL030w		similarity to several transaminases
YDR111c		strong similarity to alanine transaminase
YBR006w		strong similarity to *E. coli* succinate semialdehyde dehydrogenase
YAL044c	*GCV3*	strong similarity to human glycine cleavage system protein H
YIL168w	*SDL1*	strong similarity to L-serine dehydratase Cha1p
YLR231c		strong similarity to rat kynureninase
YKL218c		strong similarity to threonine dehydratase
YBR208c	*DUR1,2*	urea amidolyase

other amino-acid metabolism activities

YKL157w	*APE2*	aminopeptidase yscII
YGL017w	*ATE1*	arginyl tRNA transferase
YPR069c	*SPE3*	putrescine aminopropyltransferase (spermidine synthase)
YFR018c		similarity to human glutaminyl-peptide cyclotransferase

nitrogen and sulphur metabolism

nitrogen and sulphur utilization

YPR167c	*MET16*	3'-phosphoadenylylsulphate reductase
YIR027c	*DAL1*	allantoinase
YIR029w	*DAL2*	allantoinase
YDR242w	*AMD2*	amidase
YOL058w	*ARG1*	argininosuccinate synthetase
YLR027c	*AAT2*	aspartate aminotransferase, cytosolic
YFR030w	*MET10*	assimilatory sulphite reductase flavin-binding subunit
YKL001c	*MET14*	ATP adenosine-5'-phosphosulphate 3'-phosphotransferase
YHR176w	*FMO*	flavin-containing monooxygenase
YOR375c	*GDH1*	glutamate dehydrogenase (NADP+)
YDL171c	*GLT1*	glutamate synthase (NAPDPH) (GOGAT)
YPR035w	*GLN1*	glutamate-ammonia ligase
YJL172w	*CPS1*	Gly-X carboxypeptidase YSCS
YAL062w	*GDH3*	NADP-glutamate dehydrogenase
YDL215c	*GDH2*	NAD-specific glutamate dehydrogenase (NAD)
YLR438w	*CAR2*	ornithine aminotransferase
YJR149w		similarity to 2-nitropropane dioxygenase
YLR089c		similarity to alanine transaminases
YMR293c		similarity to amidases
YFL061w		similarity to *M. verrucaria* cyanamide hydratase
YFL030w		similarity to several transaminases
YOR251c		similarity to thiosulphate sulphurtransferases
YDR111c		strong similarity to alanine transaminase
YER057c		strong similarity to *Azotobacter* nitrogen fixation vnfA protein
YIL051c		strong similarity to *Azotobacter* nitrogen fixation vnfA protein
YJL060w		strong similarity to kynurenine aminotransferase
YPL135w		strong similarity to nitrogen fixation protein (nifU)
YOR226c		strong similarity to nitrogen fixation proteins
YJR010w	*MET3*	sulphate adenylyltransferase
YJR137c		sulphite reductase
YBR208c	*DUR1,2*	urea amidolyase
YIR032c	*DAL3*	ureidoglycolate hydrolase
YJL035c		weak similarity to *B. japonicum* nitrogen fixation protein
YKL040c		weak similarity to nitrogen fixation protein nifU

regulation of nitrogen and sulphur utilization

YGR019w	*UGA1*	4-aminobutyrate aminotransferase (GABA transaminase)
YPL111w	*CAR1*	arginase
YKL112w	*ABF1*	ARS-binding factor
YNL216w	*RAP1*	DNA-binding protein with repressor and activator activity
YFL010w-a	*AUA1*	involved in ammonia regulation of amino acid transport
YIR030c	*DCG1*	involved in nitrogen-catabolite metabolism
YBR213w	*MET8*	involved in the expression of PAPS reductase and sulphite reductase
YDR207c	*UME6*	negative transcriptional regulator
YNL229c	*URE2*	nitrogen catabolite repression regulator
YEL062w	*NPR2*	nitrogen permease regulator
YNL183c	*NPR1*	ser/thr protein kinase
YCR028c	*FEN2*	similarity to allantoate permease transporter
YLR013w		similarity to nitrogen regulatory proteins
YGL254w	*FZF1*	sulphite resistance protein
YFL021w	*GAT1*	transcription factor for nitrogen regulation
YER040w	*GLN3*	transcription factor for positive nitrogen regulation
YMR042w	*ARG80*	transcription factor involved in arginine metabolism
YML099c	*ARG81*	transcription factor involved in arginine metabolism
YMR043w	*MCM1*	transcription factor of the MADS box family
YIR023w	*DAL81*	transcriptional activator for allantoin and GABA catabolic genes
YDL170w	*UGA3*	transcriptional activator for GABA catabolic genes
YNL103w	*MET4*	transcriptional activator of sulphur metabolism
YKR034w	*DAL80*	transcriptional repressor for allantoin and GABA catabolic genes

nitrogen and sulphur transport

YGR121c	*MEP1*	ammonia permease of high capacity and moderate affinity
YNL142w	*MEP2*	high-affinity low-capacity ammonia permease
YBR294w	*SUL1*	high-affinity sulphate transport protein
YPR003c		similarity to sulphate transporter proteins
YPR138c	*MEP3*	strong similarity to ammonium transport proteins
YLR092w	*SEL2*	strong similarity to Sul1p
YHL016c	*DUR3*	urea transport protein

nucleotide metabolism

purine-ribonucleotide metabolism

YLR028c	*ADE16*	5-aminoimidazole-4-carboxamide ribotide transformylase
YGR061c	*ADE6*	5'-phosphoribosylformyl glycinamidine synthetase
YML022w	*APT1*	adenine phosphoribosyltransferase
YDR441c	*APT2*	adenine phosphoribosyltransferase
YNL220w	*ADE12*	adenylosuccinate synthetase
YIR027c	*DAL1*	allantoinase
YIR029w	*DAL2*	allantoinase
YMR300c	*ADE4*	amidophosphoribosyltransferase
YML035c	*AMD1*	AMP deaminase
YGR204w	*ADE3*	C1-tetrahydrofolate synthase, cytoplasmic
YBR084w	*MIS1*	C1-tetrahydrofolate synthase, mitochondrial
YOR236w	*DFR1*	dihydrofolate reductase
YMR217w	*GUA1*	GMP synthase (glutamine-hydrolyzing)
YHR216w	*PUR5*	IMP dehydrogenase
YIR031c	*DAL7*	malate synthase 2
YKR080w	*MTD1*	methylenetetrahydrofolate dehydrogenase (NAD+)
YAR015w	*ADE1*	phosphoribosylamidoimidazole-succinocarboxamide synthase
YGL234w	*ADE5,7*	phosphoribosylamine-glycine ligase and phosphoribosylformylglycinamidine cyclo-ligase
YOR128c	*ADE2*	phosphoribosylaminoimidazole carboxylase
YDR408c	*ADE8*	phosphoribosylglycinamide formyltransferase (GART)
YKL181w	*PRPS1*	ribose-phosphate pyrophosphokinase
YER099c	*PRS2*	ribose-phosphate pyrophosphokinase
YHL011c	*PRS3*	ribose-phosphate pyrophosphokinase
YBL068w	*PRS4*	ribose-phosphate pyrophosphokinase
YLR058c	*SHM2*	serine hydroxymethyltransferase, cytoplasmic
YBR263w	*SHM1*	serine hydroxymethyltransferase, mitochondrial
YNL141w		similarity to adenosine deaminase
YBR284w		similarity to AMP deaminase
YJL070c		similarity to AMP deaminases
YLR017w		similarity to human 5'-methylthioadenosine phosphorylase
YOL061w		similarity to ribose-phosphate pyrophosphokinases
YOR280c		similarity to *S. pombe* dihydrofolate reductase
YDR020c		similarity to uridine kinases and phosphoribulokinases
YLR359w		strong similarity to adenylosuccinate lyase
YMR120c		strong similarity to chicken purH bifunctional enzyme
YJR105w		strong similarity to human adenosine kinase
YAR075w		strong similarity to IMP dehydrogenases
YML056c		strong similarity to IMP dehydrogenases
YAR073w	*FUN63*	strong similarity to IMP dehydrogenases
YLR432w		strong similarity to IMP dehydrogenases, Pur5p and YML056c
YLR209c		strong similarity to purine-nucleoside phosphorylases
YBR208c	*DUR1,2*	urea amidolyase
YIR032c	*DAL3*	ureidoglycolate hydrolase

pyrimidine-ribonucleotide metabolism

YBL039c	*URA7*	CTP synthase 1
YJR103w	*URA8*	CTP synthase 2
YHR144c	*DCD1*	deoxycytidylate deaminase
YLR420w	*URA4*	dihydroorotase
YKL216w	*URA1*	dihydroorotate dehydrogenase
YJR057w	*CDC8*	dTMP kinase
YBR252w	*DUT1*	dUTP pyrophosphatase, mitochondrial
YJL130c	*URA2*	multifunctional pyrimidine biosynthesis protein
YML106w	*URA5*	orotate phosphoribosyltransferase 1
YMR271c	*URA10*	orotate phosphoribosyltransferase 2
YEL021w	*URA3*	orotidine-5'-phosphate decarboxylase
YFL058w	*THI5*	pyrimidine biosynthesis protein
YKL181w	*PRPS1*	ribose-phosphate pyrophosphokinase
YER099c	*PRS2*	ribose-phosphate pyrophosphokinase
YHL011c	*PRS3*	ribose-phosphate pyrophosphokinase
YBL068w	*PRS4*	ribose-phosphate pyrophosphokinase
YOL061w		similarity to ribose-phosphate pyrophosphokinases
YOR280c		similarity to *S. pombe* dihydrofolate reductase
YLR245c		strong similarity to *B. subtilis* cytidine deaminase
YNL332w		strong similarity to Thi5p, YJR156c, YDL244w and *A. parasiticus*, *S. pombe* Nmt1p
YDL244w		strong similarity to Thi5p, YJR156c, YNL332w and *A. parasiticus*, *S. pombe* nmt1 protein
YJR156c	*THI11*	thiamine regulated gene, homologous to nmt1a in *S. pombe*
YHR128w	*FUR1*	uracil phosphoribosyltransferase
YNR012w	*URK1*	uridine kinase
YKL024c	*URA6*	uridine-monophosphate kinase

deoxyribonucleotide metabolism

YDR513w	*TTR1*	glutaredoxin
YER070w	*RNR1*	ribonucleoside-diphosphate reductase, large subunit

YJL026w	*RNR2*	ribonucleoside-diphosphate reductase, small subunit
YGR180c	*RNR4*	ribonucleotide reductase small subunit
YIL066c	*RNR3*	ribonucleotide reductase, repair inducible large subunit
YBR014c		similarity to glutaredoxin
YPL059w		similarity to glutaredoxins
YOR269w	*PAC1*	similarity to human LIS-1 protein
YDL010w		similarity to hypothetical protein YBR014c and glutaredoxins
YCL035c		strong similarity to glutaredoxin
YDR353w		strong similarity to thioredoxin reductase (NADPH)
YHR106w		strong similarity to thioredoxin reductases
YOR074c	*CDC21*	thymidylate synthase

metabolism of cyclic and unusual nucleotides

YJL005w	*CYR1*	adenylate cyclase
YCL050c	*APA1*	ATP adenylyltransferase I
YDR530c	*APA2*	ATP adenylyltransferase II
YOL081w	*IRA2*	GTPase-activating protein for RAS proteins
YOR360c	*PDE2*	high affinity 3',5'-cyclic-nucleotide phosphodiesterase
YPL212c	*PUS1*	pseudouridine synthase 1
YGL063w	*PUS2*	pseudouridine synthase 2

regulation of nucleotide metabolism

YOL081w	*IRA2*	GTPase-activating protein for RAS proteins
YOR101w	*RAS1*	GTP-binding protein
YNL098c	*RAS2*	GTP-binding protein
YDL106c	*GRF10*	homeodomain protein
YGL248w	*PDE1*	low-affinity 3',5'-cyclic-nucleotide phosphodiesterase
YNL076w	*MKS1*	negative regulator of RAS-cAMP pathway
YJL096w		putative regulator of purine and/or pyrimidine biosynthesis
YOL110w	*SHR5*	RAS suppressor
YKR099w	*BAS1*	transcription factor
YLR014c	*PPR1*	transcription factor regulating pyrimidine pathway
YIR023w	*DAL81*	transcriptional activator for allantoin and GABA catabolic genes
YNL314w	*DAL82*	transcriptional activator for allantoin catabolic genes

polynucleotide degradation

YMR287c	*MSU1*	3'-5' exonuclease for RNA 3' ss-tail, mitochondrial
YPL029w	*SUV3*	ATP-dependent RNA helicase, mitochondrial
YOR033c	*DHS1*	exonuclease, interacting with Msh2p
YKL149c	*DBR1*	lariat-debranching enzyme
YGL173c	*KEM1*	multifunctional nuclease
YLR363c	*NMD4*	Nam7p/Upf1p-interacting protein
YJR132w	*NMD5*	Nam7p/Upf1p-interacting protein
YMR080c	*NAM7*	nonsense-mediated mRNA decay protein
YGR072w	*UPF3*	nonsense-mediated mRNA decay protein
YHR077c	*NMD2*	nonsense-mediated mRNA decay protein 2
YJL208c	*NUC1*	nuclease, mitochondrial
YMR234w	*RNH1*	ribonuclease H
YPL123c		similarity to ribonucleases
YGR195w		weak similarity to *P. aeruginosa* RNase PH

nucleotide transport

YMR056c	*AAC1*	ADP/ATP carrier protein (MCF)
YBL030c	*AAC2*	ADP/ATP carrier protein (MCF)
YBR085w	*AAC3*	ADP/ATP carrier protein (MCF)
YER056c	*FCY2*	purine-cytosine permease
YER060w	*FCY21*	purine-cytosine permease
YOR222w		similarity to ADP/ATP carrier proteins
YPR011c		similarity to ADP/ATP carrier proteins and Graves disease carrier protein
YOR071c		similarity to allantoin or uracil transport proteins
YOR192c		similarity to allantoin or uracil transport proteins
YLR237w		similarity to allantoin transport protein
YGR096w		similarity to bovine Graves disease carrier protein
YHR002w		similarity to bovine mitochondrial carrier protein/Grave's disease carrier protein
YGL186c		similarity to hypothetical protein YER060w and weak similarity to Fcy2p
YBL042c		strong similarity to allantoin and uracil transport proteins
YER060w-a	*FCY22*	strong similarity to Fcy2p
YBR021w	*FUR4*	uracil permease

other nucleotide-metabolism activities

YDR226w	*ADK1*	adenylate kinase, cytosolic
YER170w	*ADK2*	adenylate kinase, mitochondrial
YDR454c	*GUK1*	guanylate kinase
YKL067w	*YNK1*	nucleoside diphosphate kinase
YDL125c	*HNT1*	similarity to protein kinase C inhibitor-I
YDR305c	*HNT2*	strong similarity to *S. pombe* diadenosine 5',5'''-P1,P4-tetraphosphate asymmetrical hydrolase

phosphate metabolism

phosphate utilization

YHR044c	*DOG1*	2-deoxyglucose-6-phosphate phosphatase
YHR043c	*DOG2*	2-deoxyglucose-6-phosphate phosphatase
YMR282c	*AEP2*	2'-O-ribosyl phosphate transferase
YBR092c	*PHO3*	constitutive acid phosphatase
YHR201c	*PPX1*	exopolyphosphatase
YBR011c	*IPP1*	inorganic pyrophosphatase, cytoplasmic
YMR267w	*PPA2*	inorganic pyrophosphatase, mitochondrial
YBR093c	*PHO5*	repressible acid phosphatase
YAR071w	*PHO11*	secreted acid phosphatase
YHR215w	*PHO12*	secreted acid phosphatase
YDL024c		strong similarity to acid phosphatase
YNL330c	*RPD3*	transcription modifier protein
YBR243c	*ALG7*	UDP-N-acetylglucosamine-1-phosphate transferase

regulation of phosphate utilization

YOL001w	*PHO80*	cyclin
YGR233c	*PHO81*	cyclin-dependent kinase inhibitor
YPL031c	*PHO85*	cyclin-dependent protein kinase
YML121w	*GTR1*	GTP-binding protein
YDL106c	*GRF10*	homeodomain protein
YBR106w	*PHO88*	involved in phosphate transport
YFR034c	*PHO4*	transcription factor

phosphate transport

YLR348c		dicarboxylate carrier protein
YML123c	*PHO84*	high-affinity inorganic phosphate/H^+ symporter
YJL117w	*PHO86*	inorganic phospate transporter
YBR106w	*PHO88*	involved in phosphate transport
YCR037c	*PHO87*	member of the phosphate permease family
YJR077c	*MIR1*	phosphate transport protein, mitochondrial (MCF)
YNR013c		similarity to membrane protein Pho87p and hypothetical protein YJL198w
YCR098c	*GIT1*	similarity to phosphate transporter proteins
YER053c		strong similarity to mitochondrial phosphate carrier protein
YJL198w		strong similarity to Pho87p
YBR296c		strong similarity to phosphate-repressible phosphate permease

other phosphate-metabolism activities

YDL236w	*PHO13*	4-nitrophenylphosphatase
YOR008c	SLG1	weak similarity to *L. mexicana* lmsap2 gene

carbohydrate metabolism

carbohydrate utilization

YLR342w	*FKS1*	1,3—D-glucan synthase, catalytic subunit
YGR032w	*GSC2*	1,3—D-glucan synthase, subunit
YEL011w	*GLC3*	1,4-glucan branching enzyme (glycogen branching enzyme)
YHR044c	*DOG1*	2-deoxyglucose-6-phosphate phosphatase
YHR043c	*DOG2*	2-deoxyglucose-6-phosphate phosphatase
YIL125w	*KGD1*	2-oxoglutarate dehydrogenase complex E1 component
YDR148c	*KGD2*	2-oxoglutarate dehydrogenase complex E2 component
YGR240c	*PFK1*	6-phosphofructokinase, α subunit
YMR205c	*PFK2*	6-phosphofructokinase, β subunit
YIL107c	*PFK26*	6-phosphofructose-2-kinase, isoenzyme 1
YOL136c	*PFK27*	6-phosphofructose-2-kinase, isoenzyme 2
YHR183w	*GND1*	6-phosphogluconate dehydrogenase
YBR001c	*NTH2*	α,α-trehalase
YDR074w	*TPS2*	α,α-trehalose-phosphate synthase, 105K subunit
YMR261c	*TPS3*	α,α-trehalose-phosphate synthase, 115K subunit
YML100w	*TSL1*	α,α-trehalose-phosphate synthase, 123K subunit
YBR126c	*TPS1*	α,α-trehalose-phosphate synthase, 56K subunit
YJR131w	*MNS1*	α-1,2-mannosidase
YDR483w	*KRE2*	α-1,2-mannosyltransferase
YER001w	*MNN1*	α-1,3-mannosyltransferase
YGL038c	*OCH1*	α-1,6-mannosyltransferase
YAL054c	*ACS1*	acetyl-CoA synthetase
YLR153c	*ACS2*	acetyl-CoA synthetase
YPR026w	*ATH1*	acid trehalase, vacuolar
YBR299w	*MAL32*	α-glucosidase
YGR292w	*MAL12*	α-glucosidase of the *MAL1* locus
YOR377w	*ATF1*	alcohol acetyltransferase
YOL086c	*ADH1*	alcohol dehydrogenase I
YMR303c	*ADH2*	alcohol dehydrogenase II
YMR083w	*ADH3*	alcohol dehydrogenase III
YGL256w	*ADH4*	alcohol dehydrogenase IV
YBR145w	*ADH5*	alcohol dehydrogenase V
YGR177c	*ATF2*	alcohol O-acetyltransferase
YCL040w	*GLK1*	aldohexose specific glucokinase
YGL156w	*AMS1*	α-mannosidase
YGL027c	*CWH41*	β-1,6-glucan assembly protein
YHR101c	*BIG1*	big cells phenotype
YBR110w	*ALG1*	β-mannosyltransferase
YBR084w	*MIS1*	C1-tetrahydrofolate synthase, mitochondrial
YNL322c	*KRE1*	cell-wall protein
YJL174w	*KRE9*	cell-wall synthesis protein
YJL099w	*CHS6*	chitin biosynthesis protein
YNL192w	*CHS1*	chitin synthase I
YBR038w	*CHS2*	chitin synthase II
YBR023c	*CHS3*	chitin synthase III
YNR001c	*CIT1*	citrate (si)-synthase, mitochondrial
YPR001w	*CIT3*	citrate (si)-synthase, mitochondrial
YCR005c	*CIT2*	citrate (si)-synthase, peroxisomal
YML086c	*ALO*	D-arabinino-1,4-lactone oxidase
YNL071w	*LAT1*	dihydrolipoamide S-acetyltransferase
YDL174c	*DLD1*	D-lactate ferricytochrome c oxidoreductase (D-LCR)
YER062c	*HOR2*	DL-glycerol phosphatase
YIL053w	*RHR2*	DL-glycerol phosphatase
YPL227c	*ALG5*	dolichol-P-glucose synthetase
YPR183w	*DPM1*	dolichyl-phosphate β-D-mannosyltransferase
YJR143c	*PMT4*	dolichyl-phosphate-mannose-protein O-mannosyl transferase
YOR095c	*RKI1*	D-ribose-5-phosphate ketol-isomerase
YJL121c	*POS18*	D-ribulose-5-phosphate 3-epimerase
YGR282c	*BGL2*	endo-1,3—glucanase of the cell wall
YLR286c	*CTS1*	endochitinase
YGR254w	*ENO1*	enolase I (2-phosphoglycerate dehydratase)
YHR174w	*ENO2*	enolase II (2-phosphoglycerate dehydratase)
YOR393w	*ERR1*	enolase-related protein
YPL281c	*ERR2*	enolase-related protein
YOR190w	*SPR1*	exo-1,3—glucanase
YDR261c	*EXG2*	exo-1,3—glucanase minor isoform
YLR300w	*EXG1*	exo-1,3—glucanase(I/II), major isoform
YIR019c	*STA1*	extracellular α-1,4-glucan glucosidase
YLR377c	*FBP1*	fructose-1,6-bisphosphatase
YJL155c	*FBP26*	fructose-2,6-bisphosphatase
YKL060c	*FBA1*	fructose-bisphosphate aldolase
YDL049c	*KNH1*	functional homologue of Kre9p
YBR020w	*GAL1*	galactokinase
YDR009w	*GAL3*	galactokinase
YOR120w	*GCY1*	galactose-induced protein of aldo/keto reductase family
YPR159w	*KRE6*	glucan synthase subunit
YGR143w	*SKN1*	glucan synthase subunit
YKL104c	*GFA1*	glucosamine-fructose-6-phosphate transaminase
YNL241c	*ZWF1*	glucose-6-phosphate dehydrogenase
YBR196c	*PGI1*	glucose-6-phosphate isomerase
YBR229c	*ROT2*	glucosidase II, catalytic subunit
YOR002w	*ALG6*	glucosyltransferase
YOR067c	*ALG8*	glucosyltransferase
YJL052w	*TDH1*	glyceraldehyde-3-phosphate dehydrogenase 1
YJR009c	*TDH2*	glyceraldehyde-3-phosphate dehydrogenase 2
YGR192c	*TDH3*	glyceraldehyde-3-phosphate dehydrogenase 3
YHL032c	*GUT1*	glycerol kinase
YDL022w	*GPD1*	glycerol-3-phosphate dehydrogenase (NAD^+), cytoplasmic
YOL059w	*GPD3*	glycerol-3-phosphate dehydrogenase (NAD^+), mitochondrial
YIL155c	*GUT2*	glycerol-3-phosphate dehydrogenase, mitochondrial
YPR160w	*GPH1*	glycogen phosphorylase
YFL014w	*HSP12*	heat-shock protein
YFR053c	*HXK1*	hexokinase I
YGL253w	*HXK2*	hexokinase II
YDL013w	*HEX3*	hexose metabolism-related protein
YDL182w	*LYS20*	homocitrate synthase
YOR126c	*EST2*	isoamyl acetate hydrolytic enzyme
YNL037c	*IDH1*	isocitrate dehydrogenase (NAD^+) subunit 1, mitochondrial
YOR136w	*IDH2*	isocitrate dehydrogenase (NAD^+) subunit 2, mitochondrial
YDL066w	*IDP1*	isocitrate dehydrogenase ($NADP^+$), mitochondrial
YLR174w	*IDP2*	isocitrate dehydrogenase, cytosolic
YER065c	*ICL1*	isocitrate lyase
YOR336w	*KRE5*	killer toxin-resistance protein
YML054c	*CYB2*	lactate dehydrogenase cytochrome b2
YDL168w	*SFA1*	long-chain alcohol dehydrogenase
YOL126c	*MDH2*	malate dehydrogenase, cytoplasmic
YKL085w	*MDH1*	malate dehydrogenase, mitochondrial
YDL078c	*MDH3*	malate dehydrogenase, peroxisomal
YNL117w	*MLS1*	malate synthase 1
YIR031c	*DAL7*	malate synthase 2
YDL055c	*PSA1*	mannose-1-phosphate guanyltransferase
YER003c	*PMI40*	mannose-6-phosphate isomerase
YGL065c	*ALG2*	mannosyltransferase
YNL219c	*ALG9*	mannosyltransferase
YKR061w	*KTR2*	mannosyltransferase
YDL095w	*PMT1*	mannosyltransferase
YAL023c	*PMT2*	mannosyltransferase
YOR321w	*PMT3*	mannosyltransferase
YBL082c	*RHK1*	mannosyltransferase
YJL139c	*YUR1*	mannosyltransferase
YJL153c	*INO1*	myo-inositol-1-phosphate synthase
YPL175w	*SPT14*	N-acetylglucosaminyltransferase
YDR001c	*NTH1*	neutral trehalase (α,α-trehalase)
YPR006c	*ICL2*	non-functional isocitrate lyase
YJL002c	*OST1*	oligosaccharyltransferase α subunit
YEL002c	*WBP1*	oligosaccharyltransferase β subunit
YMR149w	*SWP1*	oligosaccharyltransferase δ subunit
YOR103c	*OST2*	oligosaccharyltransferase ε subunit
YOR085w	*OST3*	oligosaccharyltransferase γ subunit
YDL232w	*OST4*	oligosaccharyltransferase subunit
YGL022w	*STT3*	oligosaccharyltransferase subunit
YEL058w	*PCM1*	phosphoacetylglucosamine mutase
YKR097w	*PCK1*	phosphoenolpyruvate carboxykinase
YMR105c	*PGM2*	phosphoglucomutase, major isoform
YKL127w	*PGM1*	phosphoglucomutase, minor isoform
YGR256w	*GND2*	phosphogluconate dehydrogenase
YCR012w	*PGK1*	phosphoglycerate kinase
YKL152c	*GPM1*	phosphoglycerate mutase

YOL056w	*GPM3*	phosphoglycerate mutase
YFL045c	*SEC53*	phosphomannomutase
YCR034w	*GNS1*	probable 1,3–glucan synthase subunit
YIL045w	*PIG2*	Protein interacting with Gsy2p
YIL085c	*KTR7*	putative α-1,2-mannosyltransferase
YNL029c	*KTR5*	putative mannosyltransferase
YGR199w	*PMT6*	putative mannosyltransferase
YGL062w	*PYC1*	pyruvate carboxylase, isozyme 1
YBR218c	*PYC2*	pyruvate carboxylase, isozyme 2
YDR081c	*PDC2*	pyruvate decarboxylase regulatory protein
YLR044c	*PDC1*	pyruvate decarboxylase, isozyme 1
YLR134w	*PDC5*	pyruvate decarboxylase, isozyme 2
YGR087c	*PDC6*	pyruvate decarboxylase, isozyme 3
YER178w	*PDA1*	pyruvate dehydrogenase (lipoamide) α subunit
YBR221c	*PDB1*	pyruvate dehydrogenase (lipoamide) β subunit
YGR193c	*PDX1*	pyruvate dehydrogenase complex protein X
YAL038w	*CDC19*	pyruvate kinase
YNL048w	*ALG11*	required for asparagine-linked glycosylation
YCR036w	*RBK1*	ribokinase
YJL137c	*GLG2*	self-glucosylating initiator of glycogen synthesis
YMR306w		similarity to 1,3–glucan synthases
YAL060w	*FUN49*	similarity to alcohol/sorbitol dehydrogenase
YAL061w	*FUN50*	similarity to alcohol/sorbitol dehydrogenase
YMR318c		similarity to alcohol-dehydrogenase
YDL124w		similarity to aldose reductases
YHR204w		similarity to α-mannosidases
YPL088w		similarity to aryl-alcohol dehydrogenases
YML070w		similarity to *C. feundii* dihydroxyacetone kinase
YIL124w		similarity to *C. perfringens* nanH protein
YDR371w		similarity to chitinases
YIR036c		similarity to *E. coli* 3-ketoacyl-ACP reductase
YBR149w		similarity to Gcy1p and aldose reductases
YBR056w		similarity to glucan 1,3–glucosidase
YIL169c		similarity to glucan 1,4–glucosidase
YOL155c		similarity to glucan 1,4–glucosidase Mal5p
YNL274c		similarity to glycerate- and formate-dehydrogenases
YPL113c		similarity to glycerate dehydrogenases
YPR184w		similarity to glycogen debranching enzymes
YDL131w		similarity to homocitrate synthases and isopropylmalate synthases
YJR096w		similarity to *Leishmania* reductase
YKR096w		similarity to mitochondrial aldehyde dehydrogenase Ald1p
YGL257c		similarity to Mnn1p
YIL014w		similarity to Mnn1p
YEL020c		similarity to *O. formigenes* oxalyl-CoA decarboxylase
YDL093w	*PMT5*	similarity to O-mannosyltransferases Pmt1p-Pmt4p
YMR278w		similarity to phosphomannomutases
YDR307w		similarity to Pmt1p
YDR380w		similarity to pyruvate decarboxylases
YDR245w	*MNN10*	similarity to *S. pombe* galactosyltransferase
YLR070c		similarity to sugar dehydrogenases
YNR059w		similarity to to α-1,3-mannosyltransferase
YHL012w		similarity to UDP glucose pyrophosphorylase
YJR159w	*SOR1*	sorbitol dehydrogenase
YIL099w	*SGA1*	sporulation specific glucan 1,4–glucosidase
YER096w	*SHC1*	sporulation-specific protein
YLR307w	*CDA1*	sporulation-specific chitin deacetylase
YLR308w	*CDA2*	sporulation-specific chitin deacetylase
YNL331c		strong similarity to aryl-alcohol reductase
YCR107w		strong similarity to aryl-alcohol reductases
YPL017c		strong similarity to dihydrolipoamide dehydrogenases
YBR205w	*KTR3*	strong similarity to α-1,2-mannosyltransferase
YBR199w	*KTR4*	strong similarity to α-1,2-mannosyltransferase
YPL053c	*KTR6*	strong similarity to α-1,2-mannosyltransferase Kre2p
YJL221c	*FSP2*	strong similarity to α-D-glucosidase
YOL157c		strong similarity to α-glucosidases
YCR105w		strong similarity to alcohol dehydrogenases
YDL243c		strong similarity to aryl-alcohol dehydrogenase
YJR155w		strong similarity to aryl-alcohol dehydrogenase
YFL056c		strong similarity to aryl-alcohol dehydrogenases
YFL057c		strong similarity to aryl-alcohol dehydrogenases
YOL165c		strong similarity to aryl-alcohol dehydrogenases
YKR027w		strong similarity to Chs6p
YHR104w		strong similarity to D-xylose 1-dehydrogenase
YEL070w		strong similarity to *E. coli* D-mannonate oxidoreductase
YNR073c		strong similarity to *E. coli* D-mannonate oxidoreductase, identical to YEL070w
YJL218w		strong similarity to *E. coli* galactoside O-acetyltransferase
YDR248c		strong similarity to *E. coli* thermoresistant gluconokinase
YIL172c		strong similarity to Fsp2p
YDL037c		strong similarity to glucan 1,4–glucosidase
YDR516c		strong similarity to glucokinase
YOR299w		strong similarity to hypothetical protein YMR237w and similarity to Chs6p
YMR237w		strong similarity to hypothetical protein YOR299w and similarity to CHS6 protein
YNL009w		strong similarity to isocitrate dehydrogenase
YJL216c		strong similarity to Mal62p
YGR287c		strong similarity to maltase
YOR099w	*KTR1*	strong similarity to mannosyltransferases
YDR368w	*YPR1*	strong similarity to members of the aldo/keto reductase family
YDL021w	*GPM2*	strong similarity to phosphoglycerate mutase Gpm1p
YMR323w		strong similarity to phosphopyruvate hydratases
YJR153w		strong similarity to polygalacturonases
YDL080c		strong similarity to pyruvate decarboxylases
YOR347c		strong similarity to pyruvate kinase
YGR244c		strong similarity to rumen fungus β-succinyl-CoA synthetase
YKL029c		strong similarity to *S. pombe* malate oxireductase
YBL001c		strong similarity to *S. xylosus* glucose kinase
YLR164w		strong similarity to Sdh4p
YDL246c		strong similarity to Sor1p
YJL045w		strong similarity to succinate dehydrogenase flavoprotein
YGR043c		strong similarity to transaldolase
YNR071c		strong similarity to UDP-glucose 4-epimerase Gal10p
YDR384c		strong similarity to *Y. lipolytica GPR1* gene
YHR210c		strong similarity UDP-glucose-4-epimerase
YKL148c	*SDH1*	succinate dehydrogenase flavoprotein
YDR178w	*SDH4*	succinate dehydrogenase membrane anchor subunit for Sdh2p
YIL162w	*SUC2*	sucrose hydrolyzing enzyme
YJR075w	*HOC1*	suppressor of *pkc1*
YLR354c	*TAL1*	transaldolase
YPR074c	*TKL1*	transketolase 1
YBR117c	*TKL2*	transketolase 2
YDR050c	*TPI1*	triose-phosphate isomerase
YBR019c	*GAL10*	UDP-glucose 4-epimerase
YBR018c	*GAL7*	UDP-glucose-hexose-1-phosphate uridylyltransferase
YFR015c	*GSY1*	UDP-glucose-starch glucosyltransferase, isoform 1
YLR258w	*GSY2*	UDP-glucose-starch glucosyltransferase, isoform 2
YBR243c	*ALG7*	UDP-N-acetylglucosamine-1-phosphate transferase
YKL035w	*UGP1*	UTP-glucose-1-phosphate uridylyltransferase
YKR043c		weak similarity to phosphoglycerate mutase
YOR283w		weak similarity to phosphoglycerate mutases

regulation of carbohydrate utilization

YGR240c	*PFK1*	6-phosphofructokinase, α subunit
YMR205c	*PFK2*	6-phosphofructokinase, β subunit
YIL107c	*PFK26*	6-phosphofructose-2-kinase, isoenzyme 1
YOL136c	*PFK27*	6-phosphofructose-2-kinase, isoenzyme 2
YBR126c	*TPS1*	α,α-trehalose-phosphate synthase, 56K subunit
YHR047c	*AAP1*	alanine/arginine aminopeptidase
YGR229c	*KNR4*	β-1,3-glucan synthesis protein
YOL067c	*RTG1*	basic helix-loop-helix transcription factor
YOR344c	*TYE7*	basic helix-loop-helix transcription factor
YGR166w	*KRE11*	β-glucan synthesis-associated protein
YBL103c	*RTG3*	bHLH/zip transcription factor
YPL161c	*BEM4*	bud emergence protein
YGL209w	*MIG2*	C2H2 zinc-finger protein
YIL033c	*SRA1*	cAMP dependent protein kinase, regulatory subunit
YDR477w	*SNF1*	carbon catabolite derepressing ser/thr protein kinase
YCR002c	*CDC10*	cell division control protein
YLR330w	*CHS5*	chitin synthesis protein
YDR073w	*SNF11*	component of SWI/SNF transcription activator complex
YOR290c	*SNF2*	component of SWI/SNF transcription activator complex
YBR289w	*SNF5*	component of SWI/SNF transcription activator complex
YPL016w	*SWI1*	component of SWI/SNF transcription activator complex
YPL042c	*SSN3*	cyclin-dependent ser/thr protein kinase
YNL216w	*RAP1*	DNA-binding protein with repressor and activator activity
YOL051w	*GAL11*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YDR443c	*SCA1*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YCR081w	*SRB8*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YNL025c	*SSN8*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit, cyclin C homologue
YLR071c	*RGR1*	DNA-directed RNA polymerase II holoenzyme subunit
YBR253w	*SRB6*	DNA-directed RNA polymerase II suppressor protein
YOR047c	*STD1*	dosage-dependent modulator of glucose repression
YJL155c	*FBP26*	fructose-2,6-bisphosphatase
YPL037c	*EGD1*	GAL4 DNA-binding enhancer protein
YDR009w	*GAL3*	galactokinase
YLL016w	*SDC25*	GDP/GTP exchange factor
YLR310c	*CDC25*	GDP/GTP exchange factor for Ras1p and Ras2p
YGR070w	*ROM1*	GDP/GTP exchange protein for Rho1p
YLR371w	*ROM2*	GDP/GTP exchange protein for Rho1p
YDR176w	*NGG1*	general transcriptional adaptor or co-activator
YER054c	*GIP2*	Glc7p-interacting protein
YNL236w	*SIN4*	global regulator protein
YHL025w	*SNF6*	global transcription activator
YER027c	*GAL83*	glucose repression protein
YNL199c	*GCR2*	glycolytic genes transcriptional activator
YOR101w	*RAS1*	GTP-binding protein
YNL098c	*RAS2*	GTP-binding protein
YPR165w	*RHO1*	GTP-binding protein of the RHO subfamily of RAS-like proteins
YNL090w	*RHO2*	GTP-binding protein of the RHO subfamily of RAS-like proteins
YDR420w	*HKR1*	*Hansenula* MrakII k9 killer toxin-resistance protein
YGL253w	*HXK2*	hexokinase II
YPL002c	*SNF8*	involved in glucose derepression
YOR125c	*CAT5*	involved in glucose repression
YML048w	*EFF2*	involved in glucose repression
YNL201c		involved in regulation of carbon metabolism
YGR227w	*DIE2*	ITR1 expression promoting protein
YBR297w	*MAL33*	maltose fermentation regulatory protein
YGR288w	*MAL13*	maltose pathway regulatory protein
YLR131c	*ACE2*	metallothionein expression activator
YDR422c	*SIP1*	multicopy suppressor of *snf1*
YML051w	*GAL80*	negative regulator for expression of galactose-induced genes
YNL076w	*MKS1*	negative regulator of RAS-cAMP pathway
YIL119c	*RPI1*	negative regulator of RAS-cAMP pathway
YLR025w	*SNF7*	nuclear protein
YGL115w	*SNF4*	nuclear regulatory protein
YLR273c	*PIG1*	protein interacting with Gsy2p
YIL045w	*PIG2*	protein Interacting with Gsy2p
YDL006w	*PTC1*	protein ser/thr phosphatase 2c
YDL134c	*PPH21*	protein ser/thr phosphatase PP2A-1
YDL188c	*PPH22*	protein ser/thr phosphatase PP2A-2
YBL061c	*SKT5*	protoplast regeneration and killer toxin resistance protein
YOL110w	*SHR5*	RAS suppressor
YJR095w	*ACR1*	regulator of acetyl-CoA synthetase activity
YKL038w	*RGT1*	regulator of glucose induced genes
YDR028c	*REG1*	regulatory subunit for protein phosphatase Glc7p
YMR311c	*GLC8*	regulatory subunit for protein ser/thr phosphatase Glc7p
YBR050c	*REG2*	regulatory subunit of type I protein phosphatase
YDR277c	*MTH1*	repressor of hexose transport genes
YNR052c	*POP2*	required for glucose derepression
YJR090c	*GRR1*	required for glucose repression and for glucose and cation transport
YGL252c	*RTG2*	retrograde regulation protein
YJR076c	*CDC11*	septin
YHR107c	*CDC12*	septin
YER133w	*GLC7*	ser/thr phosphoprotein phosphatase 1, catalytic subunit
YOR178c	*GAC1*	ser/thr phosphoprotein phosphatase 1, regulatory subunit
YLR113w	*HOG1*	ser/thr protein kinase of MAP kinase (MAPK) family
YLR345w		similarity to 6-phosphofructo-2-kinase
YCR028c	*FEN2*	similarity to allantoate permease transporter
YFL053w		similarity to *C. freundii* dihydroxyacetone kinase
YDL225w		similarity to Cdc11p, Cdc3p and human CDC10 protein
YHR193c	*EGD2*	similarity to human α-NAC
YDL203c		similarity to Skt5p
YNL257c	*SIP3*	Snf1p protein kinase interacting protein
YLR150w	*MPT4*	specific affinity for guanine-rich quadruplex nucleic acids
YFL052w		strong similarity to Mal63p, Mal23p and Mal33p
YHR155w		strong similarity to Snf1p-interacting protein Sip3p
YNR002c	*FUN34*	strong similarity to *Y. lipolytica* glyoxylate pathway regulator GPR1
YCR010c		strong similarity to *Y. lipolytica* GPR1 protein and Fun34p
YIL154c	*(IMP2)*	sugar utilization regulatory protein
YPL026c	*SKS1*	suppressor kinase of *snf3*
YPL129w	*ANC1*	TFIIF subunit (transcription initiation factor), 30K
YPL248c	*GAL4*	transcription factor
YMR125w	*GCR3*	transcription factor for glycolytic genes

YMR280c	*CAT8*	transcription factor involved in gluconeogenesis
YMR043w	*MCM1*	transcription factor of the MADS box family
YJL176c	*SWI3*	transcription regulatory protein
YPL075w	*GCR1*	transcriptional activator
YOL116w	*MSN1*	transcriptional activator
YKL062w	*MSN4*	transcriptional activator
YGL035c	*MIG1*	transcriptional repressor
YIL147c	*SLN1*	two-component signal transducer
YLR006c	*SSK1*	two-component signal transducer
YJL128c	*PBS2*	tyrosine protein kinase of the MAP kinase kinase family
YLR258w	*GSY2*	UDP-glucose-starch glucosyltransferase, isoform 2
YDR216w	*ADR1*	zinc-finger transcription factor

carbohydrate transport

YCL040w	*GLK1*	aldohexose specific glucokinase
YKL217w	*JEN1*	carboxylic acid transporter protein
YBR291c	*CTP1*	citrate transport protein, mitochondrial (MCF)
YLR348c		dicarboxylate carrier protein
YLR081w	*GAL2*	galactose (and glucose) permease
YGR289c	*AGT1*	general α-glucoside permease
YLL043w	*FPS1*	glycerol channel protein
YNL318c	*HXT14*	hexose transport protein
YJL214w	*HXT8*	hexose transport protein
YJL219w	*HXT9*	hexose transport protein
YFL011w	*HXT10*	hexose transporter
YDL194w	*SNF3*	high-affinity glucose transporter
YEL069c	*HXT13*	high-affinity hexose transporter
YMR011w	*HXT2*	high-affinity hexose transporter
YDR343c	*HXT6*	high-affinity hexose transporter
YDR342c	*HXT7*	high-affinity hexose transporter
YOL156w	*HXT11*	low-affinity glucose transporter
YHR094c	*HXT1*	low-affinity hexose transporter
YDR345c	*HXT3*	low-affinity hexose transporter
YDR497c	*ITR1*	major myo-inositol permease
YBR298c	*MAL31*	maltose permease
YHR092c	*HXT4*	moderate- to low-affinity glucose transporter
YOL103w	*ITR2*	myo-inositol transport protein
YIR035c		similarity to *C. lanceolata* 3-oxoacyl-[acyl-carrier-protein] reductase
YBR241c		similarity to glucose transport proteins
YGL104c		similarity to glucose transport proteins
YPR021c		similarity to human citrate transporter protein
YDR387c		similarity to ltr1p and ltr2p
YDL199c		similarity to sugar transporter proteins
YFL040w		similarity to yeast glucose transport proteins
YHR096c	*HXT5*	strong similarity to hexose transporters
YDL245c	*HXT15*	strong similarity to Hxt17p and Haxt7p
YJR160c		strong similarity to Mal3Tp
YDR536w	*STL1*	strong similarity to members of the sugar permease family
YDL247w		strong similarity to sugar transport proteins
YIL170w	*HXT12*	strong similarity to sugar transport proteins
YIL171w	*HXT12*	strong similarity to sugar transport proteins
YJR158w	*HXT16*	strong similarity to sugar transport proteins
YNR072w	*HXT17*	sugar transport protein
YDL138w	*RGT2*	suppressor of *snf3* mutant

lipid, fatty-acid and sterol metabolism

lipid, fatty-acid and sterol biosynthesis

YML075c	*HMG1*	3-hydroxy-3-methylglutaryl-CoA reductase 1
YLR450w	*HMG2*	3-hydroxy-3-methylglutaryl-CoA reductase 2
YML126c	*HMGS*	3-hydroxy-3-methylglutaryl-CoA synthase
YPL028w	*ERG10*	acetyl-CoA C-acetyltransferase, cytosolic
YNR016c	*ACC1*	acetyl-CoA carboxylase
YCR048w	*ARE1*	acyl-CoA sterol acyltransferase
YNR019w	*ARE2*	acyl-CoA sterol acyltransferase
YIL009w	*FAA3*	acyl-CoA synthase
YGR037c	*ACB1*	acyl-CoA-binding protein (diazepam-binding inhibitor)
YBR222c	*PCS60*	AMP-binding protein, peroxisomal
YER061c	*CEM1*	β-keto-acyl-ACP synthase
YNL280c	*ERG24*	C-14 sterol reductase
YMR015c	*ERG5*	C-22 sterol desaturase
YGR060w	*ERG25*	C-4 sterol methyl oxidase
YLR056w	*ERG3*	C-5 sterol desaturase
YMR202w	*ERG2*	C-8 sterol isomerase
YML042w	*CAT2*	carnitine O-acetyltransferase
YPR113w	*PIS1*	CDP diacylglycerol-inositol 3-phosphatidyltransferase
YER026c	*CHO1*	CDP-diacylglycerol serine O-phosphatidyltransferase
YBR029c	*CDS1*	CDP-diacylglycerol synthase
YLR133w	*CKI1*	choline kinase
YGR007w	*MUQ1*	choline phosphate cytidylyltransferase
YGR202c	*PCT1*	cholinephosphate cytidylyltransferase
YNL111c	*CYB5*	cytochrome b5
YHR007c	*ERG11*	cytochrome P450 lanosterol 14a-demethylase
YHR190w	*ERG9*	farnesyl-diphosphate farnesyltransferase
YJL167w	*ERG20*	farnesyl-pyrophosphate synthetase
YDL052c	*SLC1*	fatty acyltransferase
YPL231w	*FAS2*	fatty-acyl-CoA synthase, α subunit
YKL182w	*FAS1*	fatty-acyl-CoA synthase, β subunit
YPL069c	*BTS1*	geranylgeranyl diphosphate synthase
YGL126w	*SCS3*	inositol phospholipid synthesis protein
YOR237w	*HES1*	involved in ergosterol biosynthesis
YPL145c	*KES1*	involved in ergosterol biosynthesis
YPL117c	*IDI1*	isopentenyl-diphosphate δ-isomerase
YHR072w	*ERG7*	lanosterol synthase
YMR246w	*FAA4*	long-chain-fatty-acid-CoA ligase
YNL219c	*ALG9*	mannosyltransferase
YJR073c	*OPI3*	methylene-fatty-acyl-phospholipid synthase
YNR043w	*MVD1*	mevalonate pyrophosphate decarboxylase
YPL076w	*GPI2*	N-acetylglucosaminyl-phosphatidylinositol biosynthetic protein
YPL175w	*SPT14*	N-acetylglucosaminyltransferase
YGR157w	*CHO2*	phosphatidylethanolamine N-methyltransferase
YDL142c	*PGS1*	phosphatidylglycerophosphate synthase
YNL169c	*PSD1*	phosphatidylserine decarboxylase 1
YGR170w	*PSD2*	phosphatidylserine decarboxylase 2
YCL004w	*PEL1*	phosphatidylserine synthase
YMR220w	*ERG8*	phosphomevalonate kinase
YCR034w	*GNS1*	probable 1,3—glucan synthase subunit
YGL001c		putative 3—hydroxysteroid dehydrogenase
YJL196c	*ELO1*	required for elongation of fatty acids
YGR216c	*GPI1*	required for N-acetylglucosaminyl phosphatidylinositol synthesis
YML008c	*ERG6*	S-adenosyl-methionine δ-24-sterol-c-methyltransferase
YMR296c	*LCB1*	serine C-palmitoyltransferase subunit
YDR062w	*LCB2*	serine C-palmitoyltransferase subunit
YLR058c	*SHM2*	serine hydroxymethyltransferase, cytoplasmic
YBR263w	*SHM1*	serine hydroxymethyltransferase, mitochondrial
YMR207c	*HFA1*	similarity to acetyl-CoA carboxylase
YDR147w		similarity to choline kinase
YBR159w		similarity to human 17—hydroxysteroid dehydrogenase
YDR376w	*ARH1*	similarity to human adrenodoxin reductase
YML131w		similarity to human leukotriene b4 12-hydroxydehydrogenase
YAR042w	*OSH1*	similarity to human oxysterol binding protein
YDR208w	*MSS4*	similarity to human PI P 5-kinase
YHR001w		similarity to Kes1p
YKR003w		similarity to Kes1p, Hes1p and Osh1p
YDL019c		similarity to Osh1p
YHR073w		similarity to Osh1p, Hes1p, Kes1p
YGR175c	*ERG1*	squalene monooxygenase
YGL055w	*OLE1*	stearoyl-CoA desaturase
YGL012w	*ERG4*	sterol C-24 reductase
YLR372w	*SUR4*	sterol isomerase
YKL192c		strong similarity to acyl-carrier proteins
YNL045w		strong similarity to human leukotriene-A4 hydrolase

breakdown of lipids and phospholipids

YPL268w	*PLC1*	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase
YGL205w	*POX1*	acyl-CoA oxidase
YMR008c	*PLB1*	phospholipase B (lysophospholipase)
YKR031c	*SPO14*	phospholipase D
YLR020c		similarity to triacylglycerol lipase
YLL012w		similarity to triacylglycerol lipases
YJL068c		strong similarity to human esterase D
YOL011w		strong similarity to phospholipases
YMR006c		strong similarity to Plb1p
YKL140w	*TGL1*	triacylglycerol lipase
YDR058c	*TGL2*	triacylglycerol lipase
YJR107w		weak similarity to acylglycerol lipase
YBR204c		weak similarity to peroxisomal serine-active lipase

lipid, fatty-acid and sterol utilization

YIL160c	*POT1*	acetyl-CoA C-acyltransferase, peroxisomal
YIL009w	*FAA3*	acyl-CoA synthase
YMR013c	*SEC59*	dolichol kinase
YDR331w	*GPI8*	essential for GPI-anchor attachment
YDR410c	*STE14*	farnesyl cysteine carboxyl-methyltransferase
YPL172c	*COX10*	farnesyl transferase
YOR370c	*MSI4*	geranylgeranyltransferase regulatory subunit
YGL155w	*CDC43*	geranylgeranyltransferase type I β subunit
YPR176c	*BET2*	geranylgeranyltransferase type II β subunit
YJL031c	*BET4*	geranylgeranyltransferase, α subunit
YFL014w	*HSP12*	heat-shock protein
YBR003w	*COQ1*	hexaprenyl pyrophosphate synthetase
YKR009c	*FOX2*	hydratase-dehydrogenase-epimerase, peroxisomal
YOR317w	*FAA1*	long-chain-fatty-acid-CoA ligase
YER015w	*FAA2*	long-chain-fatty-acid-CoA ligase
YMR246w	*FAA4*	long-chain-fatty-acid-CoA ligase
YDL078c	*MDH3*	malate dehydrogenase, peroxisomal
YLR195c	*NMT1*	N-myristoyltransferase
YJR066w	*TOR1*	phosphatidylinositol 3-kinase
YKL019w	*RAM2*	protein farnesyltransferase, α subunit
YDL090c	*RAM1*	protein farnesyltransferase, β subunit
YHR013c	*ARD1*	protein N-acetyltransferase subunit
YDL040c	*NAT1*	protein N-acetyltransferase subunit

regulation of lipid, fatty-acid and sterol biosynthesis

YBL015w	*ACH1*	acetyl-CoA hydrolase
YDR123c	*INO2*	basic helix-loop-helix (BHLH) transcription factor
YOL108c	*INO4*	basic helix-loop-helix transcription factor
YGL162w	*SUT1*	hypoxic protein involved in sterol uptake
YMR208w	*ERG12*	mevalonate kinase
YHL020c	*OPI1*	negative regulator of phospholipid biosynthesis pathway
YDR207c	*UME6*	negative transcriptional regulator
YAL051w	*OAF1*	peroxisome proliferating transcription factor
YOR363c	*PIP2*	peroxisome proliferating transcription factor
YNL169c	*PSD1*	phosphatidylserine decarboxylase 1
YAL013w	*DEP1*	regulator of phospholipid metabolism
YMR207c	*HFA1*	similarity to acetyl-CoA carboxylase
YCR028c	*FEN2*	similarity to allantoate permease transporter
YMR043w	*MCM1*	transcription factor of the MADS box family
YOL004w	*SIN3*	transcription regulatory protein

lipid and fatty-acid transport

YGR037c	*ACB1*	acyl-CoA-binding protein (diazepam-binding inhibitor)
YNL130c	*CPT1*	diacylglycerol cholinephosphotransferase
YBR041w	*FAT1*	fatty-acid transporter
YKL188c	*PAT1*	long-chain-fatty-acid transporter
YPL147w	*PXA1*	long-chain-fatty-acid transporter
YOR317w	*FAA1*	long-chain-fatty-acid-CoA ligase
YER015w	*FAA2*	long-chain-fatty-acid-CoA ligase
YMR246w	*FAA4*	long-chain-fatty-acid-CoA ligase
YAR035w	*YAT1*	outer carnitine acetyltransferase, mitochondrial
YCL043c	*PDI1*	protein disulphide-isomerase
YER024w		similarity to carnitine O-acetyltransferase Yat1p
YKL174c		similarity to choline transport protein Ctr1p
YNR056c		similarity to choline transport protein Ctr1p
YHR123w	*EPT1*	sn-1,2-diacylglycerol ethanolamine- and cholinephosphotransferase

lipid and fatty-acid binding

YHR001w		similarity to Kes1p
YMR020w	*FMS1*	suppressor of fenpropimorph resistance mutation *fen2*

other lipid, fatty-acid and sterol metabolism activities

YBR036c	*CSG2*	calcium dependent regulatory protein
YMR079w	*SEC14*	phosphatidylinositol/phosphatidylcholine transfer protein
YNL264c		similarity to Sec14p
YKL091c		strong similarity to Sec14p
YIL002c	*SIH1*	synaptojanin homologue 1
YDR302w		weak similarity to human GPI-anchor biosynthesis protein

biosynthesis of vitamins, cofactors and prosthetic groups

metabolism of vitamins, cofactors and prosthetic groups

YOL096c	*COQ3*	3,4-dihydroxy-5-hexaprenylbenzoate methyltransferase
YDR232w	*HEM1*	5-aminolevulinate synthase
YOL143c	*RIB4*	6,7-dimethyl-8-ribityllumazine synthase
YGR286c	*BIO2*	biotin synthetase
YGR204w	*ADE3*	C1-tetrahydrofolate synthase, cytoplasmic
YBR084w	*MIS1*	C1-tetrahydrofolate synthase, mitochondrial
YDR044w	*HEM13*	coproporphyrinogen III oxidase
YPL132w	*COX11*	cytochrome c oxidase assembly protein
YNR058w	*BIO3*	DAPA aminotransferase
YDR487c	*RIB3*	DBP synthase
YOL066c	*RIB2*	DRAP deaminase
YPL172c	*COX10*	farnesyl transferase
YOR176w	*HEM15*	ferrochelatase
YDL045c	*FAD1*	flavin adenine dinucleotide (FAD) synthetase
YGR267c	*FOL2*	GTP cyclohydrolase I
YBL033c	*RIB1*	GTP cyclohydrolase II
YBR003w	*COQ1*	hexaprenyl pyrophosphate synthetase
YBR153w	*RIB7*	HTP reductase
YOR196c	*LIP5*	lipoic acid synthase
YHR042w	*NCP1*	NADPH-cytochrome P450 reductase
YOR209c	*NPT1*	nicotinate phosphoribosyltransferase
YNR033w	*ABZ1*	para-aminobenzoate synthase
YNR041c	*COQ2*	para-hydroxybenzoate-polyprenyltransferase
YOR184w	*SER1*	phosphoserine transaminase
YDL205c	*HEM3*	porphobilinogen deaminase
YGL040c	*HEM2*	porphobilinogen synthase
YER014w	*HEM14*	protoporphyrinogen oxidase, mitochondrial
YNR057c	*BIO4*	putative dethiobiotin synthetase
YBR035c	*PDX3*	pyridoxamine-phosphate oxidase
YBR256c	*RIB5*	riboflavin synthase, α subunit
YER043c	*SAH1*	S-adenosyl-L-homocysteine hydrolase
YNL256w		similarity to bacterial dihydropteroate synthase
YKL027w		similarity to *E. coli* molybdopterin-converting factor chlN
YIL145c		similarity to *E. coli* pantothenate synthetase
YGR255c		similarity to *E. coli* ubiH protein
YMR113w		similarity to folylpolyglutamate synthetases and strong similarity to hypothetical protein YKL132c
YGL125w		similarity to human methylenetetrahydrofolate reductase

YPL023c		similarity to human methylenetetrahydrofolate reductase
YFR047c		similarity to human quinolinate phosphoribosyltransferase
YHR111w		similarity to molybdopterin biosynthesis proteins
YOL151w		similarity to plant dihydroflavonol-4-reductases
YMR222c		similarity to *S. pombe* dihydrofolate reductase
YOR241w		similarity to tetrahydrofolylpolyglutamate synthase
YJR142w		similarity to thiamin pyrophosphokinase
YKR069w		similarity to uroporphyrinogen methyltransferases
YGL039w		similarity to *V. vinifera* dihydroflavonol reductase
YBR176w		strong similarity to *E. coli* 3-methyl-2-oxobutanoate hydroxymethyltransferase
YHR003c		strong similarity to molybdopterin-converting factor homologue YKL027w
YDL036c		strong similarity to Rib2p
YOL049w		strong similarity to *S. pombe* Gsa1p
YOR143c	*THI80*	thiamin pyrophosphokinase
YPL214c	*THI6*	thiamin-phosphate pyrophosphorylase and hydroxyethylthiazole kinase
YDR047w	*HEM12*	uroporphyrinogen decarboxylase
YOR278w	*HEM4*	uroporphyrinogen III synthase

utilization of vitamins, cofactors and prosthetic groups

YDL141w	*BPL1*	biotin holocarboxylase synthetase
YBR092c	*PHO3*	constitutive acid phosphatase
YAL039c	*CYC3*	holocytochrome c synthase (cytochrome c haem lyase)
YKL087c	*CYT2*	holocytochrome c1 synthase
YML120c	*NDI1*	NADH-ubiquinone-6 oxidoreductase
YBR093c	*PHO5*	repressible acid phosphatase
YKL132c		similarity to *B. subtilis* folC protein and strong similarity to hypothetical protein YMR113w

regulation of vitamins, cofactors and prosthetic groups

YPR065w	*ROX1*	haem-dependent transcriptional repressor of hypoxic genes
YOR125c	*CAT5*	involved in glucose repression

transport of vitamins, cofactors and prosthetic groups

YIL134w	*FLX1*	FAD carrier protein, mitochondrial (MCF)
YIL006w		similarity to Flx1p

other vitamin, cofactor and prosthetic-group activities

YDR541c		similarity to dihydroflavonol-4-reductases
YGL157w		similarity to *E. gunnii* cinnamyl alcohol dehydrogenase
YER183c		similarity to formyltetrahydrofolate cyclo-ligase
YHL018w		similarity to human pterin-4–-carbinolamine dehydratase
YGR169c		similarity to Rib2p
YGR144w	*THI4*	thiamine-repressed protein

ionic homeostasis

homeostasis of metal ions

YNL259c	*ATX1*	antioxidant protein and metal homeostasis factor
YJR049c	*UTR1*	associated with ferric reductase activity
YMR058w	*FET3*	cell-surface ferroxidase
YOR316c	*COT1*	cobalt accumulation protein
YPL177c	*CUP9*	copper homeostasis protein
YDR515w	*SLF1*	copper homeostasis protein
YPR124w	*CTR1*	copper transport protein
YHR175w	*CTR2*	copper transport protein
YLR411w	*CTR3*	copper transport protein
YGL166w	*CUP2*	copper-dependent transcription factor
YLR214w	*FRE1*	ferric (and cupric) reductase
YKL220c	*FRE2*	ferric (and cupric) reductase
YOR176w	*HEM15*	ferrochelatase
YGL255w	*ZRT1*	high-affinity zinc-transport protein
YLL009c	*COX17*	interacts genetically with *SCO1* and *SCO2* in cytochrome oxidase assembly
YBR037c	*SCO1*	involved in stabilization of Cox1p and Cox2p
YGL071w	*RCS1*	iron-regulated transcriptional repressor
YLR130c	*ZRT2*	low-affininty zinc transporter
YMR319c	*FET4*	low-affinity Fe(II) iron transport protein
YOL122c	*SMF1*	manganese transporter
YBR290w	*BSD2*	metal homeostasis protein
YKL064w	*MNR2*	overexpression overcomes manganese toxicity
YDR270w	*CCC2*	probable copper-transporting ATPase
YBR295w	*PCA1*	P-type Cu^{2+}-transporting ATPase
YGL096w		similarity to copper homeostasis protein Cup9p
YDR506c		similarity to Fet3p
YOL152w		similarity to Fre1p and Fre2p
YGL160w		similarity to hypothetical protein YLR047c and Fre2p
YJR126c		similarity to transferrin receptor protein
YFL041w		strong similarity to cell-surface ferroxidase Fet3p
YLL051c		strong similarity to ferric reductase Fre2p
YOR381w		strong similarity to ferric reductase Fre2p
YOR384w		strong similarity to ferric reductase Fre2p
YNR060w		strong similarity to Fre2p and hypothetical protein YOR381w, and similarity to Fre1p
YBR024w	*SCO2*	strong similarity to Sco1p
YOR031w	*CRS5*	suppressor of *cup1* deletion, metallothionein-like protein
YCL037c	*SRO9*	suppressor of *rho3*
YMR243c	*ZRC1*	zinc- and cadmium-resistance protein

homeostasis of other ions

YDL128w	*VCX1*	Ca^{2+}-transport (H^+/Ca^{2+} exchange) protein, vacuolar
YGL006w	*PMC1*	Ca^{2+}-transporting P-type ATPase
YGL167c	*PMR1*	Ca^{2+}-transporting P-type ATPase
YGR217w	*CCH1*	calcium channel protein
YLR348c		dicarboxylate carrier protein
YKL016c	*ATP7*	F1F0-ATPase complex, F0 D subunit
YBL099w	*ATP1*	F1F0-ATPase complex, F1 α subunit
YJR121w	*ATP2*	F1F0-ATPase complex, F1 β subunit
YDL004w	*ATP16*	F1F0-ATPase complex, F1 δ subunit
YPL078c	*ATP4*	F1F0-ATPase complex, F1 δ subunit
YPL271w	*ATP15*	F1F0-ATPase complex, F1 ε subunit
YBR039w	*ATP3*	F1F0-ATPase complex, F1 γ subunit
YDR298c	*ATP5*	F1F0-ATPase complex, OSCP subunit
YLR295c	*ATP14*	F1F0-ATPase complex, subunit h
YCR024c-a	*PMP1*	H^+-ATPase subunit, plasma membrane
YEL017c-a	*PMP2*	H^+-ATPase subunit, plasma membrane
YMR054w	*STV1*	H^+-ATPase V0 domain 102K subunit, vacuolar
YHR039c-a	*VMA10*	H^+-ATPase V0 domain 13K subunit, vacuolar
YEL027w	*CUP5*	H^+-ATPase V0 domain 17K subunit, vacuolar
YPL234c	*TFP3*	H^+-ATPase V0 domain 17K subunit, vacuolar
YLR447c	*VMA6*	H^+-ATPase V0 domain 36K subunit, vacuolar
YOR270c	*VPH1*	H^+-ATPase V0 domain 95K subunit, vacuolar
YGR020c	*VMA7*	H^+-ATPase V1 domain 14K subunit, vacuolar
YOR332w	*VMA4*	H^+-ATPase V1 domain 27K subunit, vacuolar
YEL051w	*VMA8*	H^+-ATPase V1 domain 32K subunit, vacuolar
YKL080w	*VMA5*	H^+-ATPase V1 domain 42K subunit, vacuolar
YPR036w	*VMA13*	H^+-ATPase V1 domain 54K subunit, vacuolar
YBR127c	*VMA2*	H^+-ATPase V1 domain 60K subunit, vacuolar
YDL185w	*TFP1*	H^+-ATPase V1 domain 69K subunit, vacuolar
YGL008c	*PMA1*	H^+-transporting P-type ATPase
YPL036w	*PMA2*	H^+-transporting P-type ATPase 2
YML123c	*PHO84*	high affinity inorganic phosphate/H^+ symporter
YJL129c	*TRK1*	high-affinity potassium transport protein
YBR294w	*SUL1*	high-affinity sulphate transport protein
YJL117w	*PHO86*	inorganic phospate transporter
YLR220w	*CCC1*	involved in calcium regulation
YCR037c	*PHO87*	member of the phosphate permease family
YJL093c	*TOK1*	outward-rectifier potassium channel
YJR077c	*MIR1*	phosphate transport protein, mitochondrial (MCF)
YEL031w	*SPF1*	P-type ATPase
YDR040c	*ENA1*	P-type ATPase involved in Na^+ and Li^+ efflux
YDR039c	*ENA2*	P-type ATPase involved in Na^+ efflux
YDR038c	*ENA5*	P-type ATPase involved in Na^+ efflux
YLR138w	*NHA1*	putative Na^+/H^+ antiporter
YBR235w		similarity to bumetanide-sensitive Na^+-K^+-Cl^- cotransport protein
YJL094c		similarity to *E. hirae* Na^+/H^+-antiporter NapA
YNR013c		similarity to membrane protein Pho87p and hypothetical protein YJL198w
YDR456w		similarity to NA^+/H^+ antiporters
YPR003c		similarity to sulphate transporter proteins
YER053c		strong similarity to mitochondrial phosphate carrier protein
YJL198w		strong similarity to Pho87p
YBR296c		strong similarity to phosphate-repressible phosphate permease
YLR092w	*SEL2*	strong similarity to Sul1p
YHL016c	*DUR3*	urea transport protein
YJR040w	*GEF1*	voltage-gated chloride channel protein

Energy

glycolysis

YGR240c	*PFK1*	6-phosphofructokinase, α subunit
YMR205c	*PFK2*	6-phosphofructokinase, β subunit
YIL107c	*PFK26*	6-phosphofructose-2-kinase, isoenzyme 1
YOL136c	*PFK27*	6-phosphofructose-2-kinase, isoenzyme 2
YNL071w	*LAT1*	dihydrolipoamide S-acetyltransferase
YGR254w	*ENO1*	enolase I (2-phosphoglycerate dehydratase)
YHR174w	*ENO2*	enolase II (2-phosphoglycerate dehydratase)
YOR393w	*ERR1*	enolase-related protein
YPL281c	*ERR2*	enolase-related protein
YKL060c	*FBA1*	fructose-bisphosphate aldolase
YBR196c	*PGI1*	glucose-6-phosphate isomerase
YJL052w	*TDH1*	glyceraldehyde-3-phosphate dehydrogenase 1
YJR009c	*TDH2*	glyceraldehyde-3-phosphate dehydrogenase 2
YGR192c	*TDH3*	glyceraldehyde-3-phosphate dehydrogenase 3
YOL059w	*GPD3*	glycerol-3-phosphate dehydrogenase (NAD^+), mitochondrial
YFR053c	*HXK1*	hexokinase I
YGL253w	*HXK2*	hexokinase II
YCR012w	*PGK1*	phosphoglycerate kinase
YKL152c	*GPM1*	phosphoglycerate mutase
YOL056w	*GPM3*	phosphoglycerate mutase
YER178w	*PDA1*	pyruvate dehydrogenase (lipoamide) α subunit
YBR221c	*PDB1*	pyruvate dehydrogenase (lipoamide) β subunit
YGR193c	*PDX1*	pyruvate dehydrogenase complex protein X
YAL038w	*CDC19*	pyruvate kinase
YLR345w		similarity to 6-phosphofructo-2-kinase
YDL021w	*GPM2*	strong similarity to phosphoglycerate mutase Gpm1p
YMR323w		strong similarity to phosphopyruvate hydratases
YOR347c		strong similarity to pyruvate kinase
YKL029c		strong similarity to *S. pombe* malate oxireductase
YMR125w	*GCR3*	transcription factor for glycolytic genes
YDR050c	*TPI1*	triose-phosphate isomerase
YKR043c		weak similarity to phosphoglycerate mutase
YOR283w		weak similarity to phosphoglycerate mutases

gluconeogenesis

YOR393w	*ERR1*	enolase-related protein
YPL281c	*ERR2*	enolase-related protein
YLR377c	*FBP1*	fructose-1,6-bisphosphatase
YBR196c	*PGI1*	glucose-6-phosphate isomerase
YER065c	*ICL1*	isocitrate lyase
YKR097w	*PCK1*	phosphoenolpyruvate carboxykinase
YCR012w	*PGK1*	phosphoglycerate kinase
YGL062w	*PYC1*	pyruvate carboxylase 1
YBR218c	*PYC2*	pyruvate carboxylase 2
YIL167w	*SDL1*	serine dehydratase
YOR347c		strong similarity to pyruvate kinase
YMR280c	*CAT8*	transcription factor involved in gluconeogenesis
YDR050c	*TPI1*	triose-phosphate isomerase

pentose-phosphate pathway

YHR183w	*GND1*	6-phosphogluconate dehydrogenase
YOR095c	*RKI1*	D-ribose-5-phosphate ketol-isomerase
YJL121c	*POS18*	D-ribulose-5-phosphate 3-epimerase
YNL241c	*ZWF1*	glucose-6-phosphate dehydrogenase
YGR256w	*GND2*	phosphogluconate dehydrogenase
YGR043c		strong similarity to transaldolase
YLR354c	*TAL1*	transaldolase
YPR074c	*TKL1*	transketolase 1
YBR117c	*TKL2*	transketolase 2

tricarboxylic-acid pathway

YIL125w	*KGD1*	2-oxoglutarate dehydrogenase complex E1 component
YDR148c	*KGD2*	2-oxoglutarate dehydrogenase complex E2 component
YLR304c	*ACO1*	aconitate hydratase
YNR001c	*CIT1*	citrate (si)-synthase, mitochondrial
YPR001w	*CIT3*	citrate (si)-synthase, mitochondrial
YFL018c	*LPD1*	dihydrolipoamide dehydrogenase
YPL262w	*FUM1*	fumarate hydratase
YNL009w		homology to isocitrate dehydrogenase
YNL037c	*IDH1*	isocitrate dehydrogenase (NAD^+) subunit 1, mitochondrial
YOR136w	*IDH2*	isocitrate dehydrogenase (NAD^+) subunit 2, mitochondrial
YLR174w	*IDP2*	isocitrate dehydrogenase, cytosolic
YOL126c	*MDH2*	malate dehydrogenase, cytoplasmic
YOR297c		similarity to SDH4 protein
YJL200c		strong similarity to aconitate hydratase
YGR244c		strong similarity to rumen fungus β-succinyl-CoA synthetase
YLR164w		strong similarity to Sdh4p
YMR118c		strong similarity to succinate dehydrogenase
YJL045w		strong similarity to succinate dehydrogenase flavoprotein
YOR142w		strong similarity to succinate-CoA ligase α subunit
YKL148c	*SDH1*	succinate dehydrogenase flavoprotein
YLL041c	*SDH2*	succinate dehydrogenase iron-sulphur protein subunit
YDR178w	*SDH4*	succinate dehydrogenase membrane anchor subunit for Sdh2p

respiration

YMR282c	*AEP2*	2'-O-ribosyl phosphate transferase
YGR008c	*STF2*	ATPase stabilizing factor
YDL130w-a	*STF1*	ATPase stabilizing factor, 10K
YDR377w	*ATP17*	ATPase synthase subunit f
YER061c	*CEM1*	β-keto-acyl-ACP synthase
YIL043c	*CBR1*	cytochrome b5 reductase
YKL150w	*MCR1*	cytochrome b5 reductase
YKL141w	*SDH3*	cytochrome b560 subunit of respiratory complex II
YJR048w	*CYC1*	cytochrome c isoform 1
YEL039c	*CYC7*	cytochrome c isoform 2

YML129c	*COX14*	cytochrome c oxidase assembly protein
YDR079w	*PET100*	cytochrome c oxidase assembly protein
YGL187c	*COX4*	cytochrome c oxidase subunit IV
YNL052w	*COX5A*	cytochrome c oxidase subunit V.A
YIL111w	*COX5B*	cytochrome c oxidase subunit Vb
YHR051w	*COX6*	cytochrome c oxidase subunit VI
YGL191w	*COX13*	cytochrome c oxidase subunit VIa
YLR038c	*COX12*	cytochrome c oxidase subunit VIB
YMR256c	*COX7*	cytochrome c oxidase subunit VII
YDL067c	*COX9*	cytochrome c oxidase subunit VIIA
YLR395c	*COX8*	cytochrome c oxidase subunit VIII
YOR065w	*CYT1*	cytochrome c1
YER154w	*OXA1*	cytochrome oxidase biogenesis protein
YGR207c	*ETF-β*	electron-transferring flavoprotein, β subunit
YKL016c	*ATP7*	F1F0-ATPase complex, F0 D subunit
YBL099w	*ATP1*	F1F0-ATPase complex, F1 α subunit
YJR121w	*ATP2*	F1F0-ATPase complex, F1 β subunit
YDL004w	*ATP16*	F1F0-ATPase complex, F1 δ subunit
YPL078c	*ATP4*	F1F0-ATPase complex, F1 δ subunit
YPL271w	*ATP15*	F1F0-ATPase complex, F1 ε subunit
YBR039w	*ATP3*	F1F0-ATPase complex, F1 γ subunit
YDR298c	*ATP5*	F1F0-ATPase complex, OSCP subunit
YLR295c	*ATP14*	F1F0-ATPase complex, subunit h
YEL053c	*MAK10*	glucose-repressible protein
YLL009c	*COX17*	interacts genetically with *SCO1* and *SCO2* in cytochrome oxidase assembly
YJR034w	*PET191*	involved in assembly of cytochrome oxidase
YMR165c	*SMP2*	involved in plasmid maintenance, respiration and cell proliferation
YML054c	*CYB2*	lactate dehydrogenase cytochrome b2
YBR192w	*RIM2*	mitochondrial carrier protein (MCF)
YMR089c	*YTA12*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YLR044c	*PDC1*	pyruvate decarboxylase, isozyme 1
YGR062c	*COX18*	required for activity of mitochondrial cytochrome oxidase
YBR185c	*MBA1*	respiratory chain assembly protein
YDL107w	*MSS2*	ser/thr protein kinase
YPR048w		similarity to *M. domestica* NADPH-ferrihemoprotein reductase and mammalian nitric-oxide synthases
YGL226w		similarity to *N. crassa* cytochrome c oxidase subunit V
YMR244w		similarity to NCA3 and SUN4 protein
YML087c		strong similarity to cytochrome b5- and nitrate reductases
YML125c		strong similarity to cytochrome b5- and nitrate reductases
YPR004c		strong similarity to electron transfer flavoproteins α subunit
YOR356w		strong similarity to human electron transfer flavoprotein-ubiquinone oxidoreductase
YDL085w		strong similarity to NADH dehydrogenase (ubiquinone)
YMR145c		strong similarity to NADH dehydrogenase (ubiquinone)
YDL080c		strong similarity to pyruvate decarboxylases
YDR178w	*SDH4*	succinate dehydrogenase membrane anchor subunit for Sdh2p
YNL118c	*PSU1*	suppressor protein of a yeast *pet* mutant
YFR033c	*QCR6*	ubiquinol-cytochrome c reductase 17K protein
YPR191w	*QCR2*	ubiquinol-cytochrome c reductase 40K subunit II
YBL045c	*COR1*	ubiquinol-cytochrome c reductase 44K core protein
YHR001w-a	*QCR10*	ubiquinol-cytochrome c reductase 8.5K subunit
YGR174c	*CBP4*	ubiquinol-cytochrome c reductase assembly factor
YGL119w	*ABC1*	ubiquinol-cytochrome c reductase complex assembly protein
YEL024w	*RIP1*	ubiquinol-cytochrome c reductase iron-sulphur protein
YDR529c	*QCR7*	ubiquinol-cytochrome c reductase subunit 7
YGR183c	*QCR9*	ubiquinol-cytochrome c reductase subunit 9
YJL166w	*QCR8*	ubiquinol-cytochrome c reductase subunit VIII
YMR073c		weak similarity to C-terminal part of cytochrome b5 and b2
YNL237w	*YTP1*	weak similarity to mitochondrial electron transport proteins

fermentation

YOL086c	*ADH1*	alcohol dehydrogenase I
YMR303c	*ADH2*	alcohol dehydrogenase II
YMR083w	*ADH3*	alcohol dehydrogenase III
YGL256w	*ADH4*	alcohol dehydrogenase IV
YBR145w	*ADH5*	alcohol dehydrogenase V
YER073w		aldehyde dehydrogenase (NAD^+)
YPL061w	*ALD6*	aldehyde dehydrogenase, cytosolic
YDL174c	*DLD1*	D-lactate ferricytochrome c oxidoreductase (D-LCR)
YML004c	*GLO1*	glyoxalase I
YOR126c	*EST2*	isoamyl acetate hydrolytic enzyme
YPL275w		putative formate dehydrogenase/putative pseudogene
YPL276w		putative formate dehydrogenase/putative pseudogene
YDR081c	*PDC2*	pyruvate decarboxylase regulatory protein
YLR044c	*PDC1*	pyruvate decarboxylase, isozyme 1
YLR134w	*PDC5*	pyruvate decarboxylase, isozyme 2
YGR087c	*PDC6*	pyruvate decarboxylase, isozyme3
YAL060w	*FUN49*	similarity to alcohol/sorbitol dehydrogenase
YAL061w	*FUN50*	similarity to alcohol/sorbitol dehydrogenase
YMR318c		similarity to alcohol-dehydrogenase
YHR039c		similarity to aldehyde dehydrogenases
YPL088w		similarity to aryl-alcohol dehydrogenases
YMR285c		similarity to Ccr4p
YHL008c		similarity to *M. formicicum* formate dehydrogenase
YKR096w		similarity to mitochondrial aldehyde dehydrogenase Ald1p
YDR380w		similarity to pyruvate decarboxylases
YNL331c		strong similarity aryl-alcohol reductase
YCR107w		strong similarity aryl-alcohol reductases
YCR105w		strong similarity to alcohol dehydrogenases
YMR169c	*ALD4*	strong similarity to aldehyde dehydrogenase
YDL243c		strong similarity to aryl-alcohol dehydrogenase
YJR155w		strong similarity to aryl-alcohol dehydrogenase
YFL056c		strong similarity to aryl-alcohol dehydrogenases
YFL057c		strong similarity to aryl-alcohol dehydrogenases
YOL165c		strong similarity to aryl-alcohol dehydrogenases
YOR388c		strong similarity to *H. polymorpha* formate dehydrogenase

metabolism of energy reserves (glycogen and trehalose)

YEL011w	*GLC3*	1,4-glucan branching enzyme (glycogen branching enzyme)
YBR001c	*NTH2*	α,α-trehalase
YDR074w	*TPS2*	α,α-trehalose-phosphate synthase, 105K subunit
YMR261c	*TPS3*	α,α-trehalose-phosphate synthase, 115K subunit
YML100w	*TSL1*	α,α-trehalose-phosphate synthase, 123K subunit
YBR126c	*TPS1*	α,α-trehalose-phosphate synthase, 56K subunit
YPR026w	*ATH1*	acid trehalase, vacuolar
YBR299w	*MAL32*	α-glucosidase
YHR047c	*AAP1*	alanine/arginine aminopeptidase
YPL031c	*PHO85*	cyclin-dependent protein kinase
YLR071c	*RGR1*	DNA-directed RNA polymerase II holoenzyme subunit
YER054c	*GIP2*	Glc7p-interacting protein
YBR229c	*ROT2*	glucosidase II, catalytic subunit
YPR160w	*GPH1*	glycogen phosphorylase
YPL240c	*HSP82*	heat-shock protein
YKL128c	*PMU1*	high copy suppressor of ts *tps2* mutant phenotype
YDR001c	*NTH1*	neutral trehalase (α,α-trehalase)
YMR105c	*PGM2*	phosphoglucomutase, major isoform
YKL127w	*PGM1*	phosphoglucomutase, minor isoform
YNR032w	*PPG1*	phosphoprotein phosphatase PPG catalytic subunit
YBL058w	*SHP1*	potential regulatory subunit for Glc7p
YLR273c	*PIG1*	protein interacting with Gsy2p
YIL045w	*PIG2*	protein interacting with Gsy2p
YJL137c	*GLG2*	self-glucosylating initiator of glycogen synthesis
YKR058w	*GLG1*	self-glycosylating initiator of glycogen synthesis
YER133w	*GLC7*	ser/thr phosphoprotein phosphatase 1, catalytic subunit
YOR178c	*GAC1*	ser/thr phosphoprotein phosphatase 1, regulatory subunit
YPR184w		similarity to glycogen debranching enzymes
YJL221c	*FSP2*	strong similarity to α-D-glucosidase
YOL157c		strong similarity to α-glucosidases
YIL172c		strong similarity to Fsp2p
YJL216c		strong similarity to Mal62p
YFR015c	*GSY1*	UDP glucose-starch glucosyltransferase, isoform 1
YLR258w	*GSY2*	UDP-glucose-starch glucosyltransferase, isoform 2
YKL035w	*UGP1*	UTP-glucose-1-phosphate uridylyltransferase

other energy-generation activities

YIL160c	*POT1*	acetyl-CoA C-acyltransferase, peroxisomal
YGL205w	*POX1*	acyl-CoA oxidase
YMR170c	*ALD5*	aldehyde dehydrogenase 2 (NAD^+), mitochondrial
YML035c	*AMD1*	AMP deaminase
YCR005c	*CIT2*	citrate (si)-synthase, peroxisomal
YKR009c	*FOX2*	hydratase-dehydrogenase-epimerase, peroxisomal
YMR267w	*PPA2*	inorganic pyrophosphatase, mitochondrial
YDL066w	*IDP1*	isocitrate dehydrogenase ($NADP^+$), mitochondrial
YER065c	*ICL1*	isocitrate lyase
YKL085w	*MDH1*	malate dehydrogenase, mitochondrial
YDL078c	*MDH3*	malate dehydrogenase, peroxisomal
YNL117w	*MLS1*	malate synthase 1
YIR031c	*DAL7*	malate synthase 2
YHR179w	*OYE2*	NAPDH dehydrogenase (old yellow enzyme), isoform 1
YPL171c	*OYE3*	NAPDH dehydrogenase (old yellow enzyme), isoform 3
YPR006c	*ICL2*	non-functional isocitrate lyase
YOL079w		similarity to NADH dehydrogenase
YEL020c		similarity to *O. formigenes* oxalyl-CoA decarboxylase
YDR384c		strong similarity to *Y. lipolytica GPR1* gene

Cell growth, cell division and DNA synthesis

cell growth

YPL268w	*PLC1*	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase
YCR088w	*ABP1*	actin-binding protein
YDL029w	*ACT2*	actin-like protein
YOL052c	*SPE2*	adenosylmethionine decarboxylase
YNL138w	*SRV2*	adenylate cyclase-associated protein, 70K
YER170w	*ADK2*	adenylate kinase, mitochondrial
YBR109c	*CMD1*	calmodulin
YHR135c	*YCK1*	casein kinase I isoform
YNL154c	*YCK2*	casein kinase I isoform
YJL174w	*KRE9*	cell-wall synthesis protein
YNL327w	*EGT2*	cell-cycle regulation protein
YLR175w	*CBF5*	centromere/microtubule binding protein
YGR167w	*CLC1*	clathrin light chain
YDR251w	*PAM1*	coiled-coil protein multicopy suppressor of loss of PP2A
YBL007c	*SLA1*	cytoskeleton assembly control protein
YFL001w	*DEG1*	depressed growth-rate protein
YLR300w	*EXG1*	exo-1,3—glucanase (I/II), major isoform
YDR261c	*EXG2*	exo-1,3—glucanase minor isoform
YPR159w	*KRE6*	glucan synthase subunit
YBR212w	*NGR1*	glucose-repressible RNA-binding protein
YOR043w	*WHI2*	growth regulation protein
YKL021c	*MAK11*	involved in cell growth and replication of M1 dsRNA virus
YMR165c	*SMP2*	involved in plasmid maintenance, respiration and cell proliferation
YNL197c	*WHI3*	involved in regulation of cell size
YDR293c	*SSD1*	involved in the tolerance to high concentration of Ca^{2+}
YOR336w	*KRE5*	killer toxin-resistance protein
YDR480w	*DIG2*	MAP kinase-associated protein
YJR032w	*CPR7*	member of the cyclophilin family
YGR029w	*ERV1*	mitochondrial biogenesis and cell viability protein
YBR089c-a	*NHP6B*	nonhistone chromosomal protein
YPR052c	*NHP6A*	nonhistone chromosomal protein related to mammalian HMG1
YKL203c	*TOR2*	phosphatidylinositol 3-kinase
YCR034w	*GNS1*	probable 1,3—glucan synthase subunit
YOR149c	*SMP3*	protein kinase C pathway protein
YPL140c	*MKK2*	protein kinase of the MAP kinase kinase (MEK) family
YDR151c	*CTH1*	protein of the inducible CCCH zinc-finger family
YDR075w	*PPH3*	protein ser/thr phosphatase
YDL006w	*PTC1*	protein ser/thr phosphatase 2c
YDL134c	*PPH21*	protein ser/thr phosphatase PP2A-1
YDL188c	*PPH22*	protein ser/thr phosphatase PP2A-2
YDR137w	*RGP1*	reduced growth phenotype protein
YJR090c	*GRR1*	required for glucose repression and for glucose and cation transport
YGL190c	*CDC55*	ser/thr phosphatase 2A regulatory subunit B
YAL016w	*TPD3*	ser/thr phosphatase 2A, regulatory subunit A
YOR231w	*MKK1*	ser/thr protein kinase
YPR161c	*SGV1*	ser/thr protein kinase
YHR030c	*SLT2*	ser/thr protein kinase of MAP kinase family
YJL095w	*BCK1*	ser/thr protein kinase of the MEKK family
YER167w	*BCK2*	ser/thr protein kinase of the protein kinase C pathway
YNL180c		similarity to *S. pombe* Cdc42p and other GTP-binding proteins
YOR027w	*STI1*	stress-induced protein
YGL106w		strong similarity to calmodulins
YER177w	*BMH1*	strong similarity to mammalian 14-3-3 proteins
YPL032c		strong similarity to Pam1p
YKL161c		strong similarity to ser/thr-specific protein kinase Slt2p
YDL224c		strong similarity to WHI3 protein
YDR099w	*BMH2*	suppressor of clathrin deficiency
YJR075w	*HOC1*	suppressor of *pkc1*
YOR075w	*UFE1*	syntaxin (T-SNARE) of the ER
YHR206w	*SKN7*	transcription factor with similarity to Hsf1p
YNL079c	*TPM1*	tropomyosin 1
YLR337w	*VRP1*	verprolin
YLR403w	*SFP1*	zinc-finger protein

budding, cell polarity and filament formation

YFL039c	*ACT1*	actin
YDR129c	*SAC6*	actin filament bundling protein, fimbrin
YCR088w	*ABP1*	actin-binding protein
YDL029w	*ACT2*	actin-like protein
YNL138w	*SRV2*	adenylate cyclase-associated protein, 70K
YOR304c-a	*BAT2*	AIP3 binding protein

YBL085w	*BOI1*	BEM1 protein-binding protein
YBR200w	*BEM1*	bud emergence mediator
YPL161c	*BEM4*	bud emergence protein
YDR351w	*SBE2*	bud growth protein
YLR319c	*BUD6*	bud site selection protein
YNL271c	*BNI1*	budding protein
YER114c	*BOI2*	budding protein
YJR092w	*BUD4*	budding protein
YLR353w	*BUD8*	budding protein
YGR041w	*BUD9*	budding protein
YBR109c	*CMD1*	calmodulin
YHR135c	*YCK1*	casein kinase I isoform
YNL154c	*YCK2*	casein kinase I isoform
YPL255w	*BBP1*	cell division control protein
YDR182w	*CDC1*	cell division control protein
YLR314c	*CDC3*	cell division control protein
YFL009w	*CDC4*	cell division control protein
YJL174w	*KRE9*	cell-wall synthesis protein
YBR038w	*CHS2*	chitin synthase II
YBR023c	*CHS3*	chitin synthase III
YLR330w	*CHS5*	chitin synthesis protein
YLL050c	*COF1*	cofilin, actin binding and severing protein
YDR251w	*PAM1*	coiled-coil protein multicopy suppressor of loss of PP2A
YPL256c	*CLN2*	cyclin, G1/S specific
YBR160w	*CDC28*	cyclin-dependent protein kinase
YNL243w	*SLA2*	cytoskeleton assembly control protein
YLR071c	*RGR1*	DNA-directed RNA polymerase II holoenzyme subunit
YKL007w	*CAP1*	F-actin capping protein, α subunit
YIL034c	*CAP2*	F-actin capping protein, β subunit
YJL157c	*FAR1*	factor arrest protein
YAL041w	*CDC24*	GDP/GTP exchange factor for Cdc42p
YCR038c	*BUD5*	GDP/GTP exchange factor for Rsr1p/Bud1p
YGR070w	*ROM1*	GDP/GTP exchange protein for Rho1p
YLR371w	*ROM2*	GDP/GTP exchange protein for Rho1p
YGL155w	*CDC43*	geranylgeranyltransferase type I β subunit
YER155c	*BEM2*	GTPase-activating protein
YKL092c	*BUD2*	GTPase-activating protein for Bud1p/Rsr1p
YPL115c	*BEM3*	GTPase-activating protein for Cdc42p and Rho1p
YGR152c	*RSR1*	GTP-binding protein
YLR229c	*CDC42*	GTP-binding protein of RAS superfamily
YIL118w	*RHO3*	GTP-binding protein of the RHO family
YKR055w	*RHO4*	GTP-binding protein of the RHO family
YPR165w	*RHO1*	GTP-binding protein of the RHO subfamily of RAS-like proteins
YNL090w	*RHO2*	GTP-binding protein of the RHO subfamily of RAS-like proteins
YOR156c	*NFI1*	interacts with Cdc12p in 2-hybrid assay
YKR063c	*LAS1*	involved in cell morphogenesis, cytoskeletal regulation and bud formation
YLL021w	*SPA2*	involved in cell polarity
YDR085c	*AFR1*	involved in morphogenesis of the mating projection
YMR273c	*ZDS1*	involved in negative regulation of cell polarity
YER149c	*PEA2*	involved in oriented growth towards mating partner
YDR293c	*SSD1*	involved in the tolerance to high concentration of Ca^{2+}
YKL079w	*SMY1*	kinesin-related protein
YOR198c	*BFR1*	maintenance of normal ploidy
YJL158c		member of the Pir1p/Hsp150p/Pir3p family
YJL159w		member of the Pir1p/Hsp150p/Pir3p family
YJL160c		member of the Pir1p/Hsp150p/Pir3p family
YOR188w	*MSB1*	morphogenesis-related protein
YGR014w	*MSB2*	multicopy suppressor of a *cdc24* bud emergence defect
YHR023w	*MYO1*	myosin 1 isoform (type II myosin) heavy chain
YOR326w	*MYO2*	myosin heavy chain
YAL029c	*MYO4*	myosin heavy chain, unconventional (class V) isoform
YMR109w	*MYO5*	myosin I
YKL129c	*MYO3*	myosin type I
YBR089c-a	*NHP6B*	nonhistone chromosomal protein
YPR052c	*NHP6A*	nonhistone chromosomal protein related to mammalian HMG1
YCR057c	*PWP2*	periodic tryptophan protein
YBL058w	*SHP1*	potential regulatory subunit for Glc7p
YCR034w	*GNS1*	probable 1,3—glucan synthase subunit
YER108c	*FLO8*	probable transcriptional activator of Flo1p
YOR122c	*PFY1*	profilin
YPR122w	*AXL1*	protease
YOR149c	*SMP3*	protein kinase C pathway protein
YPL140c	*MKK2*	protein kinase of the MAP kinase kinase (MEK) family
YDL047w	*SIT4*	protein ser/thr phosphatase
YDL006w	*PTC1*	protein ser/thr phosphatase 2c
YDL134c	*PPH21*	protein ser/thr phosphatase PP2A-1
YDL188c	*PPH22*	protein ser/thr phosphatase PP2A-2
YDR388w	*RVS167*	reduced viability upon starvation protein
YMR016c	*SOK2*	regulatory protein in the PKA signal transduction pathway
YCL014w	*BUD3*	required for axial budding
YIL140w	*SRO4*	required for axial pattern of budding
YER109c	*FLO8*	required for diploid filamentous growth
YNL084c	*END3*	required for endocytosis and cytoskeletal organization
YJR090c	*GRR1*	required for glucose repression and for glucose and cation transport
YDL135c	*RDI1*	RHO GDP dissociation inhibitor with activity toward Rho1p
YOR127w	*RGA1*	RHO-type GTPase-activating protein for Cdc42p
YKL181w	*PRPS1*	ribose-phosphate pyrophosphokinase
YJR076c	*CDC11*	septin
YHR107c	*CDC12*	septin
YGL190c	*CDC55*	ser/thr phosphatase 2A regulatory subunit B
YAL016w	*TPD3*	ser/thr phosphatase 2A, regulatory subunit A
YER133w	*GLC7*	ser/thr phosphoprotein phosphatase 1, catalytic subunit
YOR178c	*GAC1*	ser/thr phosphoprotein phosphatase 1, regulatory subunit
YKL048c	*ELM1*	ser/thr protein kinase
YOR231w	*MKK1*	ser/thr protein kinase
YBL105c	*PKC1*	ser/thr protein kinase
YHR030c	*SLT2*	ser/thr protein kinase of MAP kinase family
YJL095w	*BCK1*	ser/thr protein kinase of the MEKK family
YLR362w	*STE11*	ser/thr protein kinase of the MEKK family
YER167w	*BCK2*	ser/thr protein kinase of the protein kinase C pathway
YDL159w	*STE7*	ser/thr/tyr protein kinase of MAP kinase kinase family
YDL225w		similarity to Cdc11p, Cdc3p and human CDC10 protein
YGL054c		similarity to *D. melanogaster* cni protein
YCR009c	*RVS161*	similarity to human amphiphysin and Rvs167p
YDR208w	*MSS4*	similarity to human PI P 5-kinase
YDR409w		similarity to Nfi1p
YDL125c	*YHI1*	similarity to protein kinase C inhibitor-I
YDR245w	*MNN10*	similarity to *S. pombe* galactosyltransferase
YFR040w	*SAP155*	Sit4p-associated protein
YKR028w	*SAP190*	Sit4p-associated protein
YJL098w	*SAP185*	Sit4p-associating protein
YLR372w	*SUR4*	sterol isomerase
YHR103w	*SBE22*	strong similarity to budding protein Sbe2p
YGL106w		strong similarity to calmodulins
YBR210w		strong similarity to *D. melanogaster* cornichon protein
YPL032c		strong similarity to Pam1p
YNL320w		strong similarity to *S. pombe* Bem46p
YKL161c		strong similarity to ser/thr-specific protein kinase Slt2p
YBR161w		strong similarity to Sur1p
YJR075w	*HOC1*	suppressor of *pkc1*
YDR297w	*SUR2*	suppressor of *rvs161* and *rvs167* mutations
YPL057c	*SUR1*	suppressor of r*vs161*, r*vs167*, and *cls2* mutations
YKL043w	*PHD1*	transcription factor
YGL181w	*GTS1*	transcription factor of the Gcs1p/Glo3p/Sps18p family
YHR084w	*STE12*	transcriptional activator
YNL079c	*TPM1*	tropomyosin 1
YIL138c	*TPM2*	tropomyosin 2
YBR083w	*TEC1*	Ty transcription activator
YGL095c	*VPS45*	vacuolar protein sorting-associated protein
YLR337w	*VRP1*	verprolin

pheromone response and mating-type determination

YJR004c	*SAG1*	α-agglutinin
YNR044w	*AGA1*	α-agglutinin anchor subunit
YGL032c	*AGA2*	α-agglutinin binding subunit
YDR264c	*AKR1*	ankyrin repeat-containing protein
YKL209c	*STE6*	ATP-binding cassette transporter protein
YIL015w	*BAR1*	barrier pepsin
YBR200w	*BEM1*	bud emergence mediator
YPL161c	*BEM4*	bud emergence protein
YML057w	*CMP2*	calcineurin B, catalytic subunit
YLR433c	*CNA1*	calcineurin B, catalytic subunit
YKL190w	*CNB1*	calcineurin B, regulatory subunit
YBR109c	*CMD1*	calmodulin
YCR002c	*CDC10*	cell division control protein
YLR314c	*CDC3*	cell division control protein
YNL188w	*KAR1*	cell division control protein
YCL027w	*FUS1*	cell fusion protein
YJL174w	*KRE9*	cell-wall synthesis protein
YNL192w	*CHS1*	chitin synthase I
YBR023c	*CHS3*	chitin synthase III
YLR330w	*CHS5*	chitin synthesis protein
YDR073w	*SNF11*	component of SWI/SNF transcription activator complex
YOR290c	*SNF2*	component of SWI/SNF transcription activator complex
YBR289w	*SNF5*	component of SWI/SNF transcription activator complex
YPL016w	*SWI1*	component of SWI/SNF transcription activator complex
YPL256c	*CLN2*	cyclin, G1/S specific
YNL243w	*SLA2*	cytoskeleton assembly control protein
YER095w	*RAD51*	DNA repair protein
YDR076w	*RAD55*	DNA repair protein
YDR004w	*RAD57*	DNA repair protein
YAR007c	*RFA1*	DNA replication factor A, 69K subunit
YOL051w	*GAL11*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YLR071c	*RGR1*	DNA-directed RNA polymerase II holoenzyme subunit
YBR253w	*SRB6*	DNA-directed RNA polymerase II suppressor protein
YNL053w	*MSG5*	dual-specifity protein phosphatase
YNL238w	*KEX2*	endoproteinase of late Golgi compartment
YLR300w	*EXG1*	exo-1,3—glucanase (I/II), major isoform
YDR261c	*EXG2*	exo-1,3—glucanase minor isoform
YKL007w	*CAP1*	F-actin capping protein, α subunit
YIL034c	*CAP2*	F-actin capping protein, β subunit
YJL157c	*FAR1*	factor arrest protein
YAL041w	*CDC24*	GDP/GTP exchange factor for Cdc42p
YGL097w	*SRM1*	GDP/GTP exchange factor for Gsp1p/Gsp2p
YNL236w	*SIN4*	global regulator protein
YHL025w	*SNF6*	global transcription activator
YKL104c	*GFA1*	glucosamine-fructose-6-phosphate transaminase
YPL115c	*BEM3*	GTPase-activating protein for Cdc42p and Rho1p
YHR005c	*GPA1*	GTP-binding protein α subunit of the pheromone pathway
YOR212w	*STE4*	GTP-binding protein β subunit of the pheromone pathway
YJR086w	*STE18*	GTP-binding protein γ subunit of the pheromone pathway
YLR229c	*CDC42*	GTP-binding protein of RAS superfamily
YNL173c	*MDG1*	GTP-binding protein of the pheromone pathway
YER020w	*GPA2*	guanine nucleotide-binding regulatory protein
YDL227c	*HO*	homothallic switching endonuclease
YNL291c	*MID1*	involved in Ca^{2+} influx during mating
YLL021w	*SPA2*	involved in cell polarity
YLR452c	*SST2*	involved in desensitization to α-factor pheromone
YDR085c	*AFR1*	involved in morphogenesis of the mating projection
YER149c	*PEA2*	involved in oriented growth toward mating partner
YMR052w	*FAR3*	involved in pheromone-mediated cell cycle arrest
YMR127c	*SAS2*	involved in silencing at HMR
YPR141c	*KAR3*	kinesin-related protein
YPL187w	*MFα1*	mating pheromone α-1 factor
YGL089c	*MFα2*	mating pheromone α-2 factor
YDR461w	*MFA1*	mating pheromone a-factor 1
YNL145w	*MFA2*	mating pheromone a-factor 2
YLR332w	*MID2*	mating process protein
YHR066w	*SSF1*	mating protein
YDR143c	*SAN1*	mating type regulatory protein
YCR040w	*MATα1*	mating type regulatory protein (expressed copy at MAT locus)
YCR039c	*MATα2*	mating type regulatory protein (expressed copy at MAT locus)
YCL066w	*α1*	mating type regulatory protein (silenced copy at HML locus)
YCL067c	*α2*	mating type regulatory protein (silenced copy at HML locus)
YCR097w	*A1*	mating type regulatory protein (silenced copy at HMR locus)
YCR096c	*A2*	mating type regulatory protein (silenced copy at HMR locus)
YIL047c	*SYG1*	member of the major facilitator superfamily
YBL016w	*FUS3*	mitogen-activated protein kinase (MAP kinase)
YGL151w	*NUT1*	negative regulator of HO endonuclease
YPR168w	*NUT2*	negative regulator of HO endonuclease
YKL185w	*ASH1*	negative regulator of HO expression
YCL029c	*BIK1*	nuclear fusion protein
YML065w	*ORC1*	origin recognition complex, 104K subunit
YNL261w	*ORC5*	origin recognition complex, 50K subunit
YHR118c	*ORC6*	origin recognition complex, 50K subunit
YPR162c	*ORC4*	origin recognition complex, 56K subunit
YLL004w	*ORC3*	origin recognition complex, 62K subunit
YBR060c	*RRR1*	origin recognition complex, 72K subunit
YFL026w	*STE2*	pheromone α-factor receptor
YKL178c	*STE3*	pheromone α-factor receptor
YCL032w	*STE50*	pheromone response pathway protein
YDR103w	*STE5*	pheromone signal transduction pathway protein
YCR034w	*GNS1*	probable 1,3—glucan synthase subunit
YLR389c	*STE23*	protease involved in α-factor processing
YML032c	*RAD52*	recombination and DNA repair protein
YDR392w	*SPT3*	regulatory protein
YCL055w	*KAR4*	regulatory protein required for pheromone induction of karyogamy genes
YMR232w	*FUS2*	required for cell fusion during mating
YBR040w	*FIG1*	required for efficient mating
YCR089w	*FIG2*	required for efficient mating
YNL084c	*END3*	required for endocytosis and cytoskeletal organization
YKL130c	*SHE2*	required for mother cell-specific expression of HO
YOR035c	*SHE4*	required for mother cell-specific gene expression
YOR127w	*RGA1*	RHO-type GTPase-activating protein for Cdc42p
YLR441c	*RP10A*	ribosomal protein S3a.e
YJR076c	*CDC11*	septin
YHR107c	*CDC12*	septin
YPR161c	*SGV1*	ser/thr protein kinase
YGR040w	*KSS1*	ser/thr protein kinase of the MAP kinase family
YLR362w	*STE11*	ser/thr protein kinase of the MEKK family
YHL007c	*STE20*	ser/thr protein kinase of the pheromone pathway

YDL159w	*STE7*	ser/thr/tyr protein kinase of MAP kinase kinase family
YOL068c	*HST1*	silencing protein
YBL052c	*SAS3*	silencing protein
YKR101w	*SIR1*	silencing regulatory protein
YDL042c	*SIR2*	silencing regulatory protein
YLR442c	*SIR3*	silencing regulatory protein
YDR227w	*SIR4*	silencing regulatory protein
YNL283c		similarity to a-agglutinin core protein Aga1p
YDL225w		similarity to Cdc11p, Cdc3p and human CDC10 protein
YDR191w	*HST4*	similarity to Hst3p,Hst1p and Sir2p
YGR023w		similarity to Mid2p
YHR146w		similarity to pheromone-response G-protein YNL173c
YKL117w		Ste5p-associated protein
YGL106w		strong similarity to calmodulins
YJL212c		strong similarity to *S. pombe* isp4 protein
YDR312w	*SSF2*	strong similarity to SSF1 protein
YPL129w	*ANC1*	TFIIF subunit (transcription initiation factor), 30K
YDR146c	*SWI5*	transcription factor
YMR043w	*MCM1*	transcription factor of the MADS box family
YNL330c	*RPD3*	transcription modifier protein
YOL004w	*SIN3*	transcription regulatory protein
YJL176c	*SWI3*	transcription regulatory protein
YHR084w	*STE12*	transcriptional activator
YER068w	*MOT2*	transcriptional repressor
YNL079c	*TPM1*	tropomyosin 1
YOR219c	*STE13*	type IV dipeptidyl aminopeptidase
YMR022w	*QRI8*	ubiquitin-conjugating enzyme
YBR082c	*UBC4*	ubiquitin-conjugating enzyme
YDR059c	*UBC5*	ubiquitin-conjugating enzyme
YER100w	*UBC6*	ubiquitin-conjugating enzyme
YJR117w	*STE24*	zinc metallo-protease

sporulation and germination

YGR032w	*GSC2*	1,3—D-glucan synthase, subunit
YPR103w	*PRE2*	26S proteasome subunit
YGR253c	*PUP2*	26S proteasome subunit
YBL015w	*ACH1*	acetyl-CoA hydrolase
YCR048w	*ARE1*	acyl-CoA sterol acyltransferase
YNR019w	*ARE2*	acyl-CoA sterol acyltransferase
YOL052c	*SPE2*	adenosylmethionine decarboxylase
YDR173c	*ARG82*	arginine metabolism transcription factor
YIL033c	*SRA1*	cAMP dependent protein kinase, regulatory subunit
YDR182w	*CDC1*	cell division control protein
YFL009w	*CDC4*	cell division control protein
YNL192w	*CHS1*	chitin synthase I
YBR023c	*CHS3*	chitin synthase III
YDR402c	*DIT2*	cytochrome P450 56
YML110c	*DBI56*	DBF2 interacting protein
YOL051w	*GAL11*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YBR253w	*SRB6*	DNA-directed RNA polymerase II suppressor protein
YMR013c	*SEC59*	dolichol kinase
YOR190w	*SPR1*	exo-1,3—glucanase
YLR300w	*EXG1*	exo-1,3—glucanase (I/II), major isoform
YDR261c	*EXG2*	exo-1,3—glucanase minor isoform
YBR045c	*GIP1*	Glc7p-interacting protein
YNL236w	*SIN4*	global regulator protein
YDL240w	*LRG1*	GTPase-activating protein of the RHO/RAC family
YNL098c	*RAS2*	GTP-binding protein
YPL240c	*HSP82*	heat-shock protein
YJL146w	*IDS2*	*IME2*-dependent signaling protein
YER044c-a	*MEI4*	meiosis-specific protein
YBR057c	*MUM2*	meiotic protein
YAL009w	*SPO7*	meiotic protein
YLR025w	*SNF7*	nuclear protein
YKR031c	*SPO14*	phospholipase D
YGL192w	*IME4*	positive transcription factor for *IME2*
YCR034w	*GNS1*	probable 1,3—glucan synthase subunit
YIR026c	*YVH1*	protein tyrosine phosphatase
YOR208w	*PTP2*	protein-tyrosine-phosphatase
YBL066c	*SEF1*	putative transcription factor
YNR052c	*POP2*	required for glucose derepression
YDR218c	*SPR28*	septin-related sporulation protein
YJL106w	*IME2*	ser/thr protein kinase
YDR523c	*SPS1*	ser/thr protein kinase
YNL307c	*MCK1*	ser/thr/tyr protein kinase
YDR403w	*DIT1*	spore-wall maturation protein
YBR148w	*YSW1*	spore-specific protein
YKL165c		sporulation protein
YLR399c	*BDF1*	sporulation protein
YHR152w	*SPO12*	sporulation protein
YHR153c	*SPO16*	sporulation protein
YIL099w	*SGA1*	sporulation specific glucan 1,4—glucosidase
YDR108w	*GSG1*	sporulation-specific protein
YER096w	*SHC1*	sporulation-specific protein
YLR307w	*CDA1*	sporulation-specific chitin deacetylase
YLR308w	*CDA2*	sporulation-specific chitin deacetylase
YPR054w	*SMK1*	sporulation-specific MAP kinase
YER115c	*SPR6*	sporulation-specific protein
YNL202w	*SPS19*	sporulation-specific protein
YDR522c	*SPS2*	sporulation-specific protein
YOR313c	*SPS4*	sporulation-specific protein
YGR059w	*SPR3*	sporulation-specific septin
YHR139c	*SPS100*	sporulation-specific wall maturation protein
YNL204c	*SPS18*	sporulation-specific zinc-finger protein
YBR078w		strong similarity to sporulation-specific Sps2p
YCL048w		strong similarity to sporulation-specific Sps2p
YDR055w		strong similarity to Sps2p
YOR075w	*UFE1*	syntaxin (T-SNARE) of the ER
YMR043w	*MCM1*	transcription factor of the MADS box family
YJR094c	*IME1*	transcription factor required for sporulation
YNL330c	*RPD3*	transcription modifier protein
YOL004w	*SIN3*	transcription regulatory protein
YNL012w	*SPO1*	transcriptional regulator involved in sporulation
YLL039c	*UBI4*	ubiquitin
YGL058w	*RAD6*	ubiquitin-conjugating enzyme
YDR177w	*UBC1*	ubiquitin-conjugating enzyme
YER125w	*RSP5*	ubiquitin-protein ligase
YML115c	*VAN1*	vanadate resistance protein

meiosis

YPR103w	*PRE2*	26S proteasome subunit
YGR253c	*PUP2*	26S proteasome subunit
YKL112w	*ABF1*	ARS-binding factor
YFL037w	*TUB2*	β-tubulin
YOR265w	*RBL2*	β-tubulin binding protein
YPL204w	*HRR25*	casein kinase I, ser/thr/tyr protein kinase
YBR136w	*ESR1*	cell cycle checkpoint protein
YPL255w	*BBP1*	cell division control protein
YDL220c	*CDC13*	cell division control protein
YPL042c	*SSN3*	cyclin-dependent ser/thr protein kinase
YOR368w	*RAD17*	DNA damage checkpoint control protein
YMR224c	*MRE11*	DNA repair and meiotic recombination protein
YNL250w	*RAD50*	DNA repair protein
YDR076w	*RAD55*	DNA repair protein
YDR004w	*RAD57*	DNA repair protein
YDR369c	*XRS2*	DNA repair protein
YLR234w	*TOP3*	DNA topoisomerase III
YGL163c	*RAD54*	DNA-dependent ATPase of the Snf2p family
YNL025c	*SSN8*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit, cyclin C homolog
YKL017c	*DIP1*	Dom34p Interacting Protein
YLR129w	*DIP2*	Dom34p-interacting protein
YBR045c	*GIP1*	Glc7-interacting protein
YPL240c	*HSP82*	heat-shock protein
YJL146w	*IDS2*	*IME2*-dependent signaling protein
YOR198c	*BFR1*	maintenance of normal ploidy
YHL022c	*SPO11*	meiosis-specific protein
YER179w	*DMC1*	meiosis-specific protein
YIL072w	*HOP1*	meiosis-specific protein
YER180c	*ISC10*	meiosis-specific protein
YER044c-a	*MEI4*	meiosis-specific protein
YDL154w	*MSH5*	meiosis-specific protein
YHR124w	*NDT80*	meiosis-specific protein
YHR157w	*REC104*	meiosis-specific protein
YLR263w	*RED1*	meiosis-specific protein
YHR079c-a	*SAE3*	meiosis-specific protein
YHR014w	*SPO13*	meiosis-specific protein
YPL121c	*MEI5*	meiotic protein
YBR057c	*MUM2*	meiotic protein
YAL009w	*SPO7*	meiotic protein
YNL210w	*MER1*	meiotic recombination protein
YHR086w	*NAM8*	meiotic recombination protein
YLR329w	*REC102*	meiotic recombination protein
YJR021c	*REC107*	meiotic recombination protein
YMR133w	*REC114*	meiotic recombination protein
YGL175c	*SAE2*	meiotic recombination protein
YHL027w	*RIM101*	meiotic regulatory protein
YDR207c	*UME6*	negative transcriptional regulator
YBL058w	*SHP1*	potential regulatory subunit for Glc7p
YMR076c	*PDS5*	precocious dissociation of sister chromatids
YDL017w	*CDC7*	protein kinase
YIR026c	*YVH1*	protein tyrosine phosphatase
YOR208w	*PTP2*	protein tyrosine phosphatase
YBR073w	*RDH54*	required for meiosis
YER133w	*GLC7*	ser/thr phosphoprotein phosphatase 1, catalytic subunit
YOR178c	*GAC1*	ser/thr phosphoprotein phosphatase 1, regulatory subunit
YJL106w	*IME2*	ser/thr protein kinase
YMR139w	*MDS1*	ser/thr protein kinase
YOR351c	*MEK1*	ser/thr protein kinase
YDR523c	*SPS1*	ser/thr protein kinase
YNL307c	*MCK1*	ser/thr/tyr protein kinase
YDL028c	*MPS1*	ser/thr/tyr protein kinase
YNL001w	*DOM34*	similarity to *D. melanogaster* pelota protein
YFL003c	*MSH4*	similarity to MSH proteins
YHR152w	*SPO12*	sporulation protein
YHR153c	*SPO16*	sporulation protein
YDR108w	*GSG1*	sporulation-specific protein
YNL202w	*SPS19*	sporulation-specific protein
YDR522c	*SPS2*	sporulation-specific protein
YNL204c	*SPS18*	sporulation-specific zinc-finger protein
YBR078w		strong similarity to sporulation-specific Sps2p
YCL048w		strong similarity to sporulation-specific Sps2p
YDR055w		strong similarity to Sps2p
YGR258c	*RAD2*	structure-specific nuclease of the nucleotide excision repairosome
YDR285w	*ZIP1*	synaptonemal complex protein
YJR094c	*IME1*	transcription factor required for sporulation
YGR044c	*RME1*	zinc-finger transcription factor

DNA synthesis and replication

YKL112w	*ABF1*	ARS-binding factor
YFL009w	*CDC4*	cell division control protein
YDR364c	*CDC40*	cell division control protein
YLR274w	*CDC46*	cell division control protein
YBR202w	*CDC47*	cell division control protein
YJL194w	*CDC6*	cell division control protein
YML102w	*CAC2*	chromatin assembly complex, subunit
YBR195c	*MSI1*	chromatin assembly complex, subunit p50
YPR018w	*RLF2*	chromatin assembly complex, subunit p90
YPR120c	*CLB5*	cyclin, B-type
YGR109c	*CLB6*	cyclin, B-type
YPL256c	*CLN2*	cyclin, G1/S specific
YBR160w	*CDC28*	cyclin-dependent protein kinase
YER176w		DNA dependent ATPase/DNA helicase B
YHR164c	*DNA2*	DNA helicase
YDL164c	*CDC9*	DNA ligase
YJL173c	*RFA3*	DNA replication factor A, 13K subunit
YNL312w	*RFA2*	DNA replication factor A, 36K subunit
YAR007c	*RFA1*	DNA replication factor A, 69K subunit
YOL094c	*RFC4*	DNA replication factor C, 37K subunit
YNL290w	*RFC3*	DNA replication factor C, 40K subunit
YBR087w	*RFC5*	DNA replication factor C, 40K subunit
YJR068w	*RFC2*	DNA replication factor C, 41K subunit
YOR217w	*RFC1*	DNA replication factor C, 95K subunit
YJR006w	*HUS2*	DNA replication protein
YOL006c	*TOP1*	DNA topoisomerase I
YNL088w	*TOP2*	DNA topoisomerase II (ATP-hydrolysing)
YNL102w	*CDC17*	DNA-directed DNA polymerase α, 180K subunit
YIR008c	*PRI1*	DNA-directed DNA polymerase α, 48K subunit (DNA primase)
YKL045w	*PRI2*	DNA-directed DNA polymerase α, 58K subunit (DNA primase)
YPR135w	*POB1*	DNA-directed DNA polymerase α-binding protein
YDL102w	*CDC2*	DNA-directed DNA polymerase δ, catalytic 125K subunit
YNL262w	*POL2*	DNA-directed DNA polymerase ε, catalytic subunit A
YPR175w	*DPB2*	DNA-directed DNA polymerase ε, subunit B
YBR278w	*DPB3*	DNA-directed DNA polymerase ε, subunit C
YOR330c	*MIP1*	DNA-directed DNA polymerase γ, catalytic subunit, mitochondrial
YPL167c	*REV3*	DNA-directed DNA polymerase ζ
YFL036w	*RPO41*	DNA-directed RNA polymerase, mitochondrial
YMR072w	*ABF2*	high-mobility group protein
YJL090c	*DPB11*	involved in DNA replication and S-phase checkpoint
YDR068w	*DOS1*	involved in genome stability
YMR001c	*CDC5*	involved in regulation of DNA replication
YPR019w	*CDC54*	member of the Cdc46p/Mcm2p/Mcm3p family
YBL023c	*MCM2*	member of the Mcm2p,Mcm3p,Cdc46p family
YML065w	*ORC1*	origin recognition complex, 104K subunit
YNL261w	*ORC5*	origin recognition complex, 50K subunit
YHR118c	*ORC6*	origin recognition complex, 50K subunit
YPR162c	*ORC4*	origin recognition complex, 56K subunit
YLL004w	*ORC3*	origin recognition complex, 62K subunit
YBR060c	*RRR1*	origin recognition complex, 72K subunit
YGR132c	*PHB1*	prohibitin, antiproliferative protein
YBR088c	*POL30*	proliferating cell nuclear antigen (PCNA)
YDL017w	*CDC7*	protein kinase
YFR028c	*CDC14*	protein-tyrosine-phosphatase
YDR052c	*DBF4*	regulatory subunit for Cdc7p protein kinase
YEL032w	*MCM3*	replication initiation protein
YIL139c	*REV7*	required for DNA damage-induced mutagenesis
YLR103c	*CDC45*	required for minichromosome maintenance and initiation of chromosomal DNA replication
YIL150c	*DNA43*	required for S-phase initiation or completion
YER070w	*RNR1*	ribonucleoside-diphosphate reductase, large subunit
YJL026w	*RNR2*	ribonucleoside-diphosphate reductase, small subunit
YIL066c	*RNR3*	ribonucleotide reductase, repair inducible
YJL065c		similarity to DNA-directed DNA polymerase II subunit C
YDR206w		similarity to EST1 protein
YOR005c		similarity to human mRNA for DNA ligase IV
YOL095c		similarity to *S. aureus* DNA helicase PCRA
YGL201c		similarity with rat intestinal DNA replication protein
YKL113c	*RAD27*	ssDNA endonuclease and 5'-3'exonuclease
YCR028c-a	*RIM1*	ssDNA-binding protein, mitochondrial
YGR231c		strong similarity to prohibitins
YBL035c	*POL12*	subunit of DNA polymerase α-primase complex
YLR233c	*EST1*	telomere elongation protein
YCR077c	*(PAT1)*	topoisomerase II-associated protein
YOL115w	*TRF4*	topoisomerase I-related protein

YLR182w	*SWI6*	transcription factor
YDR054c	*CDC34*	ubiquitin-conjugating enzyme
YGL058w	*RAD6*	ubiquitin-conjugating enzyme

recombination and DNA repair

YGL127c	*SOH1*	allows *hpr1* null mutant to grow at 37°C
YBR136w	*ESR1*	cell-cycle checkpoint protein
YER173w	*RAD24*	cell-cycle checkpoint protein
YDR182w	*CDC1*	cell-division control protein
YMR106c	*HDF2*	component of DNA end-joining repair pathway
YKL011c	*CCE1*	cruciform-cutting endonuclease, mitochondrial
YER176w		DNA-dependent ATPase/DNA helicase B
YLR032w	*RAD5*	DNA helicase
YMR190c	*SGS1*	DNA helicase
YML061c	*PIF1*	DNA helicase involved in mitochondrial DNA repair and telomere length
YDL164c	*CDC9*	DNA ligase
YMR167w	*MLH1*	DNA mismatch repair protein
YOL090w	*MSH2*	DNA mismatch repair protein
YNL082w	*PMS1*	DNA mismatch repair protein
YHR120w	*MSH1*	DNA mismatch repair protein, mitochondrial
YCR014c	*POL4*	DNA polymerase
YMR224c	*MRE11*	DNA repair and meiotic recombination protein
YJR035w	*RAD26*	DNA repair and recombination protein
YEL019c	*MMS21*	DNA repair protein
YML095c	*RAD10*	DNA repair protein
YCR066w	*RAD18*	DNA repair protein
YNL250w	*RAD50*	DNA repair protein
YER095w	*RAD51*	DNA repair protein
YDR076w	*RAD55*	DNA repair protein
YDR004w	*RAD57*	DNA repair protein
YDR369c	*XRS2*	DNA repair protein
YAR007c	*RFA1*	DNA replication factor A, 69K subunit
YOL006c	*TOP1*	DNA topoisomerase I
YNL088w	*TOP2*	DNA topoisomerase II (ATP-hydrolysing)
YGL163c	*RAD54*	DNA-dependent ATPase of the Snf2p family
YFR023w	*PES4*	DNA-directed DNA polymerase ε suppressor
YPL167c	*REV3*	DNA-directed DNA polymerase ζ
YCR092c	*MSH3*	DNA-repair protein
YKR056w	*RNC1*	endo-exonuclease
YOR033c	*DHS1*	exonuclease, interacting with Msh2p
YLR288c	*MEC3*	G2-specific checkpoint protein
YMR284w	*HDF1*	high-affinity DNA-binding protein
YDR138w	*HPR1*	hyperrecombination protein related to Top1p
YHL022c	*SPO11*	meiosis-specific protein
YER179w	*DMC1*	meiosis-specific protein
YIL072w	*HOP1*	meiosis-specific protein
YHR157w	*REC104*	meiosis-specific protein
YLR263w	*RED1*	meiosis-specific protein
YPL121c	*MEI5*	meiotic protein
YNL210w	*MER1*	meiotic recombination protein
YHR086w	*NAM8*	meiotic recombination protein
YLR329w	*REC102*	meiotic recombination protein
YJR021c	*REC107*	meiotic recombination protein
YGL175c	*SAE2*	meiotic recombination protein
YBR114w	*RAD16*	nucleotide excision repair protein
YGL025c	*PGD1*	probable transcription factor
YBR088c	*POL30*	proliferating cell nuclear antigen (PCNA)
YML032c	*RAD52*	recombination and DNA repair protein
YDL059c	*RAD59*	recombination and DNA repair protein
YLR383w	*RHC18*	recombination repair protein
YBR073w	*RDH54*	required for meiosis
YIL066c	*RNR3*	ribonucleotide reductase, repair inducible
YMR228w	*MTF1*	RNA polymerase specific factor, mitochondrial
YOR351c	*MEK1*	ser/thr protein kinase
YPL164c		similarity to mismatch repair protein Mlh1p
YOR077w	*RTS2*	similarity to mouse KIN17 protein
YFL003c	*MSH4*	similarity to MSH proteins
YDR097c	*MSH6*	similarity to MSH proteins
YHR031c		similarity to Pif1p
YGL043w	*DST1*	TFIIS (transcription elongation factor)
YCR077c	*(PAT1)*	topoisomerase II-associated protein
YGR063c	*SPT4*	transcription initiation protein
YGR116w	*SPT6*	transcription initiation protein
YML021c	*UNG1*	uracil-DNA glycosylase

cell-cycle control and mitosis

YFR052w	*NIN1*	26S proteasome regulatory subunit
YPR103w	*PRE2*	26S proteasome subunit
YGL048c	*SUG1*	26S proteasome subunit
YKL145w	*YTA3*	26S proteasome subunit
YJL005w	*CYR1*	adenylate cyclase
YPL239w	*YAR1*	ankyrin repeat-containing protein
YHR101c	*BIG1*	big cells phenotype
YHR208w	*TWT1*	branched-chain amino-acid aminotransferase, mitochondrial
YFL037w	*TUB2*	β-tubulin
YBR200w	*BEM1*	bud emergence mediator
YBR109c	*CMD1*	calmodulin
YOR061w	*CKA2*	casein kinase II α′ subunit
YIL035c	*CKA1*	casein kinase II, catalytic α subunit
YER123w	*YCK3*	casein kinase, isoform 3
YLR178c	*TFS1*	cdc25-dependent nutrient- and ammonia-response cell-cycle regulator
YGR049w	*SCM4*	*cdc4* suppressor
YFL029c	*CAK1*	cdk-activating protein kinase
YMR055c	*BUB2*	cell-cycle arrest protein
YOR026w	*BUB3*	cell-cycle arrest protein
YPL178w	*SAE1*	cell-cycle block in meiotic prophase
YBR136w	*ESR1*	cell-cycle checkpoint protein
YPR111w	*DBF20*	cell-cycle protein kinase related to Dbf2p
YDR113c	*PDS1*	cell-cycle regulator
YBR215w	*HPC2*	cell-cycle regulatory protein
YOR373w	*NUD1*	cell-cycle regulatory protein
YPL255w	*BBP1*	cell division control protein
YDR182w	*CDC1*	cell division control protein
YCR002c	*CDC10*	cell division control protein
YDL220c	*CDC13*	cell division control protein
YGL116w	*CDC20*	cell division control protein
YLR314c	*CDC3*	cell division control protein
YDR168w	*CDC37*	cell division control protein
YFL009w	*CDC4*	cell division control protein
YDR364c	*CDC40*	cell division control protein
YLR274w	*CDC46*	cell division control protein
YBR202w	*CDC47*	cell division control protein
YJL194w	*CDC6*	cell division control protein
YNL188w	*KAR1*	cell division control protein
YDL226c	*GCS1*	cell proliferation zinc-finger protein
YNL327w	*EGT2*	cell-cycle regulation protein
YHR129c	*ACT5*	centractin
YLR175w	*CBF5*	centromere/microtubule binding protein
YDR254w	*CHL4*	chromosome segregation protein
YOR349w	*CIN1*	chromosome segregation protein
YFL008w	*SMC1*	chromosome segregation protein
YFR031c	*SMC2*	chromosome segregation protein
YMR028w	*TAP42*	component of the Tor signalling pathway
YIL106w	*MOB1*	conditional mutants arrest in late mitosis
YDL132w	*CDC53*	controls G1/S transition
YPR120c	*CLB5*	cyclin, B-type
YGR109c	*CLB6*	cyclin, B-type
YMR199w	*CLN1*	cyclin, G1/S specific
YPL256c	*CLN2*	cyclin, G1/S specific
YAL040c	*CLN3*	cyclin, G1/S specific
YNL289w	*PCL1*	cyclin, G1/S specific
YDL127w	*PCL2*	cyclin, G1/S specific
YGR108w	*CLB1*	cyclin, G2/M-specific
YPR119w	*CLB2*	cyclin, G2/M-specific
YDL155w	*CLB3*	cyclin, G2/M-specific
YLR210w	*CLB4*	cyclin, G2/M-specific
YBR135w	*CKS1*	cyclin-dependent kinase regulatory subunit
YBR160w	*CDC28*	cyclin-dependent protein kinase
YPL031c	*PHO85*	cyclin-dependent protein kinase
YDL108w	*KIN28*	cyclin-dependent ser/thr protein kinase
YGL215w	*CLG1*	cyclin-like protein
YOR368w	*RAD17*	DNA damage checkpoint control protein
YDR217c	*RAD9*	DNA repair checkpoint protein
YOR217w	*RFC1*	DNA replication factor C, 95K subunit
YLR234w	*TOP3*	DNA topoisomerase III
YKL017c	*DIP1*	Dom34p-interacting protein
YLR129w	*DIP2*	Dom34p-interacting protein
YNL053w	*MSG5*	dual-specifity protein phosphatase
YKR054c	*DYN1*	dynein heavy chain, cytosolic
YDR172w	*SUP35*	eukaryotic peptide chain release factor GTP-binding subunit
YNL292w	*EXM1*	exit from mitosis
YDL087c	*EXM2*	exit from mitosis
YJL157c	*FAR1*	factor arrest protein
YLR212c	*TUB4*	γ tubulin
YLR288c	*MEC3*	G2-specific checkpoint protein
YAL024c	*LTE1*	GDP/GTP exchange factor
YLL016w	*SDC25*	GDP/GTP exchange factor
YAL041w	*CDC24*	GDP/GTP exchange factor for Cdc42p
YLR310c	*CDC25*	GDP/GTP exchange factor for Ras1p and Ras2p
YGL207w	*SPT16*	general chromatin factor
YGL155w	*CDC43*	geranylgeranyltransferase type I β subunit
YER155c	*BEM2*	GTPase-activating protein
YMR138w	*CIN4*	GTP-binding protein
YNL098c	*RAS2*	GTP-binding protein
YLR229c	*CDC42*	GTP-binding protein of RAS superfamily
YML064c	*TEM1*	GTP-binding protein of the RAS superfamily
YNL007c	*SIS1*	heat-shock protein
YBR133c	*HSL7*	histone synthetic lethality
YJL080c	*SCP160*	histone-like protein
YOL076w	*DEC1*	interacts genetically with *CIN8*
YOR156c	*NFI1*	interacts with Cdc12p in 2-hybrid assay
YNR010w	*CSE2*	interacts with centromeric element CDEII
YML104c	*MDM1*	intermediate filament protein
YKR072c	*SIS2*	involved in cell cycle-specific gene expression
YKR063c	*LAS1*	involved in cell morphogenesis, cytoskeletal regulation and bud formation
YPL241c	*CIN2*	involved in chromosome segregation
YPL018w	*CTF19*	involved in chromosome segregation
YJL090c	*DPB11*	involved in DNA replication and S-phase checkpoint
YMR273c	*ZDS1*	involved in negative regulation of cell polarity
YMR052w	*FAR3*	involved in pheromone-mediated cell cycle arrest
YMR052w	*FAR3*	involved in pheromone-mediated cell cycle arrest
YMR001c	*CDC5*	involved in regulation of DNA replication
YMR127c	*SAS2*	involved in silencing at HMR
YKR042w	*UTH1*	involved in the aging process
YDR293c	*SSD1*	involved in the tolerance to high concentration of Ca^{2+}
YNL189w	*SRP1*	karyopherin-α or importin
YEL061c	*CIN8*	kinesin-related protein
YPR141c	*KAR3*	kinesin-related protein
YBL063w	*KIP1*	kinesin-related protein
YJR060w	*CBF1*	kinetochore protein
YGR140w	*CBF2*	kinetochore protein complex CBF3, 110K subunit
YMR094w	*CTF13*	kinetochore protein complex CBF3, 58K subunit
YMR168c	*CEP3*	kinetochore protein complex CBF3, 71K subunit
YDR328c	*SKP1*	kinetochore protein complex CBF3, subunit D
YOR198c	*BFR1*	maintenance of normal ploidy
YLR332w	*MID2*	mating process protein
YER179w	*DMC1*	meiosis-specific protein
YHR079c-a	*SAE3*	meiosis-specific protein
YPR019w	*CDC54*	member of the Cdc46p/Mcm2p/Mcm3p family
YDL126c	*CDC48*	microsomal protein of CDC48/PAS1/SEC18 family of ATPases
YOR058c	*ASE1*	microtubule-associated protein
YNL064c	*YDJ1*	mitochondrial and ER import protein
YGR029w	*ERV1*	mitochondrial biogenesis and regulation of cell cycle
YBL016w	*FUS3*	mitogen-activated protein kinase (MAP kinase)
YMR294w	*JNM1*	mitosis protein, involved in nuclear migration
YMR036c	*MIH1*	M-phase inducing protein tyrosine phosphatase
YGL178w	*MPT5*	multicopy suppressor of *pop2*
YML109w	*ZDS2*	multicopy suppressor of *sin4*
YGL173c	*KEM1*	multifunctional nuclease
YDR207c	*UME6*	negative transcriptional regulator
YBL020w	*RFT1*	nuclear division protein
YNL299w	*TRF5*	nuclear division protein
YML031w	*NDC1*	nuclear envelope protein
YJR112w	*NNF1*	nuclear envelope protein
YCL029c	*BIK1*	nuclear fusion protein
YJL034w	*KAR2*	nuclear fusion protein
YDR150w	*NUM1*	nuclear migration protein
YAL025c	*MAK16*	nuclear viral propagation protein
YKR048c	*NAP1*	nucleosome assembly protein I
YLR079w	*SIC1*	p40 inhibitor of Cdc28p-Clb protein kinase complex
YJR066w	*TOR1*	phosphatidylinositol 3-kinase
YKL203c	*TOR2*	phosphatidylinositol 3-kinase
YLR305c	*STT4*	phosphatidylinositol-4-kinase
YCL004w	*PEL1*	phosphatidylserine synthase
YBL058w	*SHP1*	potential regulatory subunit for Glc7p
YGL238w	*CSE1*	probable kinetochore protein
YGR132c	*PHB1*	prohibitin, antiproliferative protein
YDL017w	*CDC7*	protein kinase
YOR149c	*SMP3*	protein kinase C pathway protein
YPL140c	*MKK2*	protein kinase of the MAP kinase kinase (MEK) family
YAR019c	*CDC15*	protein kinase of the MAP kinase kinase kinase family
YHR013c	*ARD1*	protein N-acetyltransferase subunit
YPL008w	*CHL1*	protein of the DEAH box family
YDL047w	*SIT4*	protein ser/thr phosphatase
YDL134c	*PPH21*	protein ser/thr phosphatase PP2A-1
YDL188c	*PPH22*	protein ser/thr phosphatase PP2A-2
YBR267w	*PPS1*	protein tyrosine phosphatase
YFR028c	*CDC14*	protein-tyrosine-phosphatase
YOL021c	*DIS3*	Ran binding protein
YDR137w	*RGP1*	reduced growth phenotype protein
YDR052c	*DBF4*	regulatory subunit for Cdc7p protein kinase
YKL193c	*SDS22*	regulatory subunit for the mitotic function of type I protein phosphatase
YMR078c	*CHL12*	required for accurate chromosome transmission in mitosis and maintenance of normal telomere length
YOL145c	*CTR9*	required for G1 cyclin expression
YLR103c	*CDC45*	required for minichromosome maintenance and initiation of chromosomal DNA replication
YKL089w	*MIF2*	required for normal chromosome segregation and spindle integrity
YGR098c	*ESP1*	required for normal spindle structure
YIL150c	*DNA43*	required for S-phase initiation or completion
YJL074c	*SMC3*	required for structural maintenance of chromosomes
YGR078c	*PAC10*	required in the absence of Cin8p
YDR488c	*PAC11*	required in the absence of Cin8p
YLR075w	*GRC5*	ribosomal protein
YJR076c	*CDC11*	septin
YHR107c	*CDC12*	septin
YAL016w	*TPD3*	ser/thr phosphatase 2A, regulatory subunit A
YER133w	*GLC7*	ser/thr phosphoprotein phosphatase 1, catalytic subunit
YOR178c	*GAC1*	ser/thr phosphoprotein phosphatase 1, regulatory subunit
YGR188c	*BUB1*	ser/thr protein kinase
YKL048c	*ELM1*	ser/thr protein kinase
YJL106w	*IME2*	ser/thr protein kinase
YPL209c	*IPL1*	ser/thr protein kinase
YOR231w	*MKK1*	ser/thr protein kinase
YBL105c	*PKC1*	ser/thr protein kinase
YPR161c	*SGV1*	ser/thr protein kinase
YJL141c	*YAK1*	ser/thr protein kinase
YMR104c	*YPK2*	ser/thr protein kinase
YHR030c	*SLT2*	ser/thr protein kinase of MAP kinase family
YJL095w	*BCK1*	ser/thr protein kinase of the MEKK family
YER167w	*BCK2*	ser/thr protein kinase of the protein kinase C pathway
YGR092w	*DBF2*	ser/thr protein kinase related to Dbf20p

YKL101w	*HSL1*	ser/thr protein kinase that interacts genetically with histone mutations
YHR102w	*NRK1*	ser/thr protein kinase that interacts with Cdc31p
YNL307c	*MCK1*	ser/thr/tyr protein kinase
YDL028c	*MPS1*	ser/thr/tyr protein kinase
YPL153c	*SPK1*	ser/thr/tyr protein kinase
YJL187c	*SWE1*	ser/tyr dual-specifity protein kinase
YGL003c		similarity to *C. elegans* CDC20 protein and human p55CDC
YDL225w		similarity to Cdc11p, Cdc3p and human CDC10 protein
YDL179w		similarity to cyclin G1 homologue HCS26
YNL001w	*DOM34*	similarity to *D. melanogaster* pelota protein
YNL246w		similarity to *D. melanogaster* SET protein
YAR003w	*FUN16*	similarity to human RB protein binding protein
YKL179c		similarity to Nuf1p
YDL125c	*YHI1*	similarity to protein kinase C inhibitor-I
YMR262w		similarity to *S. pombe* scn1 protein
YLR356w		similarity to SCM4 protein
YIL095w	*PRK1*	similarity to ser/thr protein kinase
YLR179c		similarity to Tfs1p and Nsp1p
YOL080c		similarity to *X. laevis* XPMC2 protein
YFR040w	*SAP155*	Sit4p-associated protein
YKR028w	*SAP190*	Sit4p-associated protein
YGL229c	*SAP4*	Sit4p-associated protein
YJL098w	*SAP185*	Sit4p-associating protein
YGL086w	*MAD1*	spindle assembly checkpoint protein
YMR198w	*CIK1*	spindle pole body associated protein
YDR356w	*NUF1*	spindle pole body component
YKL042w	*SPC42*	spindle pole body component
YNL126w	*SPC98*	spindle pole body component
YOR257w	*CDC31*	spindle pole body component, centrin
YOL069w	*NUF2*	spindle pole body protein
YJL030w	*MAD2*	spindle-assembly checkpoint protein
YJL013c	*MAD3*	spindle-assembly checkpoint protein
YGL106w		strong similarity to calmodulins
YHR205w	*SCH9*	strong similarity to cAMP-dependent protein kinase
YER066w		strong similarity to cell division control protein Cdc4p
YLR117c		strong similarity to *D. melanogaster* putative cell-cycle control protein crn
YIR012w		strong similarity to Dbf8p
YBR238c		strong similarity to general chromatin factor Spt16p
YKL049c	*CSE4*	strong similarity to histone H3
YGR231c		strong similarity to prohibitins
YLR215c		strong similarity to rat cell cycle progression related D123 protein
YKL161c		strong similarity to ser/thr-specific protein kinase Slt2p
YNL172w	*APC1*	subunit of anaphase-promoting complex (cyclosome)
YKL022c	*CDC16*	subunit of anaphase-promoting complex (cyclosome)
YHR166c	*CDC23*	subunit of anaphase-promoting complex (cyclosome)
YFR036w	*CDC26*	subunit of anaphase-promoting complex (cyclosome)
YBL084c	*CDC27*	subunit of anaphase-promoting complex (cyclosome)
YOR213c		subunit of the RSC complex
YCR052w	*RSC6*	subunit of the RSC complex
YFR037c	*RSC8*	subunit of the RSC complex
YLR321c	*SFH1*	subunit of the RSC complex
YIL126w	*STH1*	subunit of the RSC complex
YJR091c	*JSN1*	suppresses the high-temperature lethality of tub2-150
YIL031w	*SMT4*	suppressor of *mif2* temperature-sensitive mutation
YDR285w	*ZIP1*	synaptonemal complex protein
YPL129w	*ANC1*	TFIIF subunit (transcription initiation factor), 30K
YPR025c	*CCL1*	TFIIH subunit (transcription initiation factor), cyclin C component
YLR043c	*TRX1*	thioredoxin I
YGR209c	*TRX2*	thioredoxin II
YOL115w	*TRF4*	topoisomerase I-related protein
YDL165w	*CDC36*	transcription factor
YER111c	*SWI4*	transcription factor
YLR182w	*SWI6*	transcription factor
YGL181w	*GTS1*	transcription factor of the Gcs1p/Glo3p/Sps18p family
YMR043w	*MCM1*	transcription factor of the MADS box family
YHR206w	*SKN7*	transcription factor with similarity to Hsf1p
YDL056w	*MBP1*	transcription factor, subunit of the MBF factor
YOR028c	*CIN5*	transcriptional activator
YNL012w	*SPO1*	transcriptional regulator involved in sporulation
YOR361c	*PRT1*	translation initiation factor eIF3 subunit
YHR165c	*PRP8*	U5 snRNP protein, pre-mRNA splicing factor
YDR054c	*CDC34*	ubiquitin-conjugating enzyme
YDL064w	*UBC9*	ubiquitin-conjugating enzyme
YMR276w	*DSK2*	ubiquitin-like protein
YML115c	*VAN1*	vanadate resistance protein
YHR071w		weak similarity to cyclin G1 homolog HCS26 protein
YER122c	*GLO3*	zinc-finger protein
YLR403w	*SFP1*	zinc-finger protein
YGR044c	*RME1*	zinc-finger transcription factor

cytokinesis

YDL029w	*ACT2*	actin-like protein
YPL255w	*BBP1*	cell division control protein
YCR002c	*CDC10*	cell division control protein
YLR314c	*CDC3*	cell division control protein
YNL327w	*EGT2*	cell-cycle regulation protein
YNL192w	*CHS1*	chitin synthase I
YLR286c	*CTS1*	endochitinase
YOR156c	*NFI1*	interacts with Cdc12p in 2-hybrid assay
YNL225c		involved in cytokinesis
YLR131c	*ACE2*	metallothionein expression activator
YAL029c	*MYO4*	myosin heavy chain, unconventional (class V) isoform
YHR023w	*MYO1*	myosin-1 isoform (type II myosin) heavy chain
YCR057c	*PWP2*	periodic tryptophan protein
YNL267w	*PIK1*	phosphatidylinositol 4-kinase
YJR076c	*CDC11*	septin
YHR107c	*CDC12*	septin
YGL190c	*CDC55*	ser/thr phosphatase 2A regulatory subunit B
YAL016w	*TPD3*	ser/thr phosphatase 2A, regulatory subunit A
YNL298w	*CLA4*	ser/thr protein kinase
YDL225w		similarity to Cdc11p, Cdc3p and human CDC10 protein
YMR197c		similarity to Nuf1p

other cell-growth, cell-division and DNA-synthesis activities

YLR248w	*RCK2*	Ca^{2+}/calmodulin-dependent ser/thr protein kinase
YOR101w	*RAS1*	GTP-binding protein
YNL098c	*RAS2*	GTP-binding protein
YBR138c	*HDR1*	high-dosage reductional segregation defective
YHL003c	*LAG1*	longevity-assurance protein
YDL003w	*MCD1*	mitotic chromosome determinant
YGL091c	*NBP35*	nucleotide-binding protein
YOL110w	*SHR5*	RAS suppressor
YGL158w	*RCK1*	ser/thr protein kinase
YKL189w		similarity to mouse MO25 gene

Transcription

rRNA synthesis

YJR063w	*RPA12*	DNA-directed RNA polymerase I, 13.7K
YPR010c	*RPA135*	DNA-directed RNA polymerase I, 135K subunit
YOR341w	*RPA190*	DNA-directed RNA polymerase I, 190K α subunit
YOR340c	*RPA43*	DNA-directed RNA polymerase I, 36K subunit
YNL248c	*RPA49*	DNA-directed RNA polymerase I, 49K α subunit
YDR156w	*RPA14*	DNA-directed RNA polymerase I, A14 subunit
YOR224c	*RPB8*	DNA-directed RNA polymerase I, II, III 16K subunit
YPR187w	*RPO26*	DNA-directed RNA polymerase I, II, III 18K subunit
YBR154c	*RPB5*	DNA-directed RNA polymerase I, II, III 25K subunit
YHR143w-a	*RPC10*	DNA-directed RNA polymerase I, II, III 7.7K subunit
YOR210w	*RPB10*	DNA-directed RNA polymerase I, II, III 8.3K subunit
YPR110c	*RPC40*	DNA-directed RNA polymerase I, III 40K subunit
YNL113w	*RPC19*	DNA-directed RNA polymerase I, III, 16K subunit
YOR207c	*RPC128*	DNA-directed RNA polymerase III, 130K subunit
YOR116c	*RPO31*	DNA-directed RNA polymerase III, 160K subunit
YKL144c	*RPC25*	DNA-directed RNA polymerase III, 25K subunit
YNL151c	*RPC31*	DNA-directed RNA polymerase III, 31K subunit
YNR003c	*RPC34*	DNA-directed RNA polymerase III, 34K subunit
YDL150w	*RPC53*	DNA-directed RNA polymerase III, 47K subunit
YPR190c	*RPC82*	DNA-directed RNA polymerase III, 82K subunit
YLR039c	*RIC1*	involved in transcription of ribosomal proteins and ribosomal RNA
YKL125w	*RRN3*	RNA polymerase I specific transcription factor
YBL025w	*RRN10*	RNA polymerase I specific transcription initiation factor
YML043c	*RRN11*	RNA polymerase I specific transcription initiation factor
YLR141w	*RRN5*	RNA polymerase I specific transcription initiation factor
YBL014c	*RRN6*	RNA polymerase I specific transcription initiation factor
YJL025w	*RRN7*	RNA polymerase I specific transcription initiation factor
YMR270c	*RRN9*	RNA polymerase I specific transcription initiation factor
YER148w	*SPT15*	TFIID and TFIIIB subunit
YPR186c	*TFC2*	TFIIIA subunit (transcription initiation factor)
YGR246c	*BRF1*	TFIIIB subunit, 70K
YNL039w	*TFC5*	TFIIIB subunit, 90K
YGR047c	*TFC4*	TFIIIC subunit (transcription initiation factor), 131K
YAL001c	*TFC3*	TFIIIC subunit (transcription initiation factor), 138K
YBR123c	*TFC1*	TFIIIC subunit (transcription initiation factor), 95K
YBR049c	*REB1*	transcription factor

rRNA processing

YOR048c	*RAT1*	5'-3' exoribonuclease
YBR142w	*MAK5*	ATP-dependent RNA helicase
YNL112w	*DBP2*	ATP-dependent RNA helicase of DEAD box family
YFL002c	*SPB4*	ATP-dependent RNA helicase of DEAH box family
YPL029w	*SUV3*	ATP-dependent RNA helicase, mitochondrial
YJL033w	*HCA4*	can suppress the U14 snoRNA rRNA processing function
YMR239c	*RNT1*	double-stranded ribonuclease
YDL014w	*NOP1*	fibrillarin
YGL097w	*SRM1*	GDP/GTP exchange factor for Gsp1p/Gsp2p
YMR235c	*RNA1*	GTPase-activating protein
YLL011w	*SOF1*	involved in 18S pre-rRNA production
YGR158c	*MTR3*	involved in mRNA transport
YGL173c	*KEM1*	multifunctional nuclease
YGR159c	*NSR1*	nuclear localization sequence binding protein
YPL043w	*NOP4*	nucleolar protein
YDR432w	*NPL3*	nucleolar protein
YCR018c	*SRD1*	nucleolar protein
YHR089c	*GAR1*	nucleolar rRNA processing protein
YLR223c	*IFH1*	pre-rRNA processing machinery control protein
YMR229c	*RRP5*	processing of pre-ribosomal RNA
YNL221c	*POP1*	protein component of ribonuclease P and ribonuclease MRP
YHR065c	*RRP3*	required for maturation of the 35S primary transcript
YLL008w	*DRS1*	RNA helicase of the DEAD box family
YPL266w	*DIM1*	rRNA (adenine-N6,N6-)-dimethyltransferase
YOR201c	*PET56*	rRNA (guanosine-2'-O-)-methyltransferase
YPL021w	*SRD2*	similarity to Srd1p
YHL034c	*SBP1*	single-strand nucleic acid binding protein
YLR059c	*YNT20*	suppressor of *rna12 yme2*

other rRNA-transcription activities

YNL216w	*RAP1*	DNA-binding protein with repressor and activator activity
YMR302c	*PRP12*	involved in early maturation of pre-rRNA

tRNA synthesis

YGL019w	*CKB1*	casein kinase II, β subunit
YOR224c	*RPB8*	DNA-directed RNA polymerase I, II, III 16K subunit
YPR187w	*RPO26*	DNA-directed RNA polymerase I, II, III 18K subunit
YBR154c	*RPB5*	DNA-directed RNA polymerase I, II, III 25K subunit
YHR143w-a	*RPC10*	DNA-directed RNA polymerase I, II, III 7.7K subunit
YOR210w	*RPB10*	DNA-directed RNA polymerase I, II, III 8.3K subunit
YPR110c	*RPC40*	DNA-directed RNA polymerase I, III 40K subunit
YNL113w	*RPC19*	DNA-directed RNA polymerase I, III, 16K subunit
YOR207c	*RPC128*	DNA-directed RNA polymerase III, 130K subunit
YOR116c	*RPO31*	DNA-directed RNA polymerase III, 160K subunit
YKL144c	*RPC25*	DNA-directed RNA polymerase III, 25K subunit
YNL151c	*RPC31*	DNA-directed RNA polymerase III, 31K subunit
YNR003c	*RPC34*	DNA-directed RNA polymerase III, 34K subunit
YDL150w	*RPC53*	DNA-directed RNA polymerase III, 47K subunit
YPR190c	*RPC82*	DNA-directed RNA polymerase III, 82K subunit
YER148w	*SPT15*	TFIID and TFIIIB subunit
YPR186c	*TFC2*	TFIIIA subunit (transcription initiation factor)
YGR246c	*BRF1*	TFIIIB subunit, 70K
YNL039w	*TFC5*	TFIIIB subunit, 90K
YGR047c	*TFC4*	TFIIIC subunit (transcription initiation factor), 131K
YAL001c	*TFC3*	TFIIIC subunit (transcription initiation factor), 138K
YBR123c	*TFC1*	TFIIIC subunit (transcription initiation factor), 95K

tRNA processing

YIL075c	*SEN3*	26S proteasome regulatory subunit
YGL097w	*SRM1*	GDP/GTP exchange factor for Gsp1p/Gsp2p
YMR235c	*RNA1*	GTPase activating protein

YHR006w	*STP2*	involved in pre-tRNA splicing
YLR375w	*STP3*	involved in pre-tRNA splicing and in uptake of branched-chain amino acids
YDL048c	*STP4*	involved in pre-tRNA splicing and in uptake of branched-chain amino acids
YCL017c	*NFS1*	involved in tRNA processing and mitochondrial metabolsim
YNR034w	*SOL1*	multicopy suppressor of *los1-1*
YCR073w-a	*SOL2*	multicopy suppressor of *los1-1*
YMR047c	*NUP116*	nuclear pore protein
YGL092w	*NUP145*	nuclear pore protein
YJR042w	*NUP85*	nuclear pore protein
YLR430w	*SEN1*	positive effector of tRNA-splicing endonuclease
YAL043c	*PTA1*	pre-tRNA processing protein
YKL205w	*LOS1*	pre-tRNA splicing protein
YDR463w	*STP1*	pre-tRNA splicing protein
YNL221c	*POP1*	protein component of ribonuclease P and ribonuclease MRP
YML091c	*RPM2*	ribonuclease P, mitochondrial
YFR004w	*MPR1*	strong similarity to *S. pombe* pad1 protein
YGR248w	*SOL4*	strong similarity to Sol3p
YJL087c	*TRL1*	tRNA ligase
YLR105c	*SEN2*	tRNA splicing endonuclease β subunit
YHR163w	*SOL3*	weak multicopy suppressor of *los1-1*

tRNA modification

YGR204w	*ADE3*	C1-tetrahydrofolate synthase, cytoplasmic
YMR283c	*RIT1*	initiator tRNA phosphoribosyl-transferase
YDR120c	*TRM1*	N2,N2-dimethylguanine tRNA methyltransferase
YGL105w	*G4P1*	protein with specific affinity for G4 quadruplex nucleic acids
YPL212c	*PUS1*	pseudouridine synthase 1
YGL063w	*PUS2*	pseudouridine synthase 2
YFR010w		similarity to *C. elegans* tRNA-guanine transglycosylase
YBL013w		similarity to methionyl-tRNA formyltransferase
YOR274w	*MOD5*	tRNA isopentenyltransferase
YER168c	*CCA1*	tRNA nucleotidyltransferase

other tRNA-transcription activities

YOR061w	*CKA2*	casein kinase II α' subunit
YOR039w	*CKB2*	casein kinase II β' subunit
YJL041w	*NSP1*	nuclear pore protein

mRNA synthesis

general transcription activities

YDL108w	*KIN28*	cyclin-dependent ser/thr protein kinase
YIL143c	*SSL2*	DNA helicase
YER171w	*RAD3*	DNA helicase/ATPase
YOR224c	*RPB8*	DNA-directed RNA polymerase I, II, III 16K subunit
YPR187w	*RPO26*	DNA-directed RNA polymerase I, II, III 18K subunit
YBR154c	*RPB5*	DNA-directed RNA polymerase I, II, III 25K subunit
YHR143w-a	*RPC10*	DNA-directed RNA polymerase I, II, III 7.7K subunit
YOR210w	*RPB10*	DNA-directed RNA polymerase I, II, III 8.3K subunit
YOL051w	*GAL11*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YDR443c	*SCA1*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YHR041c	*SRB2*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YER022w	*SRB4*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YGR104c	*SRB5*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YDR308c	*SRB7*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YCR081w	*SRB8*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit
YNL025c	*SSN8*	DNA-directed RNA polymerase II holoenzyme and Kornberg's mediator (SRB) subcomplex subunit, cyclin C homologue
YLR071c	*RGR1*	DNA-directed RNA polymerase II holoenzyme subunit
YBR253w	*SRB6*	DNA-directed RNA polymerase II suppressor protein
YOL005c	*RPB11*	DNA-directed RNA polymerase II, 13.6K subunit
YGL070c	*RPB9*	DNA-directed RNA polymerase II, 14.2K subunit
YOR151c	*RPB2*	DNA-directed RNA polymerase II, 140K subunit
YDR404c	*RPB7*	DNA-directed RNA polymerase II, 19K subunit
YDL140c	*RPO21*	DNA-directed RNA polymerase II, 215K subunit
YJL140w	*RPB4*	DNA-directed RNA polymerase II, 32K subunit
YFL036w	*RPO41*	DNA-directed RNA polymerase, mitochondrial
YIL021w	*RPB3*	DNA-directed RNA-polymerase II, 45K
YIL128w	*MMS19*	involved in repair and RNA polymerase transcription
YMR228w	*MTF1*	RNA polymerase specific factor, mitochondrial
YPR056w		similarity to human transcription factor BTF2/TFIIH subunit p34
YPL046c		strong similarity to human DNA-directed RNA polymerase II elongation factor SIII, p15
YDR045c		strong similarity to *S. acidocaldarius* transcription elongation factor tfs
YKL058w	*TOA2*	TFIIA subunit (transcription initiation factor), 13.5K
YOR194c	*TOA1*	TFIIA subunit (transcription initiation factor), 32K
YPR086w	*SUA7*	TFIIB subunit (transcription initiation factor), factor E
YER148w	*SPT15*	TFIID and TFIIIB subunit
YGR274c	*TAF145*	TFIID subunit (TBP-associated factor), 145K
YMR236w	*TAF17*	TFIID subunit (TBP-associated factor), 17K
YML098w	*TAF19*	TFIID subunit (TBP-associated factor), 19K
YDR167w	*TAF23*	TFIID subunit (TBP-associated factor), 23K
YML015c	*TAF40*	TFIID subunit (TBP-associated factor), 40K
YGL112c	*TAF60*	TFIID subunit (TBP-associated factor), 60K
YDR145w	*TAF61*	TFIID subunit (TBP-associated factor), 61K
YMR227c	*TAF67*	TFIID subunit (TBP-associated factor), 67K
YBR198c	*TAF90*	TFIID subunit (TBP-associated factor), 90K
YKR062w	*TFA2*	TFIIE subunit (transcription initiation factor), 43K
YKL028w	*TFA1*	TFIIE subunit (transcription initiation factor), 66K
YGR186w	*TFG1*	TFIIF subunit (transcription initiation factor), 105K
YPL129w	*ANC1*	TFIIF subunit (transcription initiation factor), 30K
YGR005c	*TFG2*	TFIIF subunit (transcription initiation factor), 54K
YDR311w	*TFB1*	TFIIH subunit (transcription initiation factor), 75K
YPR025c	*CCL1*	TFIIH subunit (transcription initiation factor), cyclin C component
YLR005w	*SSL1*	TFIIH subunit (transcription initiation factor), factor B
YPL122c	*TFB2*	TFIIH subunit (transcription/repair factor)
YDR460w	*TFB3*	TFIIH subunit (transcription/repair factor)
YGL043w	*DST1*	TFIIS (transcription elongation factor)
YGR063c	*SPT4*	transcription initiation protein
YML010w	*SPT5*	transcription initiation protein
YGR116w	*SPT6*	transcription initiation protein

transcriptional control

YOR259c	*CRL13*	26S proteasome subunit
YJL115w	*ASF1*	anti-silencing protein
YDL197c	*ASF2*	anti-silencing protein
YDR173c	*ARG82*	arginine metabolism transcription factor
YKL112w	*ABF1*	ARS-binding factor
YDR123c	*INO2*	basic helix-loop-helix (BHLH) transcription factor
YOL108c	*INO4*	basic helix-loop-helix transcription factor
YOL067c	*RTG1*	basic helix-loop-helix transcription factor
YOR344c	*TYE7*	basic helix-loop-helix transcription factor
YBL103c	*RTG3*	bHLH/zip transcription factor
YHL009c		bZip DNA binding protein
YGL209w	*MIG2*	C2H2 zinc-finger protein
YKL190w	*CNB1*	calcineurin B, regulatory subunit
YML112w	*CTK3*	carboxy terminal domain (CTD) kinase, γ subunit
YJL006c	*CTK2*	carboxy-terminal domain (CTD) kinase , β subunit
YKL139w	*CTK1*	carboxy-terminal domain (CTD) kinase, α subunit
YIL035c	*CKA1*	casein kinase II, catalytic α subunit
YGL237c	*HAP2*	CCAAT-binding factor subunit
YBL021c	*HAP3*	CCAAT-binding factor subunit
YKL109w	*HAP4*	CCAAT-binding factor subunit
YOR358w	*HAP5*	CCAAT-binding factor subunit
YJR122w	*CAF17*	*CCR4*-associated factor
YKR036c	*CAF4*	*CCR4*-associated factor
YBR215w	*HPC2*	cell-cycle regulatory protein
YDL220c	*CDC13*	cell division control protein
YDR073w	*SNF11*	component of SWI/SNF transcription activator complex
YNR023w	*SNF12*	component of SWI/SNF transcription activator complex
YOR290c	*SNF2*	component of SWI/SNF transcription activator complex
YBR289w	*SNF5*	component of SWI/SNF transcription activator complex
YPL016w	*SWI1*	component of SWI/SNF transcription activator complex
YCR042c	*TSM1*	component of TAF(II) complex
YPL177c	*CUP9*	copper homeostasis protein
YGL166w	*CUP2*	copper-dependent transcription factor
YNL167c	*SKO1*	cre-binding bzip protein
YPL042c	*SSN3*	cyclin-dependent ser/thr protein kinase
YLR176c	*RFX1*	DNA binding protein
YDR217c	*RAD9*	DNA repair checkpoint protein
YNL216w	*RAP1*	DNA-binding protein with repressor and activator activity
YLR418c	*CDC73*	DNA-directed RNA polymerase II accessory protein
YBR279w	*PAF1*	DNA-directed RNA polymerase II regulator
YGL208w	*SIP2*	dominant suppressor of some ts mutations *rpo21* and *prp4*
YOR047c	*STD1*	dosage-dependent modulator of glucose repression
YER159c	*NCB1*	functional homologue of human NC2α
YDR397c	*YNC2β*	functional homologue of human NC2β/Dr1
YPL037c	*EGD1*	*GAL4* DNA-binding enhancer protein
YJL110c	*GZF3*	GATA zinc-finger protein 3
YIL038c	*NOT3*	general negative regulator of transcription, subunit 3
YBR112c	*CYC8*	general repressor of transcription
YCR084c	*TUP1*	general transcription repressor
YDR176w	*NGG1*	general transcriptional adaptor or co-activator
YBR045c	*GIP1*	Glc7p-interacting protein
YNL236w	*SIN4*	global regulator protein
YHL025w	*SNF6*	global transcription activator
YER027c	*GAL83*	glucose repression protein
YNL199c	*GCR2*	glycolytic genes transcriptional activator
YGL073w	*HSF1*	heat shock transcription factor
YPR065w	*ROX1*	heme-dependent transcriptional repressor of hypoxic genes
YDR006c	*SOK1*	high copy suppressor of a cyclic AMP-dependent protein kinase mutant
YMR070w	*HMS1*	high-copy suppressor of *mot1 spt3* synthetic lethality
YGR252w	*GCN5*	histone acetyltransferase
YDR225w	*HTA1*	histone H2A
YBL003c	*HTA2*	histone H2A.2
YDR224c	*HTB1*	histone H2B
YBL002w	*HTB2*	histone H2B.2
YBR010w	*HHT1*	histone H3
YNL031c	*HHT2*	histone H3
YBR009c	*HHF1*	histone H4
YNL030w	*HHF2*	histone H4
YBL008w	*HIR1*	histone transcription regulator
YOR038c	*HIR2*	histone transcription regulator
YER161c	*SPT2*	HMG-like chromatin protein
YDL106c	*GRF10*	homeodomain protein
YDR138w	*HPR1*	hyperrecombination protein related to Top1p
YJL089w	*SIP4*	interacts with SNF1 protein kinase
YKL032c	*IXR1*	intrastrand crosslink recognition protein and transcription factor
YBR081c	*SPT7*	involved in alteration of transcription start site selection
YKR072c	*SIS2*	involved in cell cycle-specific gene expression
YNL251c	*NRD1*	involved in regulation of nuclear pre-mRNA abundance
YIL046w	*MET30*	involved in regulation of sulphur assimilation genes
YDL153c	*SAS10*	involved in silencing
YMR127c	*SAS2*	involved in silencing at HMR
YGR097w	*ASK10*	involved in Skn7p-dependent transcription
YLR039c	*RIC1*	involved in transcription of ribosomal proteins and ribosomal RNA
YGL071w	*RCS1*	iron-regulated transcriptional repressor
YJR060w	*CBF1*	kinetochore protein
YDR159w	*SAC3*	leucine permease transcriptional regulator
YGR100w	*MIC1*	Mac1p interacting protein
YBR297w	*MAL33*	maltose fermentation regulatory protein
YGR288w	*MAL13*	maltose pathway regulatory protein
YCR040w	*MATα1*	mating type regulatory protein (expressed copy at MAT locus)
YCR039c	*MATα2*	mating type regulatory protein (expressed copy at MAT locus)
YCL067c	*α2*	mating type regulatory protein (silenced copy at HML locus)
YHL027w	*RIM101*	meiotic regulatory protein
YLR216c	*CPR6*	member of the cyclophilin family
YJR032w	*CPR7*	member of the cyclophilin family
YLR136c	*TIS11*	member of the inducible ccch zinc-finger family
YOL148c	*SPT20*	member of the TBP class of SPT proteins that alter transcription site selection
YMR021c	*MAC1*	metal binding activator
YLR131c	*ACE2*	metallothionein expression activator
YBR026c	*(MRF1)*	mitochondrial respiratory function protein
YML051w	*GAL80*	negative regulator for expression of galactose-induced genes
YGL151w	*NUT1*	negative regulator of HO endonuclease
YPR168w	*NUT2*	negative regulator of HO endonuclease
YKL185w	*ASH1*	negative regulator of HO expression
YHL020c	*OPI1*	negative regulator of phospholipid biosynthesis pathway
YDR464w	*SPP41*	negative regulator of PRP3 and PRP4 gene expression
YNL076w	*MKS1*	negative regulator of RAS-cAMP pathway
YDR207c	*UME6*	negative transcriptional regulator
YGL221c	*NIF3*	Ngg1p-interacting factor 3
YGL115w	*SNF4*	nuclear regulatory protein
YCR093w	*CDC39*	nuclear transmembrane protein
YML065w	*ORC1*	origin recognition complex, 104K subunit
YNL261w	*ORC5*	origin recognition complex, 50K subunit
YHR118c	*ORC6*	origin recognition complex, 50K subunit
YPR162c	*ORC4*	origin recognition complex, 56K subunit
YLL004w	*ORC3*	origin recognition complex, 62K subunit
YBR060c	*RRR1*	origin recognition complex, 72K subunit
YAL051w	*OAF1*	peroxisome proliferating transcription factor
YOR363c	*PIP2*	peroxisome proliferating transcription factor
YBL005w	*PDR3*	pleiotropic drug resistance regulatory protein
YKL015w	*PUT3*	positive activator of the proline utilization pathway
YGL192w	*IME4*	positive transcription factor for *IME2*

YDR017c	*KCS1*	potential transcription factor of the BZIP type
YGL025c	*PGD1*	probable transcription factor
YER108c	*FLO8*	probable transcriptional activator of Flo1p
YGL194c	*RTL1*	putative deacetylase
YJL103c		putative regulatory protein
YBL066c	*SEF1*	putative transcription factor
YHR056c		putative transcription regulator
YBR275c	*RIF1*	Rap1p-interacting factor 1
YKL038w	*RGT1*	regulator of glucose induced genes
YDR257c	*RMS1*	regulatory protein
YDR392w	*SPT3*	regulatory protein
YMR016c	*SOK2*	regulatory protein in the PKA signal transduction pathway
YCL055w	*KAR4*	regulatory protein required for pheromone induction of karyogamy genes
YNR052c	*POP2*	required for glucose derepression
YMR179w	*SPT21*	required for normal transcription at a number of loci
YKL093w	*MBR1*	required for optimal growth on glycerol
YOL068c	*HST1*	silencing protein
YOR025w	*HST3*	silencing protein
YBL052c	*SAS3*	silencing protein
YKR101w	*SIR1*	silencing regulatory protein
YDL042c	*SIR2*	silencing regulatory protein
YLR442c	*SIR3*	silencing regulatory protein
YDR227w	*SIR4*	silencing regulatory protein
YKL070w		similarity to *B. subtilis* transcriptional regulatory protein
YDL070w		similarity to bromodomain protein BDF1
YIL131c	*FKH1*	similarity to *D. melanogaster* fork head protein
YJL056c		similarity to developmental control proteins
YBR061c		similarity to *E. coli* ftsJ protein
YJR147w		similarity to heat-shock transcription factors
YGR249w	*MGA1*	similarity to heat-shock transcription factors
YPL015c	*HST2*	similarity to Hst1p and Sir2p
YDR191w	*HST4*	similarity to Hst3p,Hst1p and Sir2p
YNL107w		similarity to human AF-9 protein
YHR193c	*EGD2*	similarity to human α-NAC
YAR003w	*FUN16*	similarity to human RB protein binding protein
YER169w		similarity to human retinoblastoma binding protein 2
YJR119c		similarity to human retinoblastoma binding protein 2
YLR116w		similarity to human ZFM1 protein and mouse CW17R protein
YJL206c		similarity to hypothetical protein YIL130p and Put3p
YOL133w		similarity to Lotus RING-finger protein
YER130c		similarity to Msn2p and Msn4p
YER184c		similarity to multidrug resistance protein PDR3
YIL050w		similarity to *N. crassa* regulatory protein preg(+)
YLR013w		similarity to nitrogen regulatory proteins
YDR334w		similarity to nuclear Sth1p, Snf2p and related proteins
YPR115w		similarity to probable transcription factor Ask10p, and to hypothetical proteins YNL047c and YIL105c
YIL130w		similarity to Put3p and to hypothetical protein YJL206c
YCR020c	*PET18*	similarity to regulatory protein
YBR182c		similarity to Rlm1p,Mcm1p, and hMEF2
YKR008w		similarity to *S. pombe* bromodomain protein
YGL150c		similarity to Snf2p and human SNF2α
YLR228c		similarity to transcription activator Lys14p
YLL054c		similarity to transcription factor Pip2p
YLR266c		similarity to transcription factors
YLR278c		similarity to transcription factors
YDR303c		similarity to transcriptional regulator proteins
YMR019w	*STB4*	SIN3 binding protein
YHR178w	*STB5*	SIN3 binding protein
YKL072w	*STB6*	SIN3 binding protein
YNL309w	*STB1*	Sin3p binding protein
YMR053c	*STB2*	Sin3p binding protein
YLR399c	*BDF1*	sporulation protein
YNL204c	*SPS18*	sporulation-specific zinc-finger protein
YMR037c		stress responsive regulatory protein
YDR026c		strong similarity to DNA-binding protein Reb1p
YDR252w	*BTT1*	strong similarity to Egd1p and to human Btf3 protein
YHR211w	*FLO5*	strong similarity to Flo1p
YOR304w		strong similarity to human Snf2p homologue
YOL055c		strong similarity to hypothetical proteins YPL258c, YPR121w, similarity to *B. subtilis* transcriptional activator tenA
YFL052w		strong similarity to Mal63p, Mal23p and Mal33p
YPR196w		strong similarity to regulatory protein Mal63p
YBR245c		strong similarity to SNF2/SWI2 DNA binding regulatory protein
YDR253c		strong similarity to zinc-finger proteins
YML081w		strong similarity to ZMS1 protein
YEL056w	*HAT2*	subunit of the major yeast histone acetyltransferase
YOR213c		subunit of the RSC complex
YCR052w	*RSC6*	subunit of the RSC complex
YFR037c	*RSC8*	subunit of the RSC complex
YLR321c	*SFH1*	subunit of the RSC complex
YIL126w	*STH1*	subunit of the RSC complex
YGL254w	*FZF1*	sulphite resistance protein
YNL222w	*SSU72*	suppressor of cs mutant *sua7*
YDR310c	*SUM1*	suppressor of *mar1-1*
YKR099w	*BAS1*	transcription factor
YDL165w	*CDC36*	transcription factor
YLR098c	*CHA4*	transcription factor
YPL248c	*GAL4*	transcription factor
YFL031w	*HAC1*	transcription factor
YLR256w	*HAP1*	transcription factor
YCR065w	*HCM1*	transcription factor
YLR451w	*LEU3*	transcription factor
YGL013c	*PDR1*	transcription factor
YKL043w	*PHD1*	transcription factor
YFR034c	*PHO4*	transcription factor
YBR049c	*REB1*	transcription factor
YBL093c	*ROX3*	transcription factor
YOR140w	*SFL1*	transcription factor
YLR055c	*SPT8*	transcription factor
YER111c	*SWI4*	transcription factor
YDR146c	*SWI5*	transcription factor
YLR182w	*SWI6*	transcription factor
YFL021w	*GAT1*	transcription factor for nitrogen regulation
YER040w	*GLN3*	transcription factor for positive nitrogen regulation
YMR042w	*ARG80*	transcription factor involved in arginine metabolism
YML099c	*ARG81*	transcription factor involved in arginine metabolism
YMR280c	*CAT8*	transcription factor involved in gluconeogenesis
YGL181w	*GTS1*	transcription factor of the Gcs1p/Glo3p/Sps18p family
YMR043w	*MCM1*	transcription factor of the MADS box family
YPL089c	*RLM1*	transcription factor of the MADS box family
YLR014c	*PPR1*	transcription factor regulating pyrimidine pathway
YJR094c	*IME1*	transcription factor required for sporulation
YHR206w	*SKN7*	transcription factor with similarity to Hsf1p
YDL056w	*MBP1*	transcription factor, subunit of the MBF factor
YNL330c	*RPD3*	transcription modifier protein
YOL004w	*SIN3*	transcription regulatory protein
YJL127c	*SPT10*	transcription regulatory protein
YJL176c	*SWI3*	transcription regulatory protein
YPL082c	*MOT1*	transcriptional accessory protein
YDR423c	*CAD1*	transcriptional activator
YOR028c	*CIN5*	transcriptional activator
YPL075w	*GCR1*	transcriptional activator
YOL116w	*MSN1*	transcriptional activator
YKL062w	*MSN4*	transcriptional activator
YHR084w	*STE12*	transcriptional activator
YIR023w	*DAL81*	transcriptional activator for allantoin and GABA catabolic genes
YNL314w	*DAL82*	transcriptional activator for allantoin catabolic genes
YDL170w	*UGA3*	transcriptional activator for GABA catabolic genes
YML007w	*YAP1*	transcriptional activator involved in oxidative stress response
YEL009c	*GCN4*	transcriptional activator of amino acid biosynthetic genes
YDR034c	*LYS14*	transcriptional activator of lysine pathway genes
YIR017c	*MET28*	transcriptional activator of sulphur amino acid metabolism
YNL103w	*MET4*	transcriptional activator of sulphur metabolism
YPR104c	*FHL1*	transcriptional activator of the forkhead/hnf3 family
YDR448w	*ADA2*	transcriptional adaptor
YMR039c	*SUB1*	transcriptional coactivator
YAL021c	*CCR4*	transcriptional regulator
YER164w	*CHD1*	transcriptional regulator
YIL084c	*SDS3*	transcriptional regulator
YNL012w	*SPO1*	transcriptional regulator involved in sporulation
YGL035c	*MIG1*	transcriptional repressor
YER068w	*MOT2*	transcriptional repressor
YKR034w	*DAL80*	transcriptional repressor for allantoin and GABA catabolic genes
YMR182c	*RGM1*	transcriptional repressor protein
YCL054w		transcriptional silencing protein
YBR083w	*TEC1*	Ty transcription activator
YOR337w	*TEA1*	TY1 enhancer activator
YER151c	*UBP3*	ubiquitin-specific proteinase
YER088c		weak similarity human transforming proteins (B-myb)
YBR240c		weak similarity to regulatory proteins
YML076c		weak similarity to transcription factor
YCR106w		weak similarity to transcription factor Pip2p
YBR033w		weak similarity to transcription factors
YKR064w		weak similarity to transcription factors
YOL089c		weak similarity to transcription factors
YKL222c		weak similarity to transcription factors, similarity to finger proteins YOR162c, YOR172w and YLR266c
YBL054w		weak similarity transforming protein (B-myb)
YER122c	*GLO3*	zinc-finger protein
YDR216w	*ADR1*	zinc-finger transcription factor
YGR044c	*RME1*	zinc-finger transcription factor

chromatin modification

YBR195c	*MSI1*	chromatin assembly complex, subunit p50
YML102w	*CAC2*	chromatin assembly complex, subunit p60
YPR018w	*RLF2*	chromatin assembly complex, subunit p90
YGL207w	*SPT16*	general chromatin factor
YGR252w	*GCN5*	histone acetyltransferase
YGL194c	*RTL1*	putative deacetylase
YHR119w	*YTX1*	regulatory protein
YBR238c		strong similarity to general chromatin factor Spt16p
YFR004w	*MPR1*	strong similarity to *S. pombe* pad1 protein
YOR213c		subunit of the RSC complex
YCR052w	*RSC6*	subunit of the RSC complex
YFR037c	*RSC8*	subunit of the RSC complex
YLR321c	*SFH1*	subunit of the RSC complex
YIL126w	*STH1*	subunit of the RSC complex
YGR274c	*TAF145*	TFIID subunit (TBP-associated factor), 145K
YGR063c	*SPT4*	transcription initiation protein
YML010w	*SPT5*	transcription initiation protein
YGR116w	*SPT6*	transcription initiation protein

mRNA processing (splicing)

YBL074c	*AAR2*	A1 cistron splicing factor
YHL038c	*CBP2*	apo-cytochrome b pre-mRNA processing protein 2
YPL119c	*DBP1*	ATP-dependent RNA helicase
YOR204w	*DED1*	ATP-dependent RNA helicase
YBR142w	*MAK5*	ATP-dependent RNA helicase
YPL029w	*SUV3*	ATP-dependent RNA helicase, mitochondrial
YNL286w	*CUS2*	cold sensitive U2 snRNA suppressor
YIR021w	*MRS1*	involved in mitochondrial RNA splicing of COB mRNA
YOR148c	*SPP2*	involved in pre-mRNA processing
YPR057w	*BRR1*	involved in snRNP biogenesis
YLR382c	*NAM2*	leucine-tRNA ligase, mitochondrial
YNL210w	*MER1*	meiotic recombination protein
YHR086w	*NAM8*	meiotic recombination protein
YMR023c	*MSS1*	mitochondrial GTPase involved in expression of *COX1*
YLL036c	*PRP19*	non-snRNP sliceosome component required for DNA repair
YBR237w	*PRP5*	pre-mRNA processing RNA-helicase
YKL074c	*MUD2*	pre-mRNA splicing factor
YDL043c	*PRP11*	pre-mRNA splicing factor
YJL203w	*PRP21*	pre-mRNA splicing factor
YER013w	*PRP22*	pre-mRNA splicing factor
YMR268c	*PRP24*	pre-mRNA splicing factor
YGR075c	*PRP38*	pre-mRNA splicing factor
YML046w	*PRP39*	pre-mRNA splicing factor
YDL030w	*PRP9*	pre-mRNA splicing factor (snRNA-associated protein)
YDR088c	*SLU7*	pre-mRNA splicing factor affecting 3' splice site choice
YDR243c	*PRP28*	pre-mRNA splicing factor RNA helicase of DEAD box family
YGR091w	*PRP31*	pre-mRNA splicing protein
YDL044c	*MTF2*	protein involved in mRNA splicing and protein synthesis, mitochondrial
YBR091c	*MRS5*	regulator of intron splicing, mitochondrial
YDR028c	*REG1*	regulatory subunit for protein phosphatase Glc7p
YDR478w	*SNM1*	RNA binding protein of RNase MRP
YDR194c	*MSS116*	RNA helicase of the DEAD box family, mitochondrial
YER172c	*BRR2*	RNA helicase-related protein
YOR334w	*MRS2*	RNA splicing protein and member of the mitochondrial carrier family (MCF)
YJL133w	*MRS3*	RNA splicing protein and member of the mitochondrial carrier family (MCF)
YKR052c	*MRS4*	RNA splicing protein and member of the mitochondrial carrier family (MCF)
YKR086w	*PRP16*	RNA-dependent ATPase
YNR011c	*PRP2*	RNA-dependent ATPase of DEAH box family
YHR004c-a		similarity to mitochondrial splicing protein Mrs5p
YKR024c		similarity to pre-mRNA processing protein Prp5p
YGR074w	*SMD1*	snRNA-associated protein
YPR182w	*SMX3*	snRNA-associated protein of the SM family
YBR055c	*PRP6*	snRNP(U4/U6)-associated splicing factor
YKL012w	*PRP40*	splicing factor
YPR134w	*MSS18*	splicing protein
YGR222w	*PET54*	splicing protein and translational activator, mitochondrial
YKL078w		strong similarity to ATP-dependent RNA helicases
YOR159c	*SME1*	strong similarity to human small nuclear ribonucleoprotein E
YLR275w		strong similarity to human snRNP subunit D2 involved in systemic lupus erythematosus
YPL060w		strong similarity to Mrs2p
YGL120c		strong similarity to Prp22p
YLR147c	*SMD3*	strong similarity to small nuclear ribonucleoprotein D3
YIR009w	*MSL1*	strong similarity to small nuclear ribonucleoproteins
YIL061c	*SNP1*	U1 small nuclear ribonucleoprotein
YBR119w	*MUD1*	U1 snRNP-specific A protein
YMR240c	*CUS1*	U2 snRNP protein

YPR178w	*PRP4*	U4/U6 snRNP 52K protein
YGR006w	*PRP18*	U5 snRNA-associated protein
YHR165c	*PRP8*	U5 snRNP protein, pre-mRNA splicing factor
YER112w	*USS1*	U6 snRNA associated protein

mRNA processing (5'-end, 3'-end processing and mRNA degradation)

YJL209w	*CBP1*	apo-cytochrome b pre-mRNA processing protein
YBR120c	*CBP6*	apo-cytochrome b pre-mRNA processing protein
YPL178w	*SAE1*	cell cycle block in meiotic prophase
YGL094c	*PAN2*	component of Pab1p-stimulated poly(A) ribonuclease
YMR061w	*RNA14*	component of pre-mRNA 3'-end processing factor
YGL044c	*RNA15*	component of pre-mRNA 3'-end processing factor
YJR093c	*FIP1*	component of pre-mRNA polyadenylation factor
YKL025c	*PAN3*	component of the Pab1p-dependent poly (A)
YOL149w	*DCP1*	component of the yeast decapping enzyme
YGL097w	*SRM1*	GDP/GTP exchange factor for Gsp1p/Gsp2p
YGR158c	*MTR3*	involved in mRNA transport
YBR236c	*ABD1*	methyltransferase
YGL130w	*CEG1*	mRNA guanylyltransferase (mRNA capping enzyme, α subunit)
YER165w	*PAB1*	mRNA polyadenylate-binding protein
YLR277c	*BRR5*	mRNA processing protein
YKR002w	*PAP1*	poly(A) polymerase
YGL122c	*NAB2*	poly(A)-binding protein
YPL190c	*NAB3*	polyadenylated RNA-binding protein
YDR301w	*CFT1*	pre-mRNA 3'-end processing factor
YJR017c	*ESS1*	processing/termination factor 1
YDR195w	*REF2*	RNA 3'-end formation protein
YOR179c		similarity to BRR5 protein
YOR319w	*HSH49*	similarity to human SAP49 and RNA-binding proteins
YHR015w		similarity to PES4 PAB-like protein
YOR159c	*SME1*	strong similarity to human small nuclear ribonucleoprotein E

other mRNA-transcription activities

YGL171w	*ROK1*	ATP-dependent RNA helicase
YOL006c	*TOP1*	DNA topoisomerase I
YGL251c	*HFM1*	DNA/RNA helicase
YNL037c	*IDH1*	isocitrate dehydrogenase (NAD^+) subunit 1, mitochondrial
YOR136w	*IDH2*	isocitrate dehydrogenase (NAD^+) subunit 2, mitochondrial
YNL016w	*PUB1*	major polyadenylated RNA-binding protein of nucleus and cytoplasm
YHR170w	*NMD3*	nonsense-mediated mRNA decay protein
YMR064w	*AEP1*	nuclear control of ATPase messenger RNA expression protein
YOL123w	*HRP1*	polyadenylated RNA-binding protein
YLR067c	*PET309*	required for stability and translation of COX1 mRNA
YAL016w	*TPD3*	ser/thr phosphatase 2A, regulatory subunit A
YOL042w		similarity to CCR4 protein
YER146w		similarity to human snRNP E
YER029c		similarity to human snRNP-associated protein B
YER028c		similarity to Mig1p
YDR429c		similarity to nuclear RNA binding proteins
YJR127c	*ZMS1*	similarity to regulatory protein ADR1
YDL031w		similarity to RNA helicases
YNL147w		similarity to snRNP proteins
YNL021w		similarity to transcription factor Rpd3p
YPR068c		similarity to transcription factor Rpd3p
YPL213w		similarity to U2 snRNP protein A'
YBL026w	*SNP3*	snRNP-related protein
YDL160c	*DHH1*	strong similarity to RNA helicases of the DEAD box family
YLR147c	*SMD3*	strong similarity to small nuclear ribonucleoprotein D3
YLR139c	*SLS1*	suppresses lethality of SSM4 deletion

RNA transport

YGL097w	*SRM1*	GDP/GTP exchange factor for Gsp1p/Gsp2p
YMR235c	*RNA1*	GTPase activating protein
YOR185c	*GSP2*	GTP-binding protein
YLR293c	*GSP1*	GTP-binding protein of the ras superfamily
YOR160w	*MTR10*	involved in mRNA transport
YGR158c	*MTR3*	involved in mRNA transport
YJL050w	*MTR4*	involved in nucleocytoplasmic transport of mRNA
YKL186c	*MTR2*	mRNA transport protein
YKL068w	*NUP100*	nuclear pore protein
YKL057c	*NUP120*	nuclear pore protein
YKR082w	*NUP133*	nuclear pore protein
YGL092w	*NUP145*	nuclear pore protein
YDR192c	*NUP42*	nuclear pore protein
YGL172w	*NUP49*	nuclear pore protein
YJL061w	*NUP82*	nuclear pore protein
YDR432w	*NPL3*	nucleolar protein
YGL122c	*NAB2*	poly(A)-binding protein
YKL205w	*LOS1*	pre-tRNA splicing protein
YER110c	*KAP123*	RAN-binding protein
YDR002w	*YRB1*	ran-specific GTPase-activating protein
YER107c	*GLE2*	required for nuclear pore complex structure and function
YIR011c	*STS1*	required for transport of Rna15p from the cytoplasm to the nucleus
YDL207w	*GLE1*	RNA export mediator
YLR119w	*SRN2*	suppressor of *rna1-1* mutation

other transcription activities

YGL127c	*SOH1*	allows *hpr1* null mutant to grow at 37°C
YOR113w	*AZF1*	asparagine-rich zinc-finger protein
YPR198w	*SGE1*	drug resistance protein
YBR212w	*NGR1*	glucose-repressible RNA-binding protein
YML027w	*YOX1*	homoeodomain protein
YNL068c	*FKH2*	homology to *D. melanogaster* forkhead protein
YIL030c	*SSM4*	involved in mRNA turnover
YNL282w	*(POP2)*	involved in processsing RNAs
YCR087c-a		nucleic acid-binding protein
YDL051w	*YLA1*	RNA binding protein
YMR164c		similarity to CYC8 protein
YGL014w		similarity to *D. melanogaster* pumilio protein and HTR1 protein
YIR001c		similarity to *D. melanogaster* RNA binding protein
YNL004w	*HRB1*	similarity to Gbp2p
YBR233w		similarity to human hnRNP-E1 protein
YPR031w		similarity to human zinc-finger protein BR140
YCL033c		similarity to *M. capricolum* transcription repressor
YIR005w		similarity to RNA-binding proteins
YMR213w		similarity to *S. pombe* putative transcription factor cdc5
YNL175c		similarity to *S. pombe* Rnp24p
YOR244w		similarity to SAS2 and SAS3 protein
YPR008w		similarity to transcription factor
YPL230w		similarity to transcription factors
YPR013c		similarity to transcription factors
YPR015c		similarity to transcription factors
YNL027w		similarity to zinc-finger proteins
YPL038w		similarity to zinc-finger proteins
YDR169c	*STB3*	SIN3 protein-binding protein
YPR107c		strong similarity to *D. melanogaster* zinc-finger protein
YIL105c		strong similarity to hypothetical protein YNL047c, similarity to hypothetical protein YPR115w and to probable transcription factor Ask10p
YNL255c		strong similarity to nucleic acid-binding proteins
YHR169w		strong similarity to RNA helicase
YGL078c		strong similarity to RNA helicase DBP2 protein
YCR004c	*YCP4*	strong similarity to *S. pombe* protein obr1
YFL017w-a	*SNP2*	strong similarity to snRNP E
YDR451c		strong similarity to Yox1p
YML017w	*PSP2*	suppressor of DNA polymerase α mutation
YKR092c	*SRP40*	suppressor of mutant AC40 of RNA polymerase I and III
YKL005c		weak similarity to *D. melanogaster* transcription elongation factor DmS-II
YNR063w		weak similarity to CYC1/CYP3 transcription activator
YJL124c		weak similarity to human Sm protein G
YDR043c		weak similarity to *K. marxianus* Mig1 and other regulatory proteins
YIR018w		weak similarity to transcription activator Pdr4p
YPR199c		weak similarity to transcription activator Yap1p
YBR239c		weak similarity to transcription factor Put3p
YBR150c		weak similarity to transcription factors
YGR067c		weak similarity to transcription factors
YPL133c		weak similarity to transcription factors
YER116c		zinc-finger protein

Protein synthesis

ribosomal proteins

YGR214w	*NAB1A*	40S ribosomal protein p40 homologue A
YLR048w	*NAB1B*	40S ribosomal protein p40 homologue B
YCR031c	*CRY1*	40S ribosomal protein S14.e
YGL189c	*RPS26A*	40S ribosomal protein S26e.c7
YML009c	*MRPL39A*	60S ribosomal protein, mitochondrial
YDL081c	*RPLA1*	acidic ribosomal protein a1
YLR340w	*RPLA0*	acidic ribosomal protein L10.e
YDL130w	*RPLA3*	acidic ribosomal protein L44prime
YDR382w	*RPLA4*	acidic ribosomal protein L45
YOL039w	*RPLA2*	acidic ribosomal protein P2.β
YOR369c	*RS12*	acidic ribosomal protein S12
YGL068w		probable ribosomal protein L12
YLR325c		putative ribosomal protein L38
YFL034c-a		ribosomal protein
YFR032c-a		ribosomal protein
YLR061w		ribosomal protein
YMR142c		ribosomal protein
YPL183w-a		ribosomal protein
YLR075w	*GRC5*	ribosomal protein
YIL133c	*RP22*	ribosomal protein
YNL069c	*RP23*	ribosomal protein
YOR096w	*RP30*	ribosomal protein
YKL006w	*RPL14A*	ribosomal protein
YHL001w	*RPL14B*	ribosomal protein
YMR242c	*RPL18A*	ribosomal protein
YOR312c	*RPL18B*	ribosomal protein
YDR471w	*RPL27B*	ribosomal protein
YLR344w	*RPL33A*	ribosomal protein
YMR194w	*RPL39A*	ribosomal protein
YDL184c	*RPL47A*	ribosomal protein
YDL133c-a	*RPL47B*	ribosomal protein
YPL198w	*RPL6B*	ribosomal protein
YOL040c	*RPS21*	ribosomal protein
YLR287c-a	*RPS30A*	ribosomal protein
YDL191w	*SOS1*	ribosomal protein
YDL136w	*SOS2*	ribosomal protein
YPL220w	*SSM1A*	ribosomal protein
YGL135w	*SSM1B*	ribosomal protein
YGL123w	*SUP44*	ribosomal protein
YIL148w	*UBI1*	ribosomal protein
YKR094c	*UBI2*	ribosomal protein
YHL015w	*URP2*	ribosomal protein
YML073c	*YL16A*	ribosomal protein
YLR448w	*YL16B*	ribosomal protein
YDR500c	*RPL35B*	ribosomal protein L.37.e
YPR102c	*RPL16A*	ribosomal protein L11.e
YDR418w	*RPL15A*	ribosomal protein L12.e
YEL054c	*RPL15B*	ribosomal protein L12.e
YDL082w		ribosomal protein L13
YKL170w	*MRPL38*	ribosomal protein L14, mitochondrial
YLR029c	*RPL13A*	ribosomal protein L15.e.c12
YMR121c	*RPL13B*	ribosomal protein L15.e.c13
YJL063c	*MRPL8*	ribosomal protein L17, mitochondrial
YKL180w	*RPL20A*	ribosomal protein L17.e
YJL177w	*RPL20B*	ribosomal protein L17.e
YNL301c	*RP28B*	ribosomal protein L18.e
YBL027w	*RPL19A*	ribosomal protein L19.e
YBR084c-a	*RPL19B*	ribosomal protein L19.e
YPL079w	*URP1B*	ribosomal protein L21
YBR191w	*URP1A*	ribosomal protein L21.e
YBL087c	*RPL17A*	ribosomal protein L23.e
YER117w	*RPL17B*	ribosomal protein L23.e
YOL127w	*RPL25*	ribosomal protein L23a.e
YGL031c	*RPL30A*	ribosomal protein L24.e.A
YGR148c	*RPL30B*	ribosomal protein L24.e.B
YGR034w	*RPL33B*	ribosomal protein L26
YHR010w	*RPL27A*	ribosomal protein L27.e
YGL103w	*CYH2*	ribosomal protein L27a.e
YBR031w	*RPL2A*	ribosomal protein L2A
YOR063w	*TCM1*	ribosomal protein L3.e
YGL030w	*RPL32*	ribosomal protein L30.e
YDL075w	*RPL43A*	ribosomal protein L31.e
YLR406c	*RPL34B*	ribosomal protein L31.e.c12
YBL092w		ribosomal protein L32.e
YIL052c		ribosomal protein L34.e
YOR234c	*RPL37B*	ribosomal protein L35a.e.c15
YPL143w	*RPL37A*	ribosomal protein L35a.e.c16
YNL162w	*RPL41A*	ribosomal protein L36a.e
YHR141c	*RPL41B*	ribosomal protein L36a.e
YLR185w	*RPL35A*	ribosomal protein L37.e
YPR043w		ribosomal protein L37a.e
YJL189w	*RPL46*	ribosomal protein L39.e
YDR012w	*RPL2B*	ribosomal protein L4.e.B
YPL131w	*RPL1*	ribosomal protein L5.e
YNL002c	*RLP7*	ribosomal protein L7.e
YGL076c	*RPL6A*	ribosomal protein L7.e.A
YHL033c	*RPL4A*	ribosomal protein L7a.e.A
YLL045c	*RPL4B*	ribosomal protein L7a.e.B
YIL018w	*RPL5A*	ribosomal protein L8.e
YFR031c-a	*RPL5B*	ribosomal protein L8.e
YGL147c	*RPL9A*	ribosomal protein L9.e
YNL067w	*RPL9B*	ribosomal protein L9.e.c14
YGR076c	*MRPL25*	ribosomal protein m (YML25), mitochondrial
YJR094w-a		ribosomal protein of the large subunit
YOR293w		ribosomal protein S10.e
YDR025w	*RPS18A*	ribosomal protein S11.e
YBR048w	*RPS18B*	ribosomal protein S11.e.B
YPR166c	*MRP2*	ribosomal protein S14
YJL191w	*CRY2*	ribosomal protein S14.e.B
YJL190c	*RPS24A*	ribosomal protein S15a.e.c10
YLR367w	*RPS24B*	ribosomal protein S15a.e.c12
YPL013c		ribosomal protein S16, mitochondrial
YMR143w	*RPS16A*	ribosomal protein S16.e
YDL083c	*RPS16B*	ribosomal protein S16.e
YML024w	*RP51A*	ribosomal protein S17.e.A
YDR447c	*RP51B*	ribosomal protein S17.e.B
YOL120c	*RP28A*	ribosomal protein S18.e
YML026c	*RPS18EB*	ribosomal protein S18.e.c13
YDR450w	*RPS18EA*	ribosomal protein S18.e.c4
YOL121c	*RP55A*	ribosomal protein S19.e
YNL302c	*RP55B*	ribosomal protein S19.e
YKR057w	*RPS25A*	ribosomal protein S21.e
YJL136c	*RPS25B*	ribosomal protein S21.e
YGR118w	*RPS28A*	ribosomal protein S23.e
YPR132w	*RPS28B*	ribosomal protein S23.e
YER074w	*RP50A*	ribosomal protein S24.e
YIL069c	*RP50B*	ribosomal protein S24.e
YLR333c	*RPS31B*	ribosomal protein S25.e.c12
YGR027c	*RPS31A*	ribosomal protein S25.e.c7
YER131w	*RPS26B*	ribosomal protein S26e-c5
YKL156w	*RPS27A*	ribosomal protein S27.e
YHR021c	*RPS27B*	ribosomal protein S27.e
YDR064w	*YS15*	ribosomal protein S27A
YLR264w	*RPS33B*	ribosomal protein S28.e.c12
YOR167c	*RPS33A*	ribosomal protein S28.e.c15
YLR388w	*YS29A*	ribosomal protein S29.e.A
YDL061c	*YS29B*	ribosomal protein S29.e.B
YNL178w	*RPS3*	ribosomal protein S3.e

YLR441c	*RP10A*	ribosomal protein S3a.e
YML063w	*RP10B*	ribosomal protein S3a.e
YJR145c	*RPS7B*	ribosomal protein S4.e.c10
YHR203c	*RPS7A*	ribosomal protein S4.e.c8
YBR251w	*MRPS5*	ribosomal protein S5, mitochondrial
YJR123w	*RPS5*	ribosomal protein S5.e
YBR181c	*RPS101*	ribosomal protein S6.e
YPL090c	*RPS10B*	ribosomal protein S6.e
YBL072c	*RPS8A*	ribosomal protein S8.e
YER102w	*RPS8B*	ribosomal protein S8.e
YBR146w	*MRPS9*	ribosomal protein S9, mitochondrial
YPL081w	*RPS13B*	ribosomal protein S9.e.A
YBR189w	*SUP46*	ribosomal protein S9.e.B
YGR085c	*RPL16B*	ribosomal protein YL16.B
YKR006c	*MRPL13*	ribosomal protein YmL13, mitochondrial
YNL005c	*MRPL2*	ribosomal protein YmL2, mitochondrial
YKR085c	*MRPL20*	ribosomal protein YmL20, mitochondrial
YBR282w	*MRPL27*	ribosomal protein YmL27, mitochondrial
YDR462w		ribosomal protein YmL28, mitochondrial
YNL252c		ribosomal protein YmL30, mitochondrial
YKL138c	*MRPL31*	ribosomal protein YmL31, mitochondrial
YCR003w	*MRPL32*	ribosomal protein YmL32, mitochondrial
YBR122c	*MRPL36*	ribosomal protein YmL36, mitochondrial
YBR268w	*MRPL37*	ribosomal protein YmL37, mitochondrial
YPL173w		ribosomal protein YmL40, mitochondrial
YMR225c	*MRPL44*	ribosomal protein YmR44, mitochondrial
YPL249c-a	*RPL39B*	ribosomal protein, cytoplasmic
YML025c		ribosomal protein, mitochondrial
YDR347w	*MRP1*	ribosomal protein, mitochondrial
YGR084c	*MRP13*	ribosomal protein, mitochondrial
YKL003c	*MRP17*	ribosomal protein, mitochondrial
YDR405w	*MRP20*	ribosomal protein, mitochondrial
YHL004w	*MRP4*	ribosomal protein, mitochondrial
YKL167c	*MRP49*	ribosomal protein, mitochondrial
YKL142w	*MRP8*	ribosomal protein, mitochondrial
YLR312w-a	*MRPL15*	ribosomal protein, mitochondrial
YBL038w	*MRPL16*	ribosomal protein, mitochondrial
YMR193w	*MRPL24*	ribosomal protein, mitochondrial
YMR024w	*MRPL3*	ribosomal protein, mitochondrial
YMR286w	*MRPL33*	ribosomal protein, mitochondrial
YLR439w	*MRPL4*	ribosomal protein, mitochondrial
YHR147c	*MRPL6*	ribosomal protein, mitochondrial
YGR220c	*MRPL9*	ribosomal protein, mitochondrial
YDR337w	*MRPS28*	ribosomal protein, mitochondrial
YNL137c	*NAM9*	ribosomal protein, mitochondrial
YOR158w	*PET123*	ribosomal protein, mitochondrial
YCR046c	*PETCR46*	ribosomal protein, mitochondrial
YFR049w	*YMR31*	ribosomal protein, mitochondrial
YJR113c		similarity to mitochondrial ribosomal protein S7
YHR148w		similarity to ribosomal protein
YDR116c		similarity to ribosomal protein L1
YOR150w		similarity to ribosomal protein L13
YNL284c		similarity to ribosomal protein L15
YEL050c		similarity to ribosomal protein L2
YLR009w		similarity to ribosomal protein L24.e.B
YDR115w		similarity to ribosomal protein L34
YDR237w		similarity to ribosomal protein L5
YNL081c		similarity to ribosomal protein S13
YDR041w		similarity to ribosomal proteins
YKL009w		similarity to Rpl10p and S.solfataricus ribosomal protein L10
YDL208w	*NHP2*	strong similarity to high-mobility group (HMG) family
YEL026w		strong similarity to high-mobility group-like protein Nhp2p
YOR182c	*RPS30B*	strong similarity to human ubiquitin-like protein/ribosomal protein S30
YNR037c		strong similarity to *Mycoplasma* ribosomal protein S19
YNL185c		strong similarity to ribosomal protein L11
YER056c-a		strong similarity to ribosomal protein L34.e
YMR230w		strong similarity to ribosomal protein S10
YNR036c		strong similarity to ribosomal protein S12
YNL096c		strong similarity to ribosomal protein S7
YLR167w	*UBI3*	ubiquitin/ribosomal protein S27a
YMR188c		weak similarity to 30S ribosomal protein S17
YDL202w		weak similarity to ribosomal protein

translation (initiation, elongation and termination)

YDL081c	*RPLA1*	acidic ribosomal protein a1
YMR309c	*NIP1*	associated with 40s ribosomal subunit
YGL094c	*PAN2*	component of Pab1p-stimulated poly(A) ribonuclease
YDR172w	*SUP35*	eukaryotic peptide chain release factor GTP-binding subunit
YNL007c	*SIS1*	heat-shock protein
YBL091c	*MAP2*	methionine aminopeptidase, isoform 2
YMR023c	*MSS1*	mitochondrial GTPase involved in expression of *COX1*
YGL143c	*MRF1*	mitochondrial peptide chain release factor
YGL049c	*TIF4632*	mRNA cap-binding protein (eIF4F), 130K subunit
YGR162w	*TIF4631*	mRNA cap-binding protein (eIF4F), 150K subunit
YOR276w	*CAF20*	mRNA CAP-binding protein (eIF4F), 20K subunit
YER165w	*PAB1*	mRNA polyadenylate-binding protein
YKL173w	*GIN10*	similarity to elongation factor 2 eFT1
YHR015w		similarity to PES4 PAB-like protein
YGR201c		similarity to Tef3p and Tef4p
YPL226w		similarity to translation elongation factor eEF3
YLR289w	*GUF1*	strong similarity to *E. coli* elongation factor-type GTP-binding protein lepa
YDL084w		strong similarity to nuclear RNA helicase (DEAD family)
YDR021w		strong similarity to translation initiation factor eIF4A
YKL010c	*SOS1*	suppressor of *sis1*
YLR005w	*SSL1*	TFIIH subunit (transcription initiation factor), factor B
YKR084c	*HBS1*	translation elongation factor eEF1 α subunit homologue
YPR080w	*TEF1*	translation elongation factor eEF1 α-A subunit, cytosolic
YBR118w	*TEF2*	translation elongation factor eEF1 α-A subunit, cytosolic
YPL048w	*CAM1*	translation elongation factor eEF1, α subunit
YKL081w	*TEF4*	translation elongation factor eEF1, γ subunit
YAL003w	*EFB1*	translation elongation factor eEF1β
YOR133w	*EFT1*	translation elongation factor eEF2
YDR385w	*EFT2*	translation elongation factor eEF2
YLR249w	*YEF3*	translation elongation factor eEF3
YNL014w		translation elongation factor eEF3 homologue
YNL163c		translation elongation factor eEF4
YLR069c	*MEF1*	translation elongation factor G, mitochondrial
YOR187w	*TUF1*	translation elongation factor TU, mitochondrial
YJL102w	*MEF2*	translation elongation factor, mitochondrial
YOL023w	*IFM1*	translation initiation factor 2, mitochondrial
YNL244c	*SUI1*	translation initiation factor 3 (eIF3)
YKR059w	*TIF1*	translation initiation factor 4A
YMR260c	*TIF11*	translation initiation factor eIF1A
YPL237w	*SUI3*	translation initiation factor eIF2 β subunit
YJR007w	*SUI2*	translation initiation factor eIF2, α subunit
YER025w	*GCD11*	translation initiation factor eIF2, γ subunit
YKR026c	*GCN3*	translation initiation factor eIF2B, 34K, α subunit
YLR291c	*GCD7*	translation initiation factor eIF2B, 43K subunit
YGR083c	*GCD2*	translation initiation factor eIF2B, 71K (δ) subunit
YDR211w	*GCD6*	translation initiation factor eIF2B, ε 81K subunit
YOR260w	*GCD1*	translation initiation factor eIF2B, γ subunit
YOR361c	*PRT1*	translation initiation factor eIF3 subunit
YMR146c	*TIF34*	translation initiation factor eIF3, P39 subunit
YNL062c	*GCD10*	translation initiation factor eIF3, RNA-binding subunit
YJL138c	*TIF2*	translation initiation factor eIF4A
YPR163c	*TIF3*	translation initiation factor eIF4B
YOL139c	*CDC33*	translation initiation factor eIF4E
YPR041w	*TIF5*	translation initiation factor eIF5
YEL034w	*HYP2*	translation initiation factor eIF5A.1
YJR047c	*ANB1*	translation initiation factor eIF5A.2
YGL169w	*SUA5*	translation initiation protein
YBR143c	*SUP45*	translational release factor

translational control

YMR282c	*AEP2*	2'-O-ribosyl phosphate transferase
YBR120c	*CBP6*	apo-cytochrome b pre-mRNA processing protein
YPL029w	*SUV3*	ATP-dependent RNA helicase, mitochondrial
YOR017w	*PET127*	component of mitochondrial translation system
YMR028w	*TAP42*	component of the Tor signalling pathway
YDR197w	*CBS2*	cytochrome b translational activator protein
YNL216w	*RAP1*	DNA-binding protein with repressor and activator activity
YER054c	*GIP2*	Glc7p-interacting protein
YMR080c	*NAM7*	nonsense-mediated mRNA decay protein
YGR072w	*UPF3*	nonsense-mediated mRNA decay protein
YHR077c	*NMD2*	nonsense-mediated mRNA decay protein 2
YMR064w	*AEP1*	nuclear control of ATPase messenger RNA expression protein
YPL179w	*PPQ1*	phosphoprotein phosphatase
YFR009w	*GCN20*	positive effector of Gcn2p
YLR203c	*MSS51*	possibly involved in translational activation of COX1 and COB mRNA
YBL058w	*SHP1*	potential regulatory subunit for Glc7p
YNL139c	*RLR1*	regulatory protein
YLR067c	*PET309*	required for stability and translation of COX1 mRNA
YMR257c	*PET111*	required for translation of COX2 mRNA
YER133w	*GLC7*	ser/thr phosphoprotein phosphatase 1, catalytic subunit
YOR178c	*GAC1*	ser/thr phosphoprotein phosphatase 1, regulatory subunit
YDR283c	*GCN2*	ser/thr protein kinase
YGR222w	*PET54*	splicing protein and translational activator, mitochondrial
YBR024w	*SCO2*	strong similarity to Sco1p
YGL195w	*GCN1*	translational activator
YDL069c	*CBS1*	translational activator of cob mRNA
YER153c	*PET122*	translational activator of cytochrome c oxidase subunit III
YNR045w	*PET494*	translational activator, mitochondrial
YJL125c	*GCD14*	translational repressor of GCN4

tRNA synthetases

YOR335c	*ALA1*	alanyl-tRNA synthetase, cytosolic
YHR091c	*MSR1*	arginyl-tRNA synthetase, mitochondrial
YCR024c		asn-tRNA synthetase, mitochondrial
YHR019c	*DED81*	asparaginyl-tRNA-synthetase
YPL104w	*MSD1*	aspartate-tRNA ligase, mitochondrial
YLL018c	*DPS1*	aspartyl-tRNA synthetase, cytosolic
YOR168w	*GLN4*	glutaminyl-tRNA synthetase
YOL033w	*MSE1*	glutamyl-tRNA synthetase, mitochondrial
YBR121c	*GRS1*	glycine-tRNA ligase
YPR033c	*HTS1*	histidine-tRNA ligase, mitochondrial
YPL040c	*ISM1*	isoleucine-tRNA ligase, mitochondrial
YBL076c	*ILS1*	isoleucyl-tRNA synthetase
YPL160w	*CDC60*	leucine-tRNA ligase, cytosolic
YLR382c	*NAM2*	leucine-tRNA ligase, mitochondrial
YDR037w	*KRS1*	lysyl-tRNA synthetase, cytosolic
YNL073w	*MSK1*	lysyl-tRNA synthetase, mitochondrial
YGR264c	*MES1*	methionyl-tRNA synthetase
YGR171c	*MSM1*	methionyl-tRNA synthetase
YPR047w	*MSF1*	phenylalanine-tRNA ligase α subunit, mitochondrial
YFL022c	*FRS2*	phenylalanine-tRNA ligase β subunit, cytosolic
YLR060w	*FRS1*	phenylalanyl-tRNA synthetase, α subunit, cytosolic
YHR011w		seryl-tRNA synthetase
YDR023w	*SES1*	seryl-tRNA synthetase, cytosolic
YNL247w		similarity to cysteinyl-tRNA synthetases
YER087w		similarity to *E. coli* prolyl-tRNA synthetase
YDR341c		strong similarity to arginine-tRNA ligase and mitochondrial arginyl-tRNA synthetase
YGL245w		strong similarity to glutamine-tRNA ligase
YPR081c		strong similarity to glycyl-tRNA synthetases
YHR020w		strong similarity to human glutamyl-prolyl-tRNA synthetase
YKL194c	*MST1*	threonine-tRNA ligase, mitochondrial
YIL078w	*THS1*	threonyl tRNA synthetase, cytosolic
YOL097c	*WRS1*	tryptophan-tRNA ligase
YDR268w	*MSW1*	tryptophanyl-tRNA synthetase, mitochondrial
YPL097w	*MSY1*	tyrosyl-tRNA synthetase
YGR185c	*TYS1*	tyrosyl-tRNA synthetase
YGR094w	*VAS1*	valyl-tRNA synthetase

other protein-synthesis activities

YDL229w	*SSB1*	heat-shock protein of HSP70 family
YNL209w	*SSB2*	heat-shock protein of HSP70 family, cytosolic
YGR147c	*NAT2*	N-acetyltransferase for N-terminal methionine
YJR066w	*TOR1*	phosphatidylinositol 3-kinase
YDL044c	*MTF2*	protein involved in mRNA splicing and protein synthesis, mitochondrial
YDL040c	*NAT1*	protein N-acetyltransferase subunit
YJL023c	*PET130*	protein synthesis protein, mitochondrial
YMR005w	*MPT1*	required for protein synthesis
YBL080c	*PET112*	required to maintain RHO^{+} mitochondrial DNA
YHR189w		similarity to peptidyl-tRNA hydrolases
YLL039c	*UBI4*	ubiquitin

Protein destination

protein folding and stabilization

YEL030w		heat-shock protein of HSP70 family
YKL073w	*LHS1*	chaperone of the ER lumen
YIL142w	*CCT2*	chaperonin of the TCP1 ring complex, cytosolic
YJL014w	*CCT3*	chaperonin of the TCP1 ring complex, cytosolic
YDR212w	*CCT1*	component of chaperonin-containing T-complex
YDL143w	*CCT4*	component of chaperonin-containing T-complex
YJL111w	*CCT7*	component of chaperonin-containing T-complex
YJL008c	*CCT8*	component of chaperonin-containing T-complex
YDR188w	*CCT6*	component of chaperonin-containing T-complex (ζ subunit)
YDR155c	*CPH1*	cyclophilin (peptidylprolyl isomerase)
YML078w	*CPR3*	cyclophilin (peptidylprolyl isomerase), mitochondrial
YOR288c	*MPD1*	disulphide isomerase related protein
YER048c	*CAJ1*	dnaJ homologue
YDR519w	*FKB2*	FK506/rapamycin-binding protein of the ER
YFL016c	*MDJ1*	heat-shock protein - chaperone
YOR232w	*MGE1*	heat-shock protein - chaperone
YLR259c	*HSP60*	heat-shock protein - chaperone, mitochondrial
YJR045c	*SSC1*	heat-shock protein 70-related protein, mitochondrial
YAL005c	*SSA1*	heat-shock protein of HSP70 family
YLL024c	*SSA2*	heat-shock protein of HSP70 family, cytosolic
YDR171w	*HSP42*	heat-shock protein with similarity to Hsp26p
YLR216c	*CPR6*	member of the cyclophilin family
YJR032w	*CPR7*	member of the cyclophilin family
YJL034w	*KAR2*	nuclear fusion protein

YHR057c	*CYP2*	peptidyl-prolyl *cis-trans* isomerase
YCR069w	*SCC3*	peptidyl-prolyl *cis-trans* isomerase
YDR304c	*CYP5*	peptidyl-prolyl *cis-trans* isomerase D (cyclophilin D) of the ER
YNL135c	*FPR1*	peptidyl-prolyl *cis-trans* isomerase, FK506-binding protein
YML074c	*NPI46*	proline *cis-trans* isomerase
YDR518w	*EUG1*	protein disulphide isomerase
YCL043c	*PDI1*	protein disulphide-isomerase
YJR097w		similarity to Caj1p
YBR044c		similarity to chaperonin HSP60 proteins
YOL088c		similarity to disulphide isomerases and ER60 proteases
YNL077w		similarity to dnaJ protein homologue YDJ1
YMR161w	*HLJ1*	similarity to dnaJ proteins
YIR004w		similarity to DNAJ-like proteins
YLR090w	*XDJ1*	similarity to *E. coli* dnaJ
YJL073w		similarity to heat-shock proteins
YNR028w		similarity to peptidylprolyl isomerase Scc3p
YIL005w		similarity to protein disulphide isomerases
YLR369w		strong similarity to heat-shock protein 70-related proteins
YLR449w		strong similarity to peptidylprolyl isomerase FRP3
YJR064w	*CCT5*	T-complex protein 1, ε subunit
YFR041c		weak similarity to dnaJ-like heat-shock proteins
YNL227c		weak similarity to dnaJ-like proteins

protein targeting, sorting and translocation

YKL073w	*LHS1*	chaperone of the ER lumen
YGL206c	*CHC1*	clathrin heavy chain
YOL062c	*APM4*	clathrin-associate protein YAP54
YPL259c	*APM1*	clathrin-associated protein
YBR288c	*APM3*	clathrin-associated protein complex, medium subunit
YDL212w	*SHR3*	endoplasmic reticulum membrane protein
YBL040c	*ERD2*	ER lumen protein-retaining receptor
YER019c-a	*SEB2*	ER protein-translocation complex subunit
YLR378c	*SEC61*	ER protein-translocation complex subunit
YPL094c	*SEC62*	ER protein-translocation complex subunit
YOR254c	*SEC63*	ER protein-translocation complex subunit
YBR171w	*SEC66*	ER protein-translocation complex subunit
YLR292c	*SEC72*	ER protein-translocation complex subunit
YDR086c	*SSS1*	ER protein-translocation complex subunit
YOR089c	*VPS21*	GTP-binding protein
YKR014c	*YPT52*	GTP-binding protein of the RAB family
YNL093w	*YPT53*	GTP-binding protein of the RAB family (RAS superfamily)
YOR270c	*VPH1*	H+-ATPase V0 domain 95K subunit, vacuolar
YAL005c	*SSA1*	heat-shock protein of HSP70 family
YCR075c	*ERS1*	intracellular protein transport protein
YGR028w	*MSP1*	intra-mitochondrial sorting protein
YOR069w	*VPS5*	involved in Golgi retention and vacuolar sorting
YLR347c	*KAP95*	karyopherin-β
YOL122c	*SMF1*	manganese transporter
YKR001c	*VPS1*	member of the dynamin family of GTPases
YOR020c	*HSP10*	mitochondrial chaperonin
YNR017w	*MAS6*	mitochondrial inner membrane import translocase subunit
YJL143w	*TIM17*	mitochondrial inner membrane import translocase subunit
YIL022w	*TIM44*	mitochondrial inner membrane import translocase subunit
YMR035w	*IMP2*	mitochondrial inner membrane protease subunit
YNL131w	*TOM22*	mitochondrial outer membrane import receptor subunit
YGR082w	*TOM20*	mitochondrial outer membrane import receptor subunit, 20K
YMR060c	*TOM37*	mitochondrial outer membrane import receptor subunit, 37K
YMR203w	*TOM40*	mitochondrial outer membrane import receptor subunit, 40K
YOR045w	*TOM6*	mitochondrial outer membrane import receptor subunit, 6K
YNL070w	*TOM7*	mitochondrial outer membrane import receptor subunit, 7K
YNL121c	*TOM70*	mitochondrial outer membrane specialized import receptor
YMR150c	*IMP1*	mitochondrial protease
YJL034w	*KAR2*	nuclear fusion protein
YMR091c	*NPL6*	nuclear protein localization factor
YBR170c	*NPL4*	nuclear protein localization factor and ER translocation component
YDR432w	*NPL3*	nucleolar protein
YLR191w	*PAS20*	peroxisomal protein involved in protein import
YPR047w	*MSF1*	phenylalanine-tRNA ligase α subunit, mitochondrial
YNL106c	*PIE3*	phosphatidylinositol phosphate phosphatase
YBL069w	*AST1*	PMA1 protein targeting protein
YLR168c	*(MSF1)*	probably involved in intramitochondrial protein sorting
YDR244w	*PAS10*	putative peroxisomal targeting signal receptor
YCL001w	*RER1*	required for correct localization of Sec12p
YDR414c	*ERD1*	required for retention of luminal ER proteins
YDR005c	*MAF1*	required for sorting of Mod5p
YMR004w	*MVP1*	required for vacuolar protein sorting
YDR498c	*SEC20*	secretory pathway protein
YBR162w-a	*YSY6*	secretory pathway protein
YBR097w	*VPS15*	ser/thr protein kinase
YPL243w	*SRP68*	signal recognition particle protein
YPL210c	*SRP72*	signal recognition particle protein
YDR292c	*SRP101*	signal recognition particle receptor, α subunit
YML105c	*SEC65*	signal recognition particle subunit
YDL092w	*SRP14*	signal recognition particle subunit
YKL122c	*SRP21*	signal recognition particle subunit
YPR088c	*SRP54*	signal recognition particle subunit
YOR285w		similarity to *D. melanogaster* heat-shock protein 67B2
YOR286w		similarity to *D. melanogaster* heat-shock protein 67B2
YHR110w		similarity to human gp25L2 protein
YAR002c-a		similarity to mammalian gp25L protein
YKL154w		similarity to mouse signal recognition particle receptor β subunit
YKL196c		similarity to Sec22p
YMR018w		similarity to tetratricopeptide-repeat protein PAS10
YMR214w	*SCJ1*	similarity to to *E. coli* dnaJ
YNL304w		similarity to Ypt1p and other GTP-binding proteins
YER101c	*AST2*	strong similarity to Ast1p
YOR016c		strong similarity to FUN54 protein, similarity to hamster COP-coated vesicle membrane protein
YGL002w		strong similarity to human gp25L2 protein
YER087c-a	*SEB1*	strong similarity to mammalian Sec61β subunit
YCR099c		strong similarity to Pep1p
YCR100c		strong similarity to Pep1p
YCR101c		strong similarity to Pep1p
YIL173w		strong similarity to Pep1p
YJL222w		strong similarity to Pep1p
YBR283c		strong similarity to Sec61p
YOR327c	*SNC2*	strong similarity to synaptobrevin
YOR329c	*SCD5*	suppressor of clathrin deficiency
YHR050w	*SMF2*	suppressor of mitochondrial matrix mutant
YOR036w	*PEP12*	syntaxin (T-SNARE)
YLR148w	*PEP3*	vacuolar membrane protein
YBL017c	*PEP1*	vacuolar protein sorting/targeting protein
YJL053w	*PEP8*	vacuolar protein sorting/targeting protein
YOR132w	*VPS17*	vacuolar protein sorting-associated protein
YNR006w	*VPS27*	vacuolar protein sorting-associated protein
YGL095c	*VPS45*	vacuolar protein sorting-associated protein
YJL154c	*VPS35*	vacuolar protein-sorting protein
YDR323c	*PEP7*	vacuolar segregation protein
YPL045w	*VPS16*	vacuolar sorting protein
YDR495c	*VPS3*	vacuolar sorting protein
YLR396c	*VPS33*	vacuolar sorting protein
YAL002w	*VPS8*	vacuolar sorting protein
YML097c	*VPS9*	vacuolar sorting protein

protein modification (glycosylation, acylation, myristylation, palmitylation, farnesylation and processing)

YJR131w	*MNS1*	α-1,2-mannosidase
YDR483w	*KRE2*	α-1,2-mannosyltransferase
YER001w	*MNN1*	α-1,3-mannosyltransferase
YGL038c	*OCH1*	α-1,6-mannosyltransferase
YBR164c	*ARL1*	ADP-ribosylation factor
YKL157w	*APE2*	aminopeptidase yscII
YJR062c	*NTA1*	amino-terminal amidase
YGL017w	*ATE1*	arginyl tRNA transferase
YPL154c	*PEP4*	aspartyl protease
YLR120c	*YAP3*	aspergillopepsin
YDL141w	*BPL1*	biotin holocarboxylase synthetase
YBR110w	*ALG1*	β-mannosyltransferase
YGL203c	*KEX1*	carboxypeptidase (YSC-α)
YPL227c	*ALG5*	dolichol-P-glucose synthetase
YJR143c	*PMT4*	dolichyl-phosphate-mannose-protein O-mannosyl transferase
YDL212w	*SHR3*	endoplasmic reticulum membrane protein
YNL238w	*KEX2*	endoproteinase of late Golgi compartment
YDR331w	*GPI8*	essential for GPI-anchor attachment
YDR410c	*STE14*	farnesyl cysteine carboxyl-methyltransferase
YOR370c	*MSI4*	geranylgeranyltransferase regulatory subunit
YGL155w	*CDC43*	geranylgeranyltransferase type I β subunit
YPR176c	*BET2*	geranylgeranyltransferase type II β subunit
YJL031c	*BET4*	geranylgeranyltransferase, α subunit
YOR002w	*ALG6*	glucosyltransferase
YOR067c	*ALG8*	glucosyltransferase
YEL042w	*GDA1*	guanosine diphosphatase
YGR252w	*GCN5*	histone acetyltransferase
YPL001w	*HAT1*	histone acetyltransferase subunit
YBR034c	*HMT1*	hnRNP methyltransferase
YAL039c	*CYC3*	holocytochrome c synthase (cytochrome c heme lyase)
YKL087c	*CYT2*	holocytochrome c1 synthase
YGL065c	*ALG2*	mannosyltransferase
YDL095w	*PMT1*	mannosyltransferase
YAL023c	*PMT2*	mannosyltransferase
YOR321w	*PMT3*	mannosyltransferase
YBL082c	*RHK1*	mannosyltransferase
YLR244c	*MAP1*	methionine aminopeptidase, isoform 1
YBL091c	*MAP2*	methionine aminopeptidase, isoform 2
YMR035w	*IMP2*	mitochondrial inner membrane protease subunit
YKL134c	*(MIP1)*	mitochondrial intermediate peptidase
YLR163c	*MAS1*	mitochondrial processing peptidase
YHR024c	*MAS2*	mitochondrial processing peptidase, catalytic 53K (α) subunit
YMR150c	*IMP1*	mitochondrial protease
YPR051w	*MAK3*	N-acetyltransferase
YGR147c	*NAT2*	N-acetyltransferase for N-terminal methionine
YBR247c	*ENP1*	N-glycosylation protein
YLR195c	*NMT1*	N-myristoyltransferase
YJL002c	*OST1*	oligosaccharyltransferase α subunit
YEL002c	*WBP1*	oligosaccharyltransferase β subunit
YMR149w	*SWP1*	oligosaccharyltransferase δ subunit
YOR103c	*OST2*	oligosaccharyltransferase ε subunit
YOR085w	*OST3*	oligosaccharyltransferase γ subunit
YDL232w	*OST4*	oligosaccharyltransferase subunit
YGL022w	*STT3*	oligosaccharyltransferase subunit
YFL045c	*SEC53*	phosphomannomutase
YPR122w	*AXL1*	protease
YEL060c	*PRB1*	protease B, vacuolar
YLR389c	*STE23*	protease involved in a-factor processing
YCL043c	*PDI1*	protein disulphide-isomerase
YKL019w	*RAM2*	protein farnesyltransferase, α subunit
YDL090c	*RAM1*	protein farnesyltransferase, β subunit
YHR013c	*ARD1*	protein N-acetyltransferase subunit
YDL040c	*NAT1*	protein N-acetyltransferase subunit
YIL085c	*KTR7*	putative α-1,2-mannosyltransferase
YGL194c	*RTL1*	putative deacetylase
YNL029c	*KTR5*	putative mannosyltransferase
YGR199w	*PMT6*	putative mannosyltransferase
YKL193c	*SDS22*	regulatory subunit for the mitotic function of type I protein phosphatase
YNL048w	*ALG11*	required for asparagine-linked glycosylation
YLR088w	*GAA1*	required for attachment of GPI anchor onto proteins
YPL050c	*MNN9*	required for complex N-glycosylation
YJR010c-a	*SPC1*	signal peptidase 10.8K subunit
YML055w	*SPC2*	signal peptidase 18K subunit
YIR022w	*SEC11*	signal sequence processing protein
YDL042c	*SIR2*	silencing regulatory protein
YER005w		similarity to Gda1p
YMR223w		similarity to human putative ubiquitin carboxyl-terminal hydrolase
YDR098c		similarity to *Legionella* glutaredoxin-like protein
YER174c		similarity to *Legionella* glutaredoxin-like protein
YGL257c		similarity to Mnn1p
YIL014w		similarity to Mnn1p
YPR131c		similarity to N-acetyltransferases
YDL093w	*PMT5*	similarity to O-mannosyltransferases Pmt1p-Pmt4p
YDR307w		similarity to Pmt1p
YDR245w	*MNN10*	similarity to *S. pombe* galactosyltransferase
YLR066w		similarity to signal peptidase
YNR059w		similarity to to α-1,3-mannosyltransferase
YPL003w		similarity to ubiquitin-activating enzymes
YPR180w		similarity to ubiquitin-activating enzymes
YGL087c		similarity to ubiquitin-protein ligase
YIR039c		similarity to Yap3p
YBR205w	*KTR3*	strong similarity to α-1,2-mannosyltransferase
YBR199w	*KTR4*	strong similarity to α-1,2-mannosyltransferase
YPL053c	*KTR6*	strong similarity to α-1,2-mannosyltransferase Kre2p
YPL051w		strong similarity to ADP-ribosylation factors
YLR121c		strong similarity to aspartylproteases
YOR099w	*KTR1*	strong similarity to mannosyltransferases
YCR083w		strong similarity to thioredoxin
YOR339c		strong similarity to ubiquitin conjugating enzymes
YPR066w		strong similarity to ubiquitin-activating enzymes
YML111w		strong similarity to ubiquitination protein Bul1p
YGL226c-a	*OST5*	subunit of N-oligosaccharyltransferase, ζ subunit
YEL056w	*HAT2*	subunit of the major yeast histone acetyltransferase
YJR075w	*HOC1*	suppressor of *pkc1*
YLR043c	*TRX1*	thioredoxin I
YGR209c	*TRX2*	thioredoxin II
YOR219c	*STE13*	type IV dipeptidyl aminopeptidase
YMR275c	*BUL1*	ubiquitination pathway protein
YDR054c	*CDC34*	ubiquitin-conjugating enzyme
YGR133w	*PAS2*	ubiquitin-conjugating enzyme
YMR022w	*QRI8*	ubiquitin-conjugating enzyme
YGL058w	*RAD6*	ubiquitin-conjugating enzyme
YDR177w	*UBC1*	ubiquitin-conjugating enzyme
YLR306w	*UBC12*	ubiquitin-conjugating enzyme
YDR092w	*UBC13*	ubiquitin-conjugating enzyme
YDR059c	*UBC5*	ubiquitin-conjugating enzyme
YER100w	*UBC6*	ubiquitin-conjugating enzyme
YEL012w	*UBC8*	ubiquitin-conjugating enzyme
YDL064w	*UBC9*	ubiquitin-conjugating enzyme
YDR139c		ubiquitin-like protein
YER125w	*RSP5*	ubiquitin-protein ligase
YKL210w	*UBA1*	ubiquitin-protein ligase
YJR099w	*YUH1*	ubiquitin-specific protease
YBR243c	*ALG7*	UDP-N-acetylglucosamine-1-phosphate transferase
YKL035w	*UGP1*	UTP-glucose-1-phosphate uridylyltransferase
YDR495c	*VPS3*	vacuolar sorting protein

YJR117w	*STE24*	zinc metallo-protease

assembly of protein complexes

YGR214w	*NAB1A*	40S ribosomal protein p40 homologue A
YLR048w	*NAB1B*	40S ribosomal protein p40 homologue B
YPL195w	*YKS4*	α- or γ- adaptin, large subunit of the clathrin-associated protein(AP) complex
YBL037w	*APL3*	α-adaptin, large subunit of the clathrin-associated protein(AP) complex
YOR094w	*ARF3*	ADP-ribosylation factor 3
YBL022c	*PIM1*	ATP-dependent protease, mitochondrial
YKL135c	*APL2*	β-adaptin
YGR261c	*YKS5*	β-adaptin, large subunit of the clathrin-associated protein(AP) complex
YBR195c	*MSI1*	chromatin assembly complex, subunit p50
YPR018w	*RLF2*	chromatin assembly complex, subunit p90
YLR170c	*APS1*	clathrin-associated protein (AP) complex, small subunit AP19
YJR058c	*APS2*	clathrin-associated protein 17, small subunit
YJR005w	*YAP80*	clathrin-associated protein complex, β subunit
YJL024c	*APS3*	clathrin-associated protein(AP) complex, small subunit
YER058w	*PET117*	cytochrome c oxidase assembly factor
YPL132w	*COX11*	cytochrome c oxidase assembly protein
YML129c	*COX14*	cytochrome c oxidase assembly protein
YDR079w	*PET100*	cytochrome c oxidase assembly protein
YLR038c	*COX12*	cytochrome c oxidase subunit VIB
YMR256c	*COX7*	cytochrome c oxidase subunit VII
YDL067c	*COX9*	cytochrome c oxidase subunit VIIA
YER141w	*COX15*	cytochrome oxidase assembly factor
YER154w	*OXA1*	cytochrome oxidase biogenesis protein
YBL007c	*SLA1*	cytoskeleton assembly control protein
YNL243w	*SLA2*	cytoskeleton assembly control protein
YLR393w	*ATP10*	F1F0 ATPase complex assembly protein
YNL315c	*ATP11*	F1F0-ATPase complex assembly protein
YJL180c	*ATP12*	F1F0-ATPase complex assembly protein
YPL172c	*COX10*	farnesyl transferase
YPL231w	*FAS2*	fatty-acyl-CoA synthase, α subunit
YPR029c	*APL4*	γ-adaptin, large subunit of the clathrin-associated protein(AP) complex
YDL192w	*ARF1*	GTP-binding protein of the ARF family
YDL137w	*ARF2*	GTP-binding protein of the ARF family
YKL119c	*VPH2*	H^+-ATPase assembly protein, vacuolar
YPL234c	*TFP3*	H^+-ATPase V0 domain 17K subunit, vacuolar
YLR447c	*VMA6*	H^+-ATPase V0 domain 36K subunit, vacuolar
YOR270c	*VPH1*	H^+-ATPase V0 domain 95K subunit, vacuolar
YOR332w	*VMA4*	H^+-ATPase V1 domain 27K subunit, vacuolar
YKL080w	*VMA5*	H^+-ATPase V1 domain 42K subunit, vacuolar
YLL009c	*COX17*	interacts genetically with *SCO1* and *SCO2* in cytochrome oxidase assembly
YJR034w	*PET191*	involved in assembly of cytochrome oxidase
YBR037c	*SCO1*	involved in stabilization of Cox1p and Cox2p
YDR375c	*BCS1*	mitochondrial protein of the CDC48/PAS1/SEC18 (AAA) family of ATPases
YPL085w	*SEC16*	multidomain vesicle coat protein
YKR048c	*NAP1*	nucleosome assembly protein I
YML102w	*CAC2*	p60 subunit of the chromatin assembly factor-I (CAF-I)
YKL197c	*PAS1*	peroxisomal assembly protein
YDR265w	*PAS4*	peroxisomal assembly protein
YNL329c	*PAS8*	peroxisomal assembly protein
YBR237w	*PRP5*	pre-mRNA processing RNA-helicase
YJL203w	*PRP21*	pre-mRNA splicing factor
YER017c	*AFG3*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YPR024w	*YME1*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YMR089c	*YTA12*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YPL215w	*CBP3*	required for assembly of cytochrome bc1 complex
YBR185c	*MBA1*	respiratory chain assembly protein
YLL008w	*DRS1*	RNA helicase of the DEAD box family
YBR227c		similarity to *E. coli* ATP-binding protein clpX
YGR241c		similarity to rat clathrin assembly protein
YHR161c		similarity to rat clathrin assembly protein AP180
YGR074w	*SMD1*	snRNA-associated protein
YBR024w	*SCO2*	strong similarity to Sco1p
YLR327c		strong similarity to STF2p
YOR134w	*BAG7*	structural homologue of Sac7p
YDR389w	*SAC7*	suppressor of actin mutation
YOR106w	*VAM3*	syntaxin related protein
YDR460w	*TFB3*	TFIIH subunit (transcription/repair factor)
YPR178w	*PRP4*	U4/U6 snRNP 52K protein
YGL119w	*ABC1*	ubiquinol cytochrome c reductase complex assembly protein
YPR191w	*QCR2*	ubiquinol-cytochrome c reductase 40K subunit II
YGR174c	*CBP4*	ubiquinol-cytochrome c reductase assembly factor
YLL039c	*UBI4*	ubiquitin
YGR133w	*PAS2*	ubiquitin-conjugating enzyme
YGR105w	*VMA21*	vacuolar ATPase assembly integral membrane protein
YHR060w	*VMA22*	vacuolar ATPase assembly protein
YDR495c	*VPS3*	vacuolar sorting protein

proteolysis

YPL149w	*APG5*	involved in autophagy and nutrient starvation
YOL013c	*HRD1*	involved in degradation of Hmg2p
YLR207w	*HRD3*	involved in degradation of Hmg2p
YMR174c	*PAI3*	protease A (ysca) inhibitor IA3
YNL015w	*PBI2*	proteinase B inhibitor 2
YCL052c	*PBN1*	required for Prb1p expression
YHR132c		similarity to carboxypeptidase
YNR069c		similarity to central part of Bul1p
YBR227c		similarity to *E. coli* ATP-binding protein clpX
YNL186w		similarity to human putative ubiquitin carboxy-terminal hydrolase
YIL137c		similarity to *M. musculus* aminopeptidase
YKR038c		similarity to Qri7p
YER047c		similarity to regulatory subunit Yta6p of 26S proteasome
YCR045c		similarity to serin proteases
YER078c		similarity to X-Pro aminopeptidase II
YBR139w		strong similarity to carboxypeptidase
YBL067c	*UBP13*	ubiquitin carboxyl-terminal hydrolase
YOL111c		weak similarity to human ubiquitin-like protein GDX

cytoplasmic degradation

YFR052w	*NIN1*	26S proteasome regulatory subunit
YIL075c	*SEN3*	26S proteasome regulatory subunit
YOR259c	*CRL13*	26S proteasome subunit
YPR103w	*PRE2*	26S proteasome subunit
YFR050c	*PRE4*	26S proteasome subunit
YOR157c	*PUP1*	26S proteasome subunit
YGR253c	*PUP2*	26S proteasome subunit
YER094c	*PUP3*	26S proteasome subunit
YGL048c	*SUG1*	26S proteasome subunit
YHR200w	*SUN1*	26S proteasome subunit
YER021w	*SUN2*	26S proteasome subunit
YOR117w	*YTA1*	26S proteasome subunit
YDR394w	*YTA2*	26S proteasome subunit
YKL145w	*YTA3*	26S proteasome subunit
YGR270w	*YTA7*	26S proteasome subunit
YOR362c	*PRE10*	26S proteasome subunit C1
YER012w	*PRE1*	26S proteasome subunit C11
YGR135w	*PRE9*	26S proteasome subunit Y13
YML092c	*PRE8*	26S proteasome subunit Y7
YGL011c	*SCL1*	26S proteasome subunit YC7α/Y8
YMR314w	*PRE5*	26S proteasome subunit, α-type
YNL239w	*LAP3*	aminopeptidase of cysteine protease family
YJR062c	*NTA1*	amino-terminal amidase
YGL017w	*ATE1*	arginyl tRNA transferase
YDL132w	*CDC53*	controls G1/S transition
YLR452c	*SST2*	involved in desensitization to α-factor pheromone
YKL213c	*DOA1*	involved in ubiquitin-dependent proteolysis
YDL126c	*CDC48*	microsomal protein of CDC48/PAS1/SEC18 family of ATPases
YJL001w	*PRE3*	multicatalytic endopeptidase complex subunit
YOL038w	*PRE6*	multicatalytic endopeptidase complex subunit
YBL041w	*PRE7*	multicatalytic endopeptidase complex subunit
YDL020c	*SON1*	nuclear protein
YBR165w	*UBS1*	positive regulator of Cdc34p
YDL007w	*YTA5*	probable component of 26S proteasome complex
YIL148w	*UBI1*	ribosomal protein
YKR094c	*UBI2*	ribosomal protein
YMR223w		similarity to human putative ubiquitin carboxyl-terminal hydrolase
YDR390c	*UBA2*	similarity to Uba1p
YPL003w		similarity to ubiquitin-activating enzymes
YPR180w		similarity to ubiquitin-activating enzymes
YGL087c		similarity to ubiquitin-protein ligase
YPL074w	*YTA6*	similarity to Vps4p and Yta4p
YOR261c		strong similarity to human 26S proteasome regulatory subunit, p40
YOR339c		strong similarity to ubiquitin conjugating enzymes
YPR066w		strong similarity to ubiquitin-activating enzymes
YML111w		strong similarity to ubiquitination protein Bul1p
YHR027c	*HRD2*	subunit of 26S proteasome
YKL022c	*CDC16*	subunit of anaphase-promoting complex (cyclosome)
YHR166c	*CDC23*	subunit of anaphase-promoting complex (cyclosome)
YBL084c	*CDC27*	subunit of anaphase-promoting complex (cyclosome)
YLL039c	*UBI4*	ubiquitin
YIL156w	*UBP7*	ubiquitin carboxy terminal hydrolase
YER098w	*UBP9*	ubiquitin carboxyl-terminal hydrolase
YKR098c	*UBP11*	ubiquitin C-terminal hydrolase
YJL197w	*UBP12*	ubiquitin C-terminal hydrolase
YGR048w	*UFD1*	ubiquitin fusion degradation protein
YDL190c	*UFD2*	ubiquitin fusion degradation protein
YBR058c	*UBP14*	ubiquitin specific protease
YLR167w	*UBI3*	ubiquitin/ribosomal protein S27a
YMR275c	*BUL1*	ubiquitination pathway protein
YDR054c	*CDC34*	ubiquitin-conjugating enzyme
YMR022w	*QRI8*	ubiquitin-conjugating enzyme
YDR177w	*UBC1*	ubiquitin-conjugating enzyme
YLR306w	*UBC12*	ubiquitin-conjugating enzyme
YDR092w	*UBC13*	ubiquitin-conjugating enzyme
YBR082c	*UBC4*	ubiquitin-conjugating enzyme
YDR059c	*UBC5*	ubiquitin-conjugating enzyme
YER100w	*UBC6*	ubiquitin-conjugating enzyme
YDL064w	*UBC9*	ubiquitin-conjugating enzyme
YDR139c		ubiquitin-like protein
YER125w	*RSP5*	ubiquitin-protein ligase
YKL210w	*UBA1*	ubiquitin-protein ligase
YGR184c	*UBR1*	ubiquitin-protein ligase
YDR069c	*DOA4*	ubiquitin-specific protease
YDL122w	*UBP1*	ubiquitin-specific protease
YER144c	*UBP5*	ubiquitin-specific protease
YJR099w	*YUH1*	ubiquitin-specific protease
YOR124c	*UBP2*	ubiquitin-specific proteinase
YER151c	*UBP3*	ubiquitin-specific proteinase

lysosomal and vacuolar degradation

YBR286w	*APE3*	aminopeptidase Y, vacuolar
YKL103c	*LAP4*	aminopeptidase yscl, vacuolar
YPL154c	*PEP4*	aspartyl protease
YMR297w	*PRC1*	carboxypeptidase y, serine-type protease
YHR028c	*DAP2*	dipeptidyl aminopeptidase B
YJL172w	*CPS1*	Gly-X carboxypeptidase YSCS
YEL060c	*PRB1*	protease B, vacuolar
YOR003w	*YSP3*	subtilisin-like protease III

other subcellular degradation

YDR144c	*MKC7*	aspartyl protease of the periplasmic space
YBL022c	*PIM1*	ATP-dependent protease, mitochondrial
YIL015w	*BAR1*	barrierpepsin
YBR201w	*DER1*	involved in degradation proteins in the ER
YER017c	*AFG3*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YPR024w	*YME1*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YMR089c	*YTA12*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YCL057w	*PRD1*	proteinase yscD
YHR113w		similarity to vacuolar aminopeptidase Lap4p/Ape1p
YFR006w		similarity to X-Pro dipeptidases

other protein-destination activities

YDR258c	*HSP78*	heat-shock protein of clpb family of ATP-dependent proteases, mitochondrial
YDL104c	*QRI7*	similarity to *H. influenzae* sialoglycoprotease (gcp)
YDR415c		strong similarity to bacterial leucyl aminopeptidase

Transport facilitation

ion channels

YGR217w	*CCH1*	calcium channel protein
YLL052c		member of mip family transmembrane channels
YJL093c	*TOK1*	outward-rectifier potassium channel
YPR192w		similarity to plasma membrane and water channel proteins
YLL053c		similarity to water channel proteins
YIL114c	*POR2*	voltage-dependent anion channel (YVDAC2)
YJR040w	*GEF1*	voltage-gated chloride channel protein

ion transporters

YNR055c	*HOL1*	member of major facilitator superfamily multidrug-resistance protein subfamily 1
YIL048w		similarity to amino-phospholipids-ATPase Drs2p

metal ion transporters (Cu, Fe, etc.)

YOR316c	*COT1*	cobalt accumulation protein
YPR124w	*CTR1*	copper transport protein
YHR175w	*CTR2*	copper transport protein
YLR411w	*CTR3*	copper transport protein
YGL255w	*ZRT1*	high-affinity zinc transport protein
YLR130c	*ZRT2*	low-affininty zinc transporter
YMR319c	*FET4*	low-affinity Fe(II) iron transport protein
YOL122c	*SMF1*	manganese transporter
YBR290w	*BSD2*	metal homeostasis protein
YDR270w	*CCC2*	probable copper-transporting ATPase
YBR295w	*PCA1*	P-type Cu^{2+}-transporting ATPase
YMR243c	*ZRC1*	zinc- and cadmium resistance protein

other cation transporters (Na, K, Ca, NH_4, etc.)

YGR121c	*MEP1*	ammonia permease of high capacity and moderate affinity
YDL128w	*VCX1*	Ca^{2+}-transport (H^+/Ca^{2+} exchange) protein, vacuolar
YGL006w	*PMC1*	Ca^{2+}-transporting P-type ATPase
YGL167c	*PMR1*	Ca^{2+}-transporting P-type ATPase
YCR024c-a	*PMP1*	H^+-ATPase subunit, plasma membrane
YEL017c-a	*PMP2*	H^+-ATPase subunit, plasma membrane
YMR054w	*STV1*	H^+-ATPase V0 domain 102K subunit, vacuolar
YHR039c-a	*VMA10*	H^+-ATPase V0 domain 13K subunit, vacuolar

YEL027w	*CUP5*	H^+-ATPase V0 domain 17K subunit, vacuolar
YPL234c	*TFP3*	H^+-ATPase V0 domain 17K subunit, vacuolar
YLR447c	*VMA6*	H^+-ATPase V0 domain 36K subunit, vacuolar
YOR270c	*VPH1*	H^+-ATPase V0 domain 95K subunit, vacuolar
YGR020c	*VMA7*	H^+-ATPase V1 domain 14K subunit, vacuolar
YOR332w	*VMA4*	H^+-ATPase V1 domain 27K subunit, vacuolar
YEL051w	*VMA8*	H^+-ATPase V1 domain 32K subunit, vacuolar
YKL080w	*VMA5*	H^+-ATPase V1 domain 42K subunit, vacuolar
YPR036w	*VMA13*	H^+-ATPase V1 domain 54K subunit, vacuolar
YBR127c	*VMA2*	H^+-ATPase V1 domain 60K subunit, vacuolar
YDL185w	*TFP1*	H^+-ATPase V1 domain 69K subunit, vacuolar
YGL008c	*PMA1*	H^+-transporting P-type ATPase
YPL036w	*PMA2*	H^+-transporting P-type ATPase 2
YNL142w	*MEP2*	high-affinity low-capacity ammonia permease
YJL129c	*TRK1*	high-affinity potassium transport protein
YAL026c	*DRS2*	membrane-spanning P-type amino-phospholipids-ATPase
YKR050w	*TRK2*	moderate-affinity potassium transport protein
YHR026w	*PPA1*	proteolipid protein of proton-transporting ATPase
YEL031w	*SPF1*	P-type ATPase
YLR138w	*NHA1*	putative Na^+/H^+ antiporter
YBR235w		similarity to bumetanide-sensitive Na^+-K^+-Cl^- cotransport protein
YJL094c		similarity to *E. hirae* Na^+/H^+-antiporter NapA
YDR456w		similarity to Na^+/H^+ antiporters
YPR138c	*MEP3*	strong similarity to ammonium transport proteins
YHL016c	*DUR3*	urea transport protein

anion transporters (Cl, SO_4 ,PO_4, etc)

YLR348c		dicarboxylate carrier protein
YML123c	*PHO84*	high-affinity inorganic phosphate/H^+ symporter
YBR294w	*SUL1*	high-affinity sulphate transport protein
YJL117w	*PHO86*	inorganic phospate transporter
YCR037c	*PHO87*	member of the phosphate permease family
YJR077c	*MIR1*	phosphate transport protein, mitochondrial (MCF)
YBR235w		similarity to bumetanide-sensitive Na^+-K^+-Cl^- cotransport protein
YJL094c		similarity to *E. hirae* Na^+/H^+-antiporter NapA
YNR013c		similarity to membrane protein Pho87p and hypothetical protein YJL198w
YCR098c	*GIT1*	similarity to phosphate transporter proteins
YPR003c		similarity to sulphate transporter proteins
YER053c		strong similarity to mitochondrial phosphate carrier protein
YJL198w		strong similarity to Pho87p
YBR296c		strong similarity to phosphate-repressible phosphate permease
YLR092w	*SEL2*	strong similarity to Sul1p

sugar and carbohydrate transporters

YPR021c		similarity to human citrate transporter protein
YKL217w	*JEN1*	carboxylic-acid transporter protein
YBR291c	*CTP1*	citrate transport protein, mitochondrial (MCF)
YLR348c		dicarboxylate carrier protein
YLR081w	*GAL2*	galactose (and glucose) permease
YGR289c	*AGT1*	general α-glucoside permease
YLL043w	*FPS1*	glycerol channel protein
YNL318c	*HXT14*	hexose transport protein
YJL214w	*HXT8*	hexose transport protein
YJL219w	*HXT9*	hexose transport protein
YFL011w	*HXT10*	hexose transporter
YDL194w	*SNF3*	high-affinity glucose transporter
YEL069c	*HXT13*	high-affinity hexose transporter
YMR011w	*HXT2*	high-affinity hexose transporter
YDR343c	*HXT6*	high-affinity hexose transporter
YDR342c	*HXT7*	high-affinity hexose transporter
YML123c	*PHO84*	high-affinity inorganic phosphate/H^+ symporter
YOL156w	*HXT11*	low-affinity glucose transporter
YHR094c	*HXT1*	low-affinity hexose transporter
YDR345c	*HXT3*	low-affinity hexose transporter
YDR497c	*ITR1*	major myo-inositol permease
YBR298c	*MAL31*	maltose permease
YDL198c	*YHM1*	member of the mitochondrial carrier family (MCF)
YHR092c	*HXT4*	moderate- to low-affinity glucose transporter
YOL103w	*ITR2*	myo-inositol transport protein
YBR241c		similarity to glucose transport proteins
YGL104c		similarity to glucose transport proteins
YDR387c		similarity to Itr1p and Itr2p
YFR045w		similarity to mitochondrial citrate transport proteins
YCR098c	*GIT1*	similarity to phosphate transporter proteins
YDL199c		similarity to sugar transporter proteins
YFL040w		similarity to yeast glucose transport proteins
YHR096c	*HXT5*	strong similarity to hexose transporters
YDL245c	*HXT15*	strong similarity to Hxt17p and Haxt7p
YJR160c		strong similarity to Mal3Tp
YDR536w	*STL1*	strong similarity to members of the sugar permease family
YOR271c		strong similarity to *Rattus* tricarboxylate carrier
YDL247w		strong similarity to sugar transport proteins
YIL171w		strong similarity to sugar transport proteins
YIL170w	*HXT12*	strong similarity to sugar transport proteins
YJR158w	*HXT16*	strong similarity to sugar transport proteins
YNR072w	*HXT17*	sugar transport protein
YDL138w	*RGT2*	suppressor of *snf3* mutant

amino-acid transporters

YBR068c	*BAP2*	amino-acid permease
YEL063c	*CAN1*	amino-acid permease
YBR069c	*VAP1*	amino-acid permease
YCL025c	*AGP1*	asparagine and glutamine permease
YGL077c	*HNM1*	choline permease
YPL265w	*DIP5*	dicarboxylic amino-acid permease
YDL210w	*UGA4*	GABA-specific high-affinity permease
YKR039w	*GAP1*	general amino-acid permease
YDR508c	*GNP1*	high-affinity glutamine permease
YGR055w	*MUP1*	high-affinity methionine permease
YNL270c	*ALP1*	high-affinity permease for basic amino acids
YOL020w	*SCM2*	high-affinity tryptophan transport protein
YGR191w	*HIP1*	histidine permease
YNL268w	*LYP1*	lysine-specific high-affinity permease
YOR130c	*ARG11*	member of the mitochondrial carrier family (MCF)
YHL036w	*MUP3*	methionine permease
YOR348c	*PUT4*	proline and γ-aminobutyrate permease
YKL174c		similarity to choline transport protein Ctr1p
YNR056c		similarity to choline transport protein Ctr1p
YFL055w		similarity to Gap1p and other amino-acid permeases
YDR160w		similarity to lysine transport protein LYP1
YLL061w		strong similarity to amino-acid transport protein Gap1p
YDR046c	*(PAP1)*	strong similarity to amino-acid transport proteins
YBR132c		strong similarity to amino-acid permeases
YPL274w		strong similarity to amino-acid transport proteins

lipid transporters

YBR041w	*FAT1*	fatty-acid transporter
YKL188c	*PAT1*	long-chain-fatty-acid transporter
YPL147w	*PXA1*	long-chain-fatty-acid transporter
YKL174c		similarity to choline transport protein Ctr1p
YNR056c		similarity to choline transport protein Ctr1p
YHR123w	*EPT1*	sn-1,2-diacylglycerol ethanolamine- and cholinephosphotransferase

purine and pyrimidine transporters

YMR056c	*AAC1*	ADP/ATP carrier protein (MCF)
YBL030c	*AAC2*	ADP/ATP carrier protein (MCF)
YBR085w	*AAC3*	ADP/ATP carrier protein (MCF)
YBR192w	*RIM2*	mitochondrial carrier protein (MCF)
YER056c	*FCY2*	purine-cytosine permease
YER060w	*FCY21*	purine-cytosine permease
YOR222w		similarity to ADP/ATP carrier proteins
YPL134c		similarity to ADP/ATP carrier proteins
YPR011c		similarity to ADP/ATP carrier proteins and Graves disease carrier protein
YOR071c		similarity to allantoin or uracil transport proteins
YOR192c		similarity to allantoin or uracil transport proteins
YGR096w		similarity to bovine Graves disease carrier protein
YHR002w		similarity to bovine mitochondrial carrier protein/Grave's disease carrier protein
YGL186c		similarity to hypothetical protein YER060w and weak similarity to FCY2 protein
YBL042c		strong similarity to allantoin and uracil transport proteins
YER060w-a	*FCY22*	strong similarity to Fcy2p
YBR021w	*FUR4*	uracil permease

allantoin and allantoate transporters

YJR152w	*DAL5*	allantoate permease
YIR028w	*DAL4*	allantoin permease
YIL166c		similarity to allantoate permease Dal5p
YCR028c	*FEN2*	similarity to allantoate permease transporter
YGR260w		similarity to allantoate transport protein
YLR004c		similarity to allantoate transport protein
YOR071c		similarity to allantoin or uracil transport proteins
YOR192c		similarity to allantoin or uracil transport proteins
YLR237w		similarity to allantoin transport protein
YLL055w		similarity to Dal5p
YBL042c		strong similarity to allantoin and uracil transport proteins
YAL067c	*SEO1*	suppressor of sulphoxyde ethionine resistance

transport ATPases

YGL006w	*PMC1*	Ca^{2+}-transporting P-type ATPase
YGL167c	*PMR1*	Ca^{2+}-transporting P-type ATPase
YKL016c	*ATP7*	F1F0-ATPase complex, F0 D subunit
YBL099w	*ATP1*	F1F0-ATPase complex, F1 α subunit
YJR121w	*ATP2*	F1F0-ATPase complex, F1 β subunit
YDL004w	*ATP16*	F1F0-ATPase complex, F1 δ subunit
YPL078c	*ATP4*	F1F0-ATPase complex, F1 δ subunit
YPL271w	*ATP15*	F1F0-ATPase complex, F1 ε subunit
YBR039w	*ATP3*	F1F0-ATPase complex, F1 γ subunit
YDR298c	*ATP5*	F1F0-ATPase complex, OSCP subunit
YLR295c	*ATP14*	F1F0-ATPase complex, subunit h
YCR024c-a	*PMP1*	H^+-ATPase subunit, plasma membrane
YEL017c-a	*PMP2*	H^+-ATPase subunit, plasma membrane
YMR054w	*STV1*	H^+-ATPase V0 domain 102K subunit, vacuolar
YHR039c-a	*VMA10*	H^+-ATPase V0 domain 13K subunit, vacuolar
YEL027w	*CUP5*	H^+-ATPase V0 domain 17K subunit, vacuolar
YPL234c	*TFP3*	H^+-ATPase V0 domain 17K subunit, vacuolar
YLR447c	*VMA6*	H^+-ATPase V0 domain 36K subunit, vacuolar
YOR270c	*VPH1*	H^+-ATPase V0 domain 95K subunit, vacuolar
YGR020c	*VMA7*	H^+-ATPase V1 domain 14K subunit, vacuolar
YOR332w	*VMA4*	H^+-ATPase V1 domain 27K subunit, vacuolar
YEL051w	*VMA8*	H^+-ATPase V1 domain 32K subunit, vacuolar
YKL080w	*VMA5*	H^+-ATPase V1 domain 42K subunit, vacuolar
YPR036w	*VMA13*	H^+-ATPase V1 domain 54K subunit, vacuolar
YBR127c	*VMA2*	H^+-ATPase V1 domain 60K subunit, vacuolar
YDL185w	*TFP1*	H^+-ATPase V1 domain 69K subunit, vacuolar
YGL008c	*PMA1*	H^+-transporting P-type ATPase
YPL036w	*PMA2*	H^+-transporting P-type ATPase 2
YAL026c	*DRS2*	membrane-spanning P-type amino-phospholipids-ATPase
YDR270w	*CCC2*	probable copper-transporting ATPase
YHR026w	*PPA1*	proteolipid protein of proton-transporting ATPase
YEL031w	*SPF1*	P-type ATPase
YDR040c	*ENA1*	P-type ATPase involved in Na^+ and Li^+ efflux
YDR039c	*ENA2*	P-type ATPase involved in Na^+ efflux
YDR038c	*ENA5*	P-type ATPase involved in Na^+ efflux
YBR295w	*PCA1*	P-type Cu^{2+}-transporting ATPase
YIL048w		similarity to amino-phospholipids-ATPase Drs2p
YER166w		similarity to ATPase *P. falciparum* ATPase 2
YMR162c		similarity to ATPases
YDR093w		similarity to *P. falciparum* ATPase 2

ABC transporters

YDR406w	*PDR15*	ATP-binding cassette protein family member
YLR188w	*MDL1*	ATP-binding cassette transporter family member
YPL270w	*MDL2*	ATP-binding cassette transporter family member
YKL209c	*STE6*	ATP-binding cassette transporter protein
YGR281w	*YOR1*	ATP-binding cassette transporter protein required for oligomycin resistance
YMR301c	*ATM1*	ATP-binding cassette transporter protein, mitochondrial
YCR011c	*ADP1*	ATP-dependent permease
YDR135c	*YCF1*	glutathione S-conjugate transporter, vacuolar
YKL188c	*PAT1*	long-chain-fatty-acid transporter
YPL147w	*PXA1*	long-chain-fatty-acid transporter
YDR011w	*SNQ2*	multidrug resistance protein
YPL058c	*PDR12*	multidrug resistance transporter
YOR153w	*PDR5*	pleiotropic drug resistance protein
YOL075c		similarity to *A. gambiae* ATP-binding-cassette protein
YER036c		similarity to members of the ABC transporter family
YLL015w		similarity to metal resistance proteins
YHL035c		similarity to multidrug resistance proteins
YKR103w		similarity to multidrug resistance proteins
YKR104w		similarity to multidrug resistance proteins
YLL048c		similarity to rat organic anion transporter
YIL013c	*PDR11*	similarity to Snq2p and other ATP-dependent permeases
YOR328w	*PDR10*	strong similarity to ABC transporter proteins
YOR011w		strong similarity to ATP-dependent permeases

YDR091c		strong similarity to human RNase L inhibitor and to *M. jannaschii* ABC transporter
YNR070w		strong similarity to Snq2p

drug transporters

YML116w	*ATR1*	aminotriazole and 4-nitroquinoline resistance protein
YGR281w	*YOR1*	ATP-binding cassette transporter protein required for oligomycin resistance
YGR197c	*SNG1*	involved in nitroguanidine resistance
YEL065w		probably multidrug resistance protein
YMR123w	*PKR1*	resistance against *Pichia farinosa* killer toxin (SMK toxin) when expressed by a multicopy plasmid
YMR088c		similarity multidrug resistance proteins
YDR119w		similarity to *B. subtilis* tetracyclin resistance
YBR293w		similarity to multidrug resistance proteins
YGR138c		similarity to multidrug resistance proteins
YHR048w		similarity to multidrug resistance proteins
YPR156c		similarity to multidrug resistance proteins
YNL065w		similarity to resistance proteins
YIL013c	*PDR11*	similarity to Snq2p and other ATP-dependent permeases
YMR279c		strong similarity to aminotriazole resistance protein
YGR224w		strong similarity to drug resistance protein SGE1
YBR052c		strong similarity to *S. pombe* brefeldin A resistance protein obr1
YAL067c	*SEO1*	suppressor of sulphoxyde ethionine resistance

other transport-facilitators

YFL028c	*CAF16*	ATP-binding cassette transporter protein family member
YER019c-a	*SEB2*	ER protein-translocation complex subunit
YLR378c	*SEC61*	ER protein-translocation complex subunit
YPL094c	*SEC62*	ER protein-translocation complex subunit
YOR254c	*SEC63*	ER protein-translocation complex subunit
YBR171w	*SEC66*	ER protein-translocation complex subunit
YLR292c	*SEC72*	ER protein-translocation complex subunit
YDR086c	*SSS1*	ER protein-translocation complex subunit
YIL134w	*FLX1*	FAD carrier protein, mitochondrial (MCF)
YCR023c		member of major facilitator superfamily multidrug-resistance protein family 2
YKL039w	PTM1	member of the major facilitator superfamily
YPR058w	*YMC1*	mitochondrial carrier protein (MCF)
YNR017w	*MAS6*	mitochondrial inner membrane import translocase subunit
YJL143w	*TIM17*	mitochondrial inner membrane import translocase subunit
YIL022w	*TIM44*	mitochondrial inner membrane import translocase subunit
YNL131w	*TOM22*	mitochondrial outer membrane import receptor subunit
YGR082w	*TOM20*	mitochondrial outer membrane import receptor subunit, 20K
YMR060c	*TOM37*	mitochondrial outer membrane import receptor subunit, 37K
YMR203w	*TOM40*	mitochondrial outer membrane import receptor subunit, 40K
YOR045w	*TOM6*	mitochondrial outer membrane import receptor subunit, 6K
YNL070w	*TOM7*	mitochondrial outer membrane import receptor subunit, 7K
YNL055c	*POR1*	mitochondrial outer membrane porin
YNL121c	*TOM70*	mitochondrial outer membrane specialized import receptor
YAR035w	*YAT1*	outer carnitine acetyltransferase, mitochondrial
YKR093w	*PTR2*	peptide transporter
YIL120w		similarity to antibiotic resistance proteins
YIL121w		similarity to antibiotic resistance proteins
YCL038c		similarity to bacterial membrane transporter
YBR043c		similarity to benomyl/methotrexate resistance protein
YHL040c		similarity to *C. carbonum* toxin pump
YHL047c		similarity to *C. carbonum* toxin pump
YER024w		similarity to carnitine O-acetyltransferase Yat1p
YOR291w		similarity to cation translocating ATPases
YFL054c		similarity to channel proteins
YBR180w		similarity to drug resistance proteins
YIL006w		similarity to Flx1p
YOR306c		similarity to human X-linked PEST-containing transporter
YIL056w		similarity to hypothetical protein YER064c
YNL003c	*PET8*	similarity to mitochondrial rat tricarboxylate transport protein
YOL119c		similarity to monocarboxylate transporter proteins
YGR065c		similarity to *P. putida* phthalate transporter
YOL163w		similarity to *P. putida* phthalate transporter
YEL006w		similarity to peroxisomal membrane and mitochondrial carrier proteins
YJR124c		similarity to *Staphylococcus* multidrug resistance protein
YNL125c		similarity to YKL221w and human X-linked PEST-containing transporter
YBR008c		strong similarity to benomyl/methotrexate resistance protein
YCL069w		strong similarity to drug resistance protein SGE1
YER087c-a	*SEB1*	strong similarity to mammalian Sec61β subunit
YKR067w		strong similarity to Sct1p
YBL011w	*SCT1*	suppresses a choline-transport mutant
YBL089w		weak similarity to *A. thaliana* aminoacid permease AAP3
YIL088c		weak similarity to *A. thaliana* aminoacid permease AAP4
YJR001w		weak similarity to *A. thaliana* aminoacid permease AAP4
YER119c		weak similarity to *E. herbicola* tyrosine permease
YKL221w		weak similarity to human X-linked PEST-containing transporter
YEL064c		weak similarity to members of the major facilitator superfamily
YJR106w		weak similarity to Na^+/H^+ antiporter
YDL206w		weak similarity to transporter proteins
YKL146w		weak similarity to transporter proteins

Intracellular transport

nuclear transport

YIL075c	*SEN3*	26S proteasome regulatory subunit
YOR048c	*RAT1*	5'-3' exoribonuclease
YGL097w	*SRM1*	GDP/GTP exchange factor for Gsp1p/Gsp2p
YOR185c	*GSP2*	GTP-binding protein
YLR293c	*GSP1*	GTP-binding protein of the RAS superfamily
YAL005c	*SSA1*	heat-shock protein of HSP70 family
YOR160w	*MTR10*	involved in mRNA transport
YJL050w	*MTR4*	involved in nucleocytoplasmic transport of mRNA
YBR017c	*KAP104*	karyopherin
YNL189w	*SRP1*	karyopherin-α or importin
YLR347c	*KAP95*	karyopherin-β
YKL186c	*MTR2*	mRNA transport protein
YPL124w	*NIP29*	nuclear import protein
YPL174c	*NIP80*	nuclear import protein
YMR129w	*POM152*	nuclear pore membrane glycoprotein
YFR002w	*NIC96*	nuclear pore protein
YJL041w	*NSP1*	nuclear pore protein
YOR098c	*NUP1*	nuclear pore protein
YKL068w	*NUP100*	nuclear pore protein
YMR047c	*NUP116*	nuclear pore protein
YKL057c	*NUP120*	nuclear pore protein
YKR082w	*NUP133*	nuclear pore protein
YGL092w	*NUP145*	nuclear pore protein
YER105c	*NUP157*	nuclear pore protein
YIL115c	*NUP159*	nuclear pore protein
YBL079w	*NUP170*	nuclear pore protein
YML103c	*NUP188*	nuclear pore protein
YLR335w	*NUP2*	nuclear pore protein
YDR192c	*NUP42*	nuclear pore protein
YGL172w	*NUP49*	nuclear pore protein
YGR119c	*NUP57*	nuclear pore protein
YJL061w	*NUP82*	nuclear pore protein
YDL116w	*NUP84*	nuclear pore protein
YJR042w	*NUP85*	nuclear pore protein
YGL100w	*SEH1*	nuclear pore protein
YBR170c	*NPL4*	nuclear protein localization factor and ER translocation component
YER009w	*NTF2*	nuclear transport factor
YDR432w	*NPL3*	nucleolar protein
YDR002w	*YRB1*	ran-specific GTPase-activating protein
YER107c	*GLE2*	required for nuclear pore complex structure and function
YIR011c	*STS1*	required for transport of Rna15p from the cytoplasm to the nucleus
YDL207w	*GLE1*	RNA export mediator
YIL063c	*YRB2*	similarity to Yrp1p and Nup2p
YLR119w	*SRN2*	suppressor of *rna1-1* mutation
YFL049w		weak similarity to Npl6p

mitochondrial transport

YMR056c	*AAC1*	ADP/ATP carrier protein (MCF)
YBL030c	*AAC2*	ADP/ATP carrier protein (MCF)
YBR085w	*AAC3*	ADP/ATP carrier protein (MCF)
YMR301c	*ATM1*	ATP-binding cassette transporter protein, mitochondrial
YML042w	*CAT2*	carnitine O-acetyltransferase
YBR291c	*CTP1*	citrate transport protein, mitochondrial (MCF)
YOR316c	*COT1*	cobalt accumulation protein
YOR037w	*CYC2*	cytochrome c mitochondrial import factor
YLR348c		dicarboxylate carrier protein
YKL016c	*ATP7*	F1F0-ATPase complex, F0 D subunit
YBL099w	*ATP1*	F1F0-ATPase complex, F1 α subunit
YJR121w	*ATP2*	F1F0-ATPase complex, F1 β subunit
YDL004w	*ATP16*	F1F0-ATPase complex, F1 δ subunit
YPL078c	*ATP4*	F1F0-ATPase complex, F1 δ subunit
YPL271w	*ATP15*	F1F0-ATPase complex, F1 ε subunit
YBR039w	*ATP3*	F1F0-ATPase complex, F1 γ subunit
YDR298c	*ATP5*	F1F0-ATPase complex, OSCP subunit
YLR295c	*ATP14*	F1F0-ATPase complex, subunit h
YIL134w	*FLX1*	FAD carrier protein, mitochondrial (MCF)
YOR232w	*MGE1*	heat-shock protein - chaperone
YLL024c	*SSA2*	heat-shock protein of HSP70 family, cytosolic
YGR028w	*MSP1*	intra-mitochondrial sorting protein
YOR130c	*ARG11*	member of the mitochondrial carrier family (MCF)
YDL198c	*YHM1*	member of the mitochondrial carrier family (MCF)
YNL064c	*YDJ1*	mitochondrial and ER import protein
YBR192w	*RIM2*	mitochondrial carrier protein (MCF)
YPR058w	*YMC1*	mitochondrial carrier protein (MCF)
YBR104w	*YMC2*	mitochondrial carrier protein (MCF)
YML062c	*MFT1*	mitochondrial fusion target protein
YNR017w	*MAS6*	mitochondrial inner membrane import translocase subunit
YJL143w	*TIM17*	mitochondrial inner membrane import translocase subunit
YIL022w	*TIM44*	mitochondrial inner membrane import translocase subunit
YNL131w	*TOM22*	mitochondrial outer membrane import receptor subunit
YGR082w	*TOM20*	mitochondrial outer membrane import receptor subunit, 20K
YMR060c	*TOM37*	mitochondrial outer membrane import receptor subunit, 37K
YMR203w	*TOM40*	mitochondrial outer membrane import receptor subunit, 40K
YOR045w	*TOM6*	mitochondrial outer membrane import receptor subunit, 6K
YNL070w	*TOM7*	mitochondrial outer membrane import receptor subunit, 7K
YNL055c	*POR1*	mitochondrial outer membrane porin
YNL121c	*TOM70*	mitochondrial outer membrane specialized import receptor
YAR035w	*YAT1*	outer carnitine acetyltransferase, mitochondrial
YJR077c	*MIR1*	phosphate transport protein, mitochondrial (MCF)
YBR091c	*MRS5*	regulator of mitochondrial intron splicing
YPL134c		similarity to ADP/ATP carrier proteins
YER024w		similarity to carnitine O-acetyltransferase Yat1p
YPR021c		similarity to human citrate transporter protein
YER053c		strong similarity to mitochondrial phosphate carrier protein
YLR034c		strong similarity to SMF2 protein
YHR117w	*TOM71*	strong similarity to Tom70p/Mas70p
YHR050w	*SMF2*	suppressor of mitochondrial matrix mutant
YIL114c	*POR2*	voltage dependent anion channel (YVDAC2)

vesicular transport (Golgi network, etc.)

YBR164c	*ARL1*	ADP-ribosylation factor
YOR094w	*ARF3*	ADP-ribosylation factor 3
YGL167c	*PMR1*	Ca^{2+}-transporting P-type ATPase
YGR167w	*CLC1*	clathrin light chain
YOL062c	*APM4*	clathrin-associate protein YAP54
YPL259c	*APM1*	clathrin-associated protein
YBR288c	*APM3*	clathrin-associated protein complex, medium subunit
YPL010w	*RET3*	coatomer complex ζ subunit
YDL145c	*RET1*	coatomer complex α subunit of secretory pathway vesicles
YGL137w	*SEC27*	coatomer complex β' subunit (β'-cop) of secretory pathway vesicles
YDR238c	*SEC26*	coatomer complex β subunit of secretory pathway vesicles
YFR051c	*RET2*	coatomer complex δ subunit
YNL287w	*SEC21*	coatomer complex γ subunit (γ-COP) of secretory pathway vesicles
YDR170c	*SEC7*	component of non-clathrin vesicle coat
YPR181c	*SEC23*	component of the COPII coat of ER-Golgi vesicles
YDL195w	*SEC31*	component of the COPII coat of ER-Golgi vesicles
YGL200c	*EMP24*	component of the COPII-coated vesicles, 24K
YML012w	*ERV25*	component of the COPII-coated vesicles, 25K
YMR017w	*DBI9*	Dbf2p interacting protein
YKR054c	*DYN1*	dynein heavy chain, cytosolic
YLR083c	*EMP70*	endosomal protein
YBL040c	*ERD2*	ER lumen protein-retaining receptor
YJR031c	*GEA1*	GDP/GTP exchange factor for ARF
YEL022w	*GEA2*	GDP/GTP exchange factor for ARF
YNR026c	*SEC12*	GDP/GTP exchange factor for Sar1p
YPR017c	*DSS4*	GDP/GTP exchange factor for Sec4p
YDL192w	*ARF1*	GTP-binding protein of the ARF family
YDL137w	*ARF2*	GTP-binding protein of the ARF family
YPL218w	*SAR1*	GTP-binding protein of the ARF family
YFL038c	*YPT1*	GTP-binding protein of the RAB family
YER031c	*YPT31*	GTP-binding protein of the RAB family
YLR262c	*YPT6*	GTP-binding protein of the RAB family
YML001w	*YPT7*	GTP-binding protein of the RAB family
YFL005w	*SEC4*	GTP-binding protein of the RAS superfamily
YLL024c	*SSA2*	heat-shock protein of HSP70 family, cytosolic
YLR268w	*SEC22*	high copy suppressor of *ypt1* null mutation
YDR189w	*SLY1*	hydrophilic suppressor of *ypt1* and member of the Sec1p family
YDL058w	*USO1*	intracellular protein transport protein
YPL145c	*KES1*	involved in ergosterol biosynthesis
YKR068c	*BET3*	involved in targeting and fusion of ER to Golgi transport vesicles
YMR183c	*SSO2*	involved in vesicle transport from Golgi to plasma membrane
YNL064c	*YDJ1*	mitochondrial and ER import protein

YJL004c	*SYS1*	multicopy suppressor of *ypt6*
YPL085w	*SEC16*	multidomain vesicle coat protein
YOR326w	*MYO2*	myosin heavy chain
YFL025c	*BST1*	negative regulator of COPII vesicle formation
YMR079w	*SEC14*	phosphatidylinositol/phosphatidylcholine transfer protein
YCR067c	*SED4*	protein of the endoplasmic reticulum
YIL004c	*BET1*	protein transport protein
YLR208w	*SEC13*	protein transport protein
YNL272c	*SEC2*	protein transport protein
YGR009c	*SEC9*	protein transport protein
YGL145w	*TIP20*	required for ER to Golgi transport
YDR498c	*SEC20*	secretory pathway protein
YBR097w	*VPS15*	ser/thr protein kinase
YBR264c		similarity to GTP-binding proteins
YKL196c		similarity to Sec22p
YJL193w		similarity to Sly41p
YGL210w	*YPT32*	small GTP-binding protein
YKL006c-a	*SFT1*	SNARE-like protein
YPL051w		strong similarity to ADP-ribosylation factors
YDR107c		strong similarity to EMP70 protein
YAL030w	*SNC1*	strong similarity to synaptic vesicle-associated membrane protein
YOR327c	*SNC2*	strong similarity to synaptobrevin
YER039c		strong similarity to vanadate resistance protein Van2p
YLR026c	*SED5*	syntaxin (T-SNARE)
YOR075w	*UFE1*	syntaxin (T-SNARE) of the ER
YPL232w	*SSO1*	syntaxin-related protein
YBL050w	*SEC17*	transport vesicle fusion protein
YLR396c	*VPS33*	vacuolar sorting protein
YML097c	*VPS9*	vacuolar sorting protein
YGL225w	*GOG5*	vanadate-resistance protein
YGL233w	*SEC15*	vesicular traffic control protein
YBR080c	*SEC18*	vesicular-fusion protein, functional homologue of NSF
YLR093c		weak similarity to synaptobrevin
YLR078c	*BOS1*	weak similarity to synaptobrevin (V-SNARE)

peroxisomal transport

YML042w	*CAT2*	carnitine O-acetyltransferase
YKL188c	*PAT1*	long-chain-fatty-acid transporter
YPL147w	*PXA1*	long-chain-fatty-acid transporter
YER015w	*FAA2*	long-chain-fatty-acid-CoA ligase
YDR329c	*PAS3*	peroxisomal assembly protein
YJL210w	*PAS5*	peroxisomal assembly protein
YDR142c	*PAS7*	peroxisomal import protein
YLR191w	*PAS20*	peroxisomal protein involved in protein import
YDR244w	*PAS10*	putative peroxisomal targeting signal receptor

vacuolar transport

YDL128w	*VCX1*	Ca^{2+}-transport (H^+/Ca^{2+} exchange) protein, vacuolar
YGL006w	*PMC1*	Ca^{2+}-transporting P-type ATPase
YDR135c	*YCF1*	glutathione S-conjugate transporter, vacuolar
YOR089c	*VPS21*	GTP-binding protein
YER031c	*YPT31*	GTP-binding protein of the RAB family
YKR014c	*YPT52*	GTP-binding protein of the RAB family
YNL093w	*YPT53*	GTP-binding protein of the RAB family (RAS superfamily)
YMR054w	*STV1*	H^+-ATPase V0 domain 102K subunit, vacuolar
YHR039c-a	*VMA10*	H^+-ATPase V0 domain 13K subunit, vacuolar
YEL027w	*CUP5*	H^+-ATPase V0 domain 17K subunit, vacuolar
YPL234c	*TFP3*	H^+-ATPase V0 domain 17K subunit, vacuolar
YLR447c	*VMA6*	H^+-ATPase V0 domain 36K subunit, vacuolar
YOR270c	*VPH1*	H^+-ATPase V0 domain 95K subunit, vacuolar
YGR020c	*VMA7*	H^+-ATPase V1 domain 14K subunit, vacuolar
YOR332w	*VMA4*	H^+-ATPase V1 domain 27K subunit, vacuolar
YEL051w	*VMA8*	H^+-ATPase V1 domain 32K subunit, vacuolar
YKL080w	*VMA5*	H^+-ATPase V1 domain 42K subunit, vacuolar
YPR036w	*VMA13*	H^+-ATPase V1 domain 54K subunit, vacuolar
YBR127c	*VMA2*	H^+-ATPase V1 domain 60K subunit, vacuolar
YDL185w	*TFP1*	H^+-ATPase V1 domain 69K subunit, vacuolar
YPL066w	*VPS28*	involved in vacuolar traffic
YMR004w	*MVP1*	required for vacuolar protein sorting
YBR097w	*VPS15*	ser/thr protein kinase
YJL222w		strong similarity to Pep1p
YOR036w	*PEP12*	syntaxin (T-SNARE)
YNR006w	*VPS27*	vacuolar protein sorting-associated protein
YGL095c	*VPS45*	vacuolar protein sorting-associated protein
YDR323c	*PEP7*	vacuolar segregation protein
YPL045w	*VPS16*	vacuolar sorting protein
YPR173c	*VPS4*	vacuolar sorting protein
YAL002w	*VPS8*	vacuolar sorting protein
YML097c	*VPS9*	vacuolar sorting protein

extracellular transport

YJL085w	*EXO70*	70K exocyst component protein
YDR129c	*SAC6*	actin filament bundling protein, fimbrin
YKL209c	*STE6*	ATP-binding cassette transporter protein
YDL226c	*GCS1*	cell proliferation zinc-finger protein
YER136w	*GDI1*	GDP dissociation inhibitor
YLL043w	*FPS1*	glycerol channel protein
YJL044c	*GYP6*	GTPase-activating protein
YLR262c	*YPT6*	GTP-binding protein of the RAB family
YJL205c-a	*NCE1*	involved in non-classical protein export pathway
YPR149w	*NCE2*	involved in non-classical protein export pathway
YNL036w	*NCE3*	involved in non-classical protein export pathway
YOR326w	*MYO2*	myosin heavy chain
YJL093c	*TOK1*	outward-rectifier potassium channel
YMR308c	*PSE1*	protein secretion enhancer
YDR164c	*SEC1*	protein transport protein
YNL272c	*SEC2*	protein transport protein
YIL068c	*SEC6*	protein transport protein
YPR055w	*SEC8*	protein transport protein
YGR009c	*SEC9*	protein transport protein
YKL212w	*SAC1*	recessive suppressor of secretory defect
YLR166c	*SEC10*	required for exocytosis
YDR166c	*SEC5*	required for exocytosis
YNR049c	*MSO1*	secretion protein, multicopy suppressor of *sec1*
YER008c	*SEC3*	secretory pathway protein
YOR307c	*SLY41*	secretory pathway protein
YBR162w-a	*YSY6*	secretory pathway protein
YLR250w	*SSP120*	secretory protein
YCR032w		similarity to human CDC4L protein
YER006w		similarity to *P. polycephalum* myosin-related protein mlpA
YGR131w		strong similarity to Nce2p
YNL325c		suppressor of *sac1* mutation
YPL232w	*SSO1*	syntaxin-related protein
YGL233w	*SEC15*	vesicular traffic control protein
YBR080c	*SEC18*	vesicular-fusion protein, functional homologue of NSF

cellular import

YPL195w	*YKS4*	α- or γ- adaptin, large subunit of the clathrin-associated protein(AP) complex
YBL037w	*APL3*	α-adaptin, large subunit of the clathrin-associated protein(AP) complex
YFL039c	*ACT1*	actin
YDR129c	*SAC6*	actin filament bundling protein, fimbrin
YDL029w	*ACT2*	actin-like protein
YCL040w	*GLK1*	aldohexose specific glucokinase
YJR152w	*DAL5*	allantoate permease
YIR028w	*DAL4*	allantoin permease
YBR068c	*BAP2*	amino-acid permease
YEL063c	*CAN1*	amino-acid permease
YBR069c	*VAP1*	amino-acid permease
YGR121c	*MEP1*	ammonia permease of high capacity and moderate affinity
YKL135c	*APL2*	β-adaptin
YGR261c	*YKS5*	β-adaptin, large subunit of the clathrin-associated protein(AP) complex
YBR109c	*CMD1*	calmodulin
YDL226c	*GCS1*	cell proliferation zinc-finger protein
YMR058w	*FET3*	cell-surface ferroxidase
YGL077c	*HNM1*	choline permease
YGL206c	*CHC1*	clathrin heavy chain
YGR167w	*CLC1*	clathrin light chain
YLR170c	*APS1*	clathrin-associated protein (AP) complex, small subunit AP19
YJR058c	*APS2*	clathrin-associated protein 17, small subunit
YJR005w	*YAP80*	clathrin-associated protein complex, β subunit
YJL024c	*APS3*	clathrin-associated protein(AP) complex, small subunit
YPR124w	*CTR1*	copper transport protein
YHR175w	*CTR2*	copper transport protein
YNL243w	*SLA2*	cytoskeleton assembly control protein
YLL001w	*DNM1*	dynamin-related protein
YDL210w	*UGA4*	GABA-specific high-affinity permease
YPR029c	*APL4*	γ-adaptin, large subunit of the clathrin-associated protein(AP) complex
YLR081w	*GAL2*	galactose (and glucose) permease
YNR026c	*SEC12*	GDP/GTP exchange factor for Sar1p
YKR039w	*GAP1*	general amino-acid permease
YLL043w	*FPS1*	glycerol channel protein
YOR089c	*VPS21*	GTP-binding protein
YER031c	*YPT31*	GTP-binding protein of the RAB family
YKR014c	*YPT52*	GTP-binding protein of the RAB family
YML001w	*YPT7*	GTP-binding protein of the RAB family
YNL093w	*YPT53*	GTP-binding protein of the RAB family (RAS superfamily)
YNL318c	*HXT14*	hexose transport protein
YJL214w	*HXT8*	hexose transport protein
YJL219w	*HXT9*	hexose transport protein
YFL011w	*HXT10*	hexose transporter
YDL194w	*SNF3*	high-affinity glucose transporter
YEL069c	*HXT13*	high-affinity hexose transporter
YMR011w	*HXT2*	high-affinity hexose transporter
YDR343c	*HXT6*	high-affinity hexose transporter
YDR342c	*HXT7*	high-affinity hexose transporter
YML123c	*PHO84*	high-affinity inorganic phosphate/H^+ symporter
YNL142w	*MEP2*	high-affinity low capacity ammonia permease
YGR055w	*MUP1*	high-affinity methionine permease
YNL270c	*ALP1*	high-affinity permease for basic amino acids
YJL129c	*TRK1*	high-affinity potassium transport protein
YBR294w	*SUL1*	high-affinity sulphate transport protein
YOL020w	*SCM2*	high-affinity tryptophan transport protein
YGR191w	*HIP1*	histidine permease
YMR319c	*FET4*	low-affinity Fe(II) iron transport protein
YOL156w	*HXT11*	low-affinity glucose transporter
YHR094c	*HXT1*	low-affinity hexose transporter
YDR345c	*HXT3*	low-affinity hexose transporter
YNL268w	*LYP1*	lysine-specific high-affinity permease
YDR497c	*ITR1*	major myo-inositol permease
YBR298c	*MAL31*	maltose permease
YOL122c	*SMF1*	manganese transporter
YKR050w	*TRK2*	moderate-affinity potassium transport protein
YHR092c	*HXT4*	moderate to low-affinity glucose transporter
YOL103w	*ITR2*	myo-inositol transport protein
YLR240w	*VPS34*	phosphatidylinositol 3-kinase
YOR348c	*PUT4*	proline and γ-aminobutyrate permease
YER056c	*FCY2*	purine-cytosine permease
YLR088w	*GAA1*	required for attachment of GPI anchor onto proteins
YNL084c	*END3*	required for endocytosis and cytoskeletal organization
YJR090c	*GRR1*	required for glucose repression and for glucose and cation transport
YCR009c	*RVS161*	similarity to human amphiphysin and Rvs167p
YDR046c	*(PAP1)*	strong similarity to amino-acid transport proteins
YHR096c	*HXT5*	strong similarity to hexose transporters
YIL170w	*HXT12*	strong similarity to sugar transport proteins
YJR158w	*HXT16*	strong similarity to sugar transport proteins
YNR072w	*HXT17*	sugar transport protein
YOR329c	*SCD5*	suppressor of clathrin deficiency
YPR129w	*SCD6*	suppressor of clathrin deficiency
YBR021w	*FUR4*	uracil permease
YMR231w	*PEP5*	vacuolar biogenesis protein
YLR337w	*VRP1*	verprolin
YBR080c	*SEC18*	vesicular-fusion protein, functional homologue of NSF
YJR040w	*GEF1*	voltage-gated chloride channel protein
YMR243c	*ZRC1*	zinc- and cadmium resistance protein

other intracellular-transport activities

YKR054c	*DYN1*	dynein heavy chain, cytosolic
YER019c-a	*SEB2*	ER protein-translocation complex subunit
YLR378c	*SEC61*	ER protein-translocation complex subunit
YPL094c	*SEC62*	ER protein-translocation complex subunit
YOR254c	*SEC63*	ER protein-translocation complex subunit
YBR171w	*SEC66*	ER protein-translocation complex subunit
YLR292c	*SEC72*	ER protein-translocation complex subunit
YDR086c	*SSS1*	ER protein-translocation complex subunit
YCR075c	*ERS1*	intracellular protein transport protein
YHL019c	*APM2*	involved in clathrin-dependent transport processes
YJL034w	*KAR2*	nuclear fusion protein
YBR170c	*NPL4*	nuclear protein localization factor and ER translocation component
YKR093w	*PTR2*	peptide transporter
YKL198c	*PTK1*	polyamine transport enhancing protein
YDR040c	*ENA1*	P-type ATPase involved in Na^+ and Li^+ efflux
YER060w	*FCY21*	purine-cytosine permease
YNL183c	*NPR1*	ser/thr protein kinase
YOR100c		similarity to mitochondrial carrier protein YMC1
YGL216w		similarity to mouse kinesin-related protein KIF3
YPR009w		similarity to sterol uptake protein Sut1p
YHR123w	*EPT1*	sn-1,2-diacylglycerol ethanolamine- and cholinephosphotransferase
YER060w-a	*FCY22*	strong similarity to Fcy2p
YER087c-a	*SEB1*	strong similarity to mammalian Sec61β subunit

Cellular organization and biogenesis

organization and biogenesis of cell wall and plasma membrane

YLR342w	*FKS1*	1,3—D-glucan synthase, catalytic subunit
YGR032w	*GSC2*	1,3—D-glucan synthase, subunit
YOR362c	*PRE10*	26S proteasome subunit C1
YJR004c	*SAG1*	α-agglutinin
YNR044w	*AGA1*	α-agglutinin anchor subunit
YGL032c	*AGA2*	α-agglutinin binding subunit
YDR077w	*SED1*	abundant cell-surface glycoprotein
YJL005w	*CYR1*	adenylate cyclase
YCL007c	*CWH36*	affects the mannoprotein layer of the cell wall
YOR335c	*ALA1*	alanyl-tRNA synthetase, cytosolic
YPL061w	*ALD6*	aldehyde dehydrogenase, cytosolic
YJR152w	*DAL5*	allantoate permease
YIR028w	*DAL4*	allantoin permease
YBR068c	*BAP2*	amino-acid permease
YEL063c	*CAN1*	amino-acid permease
YBR069c	*VAP1*	amino-acid permease

YML116w	*ATR1*	aminotriazole and 4-nitroquinoline resistance protein
YGR121c	*MEP1*	ammonia permease of high capacity and moderate affinity
YDR144c	*MKC7*	aspartyl protease of the periplasmic space
YLR120c	*YAP3*	aspergillopepsin
YKL209c	*STE6*	ATP-binding cassette transporter protein
YGR281w	*YOR1*	ATP-binding cassette transporter protein required for oligomycin resistance
YCR011c	*ADP1*	ATP-dependent permease
YER123w	*YCK3*	casein kinase, isoform 3
YCL027w	*FUS1*	cell fusion protein
YMR058w	*FET3*	cell-surface ferroxidase
YKL096w	*CWP1*	cell-wall mannoprotein
YKL096w-a	*CWP2*	cell-wall mannoprotein
YNL322c	*KRE1*	cell-wall protein
YAR050w	*FLO1*	cell-wall protein involved in flocculation
YNL192w	*CHS1*	chitin synthase I
YBR038w	*CHS2*	chitin synthase II
YBR023c	*CHS3*	chitin synthase III
YGL077c	*HNM1*	choline permease
YOR010c	*TIR2*	cold-shock induced protein
YER011w	*TIR1*	cold-shock induced protein of the Tir1p, Tip1p family
YPR124w	*CTR1*	copper transport protein
YGR282c	*BGL2*	endo-1,3—glucanase of the cell wall
YOR190w	*SPR1*	exo-1,3—glucanase
YDR261c	*EXG2*	exo-1,3—glucanase minor isoform
YLR214w	*FRE1*	ferric (and cupric) reductase
YKL220c	*FRE2*	ferric (and cupric) reductase
YDL210w	*UGA4*	GABA-specific high-affinity permease
YLR081w	*GAL2*	galactose (and glucose) permease
YLL016w	*SDC25*	GDP/GTP exchange factor
YLR310c	*CDC25*	GDP/GTP exchange factor for Ras1p and Ras2p
YCR038c	*BUD5*	GDP/GTP exchange factor for Rsr1p/Bud1p
YKR039w	*GAP1*	general amino-acid permease
YMR307w	*GAS1*	glycophospholipid-anchored surface glycoprotein
YOL081w	*IRA2*	GTPase-activating protein for RAS proteins
YOR101w	*RAS1*	GTP-binding protein
YNL098c	*RAS2*	GTP-binding protein
YHR005c	*GPA1*	GTP-binding protein α subunit of the pheromone pathway
YOR212w	*STE4*	GTP-binding protein β subunit of the pheromone pathway
YJR086w	*STE18*	GTP-binding protein γ subunit of the pheromone pathway
YLR229c	*CDC42*	GTP-binding protein of RAS superfamily
YCR024c-a	*PMP1*	H^+-ATPase subunit, plasma membrane
YEL017c-a	*PMP2*	H^+-ATPase subunit, plasma membrane
YGL008c	*PMA1*	H^+-transporting P-type ATPase
YPL036w	*PMA2*	H^+-transporting P-type ATPase 2
YDR420w	*HKR1*	*Hansenula* MrakII k9 killer toxin-resistance protein
YLL024c	*SSA2*	heat-shock protein of HSP70 family, cytosolic
YNL318c	*HXT14*	hexose transport protein
YJL214w	*HXT8*	hexose transport protein
YJL219w	*HXT9*	hexose transport protein
YFL011w	*HXT10*	hexose transporter
YDL194w	*SNF3*	high-affinity glucose transporter
YEL069c	*HXT13*	high-affinity hexose transporter
YMR011w	*HXT2*	high-affinity hexose transporter
YDR343c	*HXT6*	high-affinity hexose transporter
YDR342c	*HXT7*	high-affinity hexose transporter
YML123c	*PHO84*	high-affinity inorganic phosphate/H^+ symporter
YNL142w	*MEP2*	high-affinity low-capacity ammonia permease
YGR055w	*MUP1*	high-affinity methionine permease
YNL270c	*ALP1*	high-affinity permease for basic amino acids
YJL129c	*TRK1*	high-affinity potassium transport protein
YBR294w	*SUL1*	high-affinity sulphate transport protein
YOL020w	*SCM2*	high-affinity tryptophan transport protein
YGR191w	*HIP1*	histidine permease
YBR140c	*IRA1*	inhibitory regulator protein of the RAS-cyclic AMP pathway
YNL291c	*MID1*	involved in Ca^{2+} influx during mating
YHL019c	*APM2*	involved in clathrin-dependent transport processes
YLR452c	*SST2*	involved in desensitization to α-factor pheromone
YCL051w	*LRE1*	involved in laminarinase resistance
YER118c	*SSU81*	involved in the *HOG1* high-osmolarity signal transduction pathway
YMR183c	*SSO2*	involved in vesicle transport from Golgi to plasma membrane
YLR155c	*ASP3A*	L-asparaginase II
YLR157c	*ASP3B*	L-asparaginase II
YLR158c	*ASP3C*	L-asparaginase II
YLR160c	*ASP3D*	L-asparaginase II
YMR319c	*FET4*	low-affinity Fe(II) iron transport protein
YOL156w	*HXT11*	low-affinity glucose transporter
YHR094c	*HXT1*	low-affinity hexose transporter
YDR345c	*HXT3*	low-affinity hexose transporter
YNL268w	*LYP1*	lysine-specific high-affinity permease
YDR497c	*ITR1*	major myo-inositol permease
YBR298c	*MAL31*	maltose permease
YOL122c	*SMF1*	manganese transporter
YIL047c	*SYG1*	member of the major facilitator superfamily
YKR050w	*TRK2*	moderate-affinity potassium transport protein
YHR092c	*HXT4*	moderate- to low-affinity glucose transporter
YGR014w	*MSB2*	multicopy suppressor of a *cdc24* bud emergence defect
YDR011w	*SNQ2*	multidrug resistance protein
YOL103w	*ITR2*	myo-inositol transport protein
YJL093c	*TOK1*	outward-rectifier potassium channel
YKR093w	*PTR2*	peptide transporter
YFL026w	*STE2*	pheromone α-factor receptor
YKL178c	*STE3*	pheromone a-factor receptor
YMR008c	*PLB1*	phospholipase B (lysophospholipase)
YOR153w	*PDR5*	pleiotropic drug resistance protein
YCR034w	*GNS1*	probable 1,3—glucan synthase subunit
YOR348c	*PUT4*	proline and γ-aminobutyrate permease
YPL140c	*MKK2*	protein kinase of the MAP kinase kinase (MEK) family
YGR009c	*SEC9*	protein transport protein
YER056c	*FCY2*	purine-cytosine permease
YIL140w	*SRO4*	required for axial pattern of budding
YCR089w	*FIG2*	required for efficient mating
YDR122w	*KIN1*	ser/thr protein kinase
YLR096w	*KIN2*	ser/thr protein kinase
YPL176c		similarity to chinese hamster transferrin receptor protein
YKR102w		similarity to Flo1p
YHL028w		similarity to mucin and other ser-thr rich proteins
YJR151c		similarity to mucin proteins
YMR317w		similarity to mucins, glucan 1,4—glucosidase and exo—sialidase
YCR098c	*GIT1*	similarity to phosphate transporter proteins
YIL013c	*PDR11*	similarity to Snq2p and other ATP-dependent permeases
YIL063c	*YRB2*	similarity to Yrp1p and Nup2p
YNL126w	*SPC98*	spindle pole body component
YHR139c	*SPS100*	sporulation-specific wall maturation protein
YOR328w	*PDR10*	strong similarity to ABC transporter proteins
YDR046c	*(PAP1)*	strong similarity to amino-acid transport proteins
YDR134c		strong similarity to Flo1p
YAL063c	*FLO9*	strong similarity to Flo1p
YLR343w		strong similarity to Gas1p and *C. albicans* pH responsive protein
YOL030w		strong similarity to glycoprotein GAS1
YHR096c	*HXT5*	strong similarity to hexose transporters
YDR536w	*STL1*	strong similarity to members of the sugar permease family
YIL170w	*HXT12*	strong similarity to sugar transport proteins
YJR158w	*HXT16*	strong similarity to sugar transport proteins
YNR072w	*HXT17*	sugar transport protein
YPL232w	*SSO1*	syntaxin-related protein
YBR067c	*TIP1*	temp.shock induced protein of the Srp1p/Tip1p family
YJR007w	*SUI2*	translation initiation factor eIF2, α subunit
YIL147c	*SLN1*	two-component signal transducer
YER125w	*RSP5*	ubiquitin-protein ligase
YBR021w	*FUR4*	uracil permease
YHL016c	*DUR3*	urea transport protein
YGL233w	*SEC15*	vesicular traffic control protein
YJR040w	*GEF1*	voltage-gated chloride channel protein
YMR243c	*ZRC1*	zinc- and cadmium resistance protein

organization and biogenesis of cytoskeleton

YML085c	*TUB1*	α-1 tubulin
YML124c	*TUB3*	α-3 tubulin
YFL039c	*ACT1*	actin
YMR092c	*AIP1*	actin cytoskeleton component
YDR129c	*SAC6*	actin filament bundling protein, fimbrin
YDL178w	*AIP2*	actin interacting protein 2
YJR065c	*ACT4*	actin-related protein
YCR088w	*ABP1*	actin-binding protein
YDL029w	*ACT2*	actin-like protein
YDR106w	*ARP10*	actin-related protein
YNL059c	*ARP5*	actin-related protein
YLR085c	*ARP6*	actin-related protein
YOR141c	*ARP8*	actin-related protein
YNR033w	*ARP9*	actin-related protein
YNL138w	*SRV2*	adenylate cyclase-associated protein, 70K
YAL020c	*ATS1*	α-tubulin suppressor
YER016w	*BIM1*	binding to microtubules
YFL037w	*TUB2*	β-tubulin
YOR265w	*RBL2*	β-tubulin binding protein
YBR200w	*BEM1*	bud emergence mediator
YLR319c	*BUD6*	bud site selection protein
YNL271c	*BNI1*	budding protein
YBR109c	*CMD1*	calmodulin
YCR002c	*CDC10*	cell division control protein
YGL116w	*CDC20*	cell division control protein
YLR314c	*CDC3*	cell division control protein
YFL009w	*CDC4*	cell division control protein
YHR129c	*ACT5*	centractin
YLR175w	*CBF5*	centromere/microtubule binding protein
YOR349w	*CIN1*	chromosome segregation protein
YLL050c	*COF1*	cofilin, actin binding and severing protein
YBL007c	*SLA1*	cytoskeleton assembly control protein
YNL243w	*SLA2*	cytoskeleton assembly control protein
YLL001w	*DNM1*	dynamin-related protein
YKR054c	*DYN1*	dynein heavy chain, cytosolic
YDR424c	*DYN2*	dynein light chain 1, cytosolic
YKL007w	*CAP1*	F-actin capping protein, α subunit
YIL034c	*CAP2*	F-actin capping protein, β subunit
YLR212c	*TUB4*	γ tubulin
YMR138w	*CIN4*	GTP-binding protein
YOR156c	*NFI1*	interacts with Cdc12p in 2-hybrid assay
YML104c	*MDM1*	intermediate filament protein
YLL021w	*SPA2*	involved in cell polarity
YPL241c	*CIN2*	involved in chromosome segregation
YDR085c	*AFR1*	involved in morphogenesis of the mating projection
YEL061c	*CIN8*	kinesin-related protein
YPR141c	*KAR3*	kinesin-related protein
YBL063w	*KIP1*	kinesin-related protein
YPL155c	*KIP2*	kinesin-related protein
YKL079w	*SMY1*	kinesin-related protein
YBR172c	*SMY2*	kinesin-related protein
YOR058c	*ASE1*	microtubule-associated protein
YJL042w	*MHP1*	microtubule-associated protein
YMR294w	*JNM1*	mitosis protein, involved in nuclear migration
YBL034c	*STU1*	mitotic spindle protein
YOR326w	*MYO2*	myosin heavy chain
YAL029c	*MYO4*	myosin heavy chain, unconventional (class V) isoform
YMR109w	*MYO5*	myosin I
YKL129c	*MYO3*	myosin type I
YHR023w	*MYO1*	myosin-1 isoform (type II myosin) heavy chain
YCL029c	*BIK1*	nuclear fusion protein
YOR122c	*PFY1*	profilin
YDR164c	*SEC1*	protein transport protein
YDR388w	*RVS167*	reduced viability upon starvation protein
YNL084c	*END3*	required for endocytosis and cytoskeletal organization
YBR130c	*SHE3*	required for mother cell-specific expression of HO
YGR078c	*PAC10*	required in the absence of Cin8p
YDR488c	*PAC11*	required in the absence of Cin8p
YER007w	*PAC2*	required in the absence of Cin8p
YJR076c	*CDC11*	septin
YHR107c	*CDC12*	septin
YDR218c	*SPR28*	septin-related sporulation protein
YNL059c		similarity to actin
YLR085c		similarity to actin and actin-related proteins
YLR429w		similarity to actin binding protein coronin
YPR034w		similarity to actins
YGL003c		similarity to *C. elegans* CDC20 protein and human p55CDC
YCR009c	*RVS161*	similarity to human amphiphysin and Rvs167p
YER018c		similarity to lamins
YOR367w		similarity to mammalian smooth muscle protein SM22
YIL149c		similarity to Mlp1p and myosin heavy chains
YGL216w		similarity to mouse kinesin-related protein KIF3
YKL179c		similarity to Nuf1p
YJR134c		similarity to paramyosin, myosin
YPL105c		similarity to Smy2p
YDR356w	*NUF1*	spindle pole body component
YNL126w	*SPC98*	spindle pole body component
YOL069w	*NUF2*	spindle pole body protein
YGR059w	*SPR3*	sporulation-specific septin
YEL071w		strong similarity to Aip2p
YOR134w	*BAG7*	structural homologue of Sac7p
YAL047c	*SPI6*	Stu2p Interactant
YKL022c	*CDC16*	subunit of anaphase-promoting complex (cyclosome)
YHR166c	*CDC23*	subunit of anaphase-promoting complex (cyclosome)
YBL084c	*CDC27*	subunit of anaphase-promoting complex (cyclosome)
YDR484w	*SAC2*	suppressor of actin mutation
YDR389w	*SAC7*	suppressor of actin mutation
YNL079c	*TPM1*	tropomyosin 1
YIL138c	*TPM2*	tropomyosin 2
YPL045w	*VPS16*	vacuolar sorting protein
YLR337w	*VRP1*	verprolin

organization and biogenesis of endoplasmic reticulum and Golgi

YML075c	*HMG1*	3-hydroxy-3-methylglutaryl-CoA reductase 1
YLR450w	*HMG2*	3-hydroxy-3-methylglutaryl-CoA reductase 2
YJR131w	*MNS1*	α-1,2-mannosidase
YDR483w	*KRE2*	α-1,2-mannosyltransferase
YER001w	*MNN1*	α-1,3-mannosyltransferase
YGL038c	*OCH1*	α-1,6-mannosyltransferase
YGL027c	*CWH41*	β-1,6-glucan assembly protein
YBR110w	*ALG1*	β-mannosyltransferase
YMR015c	*ERG5*	C-22 sterol desaturase
YGR060w	*ERG25*	C-4 sterol methyl oxidase
YLR056w	*ERG3*	C-5 sterol desaturase
YMR202w	*ERG2*	C-8 sterol isomerase
YGL167c	*PMR1*	Ca^{2+}-transporting P-type ATPase
YBR036c	*CSG2*	calcium dependent regulatory protein
YGL203c	*KEX1*	carboxypeptidase (YSC-α)
YPR113w	*PIS1*	CDP diacylglycerol-inositol 3-phosphatidyltransferase
YER026c	*CHO1*	CDP-diacylglycerol serine O-phosphatidyltransferase
YBR029c	*CDS1*	CDP-diacylglycerol synthase
YKL073w	*LHS1*	chaperone of the ER lumen
YGR202c	*PCT1*	cholinephosphate cytidylyltransferase
YOL062c	*APM4*	clathrin-associate protein YAP54
YPL259c	*APM1*	clathrin-associated protein

YDL195w	*SEC31*	component of the COPII coat of ER-Golgi vesicles
YGL200c	*EMP24*	component of the COPII-coated vesicles, 24K
YML012w	*ERV25*	component of the COPII-coated vesicles, 25K
YHR007c	*ERG11*	cytochrome P450 lanosterol 14a-demethylase
YNL130c	*CPT1*	diacylglycerol cholinephosphotransferase
YMR013c	*SEC59*	dolichol kinase
YPL227c	*ALG5*	dolichol-P-glucose synthetase
YPR183w	*DPM1*	dolichyl-phosphate β-D-mannosyltransferase
YJR143c	*PMT4*	dolichyl-phosphate-mannose-protein O-mannosyl transferase
YDL212w	*SHR3*	endoplasmic reticulum membrane protein
YNL238w	*KEX2*	endoproteinase of late Golgi compartment
YBL040c	*ERD2*	ER lumen protein-retaining receptor
YLR378c	*SEC61*	ER protein-translocation complex subunit
YPL094c	*SEC62*	ER protein-translocation complex subunit
YOR254c	*SEC63*	ER protein-translocation complex subunit
YBR171w	*SEC66*	ER protein-translocation complex subunit
YLR292c	*SEC72*	ER protein-translocation complex subunit
YDR086c	*SSS1*	ER protein-translocation complex subunit
YDR331w	*GPI8*	essential for GPI-anchor attachment
YHR190w	*ERG9*	farnesyl-diphosphate farnesyltransferase
YDR519w	*FKB2*	FK506/rapamycin-binding protein of the ER
YJR031c	*GEA1*	GDP/GTP exchange factor for ARF
YEL022w	*GEA2*	GDP/GTP exchange factor for ARF
YNR026c	*SEC12*	GDP/GTP exchange factor for Sar1p
YPR159w	*KRE6*	glucan synthase subunit
YGR143w	*SKN1*	glucan synthase subunit
YOR067c	*ALG8*	glucosyltransferase
YFL048c	*EMP47*	Golgi membrane protein
YDL192w	*ARF1*	GTP-binding protein of the ARF family
YPL218w	*SAR1*	GTP-binding protein of the ARF family
YFL038c	*YPT1*	GTP-binding protein of the RAB family
YLR262c	*YPT6*	GTP-binding protein of the RAB family
YPR165w	*RHO1*	GTP-binding protein of the RHO subfamily of RAS-like proteins
YNL090w	*RHO2*	GTP-binding protein of the RHO subfamily of RAS-like proteins
YEL042w	*GDA1*	guanosine diphosphatase
YDR189w	*SLY1*	hydrophilic suppressor of *ypt1* and member of the Sec1p family
YCR075c	*ERS1*	intracellular protein transport protein
YDL058w	*USO1*	intracellular protein transport protein
YLR220w	*CCC1*	involved in calcium regulation
YBR201w	*DER1*	involved in degradation proteins in the ER
YOR069w	*VPS5*	involved in Golgi retention and vacuolar sorting
YOR336w	*KRE5*	killer toxin-resistance protein
YHR072w	*ERG7*	lanosterol synthase
YKR061w	*KTR2*	mannosyltransferase
YDL095w	*PMT1*	mannosyltransferase
YAL023c	*PMT2*	mannosyltransferase
YOR321w	*PMT3*	mannosyltransferase
YBL082c	*RHK1*	mannosyltransferase
YJL139c	*YUR1*	mannosyltransferase
YKR001c	*VPS1*	member of the dynamin family of GTPases
YJR073c	*OPI3*	methylene-fatty-acyl-phospholipid synthase
YNL064c	*YDJ1*	mitochondrial and ER import protein
YPL085w	*SEC16*	multidomain vesicle coat protein
YHR042w	*NCP1*	NADPH-cytochrome P450 reductase
YFL025c	*BST1*	negative regulator of COPII vesicle formation
YJL034w	*KAR2*	nuclear fusion protein
YJL002c	*OST1*	oligosaccharyltransferase α subunit
YEL002c	*WBP1*	oligosaccharyltransferase β subunit
YMR149w	*SWP1*	oligosaccharyltransferase δ subunit
YOR103c	*OST2*	oligosaccharyltransferase ε subunit
YOR085w	*OST3*	oligosaccharyltransferase γ subunit
YGL022w	*STT3*	oligosaccharyltransferase subunit
YHR057c	*CYP2*	peptidyl-prolyl *cis-trans* isomerase
YCR069w	*SCC3*	peptidyl-prolyl *cis-trans* isomerase
YDR304c	*CYP5*	peptidyl-prolyl *cis-trans* isomerase D (cyclophilin D) of the ER
YGR157w	*CHO2*	phosphatidylethanolamine N-methyltransferase
YGR170w	*PSD2*	phosphatidylserine decarboxylase 2
YDR518w	*EUG1*	protein disulphide isomerase
YCL043c	*PDI1*	protein disulphide-isomerase
YHR079c	*IRE1*	protein kinase
YEL036c	*ANP1*	protein of the endoplasmatic reticulum
YCR067c	*SED4*	protein of the endoplasmic reticulum
YIL004c	*BET1*	protein transport protein
YDR040c	*ENA1*	P-type ATPase involved in Na^+ and Li^+ efflux
YKL212w	*SAC1*	recessive suppressor of secretory defect
YLR088w	*GAA1*	required for attachment of GPI anchor onto proteins
YPL050c	*MNN9*	required for complex N-glycosylation
YCL001w	*RER1*	required for correct localization of Sec12p
YGL145w	*TIP20*	required for ER to Golgi transport
YDR414c	*ERD1*	required for retention of luminal ER proteins
YMR004w	*MVP1*	required for vacuolar protein sorting
YDR498c	*SEC20*	secretory pathway protein
YJR010c-a	*SPC1*	signal peptidase 10.8K subunit
YML055w	*SPC2*	signal peptidase 18K subunit
YDR292c	*SRP101*	signal recognition particle receptor, α subunit
YIR022w	*SEC11*	signal sequence processing protein
YAL058w	*CNE1*	similarity to calnexin
YDR245w	*MNN10*	similarity to *S. pombe* galactosyltransferase
YMR214w	*SCJ1*	similarity to to *E. coli* dnaJ
YHR123w	*EPT1*	sn-1,2-diacylglycerol ethanolamine- and cholinephosphotransferase
YKL006c-a	*SFT1*	SNARE-like protein
YGR175c	*ERG1*	squalene monooxygenase
YGL055w	*OLE1*	stearoyl-CoA desaturase
YLR080w		strong similarity to Emp47p
YER087c-a	*SEB1*	strong similarity to mammalian Sec61β subunit
YOR099w	*KTR1*	strong similarity to mannosyltransferases
YGL226c-a	*OST5*	subunit of N-oligosaccharyltransferase, ζ subunit
YDR297w	*SUR2*	suppressor of *rvs161* and *rvs167* mutations
YBL102w	*SFT2*	suppressor of *sed5* ts mutants
YLR026c	*SED5*	syntaxin (T-SNARE)
YOR075w	*UFE1*	syntaxin (T-SNARE) of the ER
YOR219c	*STE13*	type IV dipeptidyl aminopeptidase
YMR022w	*QRI8*	ubiquitin-conjugating enzyme
YER100w	*UBC6*	ubiquitin-conjugating enzyme
YBR243c	*ALG7*	UDP-N-acetylglucosamine-1-phosphate transferase
YGR105w	*VMA21*	vacuolar ATPase assembly integral membrane protein
YBL017c	*PEP1*	vacuolar protein sorting/targeting protein
YGL225w	*GOG5*	vanadate-resistance protein

organization and biogenesis of chromosome structure

YJL081c	*ACT3*	actin-related protein
YDL220c	*CDC13*	cell division control protein
YBR195c	*MSI1*	chromatin assembly complex, subunit p50
YML102w	*CAC2*	chromatin assembly complex, subunit p60
YPR018w	*RLF2*	chromatin assembly complex, subunit p90
YGR218w	*CRM1*	chromosome region maintenance protein
YNL216w	*RAP1*	DNA-binding protein with repressor and activator activity
YER159c	*NCB1*	functional homologue of human NC2α
YMR072w	*ABF2*	high-mobility group protein
YPL127c	*HHO1*	histone H1 protein
YDR225w	*HTA1*	histone H2A
YBL003c	*HTA2*	histone H2A.2
YDR224c	*HTB1*	histone H2B
YBL002w	*HTB2*	histone H2B.2
YBR010w	*HHT1*	histone H3
YNL031c	*HHT2*	histone H3
YBR009c	*HHF1*	histone H4
YNL030w	*HHF2*	histone H4
YER161c	*SPT2*	HMG-like chromatin protein
YPL254w	*HFI1*	interacts functionally with histone H2A
YNR010w	*CSE2*	interacts with centromeric element CDEII
YGR099w	*TEL2*	involved in controlling telomere length and position effect
YJR060w	*CBF1*	kinetochore protein
YGR140w	*CBF2*	kinetochore protein complex CBF3, 110K subunit
YMR094w	*CTF13*	kinetochore protein complex CBF3, 58K subunit
YMR168c	*CEP3*	kinetochore protein complex CBF3, 71K subunit
YDR328c	*SKP1*	kinetochore protein complex CBF3, subunit D
YIL072w	*HOP1*	meiosis-specific protein
YLR263w	*RED1*	meiosis-specific protein
YLR457c	*NBP1*	Nap1p-binding protein
YDR162c	*NBP2*	Nap1p-binding protein
YBR089c-a	*NHP6B*	nonhistone chromosomal protein
YPR052c	*NHP6A*	nonhistone chromosomal protein related to mammalian HMG1
YDR174w	*HMO1*	nonhistone protein
YDL002c	*HMO2*	nonhistone protein
YKR048c	*NAP1*	nucleosome assembly protein I
YCL011c	*GBP2*	potential telomere-associated protein
YGL238w	*CSE1*	probable kinetochore protein
YGL194c	*RTL1*	putative deacetylase
YBR275c	*RIF1*	Rap1p-interacting factor 1
YKL089w	*MIF2*	required for normal chromosome segregation and spindle integrity
YJL074c	*SMC3*	required for structural maintenance of chromosomes
YLR086w		similarity to chromosome condensation proteins
YML069w	*POB3*	similarity to HMG proteins
YOR053w		similarity to protamines
YNL206c		similarity to structure-specific recognition proteins
YDL208w	*NHP2*	strong similarity to high mobility group (HMG) family
YEL026w		strong similarity to high mobility group-like protein Nhp2p
YOL012c	*HTA3*	strong similarity to histone H2A protein
YKL049c	*CSE4*	strong similarity to histone H3
YOR213c		subunit of the RSC complex
YCR052w	*RSC6*	subunit of the RSC complex
YFR037c	*RSC8*	subunit of the RSC complex
YLR321c	*SFH1*	subunit of the RSC complex
YIL126w	*STH1*	subunit of the RSC complex
YDR285w	*ZIP1*	synaptonemal complex protein
YLR233c	*EST1*	telomere elongation protein
YBL088c	*TEL1*	telomere length control protein
YPL128c	*TBF1*	telomere TTAGGG repeat-binding factor 1
YGR274c	*TAF145*	TFIID subunit (TBP-associated factor), 145K
YGR187c	*HGH1*	weak similarity to human Hmg1p and Hmg2p
YGR285c	*ZUO1*	zuotin (Z-DNA binding protein)

mitochondrial organization and biogenesis

YHR037w	*PUT2*	1-pyrroline-5-carboxylate dehydrogenase
YNL104c	*LEU4*	2-isopropylmalalate synthase
YMR282c	*AEP2*	2'-O-ribosyl phosphate transferase
YIL125w	*KGD1*	2-oxoglutarate dehydrogenase complex E1 component
YDR148c	*KGD2*	2-oxoglutarate dehydrogenase complex E2 component
YOL096c	*COQ3*	3,4-dihydroxy-5-hexaprenylbenzoate methyltransferase
YMR287c	*MSU1*	3'-5' exonuclease for RNA 3' ss-tail, mitochondrial
YDR232w	*HEM1*	5-aminolevulinate synthase
YML009c	*MRPL39*	60S ribosomal protein, mitochondrial
YMR108w	*ILV2*	acetolactate synthase
YCL009c	*ILV6*	acetolactate synthase, regulatory subunit
YAL054c	*ACS1*	acetyl-CoA synthetase
YER069w	*ARG5,6*	acetylglutamate kinase and acetylglutamyl-phosphate reductase
YOL140w	*ARG8*	acetylornithine aminotransferase
YLR304c	*ACO1*	aconitate hydratase
YDR234w	*LYS4*	aconitate hydratase
YER170w	*ADK2*	adenylate kinase, mitochondrial
YMR056c	*AAC1*	ADP/ATP carrier protein (MCF)
YBL030c	*AAC2*	ADP/ATP carrier protein (MCF)
YBR085w	*AAC3*	ADP/ATP carrier protein (MCF)
YMR083w	*ADH3*	alcohol dehydrogenase III
YER073w		aldehyde dehydrogenase (NAD^+)
YMR170c	*ALD5*	aldehyde dehydrogenase 2 (NAD^+), mitochondrial
YER086w	*ILV1*	anabolic serine and threonine dehydratase
YJL209w	*CBP1*	apo-cytochrome b pre-mRNA processing protein
YBR120c	*CBP6*	apo-cytochrome b pre-mRNA processing protein
YHL038c	*CBP2*	apo-cytochrome b pre-mRNA processing protein 2
YHR091c	*MSR1*	arginyl-tRNA synthetase, mitochondrial
YCR024c		asn-tRNA synthetase, mitochondrial
YKL106w	*AAT1*	aspartate transaminase, mitochondrial
YPL104w	*MSD1*	aspartate-tRNA ligase, mitochondrial
YGR008c	*STF2*	ATPase stabilizing factor
YDL130w-a	*STF1*	ATPase stabilizing factor, 10K
YDR377w	*ATP17*	ATPase synthase subunit f
YMR301c	*ATM1*	ATP-binding cassette transporter protein, mitochondrial
YBL022c	*PIM1*	ATP-dependent protease, mitochondrial
YPL029w	*SUV3*	ATP-dependent RNA helicase, mitochondrial
YER061c	*CEM1*	β-keto-acyl-ACP synthase
YHR208w	*TWT1*	branched chain amino-acid aminotransferase, mitochondrial
YBR084w	*MIS1*	C1-tetrahydrofolate synthase, mitochondrial
YML042w	*CAT2*	carnitine O-acetyltransferase
YER026c	*CHO1*	CDP-diacylglycerol serine O-phosphatidyltransferase
YNR001c	*CIT1*	citrate (si)-synthase, mitochondrial
YPR001w	*CIT3*	citrate (si)-synthase, mitochondrial
YBR291c	*CTP1*	citrate transport protein, mitochondrial (MCF)
YOR316c	*COT1*	cobalt accumulation protein
YOR017w	*PET127*	component of mitochondrial translation system
YPR155c	*NCA2*	control of mitochondrial synthesis of Atp6p and Atp8p
YKL011c	*CCE1*	cruciform-cutting endonuclease, mitochondrial
YML078w	*CPR3*	cyclophilin (peptidylprolyl isomerase), mitochondrial
YDR197w	*CBS2*	cytochrome b translational activator protein
YIL043c	*CBR1*	cytochrome b5 reductase
YKL150w	*MCR1*	cytochrome b5 reductase
YKL141w	*SDH3*	cytochrome b560 subunit of respiratory complex II
YJR048w	*CYC1*	cytochrome c isoform 1
YEL039c	*CYC7*	cytochrome c isoform 2
YOR037w	*CYC2*	cytochrome c mitochondrial import factor
YER058w	*PET117*	cytochrome c oxidase assembly factor
YPL132w	*COX11*	cytochrome c oxidase assembly protein
YML129c	*COX14*	cytochrome c oxidase assembly protein
YDR079w	*PET100*	cytochrome c oxidase assembly protein
YGL187c	*COX4*	cytochrome c oxidase subunit IV
YNL052w	*COX5A*	cytochrome c oxidase subunit V.A
YIL111w	*COX5B*	cytochrome c oxidase subunit Vb
YHR051w	*COX6*	cytochrome c oxidase subunit VI
YGL191w	*COX13*	cytochrome c oxidase subunit VIa
YLR038c	*COX12*	cytochrome c oxidase subunit VIB
YMR256c	*COX7*	cytochrome c oxidase subunit VII
YDL067c	*COX9*	cytochrome c oxidase subunit VIIA
YLR395c	*COX8*	cytochrome c oxidase subunit VIII
YKR066c	*CCP1*	cytochrome c peroxidase
YOR065w	*CYT1*	cytochrome c1
YER141w	*COX15*	cytochrome oxidase assembly factor
YER154w	*OXA1*	cytochrome oxidase biogenesis protein
YOR386w	*PHR1*	deoxyribodipyrimidine photo-lyase
YLR348c		dicarboxylate carrier protein
YFL018c	*LPD1*	dihydrolipoamide dehydrogenase
YNL071w	*LAT1*	dihydrolipoamide S-acetyltransferase

YJR016c	*ILV3*	dihydroxy-acid dehydratase
YDL174c	*DLD1*	D-lactate ferricytochrome c oxidoreductase (D-LCR)
YML061c	*PIF1*	DNA helicase involved in mitochondrial DNA repair and telomere length
YHR120w	*MSH1*	DNA mismatch repair protein, mitochondrial
YOR330c	*MIP1*	DNA-directed DNA polymerase γ, catalytic subunit, mitochondrial
YFL036w	*RPO41*	DNA-directed RNA polymerase, mitochondrial
YBR252w	*DUT1*	dUTP pyrophosphatase, mitochondrial
YOR211c	*MGM1*	dynamin-like protein
YGR207c	*ETF-β*	electron-transferring flavoprotein, β subunit
YLR393w	*ATP10*	F1F0 ATPase complex assembly protein
YNL315c	*ATP11*	F1F0-ATPase complex assembly protein
YJL180c	*ATP12*	F1F0-ATPase complex assembly protein
YKL016c	*ATP7*	F1F0-ATPase complex, F0 D subunit
YBL099w	*ATP1*	F1F0-ATPase complex, F1 α subunit
YJR121w	*ATP2*	F1F0-ATPase complex, F1 β subunit
YDL004w	*ATP16*	F1F0-ATPase complex, F1 δ subunit
YPL078c	*ATP4*	F1F0-ATPase complex, F1 δ subunit
YPL271w	*ATP15*	F1F0-ATPase complex, F1 ε subunit
YBR039w	*ATP3*	F1F0-ATPase complex, F1 γ subunit
YDR298c	*ATP5*	F1F0-ATPase complex, OSCP subunit
YLR295c	*ATP14*	F1F0-ATPase complex, subunit h
YIL134w	*FLX1*	FAD carrier protein, mitochondrial (MCF)
YPL172c	*COX10*	farnesyl transferase
YOR176w	*HEM15*	ferrochelatase
YPL262w	*FUM1*	fumarate hydratase
YOL033w	*MSE1*	glutamyl-tRNA synthetase, mitochondrial
YOL059w	*GPD3*	glycerol-3-phosphate dehydrogenase (NAD^+), mitochondrial
YIL155c	*GUT2*	glycerol-3-phosphate dehydrogenase, mitochondrial
YMR189w	*GSD2*	glycine decarboxylase subunit
YDR019c	*GCV1*	glycine decarboxylase T subunit
YFL016c	*MDJ1*	heat-shock protein - chaperone
YOR232w	*MGE1*	heat-shock protein - chaperone
YLR259c	*HSP60*	heat-shock protein - chaperone, mitochondrial
YJR045c	*SSC1*	heat-shock protein 70-related protein, mitochondrial
YDR258c	*HSP78*	heat-shock protein of clpb family of ATP-dependent proteases, mitochondrial
YBR003w	*COQ1*	hexaprenyl pyrophosphate synthetase
YMR072w	*ABF2*	high mobility group protein
YAL039c	*CYC3*	holocytochrome c synthase (cytochrome c haem lyase)
YKL087c	*CYT2*	holocytochrome c1 synthase
YMR038c	*LYS7*	homocitrate dehydrogenase
YDL181w	*INH1*	inhibitor of mitochondrial ATPase
YMR267w	*PPA2*	inorganic pyrophosphatase, mitochondrial
YLL009c	*COX17*	interacts genetically with *SCO1* and *SCO2* in cytochrome oxidase assembly
YGR028w	*MSP1*	intra-mitochondrial sorting protein
YJR034w	*PET191*	involved in assembly of cytochrome oxidase
YMR302c	*PRP12*	involved in early maturation of pre-rRNA
YOL009c	*MDM12*	involved in mitochondrial inheritance
YAL010c	*MDM10*	involved in mitochondrial morphology and inheritance
YIR021w	*MRS1*	involved in mitochondrial RNA splicing of COB mRNA
YBR037c	*SCO1*	involved in stabilization of Cox1p and Cox2p
YNL066w	*SUN4*	involved in the aging process
YCL017c	*NFS1*	involved in tRNA processing and mitochondrial metabolsim
YNL037c	*IDH1*	isocitrate dehydrogenase (NAD^+) subunit 1, mitochondrial
YOR136w	*IDH2*	isocitrate dehydrogenase (NAD^+) subunit 2, mitochondrial
YDL066w	*IDP1*	isocitrate dehydrogenase ($NADP^+$), mitochondrial
YPL040c	*ISM1*	isoleucine-tRNA ligase, mitochondrial
YLR355c	*ILV5*	ketol-acid reducto-isomerase
YML054c	*CYB2*	lactate dehydrogenase cytochrome b2
YLR382c	*NAM2*	leucine-tRNA ligase, mitochondrial
YOR196c	*LIP5*	lipoic acid synthase
YNL073w	*MSK1*	lysyl-tRNA synthetase, mitochondrial
YKL085w	*MDH1*	malate dehydrogenase, mitochondrial
YOR130c	*ARG11*	member of the mitochondrial carrier family (MCF)
YDL198c	*YHM1*	member of the mitochondrial carrier family (MCF)
YGR171c	*MSM1*	methionyl-tRNA synthetase
YGR029w	*ERV1*	mitochondrial biogenesis and regulation of cell cycle
YBR192w	*RIM2*	mitochondrial carrier protein (MCF)
YPR058w	*YMC1*	mitochondrial carrier protein (MCF)
YBR104w	*YMC2*	mitochondrial carrier protein (MCF)
YOR020c	*HSP10*	mitochondrial chaperonin
YJR144w	*MGM101*	mitochondrial genome maintenance protein
YMR023c	*MSS1*	mitochondrial GTPase involved in expression of *COX1*
YNR017w	*MAS6*	mitochondrial inner membrane import translocase subunit
YJL143w	*TIM17*	mitochondrial inner membrane import translocase subunit
YIL022w	*TIM44*	mitochondrial inner membrane import translocase subunit
YMR035w	*IMP2*	mitochondrial inner membrane protease subunit
YKL134c	*(MIP1)*	mitochondrial intermediate peptidase
YNL131w	*TOM22*	mitochondrial outer membrane import receptor subunit
YGR082w	*TOM20*	mitochondrial outer membrane import receptor subunit, 20K
YMR060c	*TOM37*	mitochondrial outer membrane import receptor subunit, 37K
YMR203w	*TOM40*	mitochondrial outer membrane import receptor subunit, 40K
YOR045w	*TOM6*	mitochondrial outer membrane import receptor subunit, 6K
YNL070w	*TOM7*	mitochondrial outer membrane import receptor subunit, 7K
YNL055c	*POR1*	mitochondrial outer membrane porin
YNL121c	*TOM70*	mitochondrial outer membrane specialized import receptor
YGL143c	*MRF1*	mitochondrial peptide chain release factor
YLR163c	*MAS1*	mitochondrial processing peptidase
YHR024c	*MAS2*	mitochondrial processing peptidase, catalytic 53K (α) subunit
YMR150c	*IMP1*	mitochondrial protease
YDR375c	*BCS1*	mitochondrial protein of the CDC48/PAS1/SEC18 (AAA) family of ATPases
YDR120c	*TRM1*	N2,N2-dimethylguanine tRNA methyltransferase
YML120c	*NDI1*	NADH-ubiquinone-6 oxidoreductase
YOR355w	*GDS1*	*nam9-1* suppressor
YJL208c	*NUC1*	nuclease, mitochondrial
YAR035w	*YAT1*	outer carnitine acetyltransferase, mitochondrial
YNR041c	*COQ2*	para-hydroxybenzoate-polyprenyltransferase
YPR047w	*MSF1*	phenylalanine-tRNA ligase α subunit, mitochondrial
YJR077c	*MIR1*	phosphate transport protein, mitochondrial (MCF)
YNL169c	*PSD1*	phosphatidylserine decarboxylase 1
YLR203c	*MSS51*	possibly involved in translational activation of COX1 and COB mRNA
YGL068w		probable ribosomal protein L12
YLR168c	*(MSF1)*	probably involved in intramitochondrial protein sorting
YLR142w	*PUT1*	proline oxidase
YER017c	*AFG3*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YPR024w	*YME1*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YMR089c	*YTA12*	protease of the *SEC18/CDC48/PAS1* family of ATPases (AAA)
YDL044c	*MTF2*	protein involved in mRNA splicing and protein synthesis, mitochondrial
YIL136w	*OM45*	protein of the outer mitochondrial membrane
YAL011w	*FUN36*	protein of unknown function
YJL023c	*PET130*	protein synthesis protein, mitochondrial
YER014w	*HEM14*	protoporphyrinogen oxidase, mitochondrial
YER178w	*PDA1*	pyruvate dehydrogenase (lipoamide) α subunit
YBR221c	*PDB1*	pyruvate dehydrogenase (lipoamide) β subunit
YGR193c	*PDX1*	pyruvate dehydrogenase complex protein X
YJR095w	*ACR1*	regulator of acetyl-CoA synthetase activity
YBR091c	*MRS5*	regulator of mitochondrial intron splicing
YPL215w	*CBP3*	required for assembly of cytochrome bc1 complex
YEL059c-a	*SOM1*	required for mitochondrial Imp1 peptidase function
YLL006w	*MMM1*	required for mitochondrial shape and structure
YKL093w	*MBR1*	required for optimal growth on glycerol
YLR067c	*PET309*	required for stability and translation of *COX1* mRNA
YMR257c	*PET111*	required for translation of *COX2* mRNA
YBL080c	*PET112*	required to maintain RHO^+ mitochondrial DNA
YBR185c	*MBA1*	respiratory chain assembly protein
YML091c	*RPM2*	ribonuclease P, mitochondrial
YKL170w	*MRPL38*	ribosomal protein L14, mitochondrial
YJL063c	*MRPL8*	ribosomal protein L17, mitochondrial
YPR166c	*MRP2*	ribosomal protein S14
YPL013c		ribosomal protein S16, mitochondrial
YBR251w	*MRPS5*	ribosomal protein S5, mitochondrial
YBR146w	*MRPS9*	ribosomal protein S9, mitochondrial
YKR006c	*MRPL13*	ribosomal protein YmL13, mitochondrial
YNL005c	*MRPL2*	ribosomal protein YmL2, mitochondrial
YKR085c	*MRPL20*	ribosomal protein YmL20, mitochondrial
YBR282w	*MRPL27*	ribosomal protein YmL27, mitochondrial
YDR462w		ribosomal protein YmL28, mitochondrial
YNL252c		ribosomal protein YmL30, mitochondrial
YKL138c	*MRPL31*	ribosomal protein YmL31, mitochondrial
YCR003w	*MRPL32*	ribosomal protein YmL32, mitochondrial
YBR122c	*MRPL36*	ribosomal protein YmL36, mitochondrial
YBR268w	*MRPL37*	ribosomal protein YmL37, mitochondrial
YPL173w		ribosomal protein YmL40, mitochondrial
YGR076c	*MRPL25*	ribosomal protein YmR26 (YML25), mitochondrial
YMR225c	*MRPL44*	ribosomal protein YmR44, mitochondrial
YML025c		ribosomal protein, mitochondrial
YDR347w	*MRP1*	ribosomal protein, mitochondrial
YGR084c	*MRP13*	ribosomal protein, mitochondrial
YKL003c	*MRP17*	ribosomal protein, mitochondrial
YDR405w	*MRP20*	ribosomal protein, mitochondrial
YHL004w	*MRP4*	ribosomal protein, mitochondrial
YKL167c	*MRP49*	ribosomal protein, mitochondrial
YKL142w	*MRP8*	ribosomal protein, mitochondrial
YLR312w-a	*MRPL15*	ribosomal protein, mitochondrial
YBL038w	*MRPL16*	ribosomal protein, mitochondrial
YMR193w	*MRPL24*	ribosomal protein, mitochondrial
YMR024w	*MRPL3*	ribosomal protein, mitochondrial
YMR286w	*MRPL33*	ribosomal protein, mitochondrial
YLR439w	*MRPL4*	ribosomal protein, mitochondrial
YHR147c	*MRPL6*	ribosomal protein, mitochondrial
YGR220c	*MRPL9*	ribosomal protein, mitochondrial
YDR337w	*MRPS28*	ribosomal protein, mitochondrial
YNL137c	*NAM9*	ribosomal protein, mitochondrial
YOR158w	*PET123*	ribosomal protein, mitochondrial
YCR046c	*PETCR46*	ribosomal protein, mitochondrial
YFR049w	*YMR31*	ribosomal protein, mitochondrial
YDR194c	*MSS116*	RNA helicase of the DEAD box family, mitochondrial
YMR228w	*MTF1*	RNA polymerase specific factor, mitochondrial
YOR334w	*MRS2*	RNA splicing protein and member of the mitochondrial carrier family (MCF)
YJL133w	*MRS3*	RNA splicing protein and member of the mitochondrial carrier family (MCF)
YKR052c	*MRS4*	RNA splicing protein and member of the mitochondrial carrier family (MCF)
YOR201c	*PET56*	rRNA (guanosine-2'-O-)-methyltransferase
YBR263w	*SHM1*	serine hydroxymethyltransferase, mitochondrial
YPR037c		similarity to Erv1p and rat ALR protein
YDR376w	*ARH1*	similarity to human adrenodoxin reductase
YBL013w		similarity to methionyl-tRNA formyltransferase
YJR113c		similarity to mitochondrial ribosomal protein S7
YKL120w	*PMT*	similarity to mitochondrial uncoupling protein (MCF)
YMR244w		similarity to NCA3 and SUN4 protein
YOR150w		similarity to ribosomal protein L13
YPR134w	*MSS18*	splicing protein
YGR222w	*PET54*	splicing protein and translational activator, mitochondrial
YCR028c-a	*RIM1*	ssDNA-binding protein, mitochondrial
YKL192c		strong similarity to acyl-carrier proteins
YBR024w	*SCO2*	strong similarity to Sco1p
YHR117w	*TOM71*	strong similarity to Tom70p/Mas70p
YKL148c	*SDH1*	succinate dehydrogenase flavoprotein
YLL041c	*SDH2*	succinate dehydrogenase iron-sulphur protein subunit
YDR178w	*SDH4*	succinate dehydrogenase membrane anchor subunit for Sdh2p
YHR008c	*SOD2*	superoxide dismutase (Mn), mitochondrial
YHR050w	*SMF2*	suppressor of mitochondrial matrix mutant
YKL194c	*MST1*	threonine-tRNA ligase, mitochondrial
YLR069c	*MEF1*	translation elongation factor G, mitochondrial
YOR187w	*TUF1*	translation elongation factor TU, mitochondrial
YJL102w	*MEF2*	translation elongation factor, mitochondrial
YOL023w	*IFM1*	translation initiation factor 2, mitochondrial
YDL069c	*CBS1*	translational activator of cob mRNA
YER153c	*PET122*	translational activator of cytochrome c oxidase subunit III
YNR045w	*PET494*	translational activator, mitochondrial
YOR274w	*MOD5*	tRNA isopentenyltransferase
YER168c	*CCA1*	tRNA nucleotidyltransferase
YDR268w	*MSW1*	tryptophanyl-tRNA synthetase, mitochondrial
YPL097w	*MSY1*	tyrosyl-tRNA synthetase
YFR033c	*QCR6*	ubiquinol-cytochrome c reductase 17K protein
YPR191w	*QCR2*	ubiquinol-cytochrome c reductase 40K subunit II
YBL045c	*COR1*	ubiquinol-cytochrome c reductase 44K core protein
YHR001w-a	*QCR10*	ubiquinol-cytochrome c reductase 8.5K subunit
YGR174c	*CBP4*	ubiquinol-cytochrome c reductase assembly factor
YGL119w	*ABC1*	ubiquinol-cytochrome c reductase complex assembly protein
YEL024w	*RIP1*	ubiquinol-cytochrome c reductase iron-sulphur protein
YDR529c	*QCR7*	ubiquinol-cytochrome c reductase subunit 7
YGR183c	*QCR9*	ubiquinol-cytochrome c reductase subunit 9
YJL166w	*QCR8*	ubiquinol-cytochrome c reductase subunit VIII
YML021c	*UNG1*	uracil-DNA glycosylase
YGR094w	*VAS1*	valyl-tRNA synthetase
YIL114c	*POR2*	voltage-dependent anion channel (YVDAC2)
YNL237w	*YTP1*	weak similarity to mitochondrial electron transport proteins

peroxisomal organization and biogenesis

YIL160c	*POT1*	acetyl-CoA C-acyltransferase, peroxisomal
YAL054c	*ACS1*	acetyl-CoA synthetase
YGL205w	*POX1*	acyl-CoA oxidase
YBR222c	*PCS60*	AMP-binding protein, peroxisomal
YML042w	*CAT2*	carnitine O-acetyltransferase
YDR256c	*CTA1*	catalase A, peroxisomal
YCR005c	*CIT2*	citrate (si)-synthase, peroxisomal
YKR009c	*FOX2*	hydratase-dehydrogenase-epimerase, peroxisomal
YER065c	*ICL1*	isocitrate lyase
YKL188c	*PAT1*	long-chain-fatty-acid transporter

YPL147w	*PXA1*	long-chain-fatty-acid transporter
YER015w	*FAA2*	long-chain-fatty-acid-CoA ligase
YDL078c	*MDH3*	malate dehydrogenase, peroxisomal
YNL117w	*MLS1*	malate synthase 1
YIR031c	*DAL7*	malate synthase 2
YDR329c	*PAS3*	peroxisomal assembly protein
YDR265w	*PAS4*	peroxisomal assembly protein
YJL210w	*PAS5*	peroxisomal assembly protein
YNL329c	*PAS8*	peroxisomal assembly protein
YDR142c	*PAS7*	peroxisomal import protein
YOL147c	*PMP27*	peroxisomal membrane protein
YLR191w	*PAS20*	peroxisomal protein involved in protein import
YDR244w	*PAS10*	putative peroxisomal targeting signal receptor
YLR109w		similarity to *C. boidinii* peroxisomal membrane protein 20K A
YGR077c		similarity to peroxisomal matrix protein Per1p
YLR251w		similarity to peroxisomal rat membrane protein PMP22
YNL202w	*SPS19*	sporulation-specific protein
YGR133w	*PAS2*	ubiquitin-conjugating enzyme
YBR204c		weak similarity to peroxisomal serine-active lipase

endosomal organization and biogenesis

YKL135c	*APL2*	β-adaptin
YNL192w	*CHS1*	chitin synthase I
YBR023c	*CHS3*	chitin synthase III
YJR058c	*APS2*	clathrin-associated protein 17, small subunit
YJR005w	*APL1*	clathrin-associated protein complex, β subunit
YBR288c	*APM3*	clathrin-associated protein complex, medium subunit
YLR170c	*APS1*	clathrin-associated protein complex, small subunit AP19
YDL145c	*RET1*	coatomer complex α subunit
YDR238c	*SEC26*	coatomer complex β subunit of secretory pathway vesicles
YGL137w	*SEC27*	coatomer complex β′ subunit
YFR051c	*RET2*	coatomer complex δ subunit
YNL287w	*SEC21*	coatomer complex γ subunit
YPL010w	*RET3*	coatomer complex ζ subunit
YPR181c	*SEC23*	component of COPII coat of ER-golgi vesicles
YDR170c	*SEC7*	component of non-clathrin vesicle coat
YLR083c	*EMP70*	endosomal protein
YPR017c	*DSS4*	GDP/GTP exchange factor for Sec4p
YOR089c	*VPS21*	GTP-binding protein
YDL137w	*ARF2*	GTP-binding protein of the ARF family
YML001w	*YPT7*	GTP-binding protein of the RAB family
YFL005w	*SEC4*	GTP-binding protein of the RAS superfamily
YLR268w	*SEC22*	high copy suppressor of ypt1 null mutation
YPL085w	*SEC16*	multidomain vesicle protein
YLR208w	*SEC13*	protein transport protein
YKL136c		similarity to Sec22p
YLR080w		strong similarity to Emp47p
YDR107c		strong similarity to Emp70p
YAL030w	*SNC1*	strong similarity to synaptic vesicle-associated membrane protein
YOR327c	*SNC2*	strong similarity to synaptobrevin
YBL050w	*SEC17*	transport vesicle fusion protein
YNR006w	*VPS27*	vacuolar protein sorting-associated protein
YBR080c	*SEC18*	vesicular-fusion protein, functional homologue of NSF
YLR078c	*BOS1*	weak similarity to synaptobrevin (V-SNARE)

vacuolar and lysosomal organization and biogenesis

YGL156w	*AMS1*	α-mannosidase
YBR286w	*APE3*	aminopeptidase Y, vacuolar
YKL103c	*LAP4*	aminopeptidase yscl, vacuolar
YPL154c	*PEP4*	aspartyl protease
YDL128w	*VCX1*	Ca^{2+}-transport (H^+/Ca^{2+} exchange) protein, vacuolar
YGL006w	*PMC1*	Ca^{2+}-transporting P-type ATPase
YMR297w	*PRC1*	carboxypeptidase y, serine-type protease
YHR028c	*DAP2*	dipeptidyl aminopeptidase B
YDR135c	*YCF1*	glutathione S-conjugate transporter, vacuolar
YJL172w	*CPS1*	Gly-X carboxypeptidase YSCS
YKL119c	*VPH2*	H^+-ATPase assembly protein, vacuolar
YHR039c-a	*VMA10*	H^+-ATPase V0 domain 13K subunit, vacuolar
YEL027w	*CUP5*	H^+-ATPase V0 domain 17K subunit, vacuolar
YPL234c	*TFP3*	H^+-ATPase V0 domain 17K subunit, vacuolar
YLR447c	*VMA6*	H^+-ATPase V0 domain 36K subunit, vacuolar
YOR270c	*VPH1*	H^+-ATPase V0 domain 95K subunit, vacuolar
YGR020c	*VMA7*	H^+-ATPase V1 domain 14K subunit, vacuolar
YOR332w	*VMA4*	H^+-ATPase V1 domain 27K subunit, vacuolar
YEL051w	*VMA8*	H^+-ATPase V1 domain 32K subunit, vacuolar
YKL080w	*VMA5*	H^+-ATPase V1 domain 42K subunit, vacuolar
YPR036w	*VMA13*	H^+-ATPase V1 domain 54K subunit, vacuolar
YBR127c	*VMA2*	H^+-ATPase V1 domain 60K subunit, vacuolar
YDL185w	*TFP1*	H^+-ATPase V1 domain 69K subunit, vacuolar
YFR019w	*FAB1*	probable PI P 5-kinase
YEL060c	*PRB1*	protease B, vacuolar
YDR481c	*PHO8*	repressible vacuolar alkaline phosphatase
YIL099w	*SGA1*	sporulation specific glucan 1,4—glucosidase
YOR036w	*PEP12*	syntaxin (T-SNARE)
YOR106w	*VAM3*	syntaxin related protein
YMR231w	*PEP5*	vacuolar biogenesis protein
YLR148w	*PEP3*	vacuolar membrane protein
YGL212w	*VAM7*	vacuolar morphogenesis protein
YJL053w	*PEP8*	vacuolar protein-sorting/targeting protein
YJL154c	*VPS35*	vacuolar protein-sorting protein
YDR323c	*PEP7*	vacuolar segregation protein
YPL045w	*VPS16*	vacuolar sorting protein
YDR495c	*VPS3*	vacuolar sorting protein
YLR396c	*VPS33*	vacuolar sorting protein
YPR173c	*VPS4*	vacuolar sorting protein

other cellular organization and biogenesis activities

YKL157w	*APE2*	aminopeptidase yscII
YIL015w	*BAR1*	barrier pepsin
YJL174w	*KRE9*	cell wall synthesis protein
YBR092c	*PHO3*	constitutive acid phosphatase
YLR286c	*CTS1*	endochitinase
YLR300w	*EXG1*	exo-1,3—glucanase (I/II), major isoform
YIR019c	*STA1*	extracellular α-1,4-glucan glucosidase
YPL187w	*MFα1*	mating pheromone α-1 factor
YGL089c	*MFα2*	mating pheromone α-2 factor
YDR461w	*MFA1*	mating pheromone a-factor 1
YNL145w	*MFA2*	mating pheromone a-factor 2
YKL163w	*PIR3*	member of the Pir1p/Pir2p/Pir3p family
YBR093c	*PHO5*	repressible acid phosphatase
YKL164c	*PIR1*	required for tolerance to heat-shock
YML008c	*ERG6*	S-adenosyl-methionine δ-24-sterol-c-methyltransferase
YAR071w	*PHO11*	secreted acid phosphatase
YHR215w	*PHO12*	secreted acid phosphatase
YNL160w	*YGP1*	secreted glycoprotein
YLR250w	*SSP120*	secretory protein
YBR046c	*ZTA1*	similarity to ζ-crystallin
YMR215w		similarity to GAS1 protein
YNL275w		similarity to human band 3 anion transport protein
YIL162w	*SUC2*	sucrose hydrolyzing enzyme

Signal transduction

pheromone response generation

YDR264c	*AKR1*	ankyrin repeat-containing protein
YPL161c	*BEM4*	bud emergence protein
YCL027w	*FUS1*	cell fusion protein
YNL053w	*MSG5*	dual-specifity protein phosphatase
YJL157c	*FAR1*	factor arrest protein
YAL041w	*CDC24*	GDP/GTP exchange factor for Cdc42p
YHR005c	*GPA1*	GTP-binding protein α subunit of the pheromone pathway
YOR212w	*STE4*	GTP-binding protein β subunit of the pheromone pathway
YJR086w	*STE18*	GTP-binding protein γ subunit of the pheromone pathway
YLR229c	*CDC42*	GTP-binding protein of RAS superfamily
YNL173c	*MDG1*	GTP-binding protein of the pheromone pathway
YER020w	*GPA2*	guanine nucleotide-binding regulatory protein
YLR452c	*SST2*	involved in desensitization to α-factor pheromone
YMR052w	*FAR3*	involved in pheromone-mediated cell cycle arrest
YDR461w	*MFA1*	mating pheromone a-factor 1
YIL047c	*SYG1*	member of the major facilitator superfamily
YBL016w	*FUS3*	mitogen-activated protein kinase (MAP kinase)
YFL026w	*STE2*	pheromone α-factor receptor
YKL178c	*STE3*	pheromone α-factor receptor
YCL032w	*STE50*	pheromone response pathway protein
YDR103w	*STE5*	pheromone signal transduction pathway protein
YGR040w	*KSS1*	ser/thr protein kinase of the MAP kinase family
YLR362w	*STE11*	ser/thr protein kinase of the MEKK family
YHL007c	*STE20*	ser/thr protein kinase of the pheromone pathway
YDL159w	*STE7*	ser/thr/tyr protein kinase of MAP kinase kinase family
YHR146w		similarity to pheromone-response G-protein YNL173c
YHR084w	*STE12*	transcriptional activator

morphogenesis

YBR200w	*BEM1*	bud emergence mediator
YPL161c	*BEM4*	bud emergence protein
YBR109c	*CMD1*	calmodulin
YAL041w	*CDC24*	GDP/GTP exchange factor for Cdc42p
YGR070w	*ROM1*	GDP/GTP exchange protein for Rho1p
YLR371w	*ROM2*	GDP/GTP exchange protein for Rho1p
YPL115c	*BEM3*	GTPase-activating protein for Cdc42p and Rho1p
YLR229c	*CDC42*	GTP-binding protein of RAS superfamily
YPR165w	*RHO1*	GTP-binding protein of the RHO subfamily of RAS-like proteins
YNL090w	*RHO2*	GTP-binding protein of the RHO subfamily of RAS-like proteins
YPL106c	*SSE1*	heat-shock protein of HSP70 family
YOR149c	*SMP3*	protein kinase C pathway protein
YPL140c	*MKK2*	protein kinase of the MAP kinase kinase (MEK) family
YDL135c	*RDI1*	RHO GDP dissociation inhibitor with activity towards Rho1p
YOR231w	*MKK1*	ser/thr protein kinase
YBL105c	*PKC1*	ser/thr protein kinase
YHR030c	*SLT2*	ser/thr protein kinase of MAP kinase family
YJL095w	*BCK1*	ser/thr protein kinase of the MEKK family
YER167w	*BCK2*	ser/thr protein kinase of the protein kinase C pathway
YOL113w	*SKM1*	Ste20p/PAK-like protein kinase
YGL106w		strong similarity to calmodulins
YKL161c		strong similarity to ser/thr-specific protein kinase Slt2p
YPL089c	*RLM1*	transcription factor of the MADS box family
YGL095c	*VPS45*	vacuolar protein sorting-associated protein

osmosensing

YDL022w	*GPD1*	glycerol-3-phosphate dehydrogenase (NAD^+), cytoplasmic
YFL014w	*HSP12*	heat-shock protein
YER118c	*SSU81*	involved in the *HOG1* high-osmolarity signal transduction pathway
YCR073c	*SSK22*	MAP kinase kinase kinase
YNR031c	*SSK2*	MAP kinase kinase kinase of the high-osmolarity signal transduction pathway
YDL006w	*PTC1*	protein ser/thr phosphatase 2c
YLR113w	*HOG1*	ser/thr protein kinase of MAP kinase (MAPK) family
YHR030c	*SLT2*	ser/thr protein kinase of MAP kinase family
YKL161c		strong similarity to ser/thr-specific protein kinase Slt2p
YIL147c	*SLN1*	two-component signal transducer
YLR006c	*SSK1*	two-component signal transducer
YJL128c	*PBS2*	tyrosine protein kinase of the MAP kinase kinase family
YDR069c	*DOA4*	ubiquitin-specific protease

nutritional response

YJL005w	*CYR1*	adenylate cyclase
YLR178c	*TFS1*	cdc25-dependent nutrient- and ammonia-response cell-cycle regulator
YBR195c	*MSI1*	chromatin assembly complex, subunit p50
YLL016w	*SDC25*	GDP/GTP exchange factor
YLR310c	*CDC25*	GDP/GTP exchange factor for Ras1p and Ras2p
YOR101w	*RAS1*	GTP-binding protein
YNL098c	*RAS2*	GTP-binding protein
YER020w	*GPA2*	guanine nucleotide-binding regulatory protein
YPL106c	*SSE1*	heat-shock protein of HSP70 family
YBR140c	*IRA1*	inhibitory regulator protein of the RAS-cyclic AMP pathway
YIL119c	*RPI1*	negative regulator of RAS-cAMP pathway
YIR026c	*YVH1*	protein tyrosine phosphatase
YOR208w	*PTP2*	protein-tyrosine-phosphatase
YOL110w	*SHR5*	RAS suppressor
YPL084w	*BRO1*	required for normal response to nutrient limitation
YLR362w	*STE11*	ser/thr protein kinase of the MEKK family
YDL159w	*STE7*	ser/thr/tyr protein kinase of MAP kinase kinase family
YHR084w	*STE12*	transcriptional activator

other signal-transduction activities

YPL268w	*PLC1*	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase
YNL138w	*SRV2*	adenylate cyclase-associated protein, 70K
YFR014c	*CMK1*	Ca^{2+}/calmodulin-dependent ser/thr protein kinase, type I
YOL016c	*CMK2*	Ca^{2+}/calmodulin-dependent ser/thr protein kinase, type II
YPL203w	*TPK2*	cAMP-dependent protein kinase 2, catalytic subunit
YKL166c	*TPK3*	cAMP-dependent protein kinase 3, catalytic subunit
YJL164c	*SRA3*	cAMP-dependent protein kinase, catalytic subunit 1
YMR028w	*TAP42*	component of the Tor signalling pathway
YML064c	*TEM1*	GTP-binding protein of the RAS superfamily
YJL146w	*IDS2*	*IME2*-dependent signalling protein
YJR066w	*TOR1*	phosphatidylinositol 3-kinase
YKL203c	*TOR2*	phosphatidylinositol 3-kinase
YLR240w	*VPS34*	phosphatidylinositol 3-kinase
YNL267w	*PIK1*	phosphatidylinositol 4-kinase
YNL106c	*PIE3*	phosphatidylinositol phosphate phosphatase
YLR305c	*STT4*	phosphatidylinositol-4-kinase
YDL101c	*DUN1*	protein kinase

YHR079c	*IRE1*	protein kinase
YMR016c	*SOK2*	regulatory protein in the PKA signal transduction pathway
YGR216c	*GPI1*	required for N-acetylglucosaminyl phosphatidylinositol synthesis
YPL153c	*SPK1*	ser/thr/tyr protein kinase
YHR046c		similarity to bovine myo-inositol-1(or 4)-monophosphatase
YBR260c		similarity to *C. elegans* GTPase-activating protein
YGR136w		similarity to chicken growth factor receptor-binding protein GRB2 homologue
YDR379w		similarity to Dbm1p
YDR208w	*MSS4*	similarity to human PI P 5-kinase
YCR027c		similarity to human Ras-related GTP-binding protein
YDR287w		similarity to inositol monophosphatase
YLR150w	*MPT4*	specific affinity for guanine-rich quadruplex nucleic acids
YPR054w	*SMK1*	sporulation-specific MAP kinase
YNL132w		strong similarity to *A. ambisexualis* antheridiol steroid receptor
YHR206w	*SKN7*	transcription factor with similarity to Hsf1p

Cell rescue

stress response generation

YFR052w	*NIN1*	26S proteasome regulatory subunit
YIL075c	*SEN3*	26S proteasome regulatory subunit
YDR074w	*TPS2*	α,α-trehalose-phosphate synthase, 105K subunit
YBR126c	*TPS1*	α,α-trehalose-phosphate synthase, 56K subunit
YPR026w	*ATH1*	acid trehalase, vacuolar
YIL033c	*SRA1*	cAMP dependent protein kinase, regulatory subunit
YDR477w	*SNF1*	carbon catabolite derepressing ser/thr protein kinase
YHR135c	*YCK1*	casein kinase I isoform
YNL154c	*YCK2*	casein kinase I isoform
YGR088w	*CTT1*	catalase T, cytosolic
YDR251w	*PAM1*	coiled-coil protein multicopy suppressor of loss of PP2A
YOR010c	*TIR2*	cold shock induced protein
YER011w	*TIR1*	cold-shock induced protein of the Tir1p, Tip1p family
YDR155c	*CPH1*	cyclophilin (peptidylprolyl isomerase)
YEL039c	*CYC7*	cytochrome c isoform 2
YER062c	*HOR2*	DL-glycerol phosphatase
YDR263c	*DIN7*	DNA damage inducible protein
YGL021w	*ALK1*	DNA damage-responsive protein
YAL015c	*NTG1*	DNA repair protein
YDR519w	*FKB2*	FK506/rapamycin-binding protein of the ER
YGR234w	*YHB1*	flavohemoglobin
YIR037w	*HYR1*	glutathione peroxidase
YLL043w	*FPS1*	glycerol channel protein
YNL098c	*RAS2*	GTP-binding protein
YHR064c		heat-shock protein
YMR173w	*DDR48*	heat-shock protein
YOL052c-a	*DDRA2*	heat-shock protein
YMR186w	*HSC82*	heat-shock protein
YLL026w	*HSP104*	heat-shock protein
YFL014w	*HSP12*	heat-shock protein
YBR072w	*HSP26*	heat-shock protein
YCR021c	*HSP30*	heat-shock protein
YPL240c	*HSP82*	heat-shock protein
YFL016c	*MDJ1*	heat-shock protein - chaperone
YLR259c	*HSP60*	heat-shock protein - chaperone, mitochondrial
YJR045c	*SSC1*	heat-shock protein 70-related protein, mitochondrial
YDR258c	*HSP78*	heat-shock protein of clpb family of ATP-dependent proteases, mitochondrial
YEL030w		heat-shock protein of HSP70 family
YAL005c	*SSA1*	heat-shock protein of HSP70 family
YER103w	*SSA4*	heat-shock protein of HSP70 family
YPL106c	*SSE1*	heat-shock protein of HSP70 family
YLL024c	*SSA2*	heat-shock protein of HSP70 family, cytosolic
YBL075c	*SSA3*	heat-shock protein of HSP70 family, cytosolic
YBR169c	*SSE2*	heat-shock protein of the HSP70 family
YGL073w	*HSF1*	heat-shock transcription factor
YMR251w-a	*HOR7*	hyperosmolarity-responsive protein
YMR273c	*ZDS1*	involved in negative regulation of cell polarity
YER118c	*SSU81*	involved in the *HOG1* high-osmolarity signal transduction pathway
YDR293c	*SSD1*	involved in the tolerance to high concentration of Ca^{2+}
YKL143w	*LTV1*	low-temperature viability protein
YGR100w	*MIC1*	Mac1p interacting protein
YCR073c	*SSK22*	MAP kinase kinase kinase
YNR031c	*SSK2*	MAP kinase kinase kinase of the high-osmolarity signal transduction pathway
YJL158c		member of the Pir1p/Hsp150p/Pir3p family
YJL159w		member of the Pir1p/Hsp150p/Pir3p family
YJL160c		member of the Pir1p/Hsp150p/Pir3p family
YKL163w	*PIR3*	member of the Pir1p/Pir2p/Pir3p family
YMR021c	*MAC1*	metal binding activator
YNL064c	*YDJ1*	mitochondrial and ER import protein
YGL178w	*MPT5*	multicopy suppressor of *pop2*
YGR159c	*NSR1*	nuclear localization sequence binding protein
YGL115w	*SNF4*	nuclear regulatory protein
YJR051w	*OSM1*	osmotic growth protein
YMR175w	*SIP18*	osmotic stress protein
YBR070c	*SAT2*	osmotolerance protein
YHR057c	*CYP2*	peptidyl-prolyl *cis-trans* isomerase
YOR014w	*RTS1*	potential regulatory subunit of protein phosphatase 2A
YMR174c	*PAI3*	protease A (ysca) inhibitor IA3
YHR079c	*IRE1*	protein kinase
YPL140c	*MKK2*	protein kinase of the MAP kinase kinase (MEK) family
YOL064c	*MET22*	protein ser/thr phosphatase
YDL006w	*PTC1*	protein ser/thr phosphatase 2c
YDR436w	*PPZ2*	protein ser/thr phosphatase of the PP-1 family
YOR208w	*PTP2*	protein-tyrosine-phosphatase
YJR090c	*GRR1*	required for glucose repression and for glucose and cation transport
YPL084w	*BRO1*	required for normal response to nutrient limitation
YKL164c	*PIR1*	required for tolerance to heat-shock
YPR005c	*HAL1*	salt-induced protein
YNL160w	*YGP1*	secreted glycoprotein
YGL190c	*CDC55*	ser/thr phosphatase 2A regulatory subunit B
YML016c	*PPZ1*	ser/thr phosphatase required for normal osmoregulation
YJL165c	*HAL5*	ser/thr protein kinase
YOR231w	*MKK1*	ser/thr protein kinase
YBL105c	*PKC1*	ser/thr protein kinase
YLR113w	*HOG1*	ser/thr protein kinase of MAP kinase (MAPK) family
YHR030c	*SLT2*	ser/thr protein kinase of MAP kinase family
YDL025c		ser/thr protein kinase of the DEAD/DEAH box family
YJL095w	*BCK1*	ser/thr protein kinase of the MEKK family
YER167w	*BCK2*	ser/thr protein kinase of the protein kinase C pathway
YDR227w	*SIR4*	silencing regulatory protein
YKL088w		similarity to *C. tropicalis* hal3 protein, to C-term. of Sis2p and to hypothetical protein YOR054c
YBR044c		similarity to chaperonin HSP60 proteins
YJR147w		similarity to heat-shock transcription factors
YGR249w	*MGA1*	similarity to heat-shock transcription factors
YBR054w	*YRO2*	similarity to HSP30 heat-shock protein Yro1p
YAR020c		similarity to members of the Srp1p/Tip1p family
YCR008w	*SAT4*	similarity to Npr1p and Hal5p protein kinases
YOR009w		similarity to SRP1 and TIR2 proteins
YCR060w		similarity to stress inducible protein Sti1p
YMR037c		stress responsive regulatory protein
YOR027w	*STI1*	stress-induced protein
YBL009w		strong similarity to DNA damage responsive Alk1p
YLR369w		strong similarity to heat-shock protein 70-related proteins
YHL046c		strong similarity to members of the Srp1p/Tip1p family
YIL011w		strong similarity to members of the Srp1p/Tip1p family
YOL161c		strong similarity to members of the Srp1p/Tip1p family
YJL223c	*PAU1*	strong similarity to members of the Srp1p/Tip1p family
YEL049w	*PAU2*	strong similarity to members of the Srp1p/Tip1p family
YCR104w	*PAU3*	strong similarity to members of the Srp1p/Tip1p family
YFL020c	*PAU5*	strong similarity to members of the Srp1p/Tip1p family
YLR461w	*PAU4*	strong similarity to members of the Tir1p/Tip1p family
YNR076w	*PAU6*	strong similarity to members of the Tir1p/Tip1p family
YDR033w		strong similarity to putative heat-shock protein Yro2p
YKL161c		strong similarity to ser/thr-specific protein kinase Slt2p
YOR054c		strong similarity to SIS2 protein and *C. tropicalis* hal3 protein
YBR067c	*TIP1*	temp.shock induced protein of the Srp1p/Tip1p family
YGR144w	*THI4*	thiamine-repressed protein
YBL093c	*ROX3*	transcription factor
YGL181w	*GTS1*	transcription factor of the Gcs1p/Glo3p/Sps18p family
YMR043w	*MCM1*	transcription factor of the MADS box family
YHR206w	*SKN7*	transcription factor with similarity to Hsf1p
YKL062w	*MSN4*	transcriptional activator
YML007w	*YAP1*	transcriptional activator involved in oxidative stress response
YIL147c	*SLN1*	two-component signal transducer
YLR006c	*SSK1*	two-component signal transducer
YJL128c	*PBS2*	tyrosine protein kinase of the MAP kinase kinase family
YLL039c	*UBI4*	ubiquitin
YMR022w	*QRI8*	ubiquitin-conjugating enzyme
YBR082c	*UBC4*	ubiquitin-conjugating enzyme
YDR059c	*UBC5*	ubiquitin-conjugating enzyme
YER125w	*RSP5*	ubiquitin-protein ligase
YKL210w	*UBA1*	ubiquitin-protein ligase

DNA repair (direct repair, base excision repair and nucleotide excision repair)

YER142c	*MAG1*	3-methyladenine DNA glycosylase
YML060w	*OGG1*	8-oxoguanine DNA glycosylase
YKL114c	*APN1*	AP endonuclease
YJL092w	*HPR5*	ATP-dependent DNA helicase
YPL204w	*HRR25*	casein kinase I, ser/thr/tyr protein kinase
YPL022w	*RAD1*	component of the nucleotide excision repairosome
YDL108w	*KIN28*	cyclin-dependent ser/thr protein kinase
YOR386w	*PHR1*	deoxyribodipyrimidine photo-lyase
YOR368w	*RAD17*	DNA damage checkpoint control protein
YER176w		DNA dependent ATPase/DNA helicase B
YLR032w	*RAD5*	DNA helicase
YIL143c	*SSL2*	DNA helicase
YML061c	*PIF1*	DNA helicase involved in mitochondrial DNA repair and telomere length
YER171w	*RAD3*	DNA helicase/ATPase
YDL164c	*CDC9*	DNA ligase
YEL019c	*MMS21*	DNA repair protein
YAL015c	*NTG1*	DNA repair protein
YMR137c	*PSO2*	DNA repair protein
YML095c	*RAD10*	DNA repair protein
YCR066w	*RAD18*	DNA repair protein
YER095w	*RAD51*	DNA repair protein
YDR076w	*RAD55*	DNA repair protein
YDR004w	*RAD57*	DNA repair protein
YOR346w	*REV1*	DNA repair protein
YDR369c	*XRS2*	DNA repair protein
YGL163c	*RAD54*	DNA-dependent ATPase of the Snf2p family
YDL102w	*CDC2*	DNA-directed DNA polymerase δ, catalytic 125K subunit
YFR023w	*PES4*	DNA-directed DNA polymerase ε suppressor
YNL262w	*POL2*	DNA-directed DNA polymerase ε, catalytic subunit A
YPL167c	*REV3*	DNA-directed DNA polymerase ζ
YKR056w	*RNC1*	endo-exonuclease
YOL043c	*NTG2*	endonuclease III-like glycosylase 2
YER162c	*RAD4*	excision repair protein
YLR288c	*MEC3*	G2-specific checkpoint protein
YFL014w	*HSP12*	heat-shock protein
YIL128w	*MMS19*	involved in repair and RNA polymerase transcription
YMR035w	*IMP2*	mitochondrial inner membrane protease subunit
YKR095w	*MLP1*	myosin-like protein related to Uso1p
YMR201c	*RAD14*	nucleotide excision repair protein
YBR114w	*RAD16*	nucleotide excision repair protein
YEL037c	*RAD23*	nucleotide excision repair protein
YJR052w	*RAD7*	nucleotide excision repair protein
YDL200c	*MGT1*	O6-methylguanine DNA repair methyltransferase
YDL101c	*DUN1*	protein kinase
YML032c	*RAD52*	recombination and DNA repair protein
YIL139c	*REV7*	required for DNA damage induced mutagenesis
YBR073w	*RDH54*	required for meiosis
YIL066c	*RNR3*	ribonucleotide reductase, repair inducible large subunit
YPL153c	*SPK1*	ser/thr/tyr protein kinase
YDR061w		similarity to *E. coli* deoxyribodipyrimidine photolyase
YAL019w	*FUN30*	similarity to helicases of the Snf2/Rad54 family
YLR035c		similarity to human mutL protein homologue
YPR056w		similarity to human transcription factor BTF2/TFIIH subunit p34
YFR038w		strong similarity to mouse lymphocyte specific helicase
YOR206w		strong similarity to Rad4p
YGR258c	*RAD2*	structure-specific nuclease of the nucleotide excision repairosome
YDL088c	*ASM4*	suppressor of temperature-sensitive mutations in Pol3p
YDR311w	*TFB1*	TFIIH subunit (transcription initiation factor), 75K
YPR025c	*CCL1*	TFIIH subunit (transcription initiation factor), cyclin C component
YLR005w	*SSL1*	TFIIH subunit (transcription initiation factor), factor B
YPL122c	*TFB2*	TFIIH subunit (transcription/repair factor)
YDR460w	*TFB3*	TFIIH subunit (transcription/repair factor)
YGL058w	*RAD6*	ubiquitin-conjugating enzyme

detoxificaton

YOL052c	*SPE2*	adenosylmethionine decarboxylase
YFL050c	*ALR2*	aluminum resistance protein
YML116w	*ATR1*	aminotriazole and 4-nitroquinoline resistance protein
YNL259c	*ATX1*	antioxidant protein and metal homeostasis factor
YLR398c	*SKI2*	antiviral protein and putative helicase
YKL004w	*AUR1*	aureobasidin-resistance protein
YDR256c	*CTA1*	catalase A, peroxisomal
YGR088w	*CTT1*	catalase T, cytosolic
YJR104c	*SOD1*	copper-zinc superoxide dismutase
YKR066c	*CCP1*	cytochrome c peroxidase
YPR198w	*SGE1*	drug resistance protein
YJL101c	*GSH1*	glutamate-cysteine ligase

YDR513w	*TTR1*	glutaredoxin
YPL091w	*GLR1*	glutathione reductase (NADPH)
YDR135c	*YCF1*	glutathione S-conjugate transporter, vacuolar
YGR197c	*SNG1*	involved in nitroguanidine resistance
YDL168w	*SFA1*	long-chain alcohol dehydrogenase
YCR023c		member of major facilitator superfamily multidrug-resistance protein family 2
YNR055c	*HOL1*	member of major facilitator superfamily multidrug-resistance protein subfamily 1
YHR053c	*CUP1A*	metallothionein
YHR055c	*CUP1B*	metallothionein
YOR079c	*ATX2*	multicopy suppressor of SOD-linked defects
YDR011w	*SNQ2*	multidrug resistance protein
YHR042w	*NCP1*	NADPH-cytochrome P450 reductase
YOR018w	*ROD1*	O-dinitrobenzene,calcium and zinc resistance protein
YKL064w	*MNR2*	overexpression overcomes manganese toxicity
YOR266w	*PNT1*	pentamidine resistance factor
YDR538w	*PAD1*	phenylacrylic acid decarboxylase
YOR153w	*PDR5*	pleiotropic drug resistance protein
YBL005w	*PDR3*	pleiotropic drug resistance regulatory protein
YGL016w	*PDR6*	pleiotropic drug resistance regulatory protein
YIL120w		similarity to antibiotic resistance proteins
YIL121w		similarity to antibiotic resistance proteins
YLR299w		similarity to *B. subtilis* γ-glutamyltransferase
YHL040c		similarity to *C. carbonum* toxin pump
YHL047c		similarity to *C. carbonum* toxin pump
YBR180w		similarity to drug resistance proteins
YDL100c		similarity to *E. coli* arsenical pump-driving ATPase
YLL015w		similarity to metal resistance proteins
YBR293w		similarity to multidrug resistance proteins
YGR138c		similarity to multidrug resistance proteins
YHR048w		similarity to multidrug resistance proteins
YKR103w		similarity to multidrug resistance proteins
YKR104w		similarity to multidrug resistance proteins
YLL028w		similarity to multidrug resistance proteins
YPR156c		similarity to multidrug resistance proteins
YOR273c		similarity to resistance proteins
YOR251c		similarity to thiosulphate sulphurtransferases
YOR247w		similarity to vanadate-sensitive suppressor Svs1p
YJR025c		strong similarity to 3-hydroxyanthranilate 3,4-dioxygenase
YOL130w		strong similarity to Air2p
YMR279c		strong similarity to aminotriazole resistance protein
YOR378w		strong similarity to aminotriazole resistance protein
YBR008c		strong similarity to benomyl/methotrexate resistance protein
YCL069w		strong similarity to drug resistance protein SGE1
YKL026c		strong similarity to glutathione peroxidase
YBR244w		strong similarity to glutathione peroxidases
YKL033w-a		strong similarity to holacid-halidohydrolase
YFR022w		strong similarity to Rod1p
YLR046c		strong similarity to Rta1p and Rtm1p protein
YER185w		strong similarity to Rtm1p
YKR105c		strong similarity to Sge1p and hypothetical protein YCL069w
YJR015w		strong similarity to Sng1p
YNR070w		strong similarity to Snq2p
YBL064c		strong similarity to thiol-specific antioxidant enzyme
YDR453c		strong similarity to thiol-specific antioxidant protein
YGL254w	*FZF1*	sulphite resistance protein
YPL092w	*SSU1*	sulphite sensitivity protein
YHR008c	*SOD2*	superoxide dismutase (Mn), mitochondrial
YOR031w	*CRS5*	suppressor of *cup1* deletion, metallothionein-like protein
YML028w	*TSA1*	thiol-specific antioxidant
YLR043c	*TRX1*	thioredoxin I
YGR209c	*TRX2*	thioredoxin II
YGL013c	*PDR1*	transcription factor
YMR043w	*MCM1*	transcription factor of the MADS box family
YDR423c	*CAD1*	transcriptional activator
YPL163c	*SVS1*	vanadate sensitive suppressor
YLL060c		weak similarity to glutathione transferase
YMR243c	*ZRC1*	zinc- and cadmium resistance protein

detoxification involving cytochrome P450

YMR015c	*ERG5*	C-22 sterol desaturase
YDR402c	*DIT2*	cytochrome P450 56
YHR007c	*ERG11*	cytochrome P450 lanosterol 14a-demethylase
YLL057c		similarity to *E. coli* dioxygenase
YDR403w	*DIT1*	spore wall maturation protein

cell death and ageing

YOR101w	*RAS1*	GTP-binding protein
YNL098c	*RAS2*	GTP-binding protein
YOL025w	*LAG2*	involved in determining longevity
YJL116c	*NCA3*	involved in regulation of synthesis of Atp6p and Atp8p
YNL066w	*SUN4*	involved in the ageing process
YKR042w	*UTH1*	involved in the ageing process
YHL003c	*LAG1*	longevity-assurance protein
YER167w	*BCK2*	ser/thr protein kinase of the protein kinase C pathway
YDR227w	*SIR4*	silencing regulatory protein
YKL008c		strong similarity to Lag1p
YIL123w		strong similarity to Sun4p,Nca3p

degradation of exogenous polynucleotides

YGL213c	*SKI8*	antiviral protein of the β-transducin (WD-40) repeat family

other cell-rescue activities

YPR189w	*SKI3*	antiviral protein
YJR069c	*HAM1*	controls 6-N-hydroxylaminopurine sensitivity and mutagenesis
YGR213c	*RTA1*	involved in 7-aminocholesterol resistance
YKL110c	*KTI12*	involved in resistance to *K. lactis* killer toxin
YER076c		similarity to killer toxin Khr1p
YER187w		similarity to killer toxin KHS

Unclassified proteins

YEL052w	*AFG1*	ATPase family gene
YDR184c	*BAT1*	binds Aip3p
YCR072c		β-transducin family (WD-40 repeat) protein
YLR459w	*CDC91*	cell division control protein
YJL079c	*PRY1*	contains homology to the plant PR-1 class of pathogen related proteins
YKR013w	*PRY2*	contains homology to the plant PR-1 class of pathogen related proteins
YJL078c	*PRY3*	contains homology to the plant PR-1 class of pathogen related proteins
YOR302w	*CPA1-l*	CPA1 leader peptide
YML113w	*DAT1*	datin, oligo(dA)/oligo(dT)-binding protein
YKL020c	*SPT23*	dosage-dependent suppressor of Ty-induced promotor mutations
YJL168c	*EZL1*	enhancer of zeste-like
YOR123c	*LEO1*	extremely hydrophilic protein
YLL065w	*GIN11*	growth inhibitory protein
YDL213c		has an RNA recognition domain in the N-terminal region
YDR505c	*PSP1*	high copy suppressor of ts of mutations in DNA polymerase α
YNL087w		homology to YOR086c
YLR161w		identical to hypothetical proteins YLR156w and YLR161w
YLR156w		identical to hypothetical proteins YLR159w and YLR161w
YLR159w		identical to hypothetical proteins YLR161w and YLR156w
YHR212c		identical with hypothetical protein YAR060c
YHR214w		identical with hypothetical protein YAR066w
YAR066w		identical with hypothetical protein YIL169c
YCR020c-a	*MAK31*	involved in stability of L-A dsRNA-containing particles
YPL049c	*DIG1*	MAP kinase-associated protein, down-regulator of invasive growth
YKL034w		member of Kazal serine protease inhibitors family
YLR397c	*AFG2*	member of the Sec18p, Pas1p, Cdc48p, TBP-1 family of ATPases
YCR007c		member of the YBR302c family
YGL036w	*MTC2*	Mtf1 two hybrid clone 2
YMR200w	*ROT1*	mutant suppresses *tor2* mutation
YAL059w	*SIM1*	mutants are hypersensitive to calcofluor white
YCR019w	*MAK32*	necessary for structural stability of L-A dsRNA-containing particles
YNL061w	*NOP2*	nucleolar protein
YFR011c		ochre suppressor tyr-tRNA
YLR196w	*PWP1*	periodic tryptophan protein
YDL235c	*YPD1*	phosphorelay intermediate between Sln1p and Ssk1p
YOR014w	*RTS1*	potential regulatory subunit of protein phosphatase 2A
YOR181w	*LAS17*	proline-rich protein
YER129w	*PAK1*	protein kinase
YOR223w		protein of unknown function
YHR093w	*AHT1*	protein of unknown function
YDL167c	*ARP1*	protein of unknown function
YHR191c	*CTF8*	protein of unknown function
YAL008w	*FUN14*	protein of unknown function
YAR002w	*FUN17*	protein of unknown function
YAR014c	*FUN2*	protein of unknown function
YAL031c	*FUN21*	protein of unknown function
YAL014c	*FUN34*	protein of unknown function
YAR008w	*FUN4*	protein of unknown function
YAL033w	*FUN53*	protein of unknown function
YDL234c	*GYP7*	protein of unknown function
YPL054w	*LEE1*	protein of unknown function
YDR335w	*MSN5*	protein of unknown function
YIR006c	*PAN1*	protein of unknown function
YDL105w	*QRI2*	protein of unknown function
YLR204w	*QRI5*	protein of unknown function
YLL003w	*SFI1*	protein of unknown function
YDR350c	*TCM10*	protein of unknown function
YDL169c	*UGX2*	protein of unknown function
YJR050w	*UTR3*	protein of unknown function
YEL035c	*UTR5*	protein of unknown function
YJR067c	*YAE1*	protein of unknown function
YGR172c	*YIP1*	protein of unknown function
YNL044w	*YIP3*	protein of unknown function
YBR111c	*YSA1*	protein of unknown function
YGR123c	*PPT1*	protein ser/thr phosphatase
YDL230w	*PTP1*	protein tyrosine phosphatase
YER075c	*PTP3*	protein tyrosine phosphatase
YPR073c	*LTP1*	protein-tyrosine-phosphatase
YNL128w		putative phosphatase
YCL039w		regulatory protein of the β-transducin family
YJR055w	*HIT1*	required for growth at high temperature
YNL085w	*MKT1*	required for propagation of M2 dsRNA satellite of L-A virus
YLL046c	*RNP1*	ribonucleoprotein
YOR046c	*DBP5*	RNA helicase
YDR466w		ser/thr protein kinase
YDR490c		ser/thr protein kinase
YGL179c		ser/thr protein kinase
YGL180w		ser/thr protein kinase
YKL168c		ser/thr protein kinase
YKL171w		ser/thr protein kinase
YLR063w		ser/thr protein kinase
YMR291w		ser/thr protein kinase
YNL161w		ser/thr protein kinase
YOL045w		ser/thr protein kinase
YOL100w		ser/thr protein kinase
YAR018c	*KIN3*	ser/thr protein kinase
YOR233w	*KIN4*	ser/thr protein kinase
YCR091w	*KIN82*	ser/thr protein kinase
YLL019c	*KNS1*	ser/thr protein kinase
YHR082c	*KSP1*	ser/thr protein kinase
YDL079c	*MRK1*	ser/thr protein kinase
YOR267c		ser/thr protein kinase with similarity to Npr1p
YMR216c		ser/thr protein kinase with similarity to *S. pombe* dsk1
YKL116c		ser/thr protein kinase with similarity to *S. pombe* nim1 protein
YBL056w	*PTC3*	ser/thr protein phosphatase PP2C
YDR507c	*GIN4*	ser/thr-protein kinase
YKL126w	*YPK1*	ser/thr-specific protein kinase
YOR007c		similarities to protein phosphatases
YOR119c	*RIO1*	similarity to a *C. elegans* ZK632.3 protein
YLR405w		similarity to *A. brasilense* nifR3 protein
YML079w		similarity to *A. brasilense* nifR3 protein
YML080w		similarity to *A. brasilense* nifR3 protein
YDR205w		similarity to *A. eutrophus* cation efflux system membrane protein czcD, rat zinc transport protein ZnT-1 and Cot1p
YDL228c		similarity to *A. klebsiana* glutamate dehydrogenase
YLL005c		similarity to *A. thaliana* hyp1 protein
YMR266w		similarity to *A. thaliana* hyp1 protein
YOL084w		similarity to *A. thaliana* hyp1 protein
YNL317w		similarity to *A. thaliana* PRL1 protein
YOL105c		similarity to a-agglutinin core protein AGA1 and mucin proteins
YPL252c		similarity to adrenodoxin and ferrodoxin
YMR110c		similarity to aldehyde dehydrogenase
YIL112w		similarity to ankyrin and coiled-coil proteins
YLR064w		similarity to *Anopheles* NADH-ubiquinone oxidoreductase, subunit 4
YMR153w		similarity to Asm4p
YDR349c		similarity to aspartyl proteases
YDR072c		similarity to Aur1p
YMR305c		similarity to *B. japonicum* putative β-(-6) glucan transferase
YDR291w		similarity to *B. subtilis* helicases
YPR201w		similarity to *B. subtilis* hypothetical protein
YPR002w		similarity to *B. subtilis* mmgE protein
YPL258c		similarity to *B. subtilis* transcriptional activator tenA, and strong similarity to hypothetical proteins YOL055c and YPR121w
YPR121w		similarity to *B. subtilis* transcriptional activator tenA, strong similarity to hypothetical proteins YPL258c and YOL055c
YIL159w		similarity to BNI1 protein
YDL119c		similarity to bovine Graves disease carrier protein
YNR068c		similarity to Bul1p
YNL218w		similarity to *C. burnetii* trxB, spoIIIE and serS genes
YCR102c		similarity to *C. carbonum* toxD gene
YNL134c		similarity to *C. carbonum* toxD gene
YJR013w		similarity to *C. elegans* B0491.1 protein
YPR040w		similarity to *C. elegans* C02C2.6 protein
YGR257c		similarity to *C. elegans* C16C10.1
YGR054w		similarity to *C. elegans* E04D5.1 protein
YMR012w		similarity to *C. elegans* hypothetical 139.9K protein F55H2.6
YLR022c		similarity to *C. elegans* hypothetical protein
YNL127w		similarity to *C. elegans* hypothetical protein
YKL095w	*YJU2*	similarity to *C. elegans* hypothetical protein
YML014w		similarity to *C. elegans* hypothetical protein C14B1.5
YKL099c		similarity to *C. elegans* hypothetical protein C16C10.2
YEL004w		similarity to *C. elegans* hypothetical protein C53B4.6
YHL030w		similarity to *C. elegans* hypothetical protein D2045.2

YOL093w		similarity to *C. elegans* hypothetical protein F25H8.1
YDL008w		similarity to *C. elegans* hypothetical protein F35G12.9
YKL151c		similarity to *C. elegans* hypothetical protein R107.2
YDR196c		similarity to *C. elegans* hypothetical protein T05G5.5
YJL029c		similarity to *C. elegans* hypothetical protein T05G5.8
YNL223w		similarity to *C. elegans* hypothetical protein ZK792.1
YOL003c		similarity to *C. elegans* hypothetical protein, YDR126w, YNL326c and YLR246w
YDR049w		similarity to *C. elegans* K06H7.3 protein
YGR278w		similarity to *C. elegans* LET-858
YHR004c		similarity to *C. elegans* SPAC2F7.02c protein
YML059c		similarity to *C. elegans* ZK370.4 protein
YNL168c		similarity to *C. elegans* ZK688.3 protein and *E. coli* hpcEp
YPR188c		similarity to calmodulin and calmodulin-related proteins
YPR128c		similarity to carrier protein FLX1
YPL202c		similarity to cell size regulation protein Rcs1p
YPR154w		similarity to chicken growth factor receptor-binding protein GRB2 homologue
YNL091w		similarity to chicken h-caldesmon, Uso1p and hypothetical protein YKL201c
YPL176c		similarity to chinese hamster transferrin receptor protein
YDR259c		similarity to Cin5p
YGL241w		similarity to Cse1p
YNL305c		similarity to C-term. of *A. nidulans* regulatory protein (qutR)
YPR127w		similarity to C-term. of *N. tabacum* auxin-induced protein
YDL112w		similarity to C-terminus of human TRP-185 protein
YMR304w		similarity to *D. melanogaster* fat facets gene
YGR003w		similarity to *D. melanogaster* lin19 protein
YLL013c		similarity to *D. melanogaster* pumilio protein
YNL023c		similarity to *D. melanogaster* shuttle craft protein
YKL201c		similarity to *D. melanogaster* sperm-tail-specific protein
YCL001w-a		similarity to Dom34p
YIL103w		similarity to Dph2 protein
YGL018c		similarity to *E. coli* dnaJ homologue
YHL014c	*YLF2*	similarity to *E. coli* GTP-binding protein
YLR011w		similarity to *E. coli* hypothetical 20.4K protein
YGL037c		similarity to *E. coli* hypothetical 23K protein
YOR131c		similarity to *E. coli* hypothetical 27K protein
YDR400w		similarity to *E. coli* hypothetical 33.7K protein in nfo-frua intergenic region
YDR539w		similarity to *E. coli* hypothetical 55.3K protein in rfah-rfe intergenic region
YDR332w		similarity to *E. coli* hypothetical protein
YGR021w		similarity to *E. coli* hypothetical protein
YJL046w		similarity to *E. coli* lipoate-protein ligase A
YIL003w		similarity to *E. coli* MRP protein
YOR165w		similarity to *E. histolytica* surface lectin
YNR015w	*SMM1*	similarity to *E. histolytica* nitrogen fixation regulatory protein-3 homologue
YER113c		similarity to Emp70p
YDR036c		similarity to enoyl-CoA hydratase
YOR172w		similarity to finger protein YKL222c, YOR162c and YLR266c, weak similarity to transcription factors
YOR162c		similarity to finger proteins YKL222c, YOR162c and YLR266c, weak similarity to transcription factors
YOR338w		similarity to FUN19 protein
YLR193c		similarity to *G. gallus* px19
YKL054c		similarity to glutenin, high molecular weight subunit
YOL132w		similarity to glycophospholipid-anchored surface glycoprotein GAS1
YHR168w		similarity to GTP-binding proteins
YDL033c		similarity to *H. influenzae* hypothetical protein HI0174
YLL027w		similarity to *H. influenzae* hypothetical protein HI0376
YLR419w		similarity to helicases
YMR128w		similarity to helicases
YGR271w		similarity to Hfm1p
YDR080w		similarity to human (clone S53) mRNA, 3' end of cds
YLR051c		similarity to human acidic 82K protein
YCR026c		similarity to human autotaxin
YJL059w	*YHC3*	similarity to human Batten disease-related protein CLN3
YHR099w		similarity to human DNA-PK
YOL114c		similarity to human DS-1 protein
YJR036c		similarity to human E6-associated protein
YBR265w		similarity to human FVT1 protein
YPL120w		similarity to human GT197 (partial ORF)
YPR023c		similarity to human hypothetical protein
YGL141w		similarity to human hypothetical protein 1
YPL217c		similarity to human hypothetical protein KIAA0187
YJR125c		similarity to human KIAA0171 protein
YLR050c		similarity to human MAC30 C-terminus
YCR071c		similarity to human NOF1 protein
YOR001w		similarity to human nucleolar 100K polymyositis-scleroderma protein
YEL016c		similarity to human nucleotide pyrophosphatase
YIL153w		similarity to human phosphotyrosyl phosphatase activator
YDR280w		similarity to human PM-Scl-75 autoantigen
YPR108w		similarity to human protein GPS1
YLR206w		similarity to human protein KIAA0171 and hypothetical protein YDL161w
YNL265c		similarity to human protein KIAA0174
YGR163w		similarity to human ragA protein
YDR096w	*GIS1*	similarity to human retinoblastoma binding protein 2
YDR378c		similarity to human Sm protein F
YGR112w		similarity to human SURF-1 protein
YGR080w		similarity to human tyrosine kinase A6
YDL060w		similarity to hypothetical *C. elegans* protein
YDR183w		similarity to hypothetical *C. elegans* protein
YDR427w		similarity to hypothetical *C. elegans* protein
YDR473c		similarity to hypothetical *C. elegans* protein
YER051w		similarity to hypothetical *C. elegans* protein
YGR145w		similarity to hypothetical *C. elegans* protein
YGR194c		similarity to hypothetical *C. elegans* protein
YGR245c		similarity to hypothetical *C. elegans* protein
YHL010c		similarity to hypothetical *C. elegans* protein
YJR070c		similarity to hypothetical *C. elegans* protein
YML094w		similarity to hypothetical *C. elegans* protein
YMR002w		similarity to hypothetical *C. elegans* protein
YJR072c		similarity to hypothetical *C. elegans* protein and YLR243w
YOL060c		similarity to hypothetical *C. elegans* protein M02F4.4
YDL097c		similarity to hypothetical *C. elegans* proteins
YER004w		similarity to hypothetical *E. coli* and *C. elegans* proteins
YDL238c		similarity to hypothetical *E. coli* protein
YDR013w		similarity to hypothetical human KIAA0186 protein
YDR496c		similarity to hypothetical human protein
YDR524c		similarity to hypothetical human protein
YHR098c		similarity to hypothetical human protein
YOR294w		similarity to hypothetical human protein
YOR215c		similarity to hypothetical *M. xanthus* protein
YDR105c		similarity to hypothetical mouse protein
YDL193w		similarity to hypothetical *N. crassa* 32K protein
YOR324c		similarity to hypothetical protein YAL028w
YOR371c		similarity to hypothetical protein YAL056w
YJR115w		similarity to hypothetical protein YBL043w
YER093c-a		similarity to hypothetical protein YBL059w
YPR030w		similarity to hypothetical protein YBL101c
YMR101c		similarity to hypothetical protein YBR002c
YGR066c		similarity to hypothetical protein YBR105c
YJL171c		similarity to hypothetical protein YBR162c
YER145c		similarity to hypothetical protein YBR207w
YLR387c		similarity to hypothetical protein YBR267w
YJL048c		similarity to hypothetical protein YBR273c
YFR044c		similarity to hypothetical protein YBR281c
YDL177c		similarity to hypothetical protein YCR059c
YDR282c		similarity to hypothetical protein YDL001w, YFR048w and *S. pombe* hypothetical protein SPAC12G12.14
YDR425w		similarity to hypothetical protein YDL113c
YLR426w		similarity to hypothetical protein YDL114w
YJL151c		similarity to hypothetical protein YDL123w
YDR233c		similarity to hypothetical protein YDL204w
YER139c		similarity to hypothetical protein YDR066c
YNL249c	*MPA43*	similarity to hypothetical protein YDR109c
YLR099c		similarity to hypothetical protein YDR125c
YJL149w		similarity to hypothetical protein YDR131c
YLR238w		similarity to hypothetical protein YDR200c
YDL204w		similarity to hypothetical protein YDR233c
YHR061c		similarity to hypothetical protein YDR309c
YHR080c		similarity to hypothetical protein YDR326c, YFL042c and YLR072w
YOR012w		similarity to hypothetical protein YDR391c
YDL113c		similarity to hypothetical protein YDR425w
YML018c		similarity to hypothetical protein YDR438w
YML033w		similarity to hypothetical protein YDR458c
YML034w		similarity to hypothetical protein YDR458c
YOR019w		similarity to hypothetical protein YDR474c
YLR183c		similarity to hypothetical protein YDR501w
YCL036w		similarity to hypothetical protein YDR514c
YNR027w		similarity to hypothetical protein YEL029c
YGL197w		similarity to hypothetical protein YER132c
YDR066c		similarity to hypothetical protein YER139c
YBR207w		similarity to hypothetical protein YER145c
YHR209w		similarity to hypothetical protein YER175c
YGL262w		similarity to hypothetical protein YER187w and killer toxin KHS
YPL100w		similarity to hypothetical protein YFR021w
YGL228w		similarity to hypothetical protein YFR039c
YBR281c		similarity to hypothetical protein YFR044c
YDL001w		similarity to hypothetical protein YFR048w, YDR282c and *S. pombe* hypothetical protein SPAC12G12.14
YPL216w		similarity to hypothetical protein YGL133w
YPL219w		similarity to hypothetical protein YGL134w
YDR444w		similarity to hypothetical protein YGL144c and YDL1009c
YLR047c		similarity to hypothetical protein YGL160w
YER132c		similarity to hypothetical protein YGL197w
YFR039c		similarity to hypothetical protein YGL228w
YHR036w		similarity to hypothetical protein YGL247w
YGR031w		similarity to hypothetical protein YGR015c
YGR015c		similarity to hypothetical protein YGR031w
YBR105c		similarity to hypothetical protein YGR066c
YLR373c		similarity to hypothetical protein YGR071c
YPR158w		similarity to hypothetical protein YGR142w
YHR149c		similarity to hypothetical protein YGR221c
YHR158c		similarity to hypothetical protein YGR238c
YMR295c		similarity to hypothetical protein YGR273c
YMR310c		similarity to hypothetical protein YGR283c
YDR338c		similarity to hypothetical protein YHR032w
YGL247w		similarity to hypothetical protein YHR036w
YDR309c		similarity to hypothetical protein YHR061c
YNL075w		similarity to hypothetical protein YHR088w
YDR348c		similarity to hypothetical protein YHR097c
YNL144c		similarity to hypothetical protein YHR131c
YNL156c		similarity to hypothetical protein YHR133c
YGR221c		similarity to hypothetical protein YHR149c
YOR147w		similarity to hypothetical protein YHR194w
YER175c		similarity to hypothetical protein YHR209w
YJR108w		similarity to hypothetical protein YIL015c-a
YER064c		similarity to hypothetical protein YIL056w
YLR036c		similarity to hypothetical protein YIL089w
YFL034c-b		similarity to hypothetical protein YIL106w
YNL058c		similarity to hypothetical protein YIL117c
YNL074c	*YMK1*	similarity to hypothetical protein YIL135c
YKR100c		similarity to hypothetical protein YIL158w
YKR015c		similarity to hypothetical protein YJL043w
YBR273c		similarity to hypothetical protein YJL048c
YLL031c		similarity to hypothetical protein YJL062w
YKR010c		similarity to hypothetical protein YJL076w
YKR019c		similarity to hypothetical protein YJL083w
YKR029c		similarity to hypothetical protein YJL105p
YDR131c		similarity to hypothetical protein YJL149w
YDL123w		similarity to hypothetical protein YJL151c
YBR162c		similarity to hypothetical protein YJL171c
YJR030c		similarity to hypothetical protein YJL181w
YJL181w		similarity to hypothetical protein YJR030c
YPR114w		similarity to hypothetical protein YJR116w
YKL002w		similarity to hypothetical protein YKL041w
YMR031c		similarity to hypothetical protein YKL050c and human restin
YMR086w		similarity to hypothetical protein YKL105c
YMR171c		similarity to hypothetical protein YKL124w
YMR115w		similarity to hypothetical protein YKL133c
YNL101w		similarity to hypothetical protein YKL146w
YJL076w		similarity to hypothetical protein YKR010c
YJL043w		similarity to hypothetical protein YKR015c
YJL083w		similarity to hypothetical protein YKR019c
YJL105w		similarity to hypothetical protein YKR029c
YIL158w		similarity to hypothetical protein YKR100c
YLR019w		similarity to hypothetical protein YLL010c
YNL328c		similarity to hypothetical protein YLR008c
YPL063w		similarity to hypothetical protein YLR019w and *S. pombe* hypothetical protein SPAC2F7.02c
YIL089w		similarity to hypothetical protein YLR036c
YLL023c		similarity to hypothetical protein YLR064w
YFL043c		similarity to hypothetical protein YLR072w
YNR067c		similarity to hypothetical protein YLR144c
YDR501w		similarity to hypothetical protein YLR183c
YNL278w		similarity to hypothetical protein YLR187w
YDR200c		similarity to hypothetical protein YLR238w
YOR262w		similarity to hypothetical protein YLR243w
YDR126w		similarity to hypothetical protein YLR246w and YOL003c
YOR137c		similarity to hypothetical protein YLR361c
YGR071c		similarity to hypothetical protein YLR373c
YPR117w		similarity to hypothetical protein YLR454w
YDR458c		similarity to hypothetical protein YML034w
YJR054w		similarity to hypothetical protein YML047c
YPL184c		similarity to hypothetical protein YML117w
YKL050c		similarity to hypothetical protein YMR031c
YKL105c		similarity to hypothetical protein YMR086w
YKL133c		similarity to hypothetical protein YMR115w
YNL008c		similarity to hypothetical protein YMR119w
YLR031w		similarity to hypothetical protein YMR124w
YPL228w		similarity to hypothetical protein YMR180c
YML118w		similarity to hypothetical protein YMR285c
YGR273c		similarity to hypothetical protein YMR295c
YGR283c		similarity to hypothetical protein YMR310c
YMR119w		similarity to hypothetical protein YNL008c
YIL117c		similarity to hypothetical protein YNL058c
YHR088w		similarity to hypothetical protein YNL075w
YHR131c		similarity to hypothetical protein YNL144c
YHR133c		similarity to hypothetical protein YNL156c
YDL211c		similarity to hypothetical protein YNL176c
YLR187w		similarity to hypothetical protein YNL278w
YDR214w		similarity to hypothetical protein YNL281w
YLR008c		similarity to hypothetical protein YNL328c
YEL029c		similarity to hypothetical protein YNR027w
YFR012w		similarity to hypothetical protein YOL019w
YMR063w		similarity to hypothetical protein YOL019w
YOL083w		similarity to hypothetical protein YOL082w
YDR474c		similarity to hypothetical protein YOR019w

YKR078w		similarity to hypothetical protein YOR069w
YHR194w		similarity to hypothetical protein YOR147w
YAL028w		similarity to hypothetical protein YOR324c
YLR361c		similarity to hypothetical protein YOR3329c
YAL034c	*FUN19*	similarity to hypothetical protein YOR338w
YAL056w		similarity to hypothetical protein YOR371c
YFR021w		similarity to hypothetical protein YPL100w
YML117w		similarity to hypothetical protein YPL184c
YGL133w		similarity to hypothetical protein YPL216w
YGL134w		similarity to hypothetical protein YPL219w
YMR180c		similarity to hypothetical protein YPL228w
YMR181c		similarity to hypothetical protein YPL229w
YJR116w		similarity to hypothetical protein YPR114w
YLR454w		similarity to hypothetical protein YPR117w
YOL027c		similarity to hypothetical protein YPR125w
YGR142w		similarity to hypothetical protein YPR158w
YOL048c		similarity to hypothetical proteins YAL018c and YOL047c
YOL047c		similarity to hypothetical proteins YAL018c and YOL048c
YMR210w		similarity to hypothetical proteins YBR177c and YPL095c
YML052w		similarity to hypothetical proteins YDL222c and YNL194c
YLR246w		similarity to hypothetical proteins YDR126w, YNL326c and YOL003c
YER072w		similarity to hypothetical proteins YFL004w and YPL019c
YLR072w		similarity to hypothetical proteins YFL042c, YFL043c, YDR326c and YHR080c
YGL028c		similarity to hypothetical proteins YGR279c and YMR305c
YFL042c		similarity to hypothetical proteins YHR080c, YDR326c and YLR072w
YNL097c		similarity to hypothetical proteins YHR090c and YHR090c
YJR061w		similarity to hypothetical proteins YKL200c and YKL201c
YMR313c		similarity to hypothetical proteins YKR089c and YOR081c
YOL019w		similarity to hypothetical proteins YMR063w and YFR012w
YPR027c		similarity to hypothetical proteins YNL019c and YNL033w
YNL056w		similarity to hypothetical proteins YNL032w and YNL099c
YNL099c		similarity to hypothetical proteins YNL032w, YNL056w and YDR067c
YNL032w		similarity to hypothetical proteins YNL099c, YNL056w and YDR067c
YOL101c		similarity to hypothetical proteins YOL002c and YDR492w
YNL326c		similarity to hypothetical proteins YOL003c, YLR246w and *C. elegans* hypothetical protein ZK757.1
YML072c		similarity to hypothetical proteins YOR3141c and YNL087w and weak similarity to synaptogamines
YLR152c		similarity to hypothetical proteins YOR3165w and YNL095c
YNL165w		similarity to hypothetical proteins YOR385w and YMR316w
YMR316w		similarity to hypothetical proteins YOR385w and YNL165w
YDR083w		similarity to hypothetical *S. pombe* protein
YDR346c		similarity to hypothetical *S. pombe* protein
YGR272c		similarity to hypothetical *S. pombe* protein
YLR241w		similarity to hypothetical *S. pombe* protein
YML005w		similarity to hypothetical *S. pombe* protein
YOL098c		similarity to hypothetical *S. pombe* protein
YOR091w		similarity to hypothetical *S. pombe* protein D83992_G
YOL071w		similarity to hypothetical *S. pombe* protein SPAC12B10.06c
YFR048w		similarity to hypothetical *S. pombe* protein SPAC12G12.14 and to YDL001w and YDR282c
YOR322c		similarity to hypothetical *S. pombe* protein SPAC1F12.05
YOR250c		similarity to hypothetical *S. pombe* protein SPAC22H10.05c
YER143w		similarity to hypothetical *S. pombe* protein SPAC56F8.08
YDR504c		similarity to hypothetical *T. brucei* protein
YDR223w		similarity to Ifh1p
YAL035w	*FUN12*	similarity to Ifm1p
YOR109w		similarity to inositol polyphosphate 5-phosphatases
YEL013w		similarity to intracellular attachement proteins
YPR042c		similarity to Jsn1p
YMR226c		similarity to ketoreductases
YGR232w		similarity to *L. mactans* α-latroinsectotoxin
YER010c		similarity to *L. pneumophila* dlpA protein
YGR210c		similarity to *M. capricolum* hypothetical protein SGC3
YMR095c		similarity to *M. leprae* hisH protein
YBR079c		similarity to *M. musculus* p162 protein
YNL335w		similarity to *M. verrucaria* cyanamide hydratase, identical to hypothetical protein YFL061w
YLL034c		similarity to mammalian valosin
YMR166c		similarity to members of the mitochondrial carrier protein family
YIR041w		similarity to members of the Srp1p/Tip1p family
YNL006w		similarity to Met30p
YNL293w		similarity to Mic1p and human transforming protein tre-2, and strong similarity to hypothetical protein YOL112w
YNR047w		similarity to microtubule-associated ser/thr protein kinases
YPL137c		similarity to microtubule-interacting protein Mhp1p and to hypothetical protein YOR227w
YIL151c		similarity to mitochondrial aldehyde dehydrogenase Ald1p
YGR058w		similarity to mouse calcium-binding protein
YBL047c		similarity to mouse eps15R protein
YLR200w	*YKE2*	similarity to mouse KE2 protein
YIL023c		similarity to mouse MHC H-2K/t-w5-linked ORF
YCR033w		similarity to mouse nuclear receptor co-repressor N-Cor
YER030w		similarity to mouse nucleolin
YDR060w		similarity to mouse putative CCAAT binding factor 1
YBR187w		similarity to mouse putative transmembrane protein FT27
YGR284c		similarity to mouse Surf-4 protein
YGR127w		similarity to mouse T10 protein
YMR192w		similarity to mouse Tbc1 protein
YPL249c		similarity to mouse Tbc1 protein
YHR181w		similarity to mouse TEG-261 protein
YDR109c		similarity to MPA43p
YDL038c		similarity to mucin proteins
YER085c		similarity to myosins
YJL112w		similarity to *N. crassa* sulphur controller-2
YDR395w		similarity to NMD and CSE1 proteins
YPR072w		similarity to N-terminal part of Cdc39p
YBL024w		similarity to nucleolar Nop2p
YDR071c		similarity to *O. aries* arylalkylamine N-acetyltransferase
YOL164w		similarity to *P. aeruginosa* alkyl sulphatase
YMR099c		similarity to *P. ciliare* possible apospory-associated protein
YNR029c		similarity to *P. denitrificans* cobW protein
YDR472w		similarity to *P. falciparum* 41-2 protein antigen
YNL136w		similarity to *P. falciparum* mature-parasite-infected erythrocyte surface antigen MESA
YIL010w		similarity to *P. falciparum* merozoite cap protein-1
YLR107w		similarity to *P. troglodytes* prot GOR
YOL065c		similarity to Pie3p and hypothetical proteins YIL002c
YNL047c		similarity to probable transcription factor Ask10p and hypothetical protein YPR115w, and strong similarity to hypothetical protein YIL105c
YBR125c		similarity to protein phosphatase 2C
YNR038w		similarity to Prp5p
YER150w		similarity to putative cell surface glycoprotein Sed1p
YGL099w		similarity to putative human GTP-binding protein HSR1
YPR062w		similarity to *R. corallinus* N-ethylammeline chlorohydrolase trzA
YJL055w		similarity to *R. fascians* hypothetical protein 6
YOR191w		similarity to RAD5 protein
YGL059w		similarity to rat branched-chain α-ketoacid dehydrogenase kinase
YBR053c		similarity to rat regucalcin
YDL015c		similarity to rat synaptic glycoprotein SC2
YDR457w		similarity to rat URE-B1
YBR028c		similarity to ribosomal protein kinases
YLR276c		similarity to RNA helicases
YPR112c		similarity to RNA-binding proteins
YPR016c		similarity to *S. acidocaldarius* ao2sac protein
YOL154w		similarity to *S. fumigata* Asp FII
YHR029c		similarity to *S. lincolnensis* lmbX protein
YFL033c		similarity to *S. pombe* cek1 serine/threonine protein kinase
YIL144w		similarity to *S. pombe* hypothetical protein
YKR051w		similarity to *S. pombe* hypothetical protein
YOL087c		similarity to *S. pombe* hypothetical protein
YBR004c		similarity to *S. pombe* hypothetical protein SPAC18B11.05
YKR079c		similarity to *S. pombe* hypothetical protein SPAC1D4.10
YNL308c		similarity to *S. pombe* hypothetical protein SPAC22G7.05
YAL042w	*FUN9*	similarity to *S. pombe* hypothetical protein SPAC24B11.08c
YNL310c		similarity to *S. pombe* hypothetical protein SPAC24H6.02c
YGR125w		similarity to *S. pombe* hypothetical protein SPAC24H6.11c
YMR075w		similarity to *S. pombe* hypothetical protein SPAC2F7.07c
YDR175c		similarity to *S. pombe* hypothetical protein SPAC2F7.15
YFL047w		similarity to *S. pombe* hypothetical protein SPAC2F7.18c
YLR023c		similarity to *S. pombe* hypothetical protein SPAC30D11.11
YDR180w		similarity to *S. pombe* hypothetical protein SPAC31A2.05c
YGL164c		similarity to *S. pombe* hypothetical protein SPAC31A2.10
YPL236c		similarity to *S. pombe* hypothetical protein SPAC3H1.13
YAL032c	*FUN20*	similarity to *S. pombe* hypothetical protein SPAC8A4.06
YEL007w		similarity to *S. pombe* pac2 protein
YLR247c		similarity to *S. pombe* rad8 protein
YJL062w		similarity to *S. pombe* SPAC13G6.3 protein
YHR009c		similarity to *S. pombe* YAM3 protein
YBL051c		similarity to *S. pombe* Z66568_C protein
YOR240w		similarity to *S. pombe* ZK1058.5 protein
YPL150w		similarity to ser/thr kinases
YGR052w		similarity to ser/thr protein kinases
YAL017w	*FUN31*	similarity to ser/thr protein kinases
YOR090c		similarity to ser/thr protein phosphatases
YBR059c		similarity to ser/thr-specific protein kinase Pak1p
YBR274w		similarity to ser/thr-specific protein kinases
YLR118c		similarity to several esterases
YMR077c		similarity to SNF7 protein
YLR313c		similarity to SPA2 protein
YIR033w		similarity to Spt23p
YBL109w		similarity to subtelomeric encoded proteins
YEL074w		similarity to subtelomeric encoded proteins
YGL263w		similarity to subtelomeric encoded proteins
YHL042w		similarity to subtelomeric encoded proteins
YHL043w		similarity to subtelomeric encoded proteins
YHL044w		similarity to subtelomeric encoded proteins
YIL177c		similarity to subtelomeric encoded proteins
YKL219w		similarity to subtelomeric encoded proteins
YMR326c		similarity to subtelomeric encoded proteins
YLR177w		similarity to suppressor protein Gin5p
YNL191w		similarity to *Synechocystis* hypothetical protein
YGR036c		similarity to *T. denticola* phosphatase
YDR485c		similarity to trichohyalin
YOR195w		similarity to USO1 protein
YPL188w	*POS5*	similarity to Utr1p and hypothetical protein YEL041w
YLR213c		similarity to UTR2 protein
YGR189c		similarity to Utr2p
YGL220w		similarity to *V. alginolyticus* bolA protein
YGR203w		similarity to *X. laevis* protein-tyrosin-phosphatase cdc homologue 2 and to hypothetical protein YPR200c
YDR284c		similarity to YDR503c
YEL003w		similarity to Yke2p
YIL135c		similarity to Ymk1p
YOL082w		similarity to YOL083w
YDR534c		similarity to YOR383c,Sta1p and pig mucin
YBL101c		similarity to YPR030w
YCR062w		similarity to Ytp1p protein
YFR024c-a		strong similarity hypothetical protein YHR016c
YPL151c		strong similarity to *A. thaliana* PRL1 and PRL2 proteins
YOR034c		strong similarity to Akr1p
YOR374w		strong similarity to aldehyde dehydrogenase
YIL113w		strong similarity to *C. albicans* dual-specificity phosphatase MSG5
YLR460c		strong similarity to *C. carbonum* toxD protein
YKL013c		strong similarity to *C. elegans* hypothetical protein
YNL288w		strong similarity to *C. elegans* hypothetical protein
YOL077c		strong similarity to *C. elegans* K12H4.3 protein
YGL080w		strong similarity to *C. elegans* R07E5.13 protein
YPR194c		strong similarity to C-term. of *S. pombe* isp4 protein
YAR023c		strong similarity to Fun55p, Fun59p, YGL051w, YCR007c, YGL053w, YAR031w and YAR028w
YAR028w		strong similarity to Fun55p, YGL053w, YCR007c, YAR031w, Fun59p and YGL051w
YGL051w		strong similarity to Fun59p
YGL236c		strong similarity to gidA *E. coli* protein
YAL036c	*FUN11*	strong similarity to GTP-binding proteins
YMR290c		strong similarity to helicases of the DEAD/DEAH box family
YDR276c		strong similarity to *Hordeum* blt101 protein
YDL103c	*QRI1*	strong similarity to human AgX-1 antigen
YDR373w		strong similarity to human BDR-1 protein and other calcium binding proteins
YNR053c		strong similarity to human breast tumor associated autoantigen
YDL120w		strong similarity to human frataxin (Friedreichs ataxia)
YGR173w		strong similarity to human GTP-binding protein
YKL056c		strong similarity to human IgE-dependent histamine-releasing factor

YPL152w		strong similarity to human phosphotyrosyl phosphatase activator
YPR028w		strong similarity to human protein TB2
YCL059c		strong similarity to human Rev interacting protein Rip-1
YLR146c		strong similarity to human spermidine synthase
YNL200c		strong similarity to human TGR-CL10C
YBL036c		strong similarity to hypothetical *C. elegans* protein
YBL078c		strong similarity to hypothetical *C. elegans* protein
YMR292w		strong similarity to hypothetical *C. elegans* protein
YDR430c		strong similarity to hypothetical *C. perfringens* protein
YOR365c		strong similarity to hypothetical protein YAL053w
YHR214w-a		strong similarity to hypothetical protein YAR068w
YPR032w		strong similarity to hypothetical protein YBL106c
YDR003w		strong similarity to hypothetical protein YBR005w
YDR210w		strong similarity to hypothetical protein YBR016w
YDL012c		strong similarity to hypothetical protein YBR016w and YDR210w
YDR018c		strong similarity to hypothetical protein YBR042c
YOL092w		strong similarity to hypothetical protein YBR147w
YPL095c		strong similarity to hypothetical protein YBR177c
YPL087w		strong similarity to hypothetical protein YBR183w
YGL056c		strong similarity to hypothetical protein YBR214w
YGL060w		strong similarity to hypothetical protein YBR216c
YGL107c		strong similarity to hypothetical protein YBR238c
YGL101w		strong similarity to hypothetical protein YBR242w
YJL058c		strong similarity to hypothetical protein YBR270c
YGR293c		strong similarity to hypothetical protein YBR300c
YDR514c		strong similarity to hypothetical protein YCL036w
YGL144c		strong similarity to hypothetical protein YDL109c
YIL079c		strong similarity to hypothetical protein YDL175c
YNL194c		strong similarity to hypothetical protein YDL222c and similarity to hypothetical protein YML052w
YBR005w		strong similarity to hypothetical protein YDR003w
YBR042c		strong similarity to hypothetical protein YDR018c
YLR108c		strong similarity to hypothetical protein YDR132c
YPL235w		strong similarity to hypothetical protein YDR190c
YNL281w		strong similarity to hypothetical protein YDR214w
YLR225c		strong similarity to hypothetical protein YDR222w
YHR032w	*ERC1*	strong similarity to hypothetical protein YDR338c
YHR097c		strong similarity to hypothetical protein YDR348c
YHR108w		strong similarity to hypothetical protein YDR358w
YOR013w		strong similarity to hypothetical protein YDR391c
YJR133w		strong similarity to hypothetical protein YDR399w
YOL002c		strong similarity to hypothetical protein YDR492w
YOR383c		strong similarity to hypothetical protein YDR534c and similarity to *L. mexicana* secreted acid phosphatase 2
YPR193c		strong similarity to hypothetical protein YEL066w
YGL224c		strong similarity to hypothetical protein YER037w
YIL057c		strong similarity to hypothetical protein YER067w
YPL019c		strong similarity to hypothetical protein YFL004w
YMR096w		strong similarity to hypothetical protein YFL059w, YNL333w, and Para rubber tree ethylene-responsive protein 1
YHR016c	*YSC84*	strong similarity to hypothetical protein YFR024c-a
YBR214w		strong similarity to hypothetical protein YGL056c
YBR216c		strong similarity to hypothetical protein YGL060w
YPL191c		strong similarity to hypothetical protein YGL082w
YPL189w		strong similarity to hypothetical protein YGL084c
YBR242w		strong similarity to hypothetical protein YGL101w
YDL109c		strong similarity to hypothetical protein YGL144c
YER037w		strong similarity to hypothetical protein YGL224c
YOR387c		strong similarity to hypothetical protein YGL258w
YLR324w		strong similarity to hypothetical protein YGR004w
YLR328w		strong similarity to hypothetical protein YGR010w
YLR350w		strong similarity to hypothetical protein YGR038w
YLR357w		strong similarity to hypothetical protein YGR056w
YPL004c		strong similarity to hypothetical protein YGR086c
YPR157w		strong similarity to hypothetical protein YGR141w
YHR162w		strong similarity to hypothetical protein YGR243w
YBR300c		strong similarity to hypothetical protein YGR293c
YHR054c		strong similarity to hypothetical protein YHR056c
YDR358w		strong similarity to hypothetical protein YHR108w
YNL116w		strong similarity to hypothetical protein YHR115c
YGR238c		strong similarity to hypothetical protein YHR158c
YGR243w		strong similarity to hypothetical protein YHR162w
YHR199c		strong similarity to hypothetical protein YHR198c
YHR198c		strong similarity to hypothetical protein YHR199c
YAR060c		strong similarity to hypothetical protein YHR212c
YAR068w		strong similarity to hypothetical protein YHR214w-a
YPR071w		strong similarity to hypothetical protein YIL029c
YER067w		strong similarity to hypothetical protein YIL057c
YDL175c		strong similarity to hypothetical protein YIL079c
YIL014c-a		strong similarity to hypothetical protein YIL102c
YNL049c		strong similarity to hypothetical protein YIL109c
YOL162w		strong similarity to hypothetical protein YIL166c
YJL038c		strong similarity to hypothetical protein YJL037w
YJL037w		strong similarity to hypothetical protein YJL038c
YBR270c		strong similarity to hypothetical protein YJL058c
YKR018c		strong similarity to hypothetical protein YJL082w
YKR021w		strong similarity to hypothetical protein YJL084c
YKR053c		strong similarity to hypothetical protein YJL134w
YML047c		strong similarity to hypothetical protein YJR054w
YKL200c		strong similarity to hypothetical protein YJR061w
YDR399w		strong similarity to hypothetical protein YJR133w
YMR238w		strong similarity to hypothetical protein YKL046c
YMR040w		strong similarity to hypothetical protein YKL065c
YMR102c		strong similarity to hypothetical protein YKL121w
YLR413w		strong similarity to hypothetical protein YKL187c
YJL082w		strong similarity to hypothetical protein YKR018c
YJL084c		strong similarity to hypothetical protein YKR021w
YJL134w		strong similarity to hypothetical protein YKR053c
YOR081c		strong similarity to hypothetical protein YKR089c
YIR013c		strong similarity to hypothetical protein YLR013w
YLL010c		strong similarity to hypothetical protein YLR019w
YDR125c		strong similarity to hypothetical protein YLR099c
YDR132c		strong similarity to hypothetical protein YLR108c
YDR185c		strong similarity to hypothetical protein YLR168c
YDL161w		strong similarity to hypothetical protein YLR206w and to human KIAA0171 protein
YDR222w		strong similarity to hypothetical protein YLR225c
YDR213w		strong similarity to hypothetical protein YLR228c
YOR171c		strong similarity to hypothetical protein YLR260w
YOR173w		strong similarity to hypothetical protein YLR270w
YOR180c		strong similarity to hypothetical protein YLR284c
YGR004w		strong similarity to hypothetical protein YLR324w
YGR010w		strong similarity to hypothetical protein YLR328w
YGR038w	*ORM1*	strong similarity to hypothetical protein YLR350w
YGR056w		strong similarity to hypothetical protein YLR357w
YKL187c		strong similarity to hypothetical protein YLR413w
YPR172w		strong similarity to hypothetical protein YLR456w
YDR438w		strong similarity to hypothetical protein YML018c
YBR002c		strong similarity to hypothetical protein YMR101c
YKL121w		strong similarity to hypothetical protein YMR102c
YPL224c		strong similarity to hypothetical protein YMR177w
YOR295w		strong similarity to hypothetical protein YMR233w
YKL046c		strong similarity to hypothetical protein YMR238w
YPL264c		strong similarity to hypothetical protein YMR253c
YGR279c		strong similarity to hypothetical protein YMR305c
YOR385w		strong similarity to hypothetical protein YMR316w
YNL034w		strong similarity to hypothetical protein YNL018c
YNL033w		strong similarity to hypothetical protein YNL019c
YNL019c		strong similarity to hypothetical protein YNL033w
YNL018c		strong similarity to hypothetical protein YNL034w
YIL109c		strong similarity to hypothetical protein YNL049c
YOR086c		strong similarity to hypothetical protein YNL087w and weak similarity to synaptogamines
YOR092w		strong similarity to hypothetical protein YNL095c
YOR110w		strong similarity to hypothetical protein YNL108c
YHR115c		strong similarity to hypothetical protein YNL116w
YDL222c		strong similarity to hypothetical protein YNL194c and similarity to YML052w
YLR144c		strong similarity to hypothetical protein YNR067c
YDR492w		strong similarity to hypothetical protein YOL002c
YPR125w		strong similarity to hypothetical protein YOL027c
YBR147w		strong similarity to hypothetical protein YOL092w
YDR391c		strong similarity to hypothetical protein YOR013w
YAL007c		strong similarity to hypothetical protein YOR016c, similarity to hamster COP-coated vesicle membrane protein
YKR089c		strong similarity to hypothetical protein YOR081c
YNL095c		strong similarity to hypothetical protein YOR092w
YNL108c		strong similarity to hypothetical protein YOR110w
YLR260w		strong similarity to hypothetical protein YOR171c
YLR270w		strong similarity to hypothetical protein YOR173w
YLR284c		strong similarity to hypothetical protein YOR180c
YLR243w		strong similarity to hypothetical protein YOR262w
YMR233w		strong similarity to hypothetical protein YOR295w
YGL258w		strong similarity to hypothetical protein YOR387c
YPL279c		strong similarity to hypothetical protein YOR390w
YGR086c		strong similarity to hypothetical protein YPL004c
YFL004w		strong similarity to hypothetical protein YPL019c
YBR183w		strong similarity to hypothetical protein YPL087w
YBR177c		strong similarity to hypothetical protein YPL095c
YOR227w		strong similarity to hypothetical protein YPL137c and to microtubule-interacting protein MHP1
YGL084c		strong similarity to hypothetical protein YPL189w
YGL082w		strong similarity to hypothetical protein YPL191c
YGL139w		strong similarity to hypothetical protein YPL221w
YMR177w		strong similarity to hypothetical protein YPL224c
YDR190c		strong similarity to hypothetical protein YPL235w
YMR253c		strong similarity to hypothetical protein YPL264c

YOR390w		strong similarity to hypothetical protein YPL279c
YIL029c		strong similarity to hypothetical protein YPR071w
YDL242w		strong similarity to hypothetical protein YPR079w
YGR141w		strong similarity to hypothetical protein YPR157w
YLR456w		strong similarity to hypothetical protein YPR172w
YEL066w		strong similarity to hypothetical protein YPR193c
YGL053w		strong similarity to hypothetical proteins YAR031, YGL051w, YAR028w,Fun55p and YCR007c
YMR324c		strong similarity to hypothetical proteins YBL108w, YCR103c and YKL223w
YNR048w		strong similarity to hypothetical proteins YCR094w and YNL323w
YNL323w		strong similarity to hypothetical proteins YCR094w and YNR048w
YBR016w		strong similarity to hypothetical proteins YDL012c and YDR210w
YNL334c		strong similarity to hypothetical proteins YFL060c and YMR095c
YPL221w		strong similarity to hypothetical proteins YGL139w and YAL053w
YDR326c		strong similarity to hypothetical proteins YHR080c, YFL042c and YLR072w
YMR251w		strong similarity to hypothetical proteins YKR076w and YGR154c
YGR154c		strong similarity to hypothetical proteins YKR076w and YMR251w
YKR076w		strong similarity to hypothetical proteins YMR251w and YGR154c
YFL060c		strong similarity to hypothetical proteins YNL334c and YMR095c
YCR094w		strong similarity to hypothetical proteins YNR048w and YNL323w
YOR230w		strong similarity to hypothetical proteins YOR229w and YPL139c
YPL139c		strong similarity to hypothetical proteins YOR230w and YOR229w
YOR229w		strong similarity to hypothetical proteins YOR230w and YPL139c
YAL053w		strong similarity to hypothetical proteins YOR365c,YGL139w,YPL221w
YPL280w		strong similarity to hypothetical proteins YOR391c, YMR322c and YDR533c
YMR321c		strong similarity to hypothetical proteins YPL273w and YLL062c
YLL062c		strong similarity to hypothetical proteins YPL273w, weak similarity to *M. leprae* metH2 protein
YOR391c		strong similarity to hypothetical proteins YPL280w, YMR322c and YDR533c
YDR533c		strong similarity to hypothetical proteins YPL280w, YOR391c and YMR322c
YMR322c		strong similarity to hypothetical proteins YPL280w, YOR391c and YDR533c
YHR069c		strong similarity to hypothetical *S. pombe* and human proteins
YMR288w		strong similarity to hypothetical *S. pombe* protein
YER049w		strong similarity to hypothetical *S. pombe* protein YER049W
YNL240c		strong similarity to *K. marxianus* LET1 protein
YBR301w		strong similarity to members of the Srp1p/Tip1p family
YGL261c		strong similarity to members of the Srp1p/Tip1p family
YGR294w		strong similarity to members of the Srp1p/Tip1p family
YIL176c		strong similarity to members of the Srp1p/Tip1p family
YKL224c		strong similarity to members of the Srp1p/Tip1p family
YLL025w		strong similarity to members of the Srp1p/Tip1p family
YLL064c		strong similarity to members of the Srp1p/Tip1p family
YLR037c		strong similarity to members of the Srp1p/Tip1p family
YMR325w		strong similarity to members of the Srp1p/Tip1p family
YOR394w		strong similarity to members of the Srp1p/Tip1p family
YEL047c		strong similarity to Osm1p
YFL059w		strong similarity to Para rubber tree ethylene-responsive protein1
YNL333w		strong similarity to Para rubber tree ethylene-responsive protein 1 and identical to hypothetical protein YFL059w
YNR065c		strong similarity to Pep1p
YNR066c		strong similarity to Pep1p
YER089c	*PTC2*	strong similarity to phosphoprotein phosphatases
YPL141c		strong similarity to protein kinase Kin4p
YOL128c		strong similarity to protein kinase Mck1p
YNL020c		strong similarity to protein kinase PAK1
YJR150c		strong similarity to proteins of the Srp1p/Tip1p family
YDL214c		strong similarity to putative protein kinase NPR1
YEL077c		strong similarity to putative purine nucleotide-binding protein YIL177c
YHL017w		strong similarity to putative transmembrane protein PTM1
YHR017w	*YSC83*	strong similarity to *S. douglasii* YSD83
YDL219w		strong similarity to *S. equisimilis* hypothetical protein
YPL118w		strong similarity to *S. kluyveri* hypothetical protein
YNR046w		strong similarity to *S. pombe* hypothetical protein SPAC31A2.02
YNL072w		strong similarity to *S. pombe* hypothetical protein SPAC4G9.02
YDR032c		strong similarity to *S. pombe* obr1
YOL010w		strong similarity to *S. pombe* SPAC12G12.06c protein
YOR163w		strong similarity to *S. pombe* SPAC13G6.14 protein
YOR256c		strong similarity to secretory protein SSP134
YCL024w		strong similarity to ser/thr protein kinase GNP1
YOR310c		strong similarity to SIK1 protein
YDR247w		strong similarity to Sks1p
O7535		strong similarity to subtelomeric encoded proteins
YAL068c		strong similarity to subtelomeric encoded proteins
YBL108w		strong similarity to subtelomeric encoded proteins
YBL111c		strong similarity to subtelomeric encoded proteins
YBL112c		strong similarity to subtelomeric encoded proteins
YBL113c		strong similarity to subtelomeric encoded proteins
YBR302c		strong similarity to subtelomeric encoded proteins
YCL073c		strong similarity to subtelomeric encoded proteins
YCR103c		strong similarity to subtelomeric encoded proteins
YDL248w		strong similarity to subtelomeric encoded proteins
YDR542w		strong similarity to subtelomeric encoded proteins
YDR543c		strong similarity to subtelomeric encoded proteins
YDR544c		strong similarity to subtelomeric encoded proteins
YDR545w		strong similarity to subtelomeric encoded proteins
YEL075c		strong similarity to subtelomeric encoded proteins
YEL076c-b		strong similarity to subtelomeric encoded proteins
YER188c-a		strong similarity to subtelomeric encoded proteins
YER189w		strong similarity to subtelomeric encoded proteins
YER190w		strong similarity to subtelomeric encoded proteins
YFL062w		strong similarity to subtelomeric encoded proteins
YFL063w		strong similarity to subtelomeric encoded proteins
YFL064c		strong similarity to subtelomeric encoded proteins
YFL065c		strong similarity to subtelomeric encoded proteins
YFL066c		strong similarity to subtelomeric encoded proteins
YGL260w		strong similarity to subtelomeric encoded proteins
YGR295c		strong similarity to subtelomeric encoded proteins
YGR296w		strong similarity to subtelomeric encoded proteins
YHL045w		strong similarity to subtelomeric encoded proteins
YHL048w		strong similarity to subtelomeric encoded proteins
YHR217c		strong similarity to subtelomeric encoded proteins
YHR218w-a		strong similarity to subtelomeric encoded proteins
YIR040c		strong similarity to subtelomeric encoded proteins
YJL225c		strong similarity to subtelomeric encoded proteins
YJR161c		strong similarity to subtelomeric encoded proteins
YJR162c		strong similarity to subtelomeric encoded proteins
YKL223w		strong similarity to subtelomeric encoded proteins
YKL225w		strong similarity to subtelomeric encoded proteins
YKR106w		strong similarity to subtelomeric encoded proteins
YLL066c		strong similarity to subtelomeric encoded proteins
YLL067c		strong similarity to subtelomeric encoded proteins
YLR462w		strong similarity to subtelomeric encoded proteins
YLR463c		strong similarity to subtelomeric encoded proteins
YLR464w		strong similarity to subtelomeric encoded proteins
YLR466w		strong similarity to subtelomeric encoded proteins
YLR467w		strong similarity to subtelomeric encoded proteins
YML132w		strong similarity to subtelomeric encoded proteins
YNL336w		strong similarity to subtelomeric encoded proteins
YNL337w		strong similarity to subtelomeric encoded proteins
YNL338w		strong similarity to subtelomeric encoded proteins
YNL339c		strong similarity to subtelomeric encoded proteins
YNR077c		strong similarity to subtelomeric encoded proteins
YOL158c		strong similarity to subtelomeric encoded proteins
YPL282c		strong similarity to subtelomeric encoded proteins
YPL283c		strong similarity to subtelomeric encoded proteins
YPR202w		strong similarity to subtelomeric encoded proteins
YPR203w		strong similarity to subtelomeric encoded proteins
YPR204w		strong similarity to subtelomeric encoded proteins
YNR075w	*EDL1*	strong similarity to subtelomeric encoded proteins
YER042w		strong similarity to transcription factors and peptide methionine sulphoxide reductases
YJL186w		strong similarity to Ttp1p
YEL041w		strong similarity to Utr1p
YCR063w		strong similarity to *Xenopus* G10 and human edg-2 protein
YAR027w	*FUN55*	strong similarity to YAR028w, YCR007c, YGL053w, YAR031w, FUN59p and YGL051w
YAR029w	*FUN57*	strong similarity to YAR031w, YGL053w, Fun55p, Fun59p and YGL051w
YAR033w	*FUN59*	strong similarity to YGL051w, YGL053w, YAR031w, Fun55p, YAR028w and YCR007c
YAR031w		strong similarity to YGL053w, Fun59p, YGL051w, Fun55p, YAR028w and YCR007c
YIL102c		strong similarity to YIL014c-a
YBR025c		strong similarity to Ylf1p
YKL065c		strong similarity to YMR040w
YOL112w		strong similarity to YNL293w, similarity to Mic1p and human transforming protein tre-2
YBL106c		strong similarity to YPR032w
YLR045c	*STU2*	suppressor of a cs tubulin mutation
YER120w	*SCS2*	suppressor of an inositol auxotrophic and a choline sensitive mutant
YCR044c		suppressor of *cdc1-1* ts growth defect
YGL083w	*SCY1*	suppressor of GTPase mutant
YDR510w	*SMT3*	suppressor of *mif2* temperature-sensitive mutation
YKL124w	*SSH4*	suppressor of *shr3*
YLR197w	*SIK1*	suppressor of toxicity of Gal4-IKB
YOL102c	*TPT1*	tRNA 2'-phosphotransferase
YIL080w		Ty3-2 orf C fragment
YBR015c	*TTP1*	type II membrane protein
YBR066c		weak similarity to *A. niger* carbon catabolite repressor protein
YKL071w		weak similarity to *A. parasiticus* nor-1 protein
YJL126w		weak similarity to *A. thaliana* nitrilase 3
YCR079w		weak similarity to *A. thaliana* protein phosphatase 2C
YHR143w		weak similarity to a-agglutinin core protein AGA1
YOR353c		weak similarity to adenylate cyclases
YER158c		weak similarity to Afr1p
YBR074w		weak similarity to aminopeptidase Y
YCR051w		weak similarity to ankyrins
YNR039c		weak similarity to *Anopheles* mitochondrial NADH dehydrogenase subunit 2
YMR152w		weak similarity to AST1 and AST2 protein
YJL109c		weak similarity to ATPase Drs2p
YIR002c		weak similarity to ATP-dependent RNA helicases
YMR211w		weak similarity to β tubulins
YEL040w	*UTR2*	weak similarity to *B. subtilis* 1,3-1,4-– glucanase
YNL203c		weak similarity to *B. subtilis* CDPdiacylglycerol-serine O-phosphatidyltransferase
YDR336w		weak similarity to *B. subtilis* hypothetical protein X
YOR111w		weak similarity to *B. subtilis* maf protein
YNR074c		weak similarity to *B. subtilis* nitrite reductase (nirB)
YNR004w		weak similarity to bovine interferon γ
YNL022c		weak similarity to *C. burnetii* FMU protein
YGL246c		weak similarity to *C. elegans* dom-3 protein
YKR071c		weak similarity to *C. elegans* hypothetical protein
YNL207w		weak similarity to *C. elegans* hypothetical protein ZK632.3
YLR242c		weak similarity to *C. elegans* R05H5.5 protein and *T. borreli* apocytochrome b

YKL037w		weak similarity to *C. elegans* ubc-2 protein
YHR012w	*PEP11*	weak similarity to *C. elegans* Z47357_A ZK1128.1
YJR024c		weak similarity to *C. elegans* Z49131_E ZC373.5 protein
YBR086c		weak similarity to calcium and sodium channel proteins
YGR225w		weak similarity to Cdc20p
YNR051c		weak similarity to chicken nucleolin
YMR272c		weak similarity to cytochrome b5
YEL045c		weak similarity to cytochrome c oxidase III of *T. brucei* kinetoplast
YHR142w		weak similarity to cytochrome c oxidases
YDL035c		weak similarity to *D. discoideum* protein tyrosine phosphatase
YGL242c		weak similarity to *D. melanogaster* ANK protein
YPR200c		weak similarity to *D. melanogaster* cdc25 protein, and similarity to hypothetical protein YGR203w
YHL041w		weak similarity to *D. melanogaster* hypothetical protein 6
YOR022c		weak similarity to *D. melanogaster* probable Ca^{2+} transporter rdgB
YPL229w		weak similarity to *D. melanogaster* transcription factor shn
YGL185c		weak similarity to dehydrogenases
YLR222c		weak similarity to Dip2p
YER041w		weak similarity to DNA repair protein Rad2p
YOR032c		weak similarity to DNA-binding proteins
YJL162c		weak similarity to dnaJ proteins
YBR220c		weak similarity to *E. coli* ampG protein
YNL217w		weak similarity to *E. coli* bis(5'-nucleosyl)-tetraphosphatase
YER126c		weak similarity to *E. coli* colicin N
YGL136c		weak similarity to *E. coli* ftsJ protein
YKL094w	*YJU3*	weak similarity to *E. coli* hypothetical protein
YMR155w		weak similarity to *E. coli* hypothetical protein f402
YER152c		weak similarity to *E. coli* hypothetical protein f470
YJR019c		weak similarity to *E. coli* thioesterase II
YPR067w		weak similarity to *F. alni* nitrogen fixation protein
YDR063w		weak similarity to glia maturation factor β
YCL028w		weak similarity to glutenins, high molecular weight subunit
YPL206c		weak similarity to glycerophosphoryl diester phosphodiesterases
YOR272w		weak similarity to GTP-binding protein β subunits
YAL048c		weak similarity to GTP-binding proteins
YBR175w		weak similarity to GTP-binding proteins
YPL093w		weak similarity to GTP-binding proteins
YGL067w		weak similarity to *H. influenzae* hypothetical protein
YLR165c		weak similarity to *H. influenzae* hypothetical protein HI0176
YLR239c		weak similarity to *H. influenzae* lipoate biosynthesis protein B
YNR062c		weak similarity to *H. influenzae* L-lactate permease (lctP) homologue
YNL176c		weak similarity to Hkr1p
YBL032w		weak similarity to hnRNP complex protein homologue YBR233w
YER033c		weak similarity to human BRCA2 early onset breast cancer gene
YIL036w		weak similarity to human cAMP responce element-binding protein
YJL148w		weak similarity to human chromatin assembly factor I
YDR030c		weak similarity to human CSA protein
YGL243w		weak similarity to human double-stranded RNA adenosine deaminase
YJL091c		weak similarity to human G protein-coupled receptor
YER063w		weak similarity to human heterogeneous ribonuclear particle protein U
YJR002w		weak similarity to human kinesin-related protein CENP-E
YMR029c		weak similarity to human nuclear autoantigen
YCL045c		weak similarity to human ORF
YJL057c		weak similarity to human P1/eIF-2a protein kinase
YNR008w		weak similarity to human phosphatidylcholine-sterol O-acyltransferase
YJL132w		weak similarity to human phospholipase D
YLL037w		weak similarity to human platelet-activating factor receptor
YHR090c		weak similarity to human retinoblastoma binding protein 2
YOR064c		weak similarity to human retinoblastoma binding protein 2
YMR131c		weak similarity to human retinoblastoma-binding protein
YLR272c		weak similarity to hypothetical human ORF
YDL111c		weak similarity to hypothetical human protein
YCR059c		weak similarity to hypothetical protein YDL177c
YNR061c		weak similarity to hypothetical protein YDL218w
YOR004w		weak similarity to hypothetical protein YDR339c
YMR010w		weak similarity to hypothetical protein YDR352w
YGR223c		weak similarity to hypothetical protein YFR021w
YGR095c		weak similarity to hypothetical protein YGR195w
YHR160c		weak similarity to hypothetical protein YGR239c
YGR239c		weak similarity to hypothetical protein YHR160c
YMR299c		weak similarity to hypothetical protein YJL062w
YKL041w		weak similarity to hypothetical protein YKL002w
YMR124w		weak similarity to hypothetical protein YLR031w
YPL109c		weak similarity to hypothetical protein YLR253w
YBR168w		weak similarity to hypothetical protein YLR324w
YNR014w		weak similarity to hypothetical protein YMR206w
YER186c		weak similarity to hypothetical protein YMR316w
YJR129c		weak similarity to hypothetical protein YNL024c
YJL016w		weak similarity to hypothetical protein YNL278w and YLR187w
YMR206w		weak similarity to hypothetical protein YNR014w
YDL218w		weak similarity to hypothetical protein YNR061c
YDR339c		weak similarity to hypothetical protein YOR004w
YLR253w		weak similarity to hypothetical protein YPL109c
YPR151c		weak similarity to hypothetical protein YPL159c
YPL159c		weak similarity to hypothetical protein YPR151c
YGR126w		weak similarity to hypothetical protein YPR156c
YLR391w		weak similarity to hypothetical proteins YAR068w and YHR214w-a
YNL024c		weak similarity to hypothetical proteins YBR271w and YJR129c
YAL018c		weak similarity to hypothetical proteins YOL047c and YOL048c
YDR352w		weak similarity to hypothetical proteins YOL092w, YBR147w and YMR010w
YDR517w		weak similarity to hypothetical *S. pombe* protein
YCR013c		weak similarity to *M. leprae* B1496_F1_41 protein
YPL273w		weak similarity to *M. leprae* metH2 protein, and strong similarity to hypothetical protein YLL062c
YEL043w		weak similarity to Mad1p
YBR186w		weak similarity to members of CDC48/PAS1/SEC18 family of ATPases
YFL046w		weak similarity to middle part of *C. elegans* myosin heavy chain A
YOR350c	*MNE1*	weak similarity to mitochondrial *L. illustris* cytochrome oxidase I
YMR111c		weak similarity to MSN1 protein
YMR172w		weak similarity to MSN1 protein
YDL223c		weak similarity to mucin
YJL036w		weak similarity to Mvp1p
YNL063w		weak similarity to *Mycoplasma* protoporphyrinogen oxidase
YLR309c	*IMH1*	weak similarity to myosin heavy chains
YBR156c		weak similarity to myosins
YAL022c	*FUN26*	weak similarity to Na^+/H^+ antiporter
YDR413c		weak similarity to NADH dehydrogenase
YKR030w		weak similarity to NADH dehydrogenases
YPR174c		weak similarity to Nbp1p
YKR075c		weak similarity to negative regulator Srn1p/Hex2p
YCR047c		weak similarity to N-methyltransferases
YJL131c		weak similarity to non-epidermal *Xenopus* keratin, type I
YHL024w		weak similarity to nuclear protein NOP4
YLR126c		weak similarity to *P. aeruginosa* anthranilate synthase component II
YHL021c		weak similarity to *P. aeruginosa* γ-butyrobetaine hydroxylase
YMR009w		weak similarity to *P. aeruginosa* regulatory protein mmsR
YGR276c		weak similarity to *P. troglodytes* GOR protein
YER059w		weak similarity to Pho80p
YOR281c		weak similarity to phosducins
YMR221c		weak similarity to photosystem II protein D2
YBR094w		weak similarity to pig tubulin-tyrosine ligase
YOR287c		weak similarity to PITSLRE protein kinase isoforms
YBR151w		weak similarity to potato sucrose cleavage protein
YML050w		weak similarity to potato sucrose cleavage protein
YGR262c		weak similarity to protein kinases
YPR106w		weak similarity to protein kinases
YNR022c		weak similarity to protein phosphatases
YBR276c		weak similarity to protein-tyrosine-phosphatase
YMR241w		weak similarity to putative carrier protein RIM2
YJR044c		weak similarity to putative transport protein YKR103w
YBR103w		weak similarity to Pwp2p
YMR093w		weak similarity to Pwp2p
YNR064c		weak similarity to *R. capsulatus* bchO protein
YEL018w		weak similarity to Rad50p
YGL244w		weak similarity to Rad50p
YHR022c		weak similarity to RAS-related protein
YLR351c		weak similarity to rat β-alanine synthase
YCR082w		weak similarity to Rbk1p
YOR246c		weak similarity to reductases
YJL012c		weak similarity to regulatory protein PHO81
YDL114w		weak similarity to *Rhizobium* nodulation protein nodG
YGR068c		weak similarity to Rod1p
YKL107w		weak similarity to *S. antibioticus* probable oxidoreductase
YER093c		weak similarity to *S. epidermidis* PepB protein
YMR065w		weak similarity to *S. pombe* hypothetical protein SPAC13C5.03
YGR212w		weak similarity to *S. pombe* hypothetical protein SPAC18B11.03c
YER127w		weak similarity to *S. pombe* hypothetical protein SPAC18B11.06
YBR271w		weak similarity to *S. pombe* uvi22 protein and hypothetical protein YNL024c
YLR311c		weak similarity to *S. tarentolae* cryptogene protein G4
YLR380w		weak similarity to Sec14p
YNL231c		weak similarity to Sec14p
YJL123c		weak similarity to Sec7p
YKL055c		weak similarity to short-chain alcohol dehydrogenases
YNR030w		weak similarity to Smp3p
YDR486c		weak similarity to Snf7p
YEL015w		weak similarity to Spa2p
YHR177w		weak similarity to Spombe pac2 protein
YBR155w		weak similarity to stress-induced Sti1p
YJR101w		weak similarity to superoxide dismutases
YBR099c		weak similarity to *T. brucei* mitochondrion hypothetical protein 6
YJL145w		weak similarity to *T. pacificus* retinal-binding protein
YJL204c		weak similarity to Tor2p
YER045c		weak similarity to transcription factor Sko1p
YDR520c		weak similarity to transcription factors
YHR063c		weak similarity to translational activator *CBS2*
YGL004c		weak similarity to Tup1p
YJR046w		weak similarity to *Xenopus* vimentin 4
YOL031c		weak similarity to *Y. lipolytica* Sls1 protein
YLL056c		weak similarity to *Y. pseudotuberculosis* CDP-3,6-dideoxy-D-glycero-L-glycero-4-hexulose-5-epimerase
YCL063w		weak similarity to yeast translation regulator Gcd6p
YGR110w		weak similarity to YLR099c and YDR125c
YDR090c		weak similarity to Yro2p
YIL044c		weak similarity to zinc-finger protein GCS1
YLR040c		weak similartity to hypothetical protein YIL011w
YNL212w		weak simlarity to *C. cardunculus* cypro4 protein