

Table S6. All over-represented functional categories of target genes for each TF examined in this study.

Enriched functional annotations for each TF based on the top 200 predicted target genes.

pval = significance of this functional enrichment within target gene set

Bonfp = Bonferroni corrected significance of functional enrichment within target gene set.

Aft1	n=200		
Source	Annotation	pval	Bonfp
GO Molecular Function	heavy metal ion porter [GO:0005373]	7.98E-13	1.10E-09
GO Molecular Function	heavy metal ion transporter [GO:0015076]	1.55E-12	2.14E-09
GO Molecular Function	iron transporter [GO:0005381]	3.99E-11	5.50E-08
PFam-A Domains	PF01794 (Ferric_reduct)	1.04E-09	1.23E-06
GO Biological Process	iron-siderochrome transport [GO:0015892]	9.82E-10	1.35E-06
GO Biological Process	siderochrome transport [GO:0015891]	9.82E-10	1.35E-06
GO Molecular Function	ferric-chelate reductase [GO:0000293]	6.69E-09	9.21E-06
GO Biological Process	heavy metal ion transport [GO:0006823]	1.03E-08	1.43E-05
GO Molecular Function	porter [GO:0015291]	1.08E-08	1.48E-05
GO Molecular Function	electrochemical potential-driven transporter [GO:0015290]	1.08E-08	1.48E-05
MIPS Functional Classification	ionic homeostasis	7.40E-08	1.92E-05
GO Biological Process	transition metal transport [GO:0000041]	1.59E-08	2.20E-05
MIPS Functional Classification	homeostasis of cations	1.19E-07	3.07E-05
GO Molecular Function	ion transporter [GO:0015075]	4.44E-08	6.12E-05
GO Biological Process	heavy metal ion homeostasis [GO:0030006]	5.89E-08	8.12E-05
GO Molecular Function	cation transporter [GO:0008324]	1.03E-07	0.00014199
GO Biological Process	metal ion transport [GO:0030001]	1.44E-07	0.00019841
Proteome Localization--Predicted+Obsen2		0.00011581	0.00046322
GO Biological Process	copper ion transport [GO:0006825]	7.72E-07	0.0010653
GO Biological Process	metal ion homeostasis [GO:0006875]	8.42E-07	0.00116259
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	9.96E-06	0.00189206
GO Biological Process	iron homeostasis [GO:0006879]	2.41E-06	0.00333113
MIPS Functional Classification	REGULATION OF / INTERACTION WITH CELLULAR ENVIRONMENT	1.53E-05	0.00397065
MIPS Functional Classification	TRANSPORT FACILITATION	1.65E-05	0.0042705
GO Biological Process	iron transport [GO:0006826]	3.58E-06	0.00493495
MIPS Functional Classification	ion transporters	3.17E-05	0.00822069

Published Complexes	Bassler et al. (2001) - Mol Cell 8:517-	0.00143298	0.01003086
MDS Proteomics Complexes	YDR328C (SKP1)	3.27E-05	0.0161103
MIPS Functional Classification	detoxification	8.69E-05	0.02251617
MIPS Functional Classification	cation transporters	0.00011795	0.03054827
GO Molecular Function	carrier [GO:0005386]	4.48E-05	0.06171673
GO Biological Process	ion transport [GO:0006811]	4.75E-05	0.06561845
GO Biological Process	cation transport [GO:0006812]	7.39E-05	0.10203527
GO Biological Process	cation homeostasis [GO:0030003]	9.41E-05	0.12988256
MIPS Functional Classification	drug transporters	0.00073373	0.19003711
GO Biological Process	ion homeostasis [GO:0006873]	0.00027919	0.3852753
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00207705	0.3946395
MIPS Phenotypes	Stress response defects	0.00245583	0.4420494
SMART Domains	TRANS	0.00152928	0.44960832
MIPS Functional Classification	allantoin and allantoate transporters	0.00233288	0.60421592
Cellzome Complexes	YNL061W (NOP2)	0.00172766	0.79299594
MIPS Protein Classes	Histones	0.00437089	0.8304691
GO Biological Process	homeostasis [GO:0019725]	0.0007653	>0.999
GO Molecular Function	transporter [GO:0005215]	0.00161185	>0.999
GO Biological Process	regulation of transcription from Pol II promoter [GO:0006357]	0.00183251	>0.999
Cellzome Complexes	YBR135W (CKS1)	0.00233288	>0.999
MDS Proteomics Complexes	YBR217W (APG12)	0.00251429	>0.999
PFam-A Domains	PF00125 (histone)	0.00325479	>0.999
GO Molecular Function	oxidoreductase [GO:0016491]	0.0034766	>0.999
GO Cellular Component	plasma membrane [GO:0005886]	0.00434988	>0.999
Cellzome Complexes	YMR308C (PSE1)	0.00437089	>0.999
GO Cellular Component	endosome [GO:0005768]	0.0046866	>0.999
Aro80	n=200		
Source	Annotation	pval	Bonfp
Deletions Consortium (Essentiality, Mo	Morphology - WT	3.23E-05	0.00035521
MIPS Functional Classification	METABOLISM	2.72E-05	0.00705141
MIPS Functional Classification	C-compound and carbohydrate metabolism	4.50E-05	0.01165259
MIPS Protein Complexes	Nucleosomal protein complex	6.37E-05	0.02007325
MIPS Phenotypes	Silencing mutants	0.00013224	0.02380266

MIPS Phenotypes	Transcriptional mutants	0.00013304	0.02394666
MIPS Functional Classification	ENERGY	0.00013942	0.03610874
Proteome Localization--Observed	cell periphery	0.00403694	0.04440634
MIPS Protein Classes	Histones	0.00027852	0.05291785
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00056067	0.10652768
GO Cellular Component	nucleosome [GO:0005718]	0.00040738	0.13443639
MIPS Functional Classification	C-compound and carbohydrate utilization	0.00061489	0.15925677
MIPS Phenotypes	other transcriptional mutants	0.00106656	0.1919808
PFam-A Domains	PF00125 (histone)	0.00018176	0.21538679
MIPS Functional Classification	TRANSPORT FACILITATION	0.00089336	0.23137895
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	0.00024113	0.3327594
GO Cellular Component	chromatin [GO:0005717]	0.00115248	0.3803184
GO Biological Process	hexose transport [GO:0008645]	0.00053221	0.73444704
GO Biological Process	monosaccharide transport [GO:0015749]	0.00053221	0.73444704
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00316469	0.81965471
GO Molecular Function	transporter [GO:0005215]	0.00070106	0.96535687
GO Molecular Function	glucose transporter [GO:0005355]	0.00172766	>0.999
GO Biological Process	TCA intermediate metabolism [GO:0006100]	0.00393128	>0.999
GO Biological Process	gluconeogenesis [GO:0006094]	0.00393128	>0.999
PFam-A Domains	PF00501 (AMP-binding)	0.00233288	>0.999
GO Biological Process	organic acid metabolism [GO:0006082]	0.00085275	>0.999
GO Biological Process	carbohydrate transport [GO:0008643]	0.00234057	>0.999
GO Molecular Function	monosaccharide transporter [GO:0015145]	0.00267631	>0.999
MIPS Functional Classification	transcriptional control	0.00467695	>0.999
GO Molecular Function	mannose transporter [GO:0015578]	0.0010418	>0.999
GO Molecular Function	carbon-carbon lyase [GO:0016830]	0.00099658	>0.999
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.0022495	>0.999
GO Biological Process	amino acid metabolism [GO:0006520]	0.00493696	>0.999
GO Molecular Function	hexose transporter [GO:0015149]	0.00267631	>0.999
GO Biological Process	carboxylic acid metabolism [GO:0019752]	0.00085275	>0.999
Asg1	n=195		
Source	Annotation	pval	Bonfp
MIPS Protein Classes	Transcription factors	1.21E-05	0.00230088

MIPS Functional Classification	glyoxylate cycle	1.30E-05	0.00336371
Deletions Consortium (Essentiality, Morphology - WT)	Morphology - WT	0.00031571	0.00347283
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	2.38E-05	0.0045246
GO Biological Process	carbohydrate metabolism [GO:0005975]	1.24E-05	0.01715823
MIPS Functional Classification	drug transporters	8.13E-05	0.02106123
MIPS Functional Classification	TRANSPORT FACILITATION	9.07E-05	0.02349495
PFam-A Domains	PF00083 (sugar_tr)	3.08E-05	0.03645688
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	3.08E-05	0.04245611
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.00018236	0.04723098
MIPS Subcellular Localization	cytoplasm	0.00128963	0.05416446
MIPS Functional Classification	METABOLISM	0.00038223	0.09899835
GO Biological Process	alcohol metabolism [GO:0006066]	7.86E-05	0.10848304
MIPS Phenotypes	other carbohydrate and lipid biosynthesis defects	0.00075055	0.13509972
GO Biological Process	hexose metabolism [GO:0019318]	0.00012556	0.17327832
MIPS Protein Classes	Cys6 cysteine-zinc cluster	0.0010344	0.196536
MIPS Functional Classification	ENERGY	0.00079423	0.20570479
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00147667	0.2805673
MIPS Protein Classes	ABC transporter	0.00178987	0.3400753
GO Biological Process	monosaccharide metabolism [GO:0005996]	0.00025593	0.35318754
SMART Domains	GAL4	0.00129939	0.38202066
MIPS Functional Classification	ABC transporters	0.00151911	0.39344949
MIPS Functional Classification	transcriptional control	0.00153239	0.39688901
MIPS Phenotypes	Carbohydrate and lipid biosynthesis defects	0.00311601	0.5608818
MIPS Functional Classification	mRNA synthesis	0.00356352	0.92295168
GO Biological Process	carboxylic acid metabolism [GO:0019752]	0.00071097	0.98114412
GO Biological Process	organic acid metabolism [GO:0006082]	0.00071097	0.98114412
Bas1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	amino acid metabolism	1.57E-13	4.06E-11
GO Biological Process	amino acid metabolism [GO:0006520]	5.59E-11	7.72E-08
MIPS Functional Classification	amino acid biosynthesis	6.12E-10	1.59E-07
MIPS Functional Classification	purine ribonucleotide metabolism	7.18E-10	1.86E-07
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	2.06E-10	2.84E-07

GO Biological Process	amine metabolism [GO:0009308]	2.72E-10	3.75E-07
MIPS Functional Classification	METABOLISM	2.36E-09	6.10E-07
GO Biological Process	purine base metabolism [GO:0006144]	1.05E-09	1.45E-06
GO Biological Process	amino acid biosynthesis [GO:0008652]	1.44E-08	1.99E-05
GO Biological Process	amine biosynthesis [GO:0009309]	3.81E-08	5.25E-05
GO Biological Process	nucleobase metabolism [GO:0009112]	1.17E-07	0.00016165
GO Biological Process	aromatic compound metabolism [GO:0006725]	2.13E-07	0.00029447
MDS Proteomics Complexes	YDR388W (RVS167)	8.92E-07	0.00043956
GO Molecular Function	enzyme [GO:0003824]	4.37E-07	0.00060225
GO Molecular Function	ligase [GO:0016874]	4.60E-07	0.00063402
MIPS Functional Classification	nucleotide metabolism	3.99E-06	0.00103358
MIPS Subcellular Localization	mitochondria	9.10E-05	0.0038201
GO Biological Process	heterocycle metabolism [GO:0046483]	3.24E-06	0.00447614
GO Biological Process	one-carbon compound metabolism [GO:0006730]	3.58E-06	0.00493495
GO Biological Process	purine base biosynthesis [GO:0009113]	1.44E-05	0.01982204
GO Biological Process	cell growth and/or maintenance [GO:0008151]	1.73E-05	0.02386268
GO Cellular Component	mitochondrion [GO:0005739]	7.28E-05	0.02401469
GO Biological Process	biosynthesis [GO:0009058]	1.77E-05	0.02439523
GO Biological Process	sulfur amino acid metabolism [GO:0000096]	2.61E-05	0.03597094
Proteome Localization--Observed	cyto	0.00464306	0.05107366
MIPS Functional Classification	mitochondrion	0.00022648	0.05865884
GO Biological Process	serine family amino acid metabolism [GO:0009069]	7.28E-05	0.10051782
MIPS Subcellular Localization	mitochondrial matrix	0.00353338	0.14840196
MIPS Functional Classification	amino acid transport	0.0006626	0.17161236
GO Molecular Function	oxidoreductase [GO:0016491]	0.00015585	0.21460545
MIPS Functional Classification	nitrogen and sulfur metabolism	0.00121124	0.31371116
GO Biological Process	nucleobase biosynthesis [GO:0046112]	0.00025409	0.35064144
MIPS Phenotypes	Methionine auxotrophy (Met)	0.00233288	0.4199184
GO Biological Process	methionine metabolism [GO:0006555]	0.00033007	0.45550074
MIPS Functional Classification	respiration	0.00184928	0.47896352
GO Biological Process	sulfur metabolism [GO:0006790]	0.00042635	0.58835886
GO Cellular Component	cytoplasm [GO:0005737]	0.00184582	0.6091206
GO Molecular Function	ion transporter [GO:0015075]	0.00337119	>0.999
GO Molecular Function	other carbon-nitrogen ligase [GO:0016883]	0.00233288	>0.999

GO Molecular Function	amino acid transporter [GO:0015171]	0.00468663	>0.999
GO Molecular Function	electron transporter [GO:0005489]	0.00468663	>0.999
GO Biological Process	branched chain family amino acid biosynthesis [GO:0009082]	0.00437089	>0.999
GO Biological Process	aspartate family amino acid metabolism [GO:0009066]	0.00173371	>0.999
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	0.00467495	>0.999
GO Biological Process	ion transport [GO:0006811]	0.00090342	>0.999
GO Molecular Function	transporter [GO:0005215]	0.00353451	>0.999
GO Biological Process	metabolism [GO:0008152]	0.00149518	>0.999
GO Molecular Function	glycine hydroxymethyltransferase [GO:0004372]	0.00101923	>0.999
GO Biological Process	branched chain family amino acid metabolism [GO:0009081]	0.00078341	>0.999
GO Biological Process	energy pathways [GO:0006091]	0.00467495	>0.999
GO Biological Process	serine family amino acid biosynthesis [GO:0009070]	0.00101923	>0.999
Cbf1	n=200		
Source	Annotation	pval	Bonfp
GO Molecular Function	ubiquinol-cytochrome c reductase [GO:0008121]	0.00233288	>0.999
GO Cellular Component	cell [GO:0005623]	1.08E-05	0.00356037
GO Cellular Component	respiratory chain complex III (sensu Eukarya) [GO:0005750]	0.00325479	>0.999
GO Cellular Component	respiratory chain complex III [GO:0045275]	0.00325479	>0.999
MIPS Phenotypes	Methionine auxotrophy (Met)	0.00233288	0.4199184
GO Molecular Function	electron transporter [GO:0005489]	0.00053221	0.73285042
GO Biological Process	sulfur utilization [GO:0006791]	1.63E-06	0.00225164
GO Biological Process	sulfur metabolism [GO:0006790]	1.00E-14	1.38E-11
GO Biological Process	aspartate family amino acid metabolism [GO:0009066]	3.61E-05	0.04982752
GO Biological Process	biosynthesis [GO:0009058]	0.00143385	>0.999
MDS Proteomics Complexes	YDR523C (SPS1)	0.00135467	0.66785231
SMART Domains	STYKc	0.00173371	0.50971074
GO Molecular Function	transferase [GO:0016740]	0.00103	>0.999
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	0.00051343	0.70853616
GO Molecular Function	primary active transporter [GO:0015399]	0.00216403	>0.999
GO Molecular Function	transporter [GO:0005215]	0.00011558	0.15915779
GO Biological Process	metabolism [GO:0008152]	3.49E-05	0.04821941
GO Molecular Function	kinase [GO:0016301]	0.00399507	>0.999
Yeast Two Hybrid - Ito (core)	YER081W (SER3)	0.0029765	>0.999

GO Cellular Component	intracellular [GO:0005622]	7.66E-05	0.02529047
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	1.26E-09	1.74E-06
GO Biological Process	amine biosynthesis [GO:0009309]	4.28E-05	0.05904689
MIPS Functional Classification	amino acid metabolism	6.00E-12	1.55E-09
MIPS Functional Classification	amino acid biosynthesis	8.53E-11	2.21E-08
MIPS Functional Classification	nitrogen and sulfur metabolism	0.00121124	0.31371116
PFam-A Domains	PF03105 (SPX)	0.00325479	>0.999
MIPS Functional Classification	METABOLISM	9.82E-08	2.54E-05
GO Cellular Component	cytoplasm [GO:0005737]	0.00184582	0.6091206
GO Molecular Function	carrier [GO:0005386]	0.00170709	>0.999
MIPS Functional Classification	regulation of amino acid metabolism	6.40E-05	0.01657787
PFam-A Domains	PF01053 (Cys_Met_Meta_PP)	0.00159254	>0.999
SMART Domains	BRLZ	0.0010418	0.3062892
GO Molecular Function	oxidoreductase [GO:0016491]	0.00046798	0.64440158
GO Biological Process	cell growth and/or maintenance [GO:0008151]	2.06E-06	0.00284886
MDS Proteomics Complexes	YNL311C	0.00101352	0.49966536
GO Molecular Function	enzyme [GO:0003824]	2.00E-07	0.00027584
GO Biological Process	amine metabolism [GO:0009308]	1.63E-09	2.25E-06
GO Biological Process	amino acid metabolism [GO:0006520]	3.68E-10	5.08E-07
GO Biological Process	sulfur amino acid metabolism [GO:0000096]	2.59E-11	3.58E-08
GO Biological Process	energy pathways [GO:0006091]	0.00051343	0.70853616
GO Molecular Function	flavin-containing electron transporter [GO:0015933]	0.0010418	>0.999
MIPS Protein Classes	Leucine zipper factors	0.00172766	0.3282554
GO Biological Process	electron transport [GO:0006118]	0.00326287	>0.999
GO Biological Process	oxidative phosphorylation [GO:0006119]	0.0010418	>0.999
GO Biological Process	amino acid biosynthesis [GO:0008652]	2.20E-05	0.03033778
GO Biological Process	sulfate assimilation [GO:0000103]	1.63E-06	0.00225164
GO Biological Process	serine family amino acid biosynthesis [GO:0009070]	3.27E-05	0.04509578
GO Biological Process	sulfur amino acid biosynthesis [GO:0000097]	3.27E-05	0.04509578
GO Biological Process	methionine metabolism [GO:0006555]	1.65E-06	0.00228207
GO Biological Process	regulation of transcription from Pol II promoter [GO:0006357]	0.00183251	>0.999
GO Biological Process	serine family amino acid metabolism [GO:0009069]	3.86E-06	0.00532407
Cep3	n=200		

Source	Annotation	pval	Bonfp
MIPS Functional Classification	cell wall	1.47E-09	3.82E-07
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	2.98E-09	5.66E-07
MIPS Functional Classification	TRANSPORT FACILITATION	5.39E-06	0.00139691
GO Cellular Component	external protective structure [GO:0030312]	5.85E-06	0.0019311
GO Cellular Component	cell wall [GO:0005618]	5.85E-06	0.0019311
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	1.63E-06	0.00225164
MIPS Protein Classes	Histones	1.24E-05	0.00236406
PFam-A Domains	PF00125 (histone)	6.97E-06	0.00825587
MIPS Functional Classification	cellular import	7.15E-05	0.0185148
GO Molecular Function	asparaginase [GO:0004067]	1.44E-05	0.01977895
MIPS Protein Complexes	Nucleosomal protein complex	6.37E-05	0.02007325
GO Biological Process	response to starvation [GO:0009267]	2.08E-05	0.02867419
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	0.00011184	0.03690819
MIPS Functional Classification	plasma membrane	0.00015139	0.03921079
MIPS Phenotypes	Oxidizing agents	0.00044362	0.07985214
GO Cellular Component	extracellular [GO:0005576]	0.00030825	0.1017225
GO Cellular Component	nucleosome [GO:0005718]	0.00040738	0.13443639
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	0.00018176	0.25083018
GO Biological Process	response to stress [GO:0006950]	0.00018701	0.25807242
MIPS Protein Classes	Cys2His2 zinc-finger	0.00173371	0.3294049
MIPS Functional Classification	stress response	0.00132605	0.34344695
GO Molecular Function	monosaccharide transporter [GO:0015145]	0.00025409	0.34987918
GO Molecular Function	hexose transporter [GO:0015149]	0.00025409	0.34987918
GO Biological Process	amine catabolism [GO:0009310]	0.00025409	0.35064144
GO Biological Process	amino acid catabolism [GO:0009063]	0.00025409	0.35064144
GO Molecular Function	structural constituent of cell wall [GO:0005199]	0.00027852	0.38351516
GO Molecular Function	monocarboxylic acid transporter [GO:0008028]	0.00027852	0.38351516
PFam-A Domains	PF00107 (adh_zinc)	0.00042209	0.50017665
GO Cellular Component	plasma membrane [GO:0005886]	0.00156099	0.5151267
MIPS Functional Classification	chromosome	0.00251429	0.65120111
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	0.00212059	0.6997947
MDS Proteomics Complexes	YPR165W (RHO1)	0.00159254	0.78512222
GO Molecular Function	organic anion transporter [GO:0008514]	0.00057382	0.79015427

GO Biological Process	glutamine family amino acid metabolism [GO:0009064]	0.00062431	0.86154918
GO Molecular Function	transporter [GO:0005215]	0.00070106	0.96535687
Cha4	n=200		
Source	Annotation	pval	Bonfp
Proteome Localization--Predicted+Obs	cyt	0.00042782	0.00171128
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	9.96E-06	0.00189206
Proteome Localization--Observed	cyto	0.00057042	0.0062746
MIPS Functional Classification	METABOLISM	5.52E-05	0.01430491
GO Cellular Component	plasma membrane [GO:0005886]	4.66E-05	0.01538236
GO Molecular Function	monosaccharide transporter [GO:0015145]	1.88E-05	0.02587232
GO Molecular Function	hexose transporter [GO:0015149]	1.88E-05	0.02587232
SMART Domains	Aamy	0.00011184	0.03288184
MIPS Functional Classification	TRANSPORT FACILITATION	0.00013388	0.03467388
MIPS Functional Classification	plasma membrane	0.00015139	0.03921079
PFam-A Domains	PF00083 (sugar_tr)	3.76E-05	0.04454782
GO Biological Process	carbohydrate transport [GO:0008643]	3.31E-05	0.04566185
GO Biological Process	hexose transport [GO:0008645]	4.77E-05	0.06580627
GO Biological Process	monosaccharide transport [GO:0015749]	4.77E-05	0.06580627
GO Molecular Function	fructose transporter [GO:0005353]	4.98E-05	0.06863698
PFam-A Domains	PF00128 (alpha-amylase)	6.37E-05	0.07551365
GO Molecular Function	drug transporter [GO:0015238]	6.37E-05	0.08774877
GO Molecular Function	multidrug transporter [GO:0015239]	6.37E-05	0.08774877
GO Molecular Function	mannose transporter [GO:0015578]	7.28E-05	0.1002993
GO Biological Process	response to chemical substance [GO:0042221]	0.00011531	0.15912228
MIPS Functional Classification	drug transporters	0.00073373	0.19003711
GO Molecular Function	glucose transporter [GO:0005355]	0.00014246	0.19616054
GO Molecular Function	carbohydrate transporter [GO:0015144]	0.00020515	0.2824943
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.0014536	0.3764824
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00207705	0.3946395
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00316469	0.81965471
GO Molecular Function	ABC-type efflux porter [GO:0015427]	0.00059642	0.82127447
GO Molecular Function	galactose transporter [GO:0005354]	0.00059642	0.82127447
GO Biological Process	response to drug [GO:0042493]	0.0006626	0.91438248

PFam-A Domains	PF00005 (ABC_tran)	0.00271949	>0.999
GO Cellular Component	cytosolic ribosome (sensu Eukarya) [GO:0005830]	0.0030707	>0.999
MIPS Protein Complexes	Cytoplasmic ribosomes	0.00442721	>0.999
GO Molecular Function	transporter [GO:0005215]	0.00353451	>0.999
GO Biological Process	alcohol metabolism [GO:0006066]	0.00184928	>0.999
GO Molecular Function	alpha-glucosidase [GO:0004558]	0.00101923	>0.999
GO Molecular Function	carbohydrate kinase [GO:0019200]	0.0010418	>0.999
GO Molecular Function	O-acyltransferase [GO:0008374]	0.00325479	>0.999
GO Biological Process	amino acid metabolism [GO:0006520]	0.00493696	>0.999
Cup9	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	DNA synthesis and replication	0.0007653	0.19821218
SMART Domains	ZnF_GATA	0.00325479	0.95690826
Ecm22	n=198		
Source	Annotation	pval	Bonfp
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	5.66E-07	0.00078072
MIPS Functional Classification	glyoxylate cycle	1.38E-05	0.00357441
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.39E-05	0.00360344
MIPS Functional Classification	METABOLISM	1.97E-05	0.00510971
MIPS Functional Classification	ENERGY	3.98E-05	0.01032094
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00242093	0.02663023
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	3.67E-05	0.05061826
GO Biological Process	energy pathways [GO:0006091]	3.67E-05	0.05061826
MIPS Subcellular Localization	cytoplasm	0.00325132	0.13655544
MIPS Functional Classification	C-compound and carbohydrate utilization	0.00054262	0.14053832
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.00020471	0.28250256
MIPS Phenotypes	Methionine auxotrophy (Met)	0.00226655	0.407979
GO Cellular Component	cytoplasm [GO:0005737]	0.00133045	0.4390485
Cellzome Complexes	YAR003W (SWD1)	0.0009933	0.45592562
GO Biological Process	TCA intermediate metabolism [GO:0006100]	0.00040294	0.5560503
GO Cellular Component	cytosol [GO:0005829]	0.00175398	0.5788134
GO Biological Process	monosaccharide transport [GO:0015749]	0.00050819	0.70130496

GO Biological Process	hexose transport [GO:0008645]	0.00050819	0.70130496
GO Biological Process	glucose transport [GO:0015758]	0.00057905	0.7990821
MIPS Functional Classification	stress response	0.00345079	0.89375461
MIPS Protein Classes	Transcription factors	0.00482271	0.9163149
Fhl1	n=200		
Source	Annotation	pval	Bonfp
GO Biological Process	cell growth and/or maintenance [GO:0008151]	1.90E-08	2.62E-05
MIPS Functional Classification	METABOLISM	1.42E-05	0.00367283
GO Biological Process	regulation of cell cycle [GO:0000074]	4.04E-06	0.00557357
MIPS Functional Classification	C-compound and carbohydrate metabolism	7.97E-05	0.0206472
MIPS Functional Classification	SUBCELLULAR LOCALISATION	0.00010497	0.02718645
MIPS Functional Classification	C-compound and carbohydrate utilization	0.00017043	0.04414008
GO Molecular Function	enzyme [GO:0003824]	4.94E-05	0.06796239
MIPS Subcellular Localization	cytoplasm	0.00277226	0.11643492
MIPS Functional Classification	DNA synthesis and replication	0.00065379	0.16933161
MDS Proteomics Complexes	YHR135C (YCK1)	0.00037713	0.18592263
GO Cellular Component	cell [GO:0005623]	0.00056456	0.1863048
MIPS Phenotypes	paromomycin	0.00220143	0.3962574
GO Cellular Component	intracellular [GO:0005622]	0.00170569	0.5628777
MIPS Protein Classes	NPR/HAL5 family	0.00307287	0.5838453
SMART Domains	CYCLIN	0.00201145	0.5913663
PFam-A Domains	PF00682 (HMGL-like)	0.000562	0.66596882
MIPS Functional Classification	other intracellular transport activities	0.00287754	0.74528286
MIPS Protein Classes	Cyclins	0.00436031	0.8284589
MIPS Protein Complexes	Cdc28p complexes	0.00307287	0.96795405
GO Biological Process	pyruvate metabolism [GO:0006090]	0.00307287	>0.999
MIPS Functional Classification	deoxyribonucleotide metabolism	0.00412857	>0.999
Cellzome Complexes	YER120W (SCS2)	0.00307287	>0.999
GO Molecular Function	electron transporter [GO:0005489]	0.00436031	>0.999
GO Biological Process	regulation of CDK activity [GO:0000079]	0.00096582	>0.999
GO Biological Process	mitotic cell cycle [GO:0000278]	0.00156851	>0.999
GO Biological Process	cell cycle [GO:0007049]	0.00089137	>0.999
GO Biological Process	metabolism [GO:0008152]	0.00155404	>0.999

GO Biological Process	G2/M transition of mitotic cell cycle [GO:0000086]	0.00249012	>0.999
GO Biological Process	pyruvate dehydrogenase bypass [GO:0006087]	0.00307287	>0.999
PFam-A Domains	PF00134 (cyclin)	0.00125651	>0.999
Fkh1	n=199		
Source	Annotation	pval	Bonfp
GO Cellular Component	cytoskeleton [GO:0005856]	3.43E-09	1.13E-06
GO Cellular Component	spindle [GO:0005819]	4.06E-09	1.34E-06
GO Cellular Component	microtubule cytoskeleton [GO:0015630]	5.71E-09	1.88E-06
GO Cellular Component	spindle pole [GO:0030615]	2.03E-07	6.69E-05
MIPS Subcellular Localization	cytoskeleton	1.42E-05	0.00059457
MIPS Functional Classification	cell differentiation	8.49E-06	0.00219809
MIPS Functional Classification	fungus cell differentiation	8.49E-06	0.00219809
GO Cellular Component	microtubule organizing center [GO:0005815]	7.40E-06	0.00244365
GO Cellular Component	spindle pole body [GO:0005816]	7.40E-06	0.00244365
GO Cellular Component	kinesin [GO:0005871]	1.41E-05	0.00464647
MIPS Functional Classification	CELL FATE	2.68E-05	0.00692859
GO Cellular Component	microtubule associated protein [GO:0005875]	6.25E-05	0.02061929
GO Biological Process	cell cycle [GO:0007049]	1.72E-05	0.02370012
MIPS Subcellular Localization	tubulin cytoskeleton	0.0006476	0.02719924
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	9.02E-05	0.02978144
GO Cellular Component	cell wall [GO:0005618]	0.00014195	0.04684185
GO Cellular Component	external protective structure [GO:0030312]	0.00014195	0.04684185
Deletions Consortium (Essentiality, Mo	Morphology - Large	0.00449122	0.04940342
GO Cellular Component	spindle microtubule [GO:0005876]	0.00017827	0.05882745
GO Molecular Function	microtubule binding [GO:0008017]	4.87E-05	0.06700303
GO Molecular Function	microtubule motor [GO:0003777]	6.25E-05	0.08603868
GO Biological Process	mitotic anaphase B [GO:0000092]	6.25E-05	0.08622613
GO Cellular Component	extracellular [GO:0005576]	0.00029604	0.09769419
GO Cellular Component	microtubule [GO:0005874]	0.00032248	0.10641675
MIPS Functional Classification	cell cycle	0.00042306	0.1095715
MIPS Protein Complexes	Microtubules	0.00043187	0.13603874
MIPS Protein Complexes	Cytoskeleton	0.00045727	0.14404068
GO Biological Process	M phase [GO:0000279]	0.00011708	0.1615704

GO Cellular Component	bud neck [GO:0005935]	0.00055612	0.18351861
MIPS Functional Classification	cytokinesis (cell division)	0.00071459	0.18507752
GO Molecular Function	motor [GO:0003774]	0.00013912	0.19156824
MIPS Phenotypes	Spindle mutants	0.00117162	0.2108916
MIPS Phenotypes	Cell morphology and organelle mutants	0.00121123	0.2180214
MIPS Protein Complexes	Tubulin-associated motorproteins	0.00076874	0.24215373
SMART Domains	COIL	0.00112017	0.32932998
MIPS Functional Classification	cytoskeleton-dependent transport	0.00140129	0.36293411
MIPS Phenotypes	other cell cycle defects	0.00230036	0.4140648
GO Molecular Function	tubulin binding [GO:0015631]	0.00032248	0.44404808
MIPS Protein Complexes	Kinesin-related motorproteins	0.0015696	0.494424
GO Molecular Function	cytoskeletal protein binding [GO:0008092]	0.00038963	0.53651638
GO Biological Process	cytoskeleton organization and biogenesis [GO:0007010]	0.0003975	0.54854448
GO Cellular Component	bud [GO:0005933]	0.0017166	0.566478
MIPS Functional Classification	CELL CYCLE AND DNA PROCESSING	0.00237283	0.61456297
MIPS Functional Classification	centrosome	0.00266076	0.68913684
GO Cellular Component	actin cytoskeleton [GO:0015629]	0.00209099	0.6900267
MIPS Protein Classes	Protein Kinases	0.00386273	0.7339187
GO Cellular Component	site of polarized growth [GO:0030427]	0.0022424	0.739992
GO Cellular Component	site of polarized growth (sensu Saccharomyces) [GO:0000134]	0.0022424	0.739992
GO Cellular Component	site of polarized growth (sensu Fungi) [GO:0030483]	0.0022424	0.739992
GO Biological Process	cytokinesis [GO:0016288]	0.00054747	0.75551412
GO Biological Process	chromosome segregation [GO:0007059]	0.00055612	0.76744146
MIPS Phenotypes	Tubulin cytoskeleton mutants	0.00428518	0.7713324
MIPS Phenotypes	Bud localization	0.00458777	0.8257986
MIPS Protein Complexes	Spindle pole body (SPB)	0.00307352	0.9681588
Fkh2	n=200		
Source	Annotation	pval	Bonfp
GO Cellular Component	microtubule cytoskeleton [GO:0015630]	2.67E-06	0.00088006
GO Cellular Component	spindle [GO:0005819]	2.74E-06	0.00090546
MIPS Functional Classification	fungus cell differentiation	9.38E-06	0.00242879
MIPS Functional Classification	cell differentiation	9.38E-06	0.00242879
GO Cellular Component	kinesin [GO:0005871]	1.44E-05	0.00474005

MIPS Functional Classification	CELL FATE	2.95E-05	0.0076449
GO Cellular Component	cytoskeleton [GO:0005856]	3.00E-05	0.00988558
GO Cellular Component	microtubule organizing center [GO:0005815]	6.17E-05	0.02035645
GO Cellular Component	spindle pole body [GO:0005816]	6.17E-05	0.02035645
GO Cellular Component	microtubule associated protein [GO:0005875]	6.37E-05	0.02102912
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	9.41E-05	0.03105887
GO Cellular Component	spindle pole [GO:0030615]	0.00011771	0.03884331
MIPS Subcellular Localization	cytoskeleton	0.00103586	0.04350612
Proteome Localization--Predicted+Obs	nuc	0.011064	0.044256
GO Cellular Component	cell wall [GO:0005618]	0.00014841	0.04897464
GO Cellular Component	external protective structure [GO:0030312]	0.00014841	0.04897464
GO Molecular Function	microtubule binding [GO:0008017]	4.98E-05	0.06863698
GO Molecular Function	microtubule motor [GO:0003777]	6.37E-05	0.08774877
GO Biological Process	mitotic anaphase B [GO:0000092]	6.37E-05	0.08793995
GO Cellular Component	extracellular [GO:0005576]	0.00030825	0.1017225
MIPS Protein Complexes	Microtubules	0.00044362	0.13974125
MIPS Phenotypes	Spindle mutants	0.00119827	0.2156886
MIPS Protein Complexes	Tubulin-associated motorproteins	0.00078341	0.24677541
MDS Proteomics Complexes	YER177W (BMH1)	0.00078341	0.3862231
GO Molecular Function	tubulin binding [GO:0015631]	0.00033007	0.45451052
MIPS Protein Complexes	Kinesin-related motorproteins	0.00159254	0.5016501
MIPS Protein Complexes	Cytoskeleton	0.00212059	0.66798585
MIPS Functional Classification	centrosome	0.00271949	0.70434791
MIPS Protein Complexes	Spindle pole body (SPB)	0.00314095	0.98939925
Gal4	n=200		
Source	Annotation	pval	Bonfp
GO Biological Process	carbohydrate metabolism [GO:0005975]	2.89E-10	3.99E-07
Proteome Localization--Predicted+Obs	cyt	1.59E-06	6.36E-06
MIPS Functional Classification	C-compound and carbohydrate metabolism	7.29E-07	0.00018876
Proteome Localization--Observed	cell periphery	2.95E-05	0.00032411
MIPS Functional Classification	METABOLISM	1.26E-06	0.00032687
GO Biological Process	energy pathways [GO:0006091]	5.67E-07	0.00078295
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	5.67E-07	0.00078295

GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	6.26E-07	0.00086357
Proteome Localization--Observed	cyto	0.00017448	0.00191931
GO Biological Process	alcohol metabolism [GO:0006066]	3.52E-06	0.00485924
GO Biological Process	galactose metabolism [GO:0006012]	3.58E-06	0.00493495
GO Biological Process	hexose metabolism [GO:0019318]	3.82E-06	0.00527342
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	4.12E-05	0.00782321
MIPS Functional Classification	TRANSPORT FACILITATION	4.81E-05	0.01246238
GO Biological Process	monosaccharide metabolism [GO:0005996]	9.57E-06	0.01320599
MIPS Functional Classification	C-compound and carbohydrate utilization	7.74E-05	0.02003637
MIPS Functional Classification	ENERGY	0.00013942	0.03610874
MDS Proteomics Complexes	YBR055C (PRP6)	8.60E-05	0.04238587
PFam-A Domains	PF00083 (sugar_tr)	3.76E-05	0.04454782
GO Biological Process	glutamate biosynthesis [GO:0006537]	3.29E-05	0.04539179
GO Biological Process	TCA intermediate metabolism [GO:0006100]	3.56E-05	0.04915574
GO Biological Process	organic acid metabolism [GO:0006082]	3.59E-05	0.04948542
GO Biological Process	carboxylic acid metabolism [GO:0019752]	3.59E-05	0.04948542
GO Cellular Component	plasma membrane [GO:0005886]	0.00016108	0.05315772
GO Molecular Function	oxidoreductase [GO:0016491]	4.88E-05	0.06721646
MIPS Subcellular Localization	cytoplasm	0.00197337	0.08288154
GO Biological Process	cell growth and/or maintenance [GO:0008151]	6.30E-05	0.08696208
GO Biological Process	glutamate metabolism [GO:0006536]	7.28E-05	0.10051782
GO Biological Process	tricarboxylic acid cycle [GO:0006099]	7.28E-05	0.10051782
GO Cellular Component	cell [GO:0005623]	0.00062635	0.20669451
GO Cellular Component	intracellular [GO:0005622]	0.00066949	0.22093203
GO Cellular Component	cytoplasm [GO:0005737]	0.00067571	0.22298331
Cellzome Complexes	YDR148C (KGD2)	0.00101923	0.46782657
MDS Proteomics Complexes	YDR394W (RPT3)	0.00119827	0.59074711
GO Biological Process	glutamine family amino acid biosynthesis [GO:0009084]	0.00053221	0.73444704
MIPS Functional Classification	phosphate transport	0.00325479	0.84299061
MIPS Functional Classification	stress response	0.003762	0.974358
Gat1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	nitrogen and sulfur metabolism	5.21E-12	1.35E-09

MIPS Functional Classification	nitrogen and sulfur utilization	2.76E-11	7.16E-09
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	4.18E-06	0.00079474
Deletions Consortium (Essentiality, Morphology - WT)		8.41E-05	0.00092555
MIPS Functional Classification	amino acid degradation (catabolism)	6.38E-06	0.00165253
MIPS Functional Classification	METABOLISM	6.44E-06	0.00166668
GO Molecular Function	hydrolase [GO:0016787]	2.52E-06	0.00347184
GO Molecular Function	solute:cation symporter [GO:0015294]	2.56E-06	0.00353133
GO Molecular Function	symporter [GO:0015293]	5.01E-06	0.00689201
GO Biological Process	glutamine family amino acid metabolism [GO:0009064]	5.05E-06	0.00696863
MIPS Functional Classification	amino acid metabolism	3.25E-05	0.00842082
GO Molecular Function	asparaginase [GO:0004067]	1.10E-05	0.01513598
MIPS Subcellular Localization	vacuolar lumen	0.00048933	0.02055182
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	8.60E-05	0.02838799
GO Cellular Component	membrane [GO:0016020]	0.00019965	0.06588483
MIPS Functional Classification	plasma membrane	0.00025786	0.06678574
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	4.89E-05	0.06752478
MIPS Protein Classes	Cys4 zinc-fingers	0.00083754	0.15913241
PFam-A Domains	PF02133 (Transp_cyt_pur)	0.00014004	0.16594385
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	0.00014004	0.19325106
MIPS Functional Classification	TRANSPORT FACILITATION	0.00093696	0.24267264
GO Molecular Function	porter [GO:0015291]	0.00019802	0.27267629
GO Molecular Function	electrochemical potential-driven transporter [GO:0015290]	0.00019802	0.27267629
MIPS Functional Classification	mitochondrion	0.00134672	0.34880048
MIPS Functional Classification	nucleotide metabolism	0.00147343	0.38161837
GO Biological Process	response to starvation [GO:0009267]	0.00031492	0.43459236
MIPS Protein Classes	Proteases	0.00252671	0.4800749
MIPS Functional Classification	purine ribonucleotide metabolism	0.00201348	0.52149132
PFam-A Domains	PF00795 (CN_hydrolase)	0.00048933	0.57985487
MIPS Functional Classification	cellular import	0.00283479	0.73421061
SMART Domains	ZnF_GATA	0.00268719	0.79003386
GO Molecular Function	amino acid transporter [GO:0015171]	0.00368348	>0.999
GO Biological Process	amino acid catabolism [GO:0009063]	0.00209311	>0.999
GO Biological Process	amine catabolism [GO:0009310]	0.00209311	>0.999
GO Molecular Function	transporter [GO:0005215]	0.00338833	>0.999

GO Biological Process	amino acid and derivative metabolism [GO:0006519]	0.00477037	>0.999
GO Cellular Component	integral membrane protein [GO:0016021]	0.00485068	>0.999
GO Biological Process	amino acid transport [GO:0006865]	0.00435644	>0.999
GO Biological Process	nitrogen metabolism [GO:0006807]	0.00202619	>0.999
GO Biological Process	amino acid metabolism [GO:0006520]	0.00295681	>0.999
PFam-A Domains	PF00320 (GATA)	0.00361428	>0.999
GO Biological Process	catabolism [GO:0009056]	0.00232901	>0.999
GO Biological Process	glutamine family amino acid biosynthesis [GO:0009084]	0.00368348	>0.999
Gat3	n=197		
Source	Annotation	pval	Bonfp
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	2.27E-06	0.00075067
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	3.32E-06	0.00109515
GO Cellular Component	cell wall [GO:0005618]	4.95E-06	0.00163448
GO Cellular Component	external protective structure [GO:0030312]	4.95E-06	0.00163448
GO Cellular Component	extracellular [GO:0005576]	1.03E-05	0.0034054
GO Molecular Function	asparaginase [GO:0004067]	1.35E-05	0.01862475
GO Cellular Component	integral plasma membrane protein [GO:0005887]	9.61E-05	0.03170076
Proteome Localization--Observed	cell periphery	0.0037136	0.0408496
MIPS Functional Classification	cell wall	0.00017834	0.04619084
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	6.01E-05	0.08287259
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	0.00017142	0.23656098
GO Biological Process	response to starvation [GO:0009267]	0.00038451	0.5306169
Gat4	n=198		
Source	Annotation	pval	Bonfp
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	3.40E-06	0.00112291
GO Cellular Component	external protective structure [GO:0030312]	2.80E-05	0.00922416
GO Cellular Component	cell wall [GO:0005618]	2.80E-05	0.00922416
GO Molecular Function	asparaginase [GO:0004067]	1.38E-05	0.0190037
GO Cellular Component	extracellular [GO:0005576]	5.85E-05	0.01930028
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	8.65E-05	0.02854896
MIPS Functional Classification	cell wall	0.00018404	0.04766688
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	6.13E-05	0.08453714

GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	0.00017482	0.24125022
SMART Domains	MIR	0.00098977	0.29099356
MIPS Functional Classification	osmosensing	0.00166466	0.43114694
GO Biological Process	response to starvation [GO:0009267]	0.00039203	0.5409945
SMART Domains	CYCLIN	0.0020879	0.6138426
PFam-A Domains	PF02366 (PMT)	0.00057905	0.68616833
GO Molecular Function	dolichyl-phosphate-mannose-protein mannosyltransferase [GO:0004169]	0.00057905	0.79734497
MIPS Protein Classes	Cyclins	0.00452147	0.8590793
Gcn4	n=195		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	amino acid metabolism	1.00E-14	2.59E-12
MIPS Functional Classification	amino acid biosynthesis	1.04E-14	2.70E-12
GO Biological Process	amino acid metabolism [GO:0006520]	1.00E-14	1.38E-11
GO Biological Process	amino acid biosynthesis [GO:0008652]	1.00E-14	1.38E-11
GO Biological Process	amine biosynthesis [GO:0009309]	1.00E-14	1.38E-11
GO Biological Process	amine metabolism [GO:0009308]	1.00E-14	1.38E-11
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	1.00E-14	1.38E-11
MIPS Functional Classification	METABOLISM	9.82E-12	2.54E-09
GO Biological Process	glutamine family amino acid metabolism [GO:0009064]	9.00E-12	1.24E-08
GO Biological Process	glutamine family amino acid biosynthesis [GO:0009084]	1.67E-07	0.00023113
GO Biological Process	aspartate family amino acid metabolism [GO:0009066]	3.27E-07	0.00045103
GO Biological Process	nitrogen metabolism [GO:0006807]	3.25E-06	0.0044794
GO Biological Process	urea cycle intermediate metabolism [GO:0000051]	3.33E-06	0.00459363
GO Biological Process	biosynthesis [GO:0009058]	3.75E-06	0.00518122
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	6.15E-06	0.00848907
GO Molecular Function	asparaginase [GO:0004067]	1.30E-05	0.01788351
GO Biological Process	arginine biosynthesis [GO:0006526]	1.30E-05	0.01792247
MIPS Functional Classification	amino acid degradation (catabolism)	8.13E-05	0.02106123
GO Biological Process	amine catabolism [GO:0009310]	1.63E-05	0.02243369
GO Biological Process	amino acid catabolism [GO:0009063]	1.63E-05	0.02243369
GO Biological Process	response to starvation [GO:0009267]	1.84E-05	0.02535226
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	0.00010132	0.03343659
MIPS Functional Classification	nitrogen and sulfur metabolism	0.00020374	0.05276892

PFam-A Domains	PF00153 (mito_carr)	6.68E-05	0.07915101
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	5.77E-05	0.07961606
GO Molecular Function	lyase [GO:0016829]	7.07E-05	0.09732402
GO Biological Process	aspartate family amino acid biosynthesis [GO:0009067]	9.15E-05	0.12627662
GO Biological Process	lysine metabolism [GO:0006553]	0.00010132	0.13982574
GO Biological Process	lysine biosynthesis [GO:0009085]	0.00010132	0.13982574
MIPS Subcellular Localization	cytoplasm	0.00348089	0.14619738
GO Molecular Function	carbon-carbon lyase [GO:0016830]	0.0001181	0.16262508
MIPS Subcellular Localization	mitochondria	0.00431001	0.18102042
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00018401	0.25393656
GO Biological Process	arginine metabolism [GO:0006525]	0.00025264	0.34864734
GO Molecular Function	enzyme [GO:0003824]	0.00025329	0.34878308
MIPS Functional Classification	regulation of nitrogen and sulphur utilization	0.00178987	0.46357633
GO Cellular Component	mitochondrial matrix [GO:0005759]	0.00178284	0.5883372
PFam-A Domains	PF00682 (HMGL-like)	0.0005536	0.656016
GO Molecular Function	transporter [GO:0005215]	0.00048394	0.66638813
GO Molecular Function	aldehyde-lyase [GO:0016832]	0.0005536	0.7623072
GO Molecular Function	aldolase [GO:0016228]	0.0005536	0.7623072
GO Biological Process	leucine metabolism [GO:0006551]	0.0005536	0.763968
MIPS Functional Classification	regulation of amino acid metabolism	0.00323447	0.83772773
MIPS Functional Classification	mitochondrial transport	0.00323919	0.83895021
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00454357	0.8632783
GO Biological Process	aromatic compound metabolism [GO:0006725]	0.0006323	0.87256986
GO Cellular Component	mitochondrion [GO:0005739]	0.00291466	0.9618378
GO Biological Process	carboxylic acid metabolism [GO:0019752]	0.00071097	0.98114412
GO Biological Process	organic acid metabolism [GO:0006082]	0.00071097	0.98114412
GO Biological Process	branched chain family amino acid metabolism [GO:0009081]	0.00071202	0.9825807
Gln3	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	nitrogen and sulfur utilization	1.09E-06	0.00028241
GO Molecular Function	hydrolase [GO:0016787]	2.42E-07	0.00033295
MIPS Functional Classification	nitrogen and sulfur metabolism	3.35E-06	0.00086777
GO Molecular Function	asparaginase [GO:0004067]	1.05E-05	0.01450119

MIPS Subcellular Localization	vacuolar lumen	0.00047406	0.01991052
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	8.25E-05	0.02721876
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00026339	0.0500441
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	4.69E-05	0.06472683
GO Biological Process	glutamine family amino acid metabolism [GO:0009064]	4.77E-05	0.06586326
MIPS Functional Classification	TRANSPORT FACILITATION	0.00031395	0.08131409
MIPS Functional Classification	cation transporters	0.00038235	0.09902787
MIPS Functional Classification	amino acid degradation (catabolism)	0.00048511	0.12564427
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	0.0001343	0.18533952
MIPS Subcellular Localization	vacuole	0.0048562	0.2039604
MIPS Functional Classification	amino acid metabolism	0.00095634	0.24769077
GO Biological Process	response to starvation [GO:0009267]	0.00030219	0.4170153
GO Cellular Component	membrane [GO:0016020]	0.00141809	0.4679697
MIPS Functional Classification	ion transporters	0.001987	0.514633
MIPS Functional Classification	lysosomal and vacuolar degradation	0.00201205	0.52112095
MIPS Functional Classification	cellular import	0.00263605	0.68273695
MIPS Functional Classification	homeostasis of protons	0.00335643	0.86931537
GO Molecular Function	enzyme [GO:0003824]	0.00218231	>0.999
GO Molecular Function	amino acid transporter [GO:0015171]	0.00354353	>0.999
GO Biological Process	amino acid catabolism [GO:0009063]	0.00201205	>0.999
MIPS Functional Classification	cell wall	0.00483249	>0.999
GO Biological Process	transport [GO:0006810]	0.00388224	>0.999
GO Biological Process	catabolism [GO:0009056]	0.00206664	>0.999
GO Biological Process	amine catabolism [GO:0009310]	0.00201205	>0.999
GO Molecular Function	transporter [GO:0005215]	0.00130918	>0.999
GO Biological Process	cation transport [GO:0006812]	0.00470745	>0.999
GO Biological Process	amino acid transport [GO:0006865]	0.00419198	>0.999
Gsm1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.28E-08	3.32E-06
MIPS Functional Classification	METABOLISM	2.49E-07	6.45E-05
MIPS Functional Classification	C-compound and carbohydrate utilization	1.61E-06	0.00041673
PFam-A Domains	PF00083 (sugar_tr)	5.11E-07	0.00060537

MIPS Functional Classification	ENERGY	3.07E-06	0.00079566
GO Biological Process	alcohol metabolism [GO:0006066]	2.81E-06	0.00387837
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	3.25E-05	0.00617472
MIPS Functional Classification	TRANSPORT FACILITATION	3.45E-05	0.00893444
Proteome Localization--Predicted+Obs	cyt	0.00267231	0.01068924
GO Cellular Component	peroxisomal matrix [GO:0005782]	6.61E-05	0.02182307
GO Molecular Function	monosaccharide transporter [GO:0015145]	1.67E-05	0.02305002
GO Molecular Function	hexose transporter [GO:0015149]	1.67E-05	0.02305002
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00212606	0.02338666
GO Biological Process	hexose metabolism [GO:0019318]	2.14E-05	0.02959976
SMART Domains	Aamy	0.00010337	0.0303896
Proteome Localization--Observed	cell periphery	0.00361035	0.03971385
GO Biological Process	carbohydrate transport [GO:0008643]	2.90E-05	0.04007492
GO Molecular Function	alpha-glucosidase [GO:0004558]	3.02E-05	0.04154395
MIPS Subcellular Localization	peroxisome	0.00136958	0.05752236
GO Biological Process	hexose transport [GO:0008645]	4.26E-05	0.05872493
GO Biological Process	monosaccharide transport [GO:0015749]	4.26E-05	0.05872493
GO Molecular Function	fructose transporter [GO:0005353]	4.52E-05	0.06228199
GO Biological Process	monosaccharide metabolism [GO:0005996]	4.85E-05	0.06688667
PFam-A Domains	PF00128 (alpha-amylase)	5.89E-05	0.06975384
GO Molecular Function	mannose transporter [GO:0015578]	6.61E-05	0.0910617
MIPS Subcellular Localization	peroxisomal matrix	0.00248619	0.10441998
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00049963	0.12940391
MIPS Phenotypes	other carbohydrate and lipid biosynthesis defects	0.00077105	0.13878882
MIPS Functional Classification	drug transporters	0.00065946	0.17080118
GO Molecular Function	glucose transporter [GO:0005355]	0.00012947	0.1782857
GO Molecular Function	carbohydrate transporter [GO:0015144]	0.00018368	0.25293149
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	0.00020991	0.2896758
GO Biological Process	lipid metabolism [GO:0006629]	0.00022343	0.30833754
GO Cellular Component	plasma membrane [GO:0005886]	0.0012863	0.424479
GO Cellular Component	peroxisome [GO:0005777]	0.00136958	0.4519614
PFam-A Domains	PF00107 (adh_zinc)	0.00038445	0.45557325
GO Molecular Function	oxidoreductase [GO:0016491]	0.0003695	0.50880012
GO Biological Process	TCA intermediate metabolism [GO:0006100]	0.00038445	0.530541

MIPS Phenotypes	Carbohydrate and lipid biosynthesis defects	0.00319635	0.575343
GO Molecular Function	transporter [GO:0005215]	0.0005219	0.71866181
GO Molecular Function	alcohol dehydrogenase [GO:0004022]	0.000562	0.77387262
GO Molecular Function	galactose transporter [GO:0005354]	0.000562	0.77387262
GO Biological Process	sphingoid metabolism [GO:0046519]	0.000562	0.77555862
MIPS Protein Classes	Ubiquitin-system proteins	0.00437787	0.8317953
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.0006092	0.840696
GO Biological Process	sphingolipid metabolism [GO:0006665]	0.00365571	>0.999
GO Biological Process	fatty acid beta-oxidation [GO:0006635]	0.00150207	>0.999
MIPS Functional Classification	plasma membrane	0.00397459	>0.999
MIPS Functional Classification	detoxification	0.00442971	>0.999
GO Biological Process	fatty acid oxidation [GO:0019395]	0.00220143	>0.999
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	0.00397459	>0.999
GO Biological Process	ion transport [GO:0006811]	0.00294426	>0.999
GO Biological Process	organic acid metabolism [GO:0006082]	0.00308925	>0.999
GO Molecular Function	enzyme [GO:0003824]	0.00251296	>0.999
GO Biological Process	glucose metabolism [GO:0006006]	0.00227081	>0.999
GO Biological Process	energy pathways [GO:0006091]	0.00397459	>0.999
GO Molecular Function	anion transporter [GO:0008509]	0.00303261	>0.999
MDS Proteomics Complexes	YDL145C (COP1)	0.00412857	>0.999
MDS Proteomics Complexes	YDR477W (SNF1)	0.00220143	>0.999
GO Biological Process	carboxylic acid metabolism [GO:0019752]	0.00308925	>0.999
GO Molecular Function	glucosidase [GO:0015926]	0.00436031	>0.999
Gzf3	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	nitrogen and sulfur metabolism	5.21E-12	1.35E-09
MIPS Functional Classification	nitrogen and sulfur utilization	4.82E-10	1.25E-07
MIPS Functional Classification	amino acid degradation (catabolism)	5.59E-07	0.00014469
Deletions Consortium (Essentiality, Mo	Morphology - WT	2.24E-05	0.00024644
MIPS Functional Classification	amino acid metabolism	2.31E-06	0.00059757
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	4.18E-06	0.00079474
GO Molecular Function	hydrolase [GO:0016787]	9.21E-07	0.00126821
MIPS Functional Classification	METABOLISM	1.40E-05	0.0036217

GO Biological Process	glutamine family amino acid metabolism [GO:0009064]	5.05E-06	0.00696863
MIPS Functional Classification	TRANSPORT FACILITATION	4.70E-05	0.01216093
GO Molecular Function	asparaginase [GO:0004067]	1.10E-05	0.01513598
MIPS Subcellular Localization	vacuolar lumen	0.00048933	0.02055182
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	8.60E-05	0.02838799
GO Cellular Component	membrane [GO:0016020]	9.12E-05	0.03010062
GO Biological Process	amino acid transport [GO:0006865]	4.31E-05	0.05941245
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	4.89E-05	0.06752478
GO Molecular Function	solute:cation symporter [GO:0015294]	8.60E-05	0.11845532
MIPS Functional Classification	homeostasis of other cations	0.00048694	0.12611746
MIPS Functional Classification	amino-acid transporters	0.00073247	0.18970973
GO Molecular Function	symporter [GO:0015293]	0.00014004	0.19283095
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	0.00014004	0.19325106
MIPS Functional Classification	plasma membrane	0.00086988	0.22529918
GO Biological Process	amino acid catabolism [GO:0009063]	0.00018544	0.25590444
GO Biological Process	amine catabolism [GO:0009310]	0.00018544	0.25590444
GO Molecular Function	porter [GO:0015291]	0.00019802	0.27267629
GO Molecular Function	electrochemical potential-driven transporter [GO:0015290]	0.00019802	0.27267629
SMART Domains	TRANS	0.00127458	0.37472652
MIPS Functional Classification	regulation of nitrogen and sulphur utilization	0.00148621	0.38492839
GO Biological Process	response to starvation [GO:0009267]	0.00031492	0.43459236
MIPS Protein Classes	Proteases	0.00252671	0.4800749
GO Molecular Function	amino acid transporter [GO:0015171]	0.00039044	0.53764001
MIPS Functional Classification	lysosomal and vacuolar degradation	0.00209311	0.54211549
MIPS Functional Classification	cellular import	0.00283479	0.73421061
GO Cellular Component	plasma membrane [GO:0005886]	0.00243181	0.8024973
GO Biological Process	transport [GO:0006810]	0.00246925	>0.999
GO Molecular Function	transporter [GO:0005215]	0.0015077	>0.999
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	0.00156144	>0.999
GO Biological Process	cation transport [GO:0006812]	0.00499176	>0.999
GO Biological Process	nitrogen metabolism [GO:0006807]	0.00202619	>0.999
PFam-A Domains	PF00324 (aa_permeases)	0.00368348	>0.999
GO Biological Process	amine metabolism [GO:0009308]	0.00175052	>0.999
PFam-A Domains	PF02133 (Transp_cyt_pur)	0.00268719	>0.999

GO Biological Process	amino acid metabolism [GO:0006520]	0.0009062	>0.999
GO Biological Process	catabolism [GO:0009056]	0.00232901	>0.999
GO Biological Process	glutamine family amino acid biosynthesis [GO:0009084]	0.00368348	>0.999
MIPS Functional Classification	amino acid transport	0.00435644	>0.999
Hal9	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	plasma membrane	2.53E-06	0.00065607
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	9.96E-06	0.00189206
Deletions Consortium (Essentiality, Morphology - WT)	Morphology - WT	0.00020372	0.00224093
GO Cellular Component	plasma membrane [GO:0005886]	1.26E-05	0.00416734
MIPS Functional Classification	TRANSPORT FACILITATION	1.65E-05	0.0042705
MIPS Functional Classification	detoxification	1.85E-05	0.0047936
MIPS Functional Classification	drug transporters	9.54E-05	0.02471787
Proteome Localization--Observed	cyto	0.00284451	0.03128961
Proteome Localization--Observed	cell periphery	0.00403694	0.04440634
PFam-A Domains	PF00083 (sugar_tr)	3.76E-05	0.04454782
GO Biological Process	carbohydrate transport [GO:0008643]	3.31E-05	0.04566185
GO Biological Process	hexose transport [GO:0008645]	4.77E-05	0.06580627
GO Biological Process	monosaccharide transport [GO:0015749]	4.77E-05	0.06580627
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00056341	0.10704752
MIPS Protein Classes	Transcription factors	0.00065715	0.12485755
SMART Domains	ZnF_C2H2	0.00094528	0.27791232
MIPS Protein Classes	Cys2His2 zinc-finger	0.00173371	0.3294049
GO Molecular Function	hexose transporter [GO:0015149]	0.00025409	0.34987918
GO Molecular Function	monosaccharide transporter [GO:0015145]	0.00025409	0.34987918
PFam-A Domains	PF00096 (zf-C2H2)	0.00031682	0.37542696
GO Molecular Function	transporter [GO:0005215]	0.00029115	0.40091355
MIPS Protein Complexes	Cytoplasmic ribosomes	0.0014333	0.4514895
PFam-A Domains	PF00107 (adh_zinc)	0.00042209	0.50017665
GO Cellular Component	membrane [GO:0016020]	0.00152666	0.5037978
MIPS Functional Classification	METABOLISM	0.00228836	0.59268524
GO Biological Process	alcohol metabolism [GO:0006066]	0.00045107	0.62247246
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00316469	0.81965471

GO Molecular Function	galactose transporter [GO:0005354]	0.00059642	0.82127447
Leu3	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	METABOLISM	4.13E-10	1.07E-07
MIPS Functional Classification	amino acid metabolism	1.34E-06	0.00034707
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.54E-06	0.00039924
GO Biological Process	amino acid metabolism [GO:0006520]	1.49E-06	0.00205285
GO Biological Process	alcohol metabolism [GO:0006066]	2.97E-06	0.00410545
GO Biological Process	hexose metabolism [GO:0019318]	3.30E-06	0.0045513
GO Biological Process	amino acid biosynthesis [GO:0008652]	3.39E-06	0.00467652
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	3.56E-06	0.00491524
GO Biological Process	amine metabolism [GO:0009308]	4.28E-06	0.00590966
MIPS Protein Classes	Transcription factors	5.11E-05	0.00970379
GO Biological Process	amine biosynthesis [GO:0009309]	7.12E-06	0.00983238
GO Biological Process	monosaccharide metabolism [GO:0005996]	8.28E-06	0.01142799
GO Biological Process	branched chain family amino acid biosynthesis [GO:0009082]	1.16E-05	0.01594742
MIPS Functional Classification	C-compound and carbohydrate utilization	6.20E-05	0.01605339
MIPS Functional Classification	ENERGY	0.00011311	0.02929653
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	3.34E-05	0.04603349
GO Biological Process	branched chain family amino acid metabolism [GO:0009081]	4.64E-05	0.06396493
GO Biological Process	carbohydrate metabolism [GO:0005975]	5.44E-05	0.07501004
GO Molecular Function	oxo-acid-lyase [GO:0016833]	6.78E-05	0.09330635
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00049576	0.09419383
MIPS Functional Classification	glyoxylate cycle	0.00057048	0.14775432
GO Molecular Function	carbon-carbon lyase [GO:0016830]	0.00012591	0.17337807
MIPS Functional Classification	amino acid biosynthesis	0.00113314	0.29348326
MIPS Protein Classes	Cys2His2 zinc-finger	0.00160464	0.3048816
MIPS Phenotypes	Methionine auxotrophy (Met)	0.00223384	0.4020912
GO Biological Process	glucose metabolism [GO:0006006]	0.00038898	0.53678964
GO Molecular Function	oxidoreductase [GO:0016491]	0.00039226	0.54014202
GO Biological Process	TCA intermediate metabolism [GO:0006100]	0.00039361	0.5431818
SMART Domains	small_GTPase	0.00223384	0.65674896
GO Biological Process	regulation of transcription from Pol II promoter [GO:0006357]	0.00048525	0.669645

GO Biological Process	glutamate biosynthesis [GO:0006537]	0.00054181	0.74769504
GO Biological Process	transcription from Pol II promoter [GO:0006366]	0.00059884	0.82640472
GO Molecular Function	transcription regulator [GO:0030528]	0.00060767	0.83675471
GO Biological Process	amino acid transport [GO:0006865]	0.00061838	0.85336716
MIPS Phenotypes	other carbohydrate and lipid biosynthesis defects	0.00497571	0.8956278
PFam-A Domains	PF00096 (zf-C2H2)	0.00182395	>0.999
GO Molecular Function	transcription factor [GO:0003700]	0.00211858	>0.999
GO Molecular Function	amino acid transporter [GO:0015171]	0.00444039	>0.999
GO Molecular Function	lyase [GO:0016829]	0.00153624	>0.999
MIPS Functional Classification	detoxification	0.00458005	>0.999
GO Molecular Function	specific RNA polymerase II transcription factor [GO:0003704]	0.00092089	>0.999
GO Biological Process	gluconeogenesis [GO:0006094]	0.00372332	>0.999
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	0.00414118	>0.999
SMART Domains	ZnF_C2H2	0.00448824	>0.999
GO Molecular Function	enzyme [GO:0003824]	0.00290068	>0.999
PFam-A Domains	PF00324 (aa_permeases)	0.00444039	>0.999
GO Biological Process	energy pathways [GO:0006091]	0.00414118	>0.999
PFam-A Domains	PF00107 (adh_zinc)	0.00372332	>0.999
GO Biological Process	glutamine family amino acid biosynthesis [GO:0009084]	0.00444039	>0.999
GO Biological Process	glutamate metabolism [GO:0006536]	0.00098444	>0.999
MDS Proteomics Complexes	YBR055C (PRP6)	0.002935	>0.999
MIPS Functional Classification	amino acid degradation (catabolism)	0.00439463	>0.999
GO Molecular Function	RNA polymerase II transcription factor [GO:0003702]	0.00078935	>0.999
Lys14	n=198		
Source	Annotation	pval	Bonfp
GO Biological Process	hexose transport [GO:0008645]	9.12E-09	1.26E-05
GO Biological Process	monosaccharide transport [GO:0015749]	9.12E-09	1.26E-05
GO Biological Process	lysine metabolism [GO:0006553]	7.16E-08	9.88E-05
GO Biological Process	lysine biosynthesis [GO:0009085]	7.16E-08	9.88E-05
GO Molecular Function	mannose transporter [GO:0015578]	1.47E-07	0.00020216
GO Biological Process	carbohydrate transport [GO:0008643]	2.11E-07	0.00029061
GO Molecular Function	glucose transporter [GO:0005355]	4.20E-07	0.00057885
Proteome Localization--Predicted+Obs	cyt	0.00023142	0.00092569

GO Molecular Function	monosaccharide transporter [GO:0015145]	1.03E-06	0.001421
GO Molecular Function	hexose transporter [GO:0015149]	1.03E-06	0.001421
MIPS Functional Classification	METABOLISM	9.36E-06	0.00242396
GO Molecular Function	fructose transporter [GO:0005353]	2.24E-06	0.00308708
MIPS Functional Classification	TRANSPORT FACILITATION	1.38E-05	0.00357972
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.39E-05	0.00360344
GO Biological Process	aspartate family amino acid biosynthesis [GO:0009067]	5.67E-06	0.00782369
MIPS Functional Classification	plasma membrane	3.67E-05	0.00950009
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00089971	0.00989681
Proteome Localization--Observed	cyto	0.00130309	0.01433399
GO Biological Process	alcohol metabolism [GO:0006066]	1.77E-05	0.02439467
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.90E-05	0.02620596
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00014202	0.02698285
PFam-A Domains	PF00083 (sugar_tr)	3.47E-05	0.04114533
GO Biological Process	aspartate family amino acid metabolism [GO:0009066]	3.36E-05	0.04635144
GO Molecular Function	carbohydrate kinase [GO:0019200]	6.94E-05	0.09559382
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00053114	0.13756422
GO Cellular Component	plasma membrane [GO:0005886]	0.00046714	0.15415686
MIPS Functional Classification	cellular import	0.00114992	0.29782928
MIPS Functional Classification	regulation of C-compound and carbohydrate utilization	0.001356	0.351204
GO Biological Process	monosaccharide metabolism [GO:0005996]	0.00028686	0.39586956
Cellzome Complexes	YIL038C (NOT3)	0.00098977	0.45430627
Cellzome Complexes	YDR062W (LCB2)	0.0010033	0.4605147
MIPS Functional Classification	transport mechanism	0.00199052	0.51554468
MIPS Protein Classes	NPR/HAL5 family	0.00316301	0.6009719
SMART Domains	Aamy	0.00226655	0.6663657
Cellzome Complexes	YBL039C (URA7)	0.00166466	0.76407894
GO Biological Process	carbohydrate catabolism [GO:0016052]	0.00069583	0.96024126
Matalpha2	n=200		
Source	Annotation	pval	Bonfp
GO Cellular Component	endoplasmic reticulum [GO:0005783]	0.00070672	0.2332176
MIPS Functional Classification	endoplasmic reticulum	0.00119506	0.30952054
MIPS Protein Classes	ion-transport ATPases	0.00319635	0.6073065

GO Molecular Function	primary active transporter [GO:0015399]	0.00046102	0.63482592
SMART Domains	COIL	0.00289502	0.85113588
GO Biological Process	ion homeostasis [GO:0006873]	0.00420041	>0.999
GO Biological Process	ergosterol biosynthesis [GO:0006696]	0.00090661	>0.999
GO Biological Process	ergosterol metabolism [GO:0008204]	0.00090661	>0.999
GO Molecular Function	P-P-bond-hydrolysis-driven transporter [GO:0015405]	0.00117278	>0.999
GO Biological Process	sterol biosynthesis [GO:0016126]	0.00183082	>0.999
GO Biological Process	steroid biosynthesis [GO:0006694]	0.00486952	>0.999
GO Molecular Function	hydrogen-transporting two-sector ATPase [GO:0003936]	0.00214203	>0.999
GO Biological Process	lipid biosynthesis [GO:0008610]	0.00338723	>0.999
GO Molecular Function	hydrogen-/sodium-translocating ATPase [GO:0015442]	0.00214203	>0.999
GO Biological Process	sterol metabolism [GO:0016125]	0.00287754	>0.999
Mbp1	n=199		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	DNA synthesis and replication	1.00E-14	2.59E-12
MIPS Functional Classification	DNA processing	1.00E-14	2.59E-12
GO Biological Process	DNA replication and chromosome cycle [GO:0000067]	1.00E-14	1.38E-11
GO Biological Process	DNA dependent DNA replication [GO:0006261]	1.00E-14	1.38E-11
GO Biological Process	DNA metabolism [GO:0006259]	1.00E-14	1.38E-11
GO Biological Process	DNA replication [GO:0006260]	1.00E-14	1.38E-11
GO Biological Process	S phase of mitotic cell cycle [GO:0000084]	1.00E-14	1.38E-11
GO Biological Process	cell cycle [GO:0007049]	8.35E-14	1.15E-10
MIPS Functional Classification	CELL CYCLE AND DNA PROCESSING	6.96E-13	1.80E-10
MIPS Protein Complexes	Replication complexes	7.72E-13	2.43E-10
MIPS Phenotypes	Nucleic acid metabolism defects	5.13E-12	9.23E-10
GO Biological Process	mitotic cell cycle [GO:0000278]	1.41E-12	1.95E-09
MIPS Protein Complexes	Replication fork complexes	3.96E-11	1.25E-08
MIPS Phenotypes	DNA repair mutants	1.96E-10	3.52E-08
MIPS Phenotypes	Cell cycle defects	3.73E-10	6.71E-08
GO Biological Process	DNA repair [GO:0006281]	5.53E-11	7.63E-08
Proteome Localization--Predicted+Obs	nuc	5.17E-08	2.07E-07
GO Biological Process	DNA strand elongation [GO:0006271]	3.37E-10	4.65E-07
GO Cellular Component	replication fork [GO:0005657]	3.62E-09	1.19E-06

MIPS Protein Classes	Histones	8.69E-09	1.65E-06
MIPS Subcellular Localization	nucleus	1.14E-07	4.79E-06
MIPS Phenotypes	other DNA repair mutants	2.92E-08	5.25E-06
GO Cellular Component	nucleosome [GO:0005718]	2.03E-08	6.70E-06
MIPS Protein Complexes	Nucleosomal protein complex	2.53E-08	7.96E-06
MIPS Functional Classification	DNA recombination and DNA repair	5.72E-08	1.48E-05
GO Biological Process	double-strand break repair [GO:0006302]	1.44E-08	1.98E-05
Synthetic Genetic Array Analysis	YMR190C (SGS1)	6.41E-06	5.12E-05
GO Cellular Component	chromatin [GO:0005717]	1.81E-07	5.97E-05
MIPS Functional Classification	chromosome	8.04E-07	0.00020834
PFam-A Domains	PF00125 (histone)	1.80E-07	0.00021292
GO Biological Process	double-strand break repair via synthesis-dependent strand annealing [GO:0045003]	1.80E-07	0.00024795
GO Cellular Component	chromosome [GO:0005694]	7.85E-07	0.00025908
MIPS Protein Classes	associated subunits	1.59E-06	0.00030238
MIPS Phenotypes	other cell cycle defects	2.01E-06	0.00036155
GO Biological Process	lagging strand elongation [GO:0006273]	2.63E-07	0.00036289
GO Biological Process	double-strand break repair via homologous recombination [GO:0000724]	2.63E-07	0.00036289
GO Biological Process	recombinational repair [GO:0000725]	2.63E-07	0.00036289
MIPS Phenotypes	UV light sensitivity	3.97E-06	0.00071547
GO Biological Process	DNA recombination [GO:0006310]	5.93E-07	0.00081768
GO Biological Process	mitotic recombination [GO:0006312]	6.11E-07	0.00084266
GO Biological Process	double-strand break repair via single-strand annealing [GO:0045002]	7.49E-07	0.00103421
GO Biological Process	chromosome organization and biogenesis (sensu Eukarya) [GO:0007001]	7.74E-07	0.00106821
MIPS Phenotypes	Alkylating agents sensitivity	6.30E-06	0.00113347
GO Cellular Component	cell [GO:0005623]	7.41E-06	0.00244501
MIPS Functional Classification	SUBCELLULAR LOCALISATION	1.07E-05	0.0027712
MIPS Functional Classification	deoxyribonucleotide metabolism	1.21E-05	0.00314457
MIPS Protein Classes	DNA-directed DNA polymerases	2.03E-05	0.00385286
GO Biological Process	nuclear organization and biogenesis [GO:0006997]	3.82E-06	0.00527611
Deletions Consortium (Essentiality, Mo	Morphology - Large	0.00048809	0.00536898
GO Molecular Function	DNA binding [GO:0003677]	4.01E-06	0.00551824
MIPS Phenotypes	DNA replication mutants	3.20E-05	0.0057663
MIPS Protein Classes	DNA-dependent ATPases	3.21E-05	0.00609999
GO Biological Process	chromatin assembly/disassembly [GO:0006333]	4.66E-06	0.0064329

GO Biological Process	post-replication repair [GO:0006301]	6.80E-06	0.00938045
GO Biological Process	establishment and/or maintenance of chromatin architecture [GO:0006325]	8.52E-06	0.0117633
GO Biological Process	DNA packaging [GO:0006323]	8.52E-06	0.0117633
MIPS Phenotypes	other cell morphology mutants	6.57E-05	0.01182884
GO Cellular Component	intracellular [GO:0005622]	5.61E-05	0.0185067
Deletions Consortium (Essentiality, Mo	Morphology - Elongate	0.00209825	0.02308075
GO Cellular Component	bud [GO:0005933]	7.09E-05	0.02338938
MIPS Functional Classification	DNA repair	9.44E-05	0.02445892
GO Cellular Component	bud neck [GO:0005935]	9.94E-05	0.03281672
GO Cellular Component	site of polarized growth (sensu Fungi) [GO:0030483]	0.00010151	0.03349665
GO Cellular Component	site of polarized growth (sensu Saccharomyces) [GO:0000134]	0.00010151	0.03349665
GO Cellular Component	site of polarized growth [GO:0030427]	0.00010151	0.03349665
MIPS Functional Classification	transcriptional control	0.00013054	0.03380986
GO Cellular Component	cell cortex [GO:0005938]	0.00010481	0.03458598
GO Biological Process	non-recombinational repair [GO:0000726]	2.54E-05	0.03504952
GO Biological Process	mismatch repair [GO:0006298]	2.54E-05	0.03504952
GO Biological Process	maintenance of fidelity during DNA dependent DNA replication [GO:0045005]	2.54E-05	0.03504952
Synthetic Genetic Array Analysis	YNL271C (BNI1)	0.00520575	0.041646
MIPS Subcellular Localization	cytoskeleton	0.00099406	0.04175031
GO Biological Process	nucleotide-excision repair [GO:0006289]	3.20E-05	0.0442083
MIPS Functional Classification	cell cycle	0.00018156	0.047023
MIPS Phenotypes	Recombination mutants	0.00030313	0.0545625
GO Biological Process	cell growth and/or maintenance [GO:0008151]	4.19E-05	0.05775355
GO Molecular Function	DNA-directed DNA polymerase [GO:0003887]	4.64E-05	0.06383565
GO Biological Process	DNA replication initiation [GO:0006270]	4.64E-05	0.06397473
GO Biological Process	metabolism [GO:0008152]	4.73E-05	0.06530822
MDS Proteomics Complexes	YPL153C (RAD53)	0.00013912	0.06858616
Cellzome Complexes	YBL035C (POL12)	0.00017827	0.08182364
GO Cellular Component	nucleus [GO:0005634]	0.00029792	0.09831195
PFam-A Domains	PF00176 (SNF2_N)	0.00013912	0.1648572
GO Cellular Component	alpha DNA polymerase\;primase complex [GO:0005658]	0.00058769	0.19393836
GO Molecular Function	kinase [GO:0016301]	0.00015562	0.21428599
MIPS Functional Classification	fungal cell differentiation	0.00094944	0.24590367
MIPS Functional Classification	cell differentiation	0.00094944	0.24590367

GO Biological Process	double-strand break repair via break-induced replication [GO:0000727]	0.00017827	0.2460057
MIPS Protein Classes	CaMK group	0.00132964	0.2526316
Cellzome Complexes	YJL115W (ASF1)	0.00058769	0.26975063
GO Molecular Function	transferase [GO:0016740]	0.00019833	0.27309766
MDS Proteomics Complexes	YOL054W (PSH1)	0.000563	0.27756097
MIPS Phenotypes	Mating and sporulation defects	0.0015587	0.280566
GO Molecular Function	protein kinase [GO:0004672]	0.00024239	0.33377241
GO Biological Process	DNA unwinding [GO:0006268]	0.00027319	0.37700634
MIPS Functional Classification	meiosis	0.00161426	0.41809334
MIPS Functional Classification	mitotic cell cycle and cell cycle control	0.00166612	0.43152508
MIPS Phenotypes	Cell morphology and organelle mutants	0.00246108	0.4429944
MIPS Phenotypes	Sporulation efficiency	0.00281053	0.5058954
GO Cellular Component	pre-replicative complex [GO:0005656]	0.0015696	0.517968
MIPS Functional Classification	CELL FATE	0.00201161	0.52100699
GO Cellular Component	nucleoplasm [GO:0005654]	0.00163963	0.5410779
MIPS Functional Classification	mRNA synthesis	0.0021825	0.5652675
SMART Domains	CYCLIN	0.00212688	0.62530272
SMART Domains	BROMO	0.00229957	0.67607358
GO Biological Process	cell cycle checkpoint [GO:0000075]	0.00051406	0.70940694
GO Biological Process	telomerase-independent telomere maintenance [GO:0000722]	0.00058769	0.81101496
MIPS Protein Complexes	Replication complex	0.00262786	0.8277759
MIPS Protein Classes	Cyclins	0.00460355	0.8746745
Cellzome Complexes	YBL002W (HTB2)	0.00212688	0.97623792
Mcm1	n=200		
Source	Annotation	pval	Bonfp
GO Cellular Component	cell wall [GO:0005618]	5.19E-12	1.71E-09
GO Cellular Component	external protective structure [GO:0030312]	5.19E-12	1.71E-09
GO Cellular Component	extracellular [GO:0005576]	8.20E-11	2.71E-08
Proteome Localization--Predicted+Observed	en2	4.26E-06	1.70E-05
MIPS Subcellular Localization	extracellular	1.10E-06	4.64E-05
MIPS Functional Classification	cell wall	2.48E-07	6.43E-05
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	3.86E-07	0.00012731
MIPS Functional Classification	extracellular / secretion proteins	1.65E-06	0.0004283

MIPS Functional Classification	stress response	2.49E-06	0.00064376
MIPS Functional Classification	CELL FATE	2.95E-05	0.0076449
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00170882	0.01879702
MIPS Functional Classification	cell differentiation	0.00017805	0.04611547
MIPS Functional Classification	fungal cell differentiation	0.00017805	0.04611547
MIPS Functional Classification	plasma membrane	0.00051343	0.13297889
MIPS Phenotypes	Galactose fermentation (Gal)	0.00078341	0.14101452
MIPS Functional Classification	other cell division and DNA synthesis activities	0.00059642	0.15447356
MIPS Phenotypes	other mating and sporulation defects	0.001505	0.2709
GO Molecular Function	structural constituent of cell wall [GO:0005199]	0.00027852	0.38351516
MIPS Functional Classification	cellular sensing and response	0.00212059	0.54923281
MIPS Functional Classification	chemoperception and response	0.00212059	0.54923281
GO Biological Process	development [GO:0007275]	0.00060501	0.83491104
GO Biological Process	pheromone response (sensu Fungi) [GO:0030434]	0.00062431	0.86154918
GO Biological Process	pheromone response (sensu Saccharomyces) [GO:0007328]	0.00062431	0.86154918
GO Biological Process	pheromone response [GO:0019236]	0.00064531	0.89052504
GO Biological Process	cell communication [GO:0007154]	0.00065219	0.90002496
GO Biological Process	signal transduction [GO:0007165]	0.00134565	>0.999
GO Biological Process	intracellular signaling cascade [GO:0007242]	0.00132967	>0.999
GO Biological Process	mating (sensu Fungi) [GO:0030461]	0.00155725	>0.999
GO Biological Process	perception of abiotic stimulus [GO:0009582]	0.00094528	>0.999
GO Biological Process	perception of external stimulus [GO:0009581]	0.00094528	>0.999
GO Biological Process	sensory perception [GO:0007600]	0.00094528	>0.999
GO Biological Process	small GTPase mediated signal transduction [GO:0007264]	0.001505	>0.999
GO Biological Process	cell adhesion [GO:0007155]	0.00437089	>0.999
GO Molecular Function	transcription regulator [GO:0030528]	0.00183314	>0.999
PFam-A Domains	PF00399 (yeast_PIR)	0.00233288	>0.999
GO Biological Process	cell-cell fusion [GO:0006947]	0.00167601	>0.999
GO Biological Process	chemosensory perception [GO:0007606]	0.00094528	>0.999
GO Biological Process	reproduction [GO:0000003]	0.00155725	>0.999
GO Biological Process	regulation of meiosis [GO:0040020]	0.00267631	>0.999
GO Biological Process	perception of chemical substance [GO:0009593]	0.00094528	>0.999
GO Biological Process	cell cycle [GO:0007049]	0.00253439	>0.999
GO Biological Process	RAS protein signal transduction [GO:0007265]	0.0010418	>0.999

GO Biological Process	mating (sensu Saccharomyces) [GO:0007322]	0.00144542	>0.999
GO Molecular Function	signal transducer [GO:0004871]	0.00207705	>0.999
Met32	n=200		
Source	Annotation	pval	Bonfp
GO Biological Process	sulfur amino acid metabolism [GO:0000096]	2.44E-11	3.37E-08
GO Biological Process	sulfur metabolism [GO:0006790]	3.34E-11	4.61E-08
MIPS Functional Classification	amino acid metabolism	2.04E-08	5.28E-06
GO Biological Process	methionine metabolism [GO:0006555]	8.16E-08	0.00011256
MIPS Functional Classification	METABOLISM	4.54E-07	0.00011749
MIPS Functional Classification	amino acid biosynthesis	7.85E-07	0.00020334
MIPS Functional Classification	TRANSPORT FACILITATION	4.91E-06	0.00127208
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	9.34E-06	0.00177478
MIPS Functional Classification	amino acid transport	6.11E-05	0.01581843
MIPS Phenotypes	Methionine auxotrophy (Met)	0.00010968	0.01974204
MIPS Functional Classification	amino-acid transporters	0.00010161	0.02631595
MIPS Functional Classification	pentose-phosphate pathway	0.00010968	0.0284066
GO Biological Process	sulfur amino acid biosynthesis [GO:0000097]	3.20E-05	0.0442112
GO Biological Process	aspartate family amino acid metabolism [GO:0009066]	3.48E-05	0.04806305
GO Molecular Function	amino acid transporter [GO:0015171]	4.64E-05	0.06383566
MIPS Functional Classification	homeostasis of anions	0.000563	0.14581804
SMART Domains	WW	0.00058769	0.17278145
GO Biological Process	amino acid metabolism [GO:0006520]	0.00012864	0.17752044
MIPS Functional Classification	nitrogen and sulfur metabolism	0.00117265	0.30371635
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	0.00024954	0.3443583
GO Biological Process	amine metabolism [GO:0009308]	0.00028686	0.39586818
MIPS Functional Classification	lysosomal and vacuolar degradation	0.00262786	0.68061574
GO Molecular Function	L-amino acid transporter [GO:0015179]	0.00058769	0.80925188
GO Biological Process	amino acid transport [GO:0006865]	0.0006476	0.89368938
MDS Proteomics Complexes	YHR030C (SLT2)	0.00195782	0.96520526
MIPS Functional Classification	drug transporters	0.00458777	>0.999
GO Biological Process	hexose metabolism [GO:0019318]	0.00359177	>0.999
GO Molecular Function	transporter [GO:0005215]	0.00332302	>0.999
GO Biological Process	alcohol metabolism [GO:0006066]	0.00178636	>0.999

GO Biological Process	inorganic anion transport [GO:0015698]	0.00102243	>0.999
GO Biological Process	hexose catabolism [GO:0019320]	0.00460355	>0.999
PFam-A Domains	PF01053 (Cys_Met_Meta_PP)	0.0015696	>0.999
PFam-A Domains	PF00324 (aa_permeases)	0.00460355	>0.999
GO Biological Process	glucose metabolism [GO:0006006]	0.00245165	>0.999
GO Biological Process	glucose catabolism [GO:0006007]	0.00460355	>0.999
PFam-A Domains	PF00155 (aminotran_1_2)	0.00229957	>0.999
Mga1	n=200		
Source	Annotation	pval	Bonfp
MIPS Protein Complexes	Cytoplasmic translation elongation	3.58E-06	0.00112646
Cellzome Complexes	YAL029C (MYO4)	2.08E-05	0.00953729
MIPS Protein Classes	other ATPases	0.00016555	0.03145355
MIPS Subcellular Localization	cytoplasm	0.00098914	0.04154375
GO Molecular Function	translation elongation factor [GO:0003746]	3.29E-05	0.04529311
MIPS Protein Complexes	eEF1	0.00059642	0.18787325
GO Molecular Function	heat shock protein [GO:0003773]	0.00019217	0.26461396
GO Molecular Function	translation regulator [GO:0045182]	0.00021041	0.28973044
MIPS Functional Classification	SUBCELLULAR LOCALISATION	0.00123621	0.32017839
SMART Domains	HATPase	0.00159254	0.46820676
GO Biological Process	translational elongation [GO:0006414]	0.00042209	0.5824842
Cellzome Complexes	YBR126C (TPS1)	0.00135467	0.62179353
GO Molecular Function	signal transducer [GO:0004871]	0.00056341	0.77581282
MIPS Phenotypes	Bud localization	0.0046866	0.843588
MDS Proteomics Complexes	YMR001C (CDC5)	0.00233288	>0.999
MDS Proteomics Complexes	YDR398W (UTP5)	0.00233288	>0.999
PFam-A Domains	PF02518 (HATPase_c)	0.00159254	>0.999
GO Molecular Function	receptor signaling protein [GO:0005057]	0.00133589	>0.999
MDS Proteomics Complexes	YDL145C (COP1)	0.00437089	>0.999
GO Biological Process	protein folding [GO:0006457]	0.00196986	>0.999
Mig1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.00E-14	2.59E-12

MIPS Functional Classification	METABOLISM	5.38E-14	1.39E-11
GO Biological Process	hexose transport [GO:0008645]	3.92E-13	5.41E-10
GO Biological Process	monosaccharide transport [GO:0015749]	3.92E-13	5.41E-10
MIPS Functional Classification	C-compound and carbohydrate transporters	4.60E-12	1.19E-09
MIPS Functional Classification	C-compound and carbohydrate utilization	4.99E-12	1.29E-09
GO Molecular Function	mannose transporter [GO:0015578]	2.29E-12	3.16E-09
GO Molecular Function	glucose transporter [GO:0005355]	1.40E-11	1.93E-08
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.56E-11	2.15E-08
PFam-A Domains	PF00083 (sugar_tr)	4.62E-11	5.47E-08
GO Biological Process	carbohydrate transport [GO:0008643]	4.20E-11	5.79E-08
GO Molecular Function	fructose transporter [GO:0005353]	5.01E-11	6.90E-08
GO Molecular Function	monosaccharide transporter [GO:0015145]	6.31E-11	8.68E-08
GO Molecular Function	hexose transporter [GO:0015149]	6.31E-11	8.68E-08
MIPS Functional Classification	plasma membrane	2.37E-08	6.13E-06
GO Biological Process	carbohydrate metabolism [GO:0005975]	8.96E-09	1.24E-05
MIPS Functional Classification	cellular import	8.06E-08	2.09E-05
MIPS Functional Classification	ENERGY	8.59E-08	2.22E-05
SMART Domains	Aamy	7.61E-08	2.24E-05
GO Biological Process	energy reserve metabolism [GO:0006112]	2.30E-07	0.00031675
Proteome Localization--Predicted+Obs	cyt	0.00014341	0.00057365
GO Biological Process	glycogen metabolism [GO:0005977]	6.35E-07	0.00087561
Proteome Localization--Observed	cyto	9.33E-05	0.00102626
PFam-A Domains	PF00128 (alpha-amylase)	1.63E-06	0.00193347
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	4.12E-05	0.00782321
MIPS Phenotypes	Galactose fermentation (Gal)	4.98E-05	0.00897215
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00103917	0.01143087
GO Biological Process	glucan metabolism [GO:0006073]	1.05E-05	0.01447137
GO Biological Process	disaccharide metabolism [GO:0005984]	1.24E-05	0.01717051
GO Molecular Function	transporter [GO:0005215]	1.60E-05	0.02200157
GO Biological Process	alcohol metabolism [GO:0006066]	1.96E-05	0.02699321
MIPS Functional Classification	TRANSPORT FACILITATION	0.00013388	0.03467388
GO Cellular Component	plasma membrane [GO:0005886]	0.00016108	0.05315772
GO Biological Process	polysaccharide metabolism [GO:0005976]	0.00010081	0.13912056
MIPS Protein Classes	Ubiquitin-system proteins	0.00094528	0.1796032

MIPS Protein Classes	Cys2His2 zinc-finger	0.00173371	0.3294049
GO Cellular Component	unlocalized [GO:0005941]	0.00234057	0.7723881
MIPS Phenotypes	Accumulation of storage carbohydrates	0.00437089	0.7867602
MIPS Functional Classification	phosphate transport	0.00325479	0.84299061
MIPS Functional Classification	CELLULAR TRANSPORT AND TRANSPORT MECHANISMS	0.00380586	0.98571774
PFam-A Domains	PF00096 (zf-C2H2)	0.00196986	>0.999
MDS Proteomics Complexes	YPL031C (PHO85)	0.00233288	>0.999
GO Biological Process	carbohydrate catabolism [GO:0016052]	0.00468666	>0.999
GO Biological Process	mitotic checkpoint [GO:0007093]	0.00172766	>0.999
GO Molecular Function	transferase [GO:0016740]	0.00418089	>0.999
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	0.00161284	>0.999
GO Biological Process	hexose metabolism [GO:0019318]	0.00080198	>0.999
GO Biological Process	ion transport [GO:0006811]	0.00337119	>0.999
MIPS Functional Classification	regulation of C-compound and carbohydrate utilization	0.00479665	>0.999
SMART Domains	ZnF_C2H2	0.00483174	>0.999
GO Molecular Function	alpha-glucosidase [GO:0004558]	0.00101923	>0.999
GO Molecular Function	inorganic anion transporter [GO:0015103]	0.00159254	>0.999
GO Biological Process	monosaccharide metabolism [GO:0005996]	0.00147054	>0.999
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00173164	>0.999
GO Molecular Function	enzyme [GO:0003824]	0.00439284	>0.999
GO Biological Process	glucose metabolism [GO:0006006]	0.00251429	>0.999
MDS Proteomics Complexes	YKL166C (TPK3)	0.00437089	>0.999
GO Biological Process	energy pathways [GO:0006091]	0.00161284	>0.999
GO Molecular Function	anion transporter [GO:0008509]	0.00326287	>0.999
GO Molecular Function	glucosidase [GO:0015926]	0.00468663	>0.999
GO Biological Process	mitotic spindle checkpoint [GO:0007094]	0.00172766	>0.999
Mig2	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.00E-14	2.59E-12
MIPS Functional Classification	C-compound and carbohydrate utilization	1.00E-14	2.59E-12
MIPS Functional Classification	METABOLISM	1.05E-14	2.73E-12
MIPS Functional Classification	C-compound and carbohydrate transporters	1.05E-14	2.73E-12
GO Molecular Function	glucose transporter [GO:0005355]	1.00E-14	1.38E-11

GO Molecular Function	fructose transporter [GO:0005353]	1.00E-14	1.38E-11
GO Biological Process	carbohydrate transport [GO:0008643]	1.00E-14	1.38E-11
GO Molecular Function	mannose transporter [GO:0015578]	1.00E-14	1.38E-11
GO Biological Process	hexose transport [GO:0008645]	1.00E-14	1.38E-11
GO Biological Process	monosaccharide transport [GO:0015749]	1.00E-14	1.38E-11
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.00E-14	1.38E-11
GO Molecular Function	monosaccharide transporter [GO:0015145]	3.50E-14	4.82E-11
GO Molecular Function	hexose transporter [GO:0015149]	3.50E-14	4.82E-11
PFam-A Domains	PF00083 (sugar_tr)	2.14E-13	2.53E-10
SMART Domains	Aamy	8.21E-12	2.41E-09
PFam-A Domains	PF00128 (alpha-amylase)	2.37E-10	2.81E-07
GO Biological Process	carbohydrate metabolism [GO:0005975]	1.65E-09	2.28E-06
MIPS Functional Classification	ENERGY	8.59E-08	2.22E-05
MIPS Functional Classification	cellular import	4.98E-07	0.00012894
GO Biological Process	energy reserve metabolism [GO:0006112]	2.30E-07	0.00031675
MIPS Phenotypes	Galactose fermentation (Gal)	2.38E-06	0.00042799
GO Biological Process	disaccharide metabolism [GO:0005984]	3.96E-07	0.00054715
GO Biological Process	alcohol metabolism [GO:0006066]	5.79E-07	0.00079933
GO Molecular Function	alpha-glucosidase [GO:0004558]	6.28E-07	0.00086495
Proteome Localization--Predicted+Obs	cyt	0.00025031	0.00100124
MIPS Functional Classification	plasma membrane	1.06E-05	0.00274594
GO Biological Process	glycogen metabolism [GO:0005977]	8.95E-06	0.01235063
GO Cellular Component	plasma membrane [GO:0005886]	4.66E-05	0.01538236
GO Molecular Function	transporter [GO:0005215]	1.60E-05	0.02200157
MIPS Functional Classification	regulation of C-compound and carbohydrate utilization	0.00010456	0.02708182
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.000158	0.03002019
Proteome Localization--Observed	cyto	0.00284451	0.03128961
GO Biological Process	hexose metabolism [GO:0019318]	2.56E-05	0.0352757
GO Molecular Function	glucosidase [GO:0015926]	4.77E-05	0.06566321
GO Biological Process	monosaccharide metabolism [GO:0005996]	5.76E-05	0.0794339
MIPS Functional Classification	TRANSPORT FACILITATION	0.00035466	0.09185668
MIPS Phenotypes	Carbon utilization	0.00060998	0.10979694
GO Biological Process	glucan metabolism [GO:0006073]	9.54E-05	0.1317014
GO Molecular Function	enzyme [GO:0003824]	0.00019377	0.26681854

GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	0.00051343	0.70853616
GO Biological Process	energy pathways [GO:0006091]	0.00051343	0.70853616
GO Biological Process	disaccharide catabolism [GO:0046352]	0.00059642	0.82306374
GO Biological Process	glucose transport [GO:0015758]	0.00059642	0.82306374
MIPS Protein Classes	Histones	0.00437089	0.8304691
GO Biological Process	polysaccharide metabolism [GO:0005976]	0.00064531	0.89052504
PFam-A Domains	PF00125 (histone)	0.00325479	>0.999
GO Biological Process	carbohydrate catabolism [GO:0016052]	0.0046866	>0.999
GO Molecular Function	oxidoreductase [GO:0016491]	0.0034766	>0.999
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00173164	>0.999
GO Biological Process	galactose metabolism [GO:0006012]	0.00233288	>0.999
GO Biological Process	glucose metabolism [GO:0006006]	0.00251429	>0.999
GO Biological Process	trehalose metabolism [GO:0005991]	0.00101923	>0.999
MDS Proteomics Complexes	YAL015C (NTG1)	0.00325479	>0.999
MDS Proteomics Complexes	YKL166C (TPK3)	0.00437089	>0.999
Mig3	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.00E-14	2.59E-12
MIPS Functional Classification	METABOLISM	1.05E-14	2.73E-12
GO Biological Process	carbohydrate transport [GO:0008643]	6.74E-14	9.30E-11
MIPS Functional Classification	C-compound and carbohydrate utilization	9.45E-13	2.45E-10
GO Biological Process	hexose transport [GO:0008645]	3.92E-13	5.41E-10
GO Biological Process	monosaccharide transport [GO:0015749]	3.92E-13	5.41E-10
GO Molecular Function	carbohydrate transporter [GO:0015144]	5.94E-13	8.19E-10
GO Molecular Function	fructose transporter [GO:0005353]	7.85E-13	1.08E-09
GO Molecular Function	mannose transporter [GO:0015578]	2.29E-12	3.16E-09
MIPS Functional Classification	C-compound and carbohydrate transporters	7.05E-11	1.83E-08
GO Molecular Function	glucose transporter [GO:0005355]	1.40E-11	1.93E-08
PFam-A Domains	PF00083 (sugar_tr)	4.62E-11	5.47E-08
GO Molecular Function	monosaccharide transporter [GO:0015145]	6.31E-11	8.68E-08
GO Molecular Function	hexose transporter [GO:0015149]	6.31E-11	8.68E-08
GO Biological Process	carbohydrate metabolism [GO:0005975]	8.96E-09	1.24E-05
SMART Domains	Aamy	7.61E-08	2.24E-05

GO Biological Process	energy reserve metabolism [GO:0006112]	2.30E-07	0.00031675
PFam-A Domains	PF00128 (alpha-amylase)	1.63E-06	0.00193347
Proteome Localization--Predicted+Obs	cyt	0.00071618	0.00286472
MIPS Functional Classification	ENERGY	1.46E-05	0.00377272
Proteome Localization--Observed	cyto	0.00057042	0.0062746
MIPS Phenotypes	Galactose fermentation (Gal)	4.98E-05	0.00897215
MIPS Functional Classification	plasma membrane	4.15E-05	0.01074617
GO Biological Process	glycogen metabolism [GO:0005977]	8.95E-06	0.01235063
GO Cellular Component	plasma membrane [GO:0005886]	4.66E-05	0.01538236
GO Biological Process	disaccharide metabolism [GO:0005984]	1.24E-05	0.01717051
MIPS Functional Classification	cellular import	7.15E-05	0.0185148
GO Biological Process	alcohol metabolism [GO:0006066]	1.96E-05	0.02699321
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.000158	0.03002019
GO Molecular Function	alpha-glucosidase [GO:0004558]	3.27E-05	0.04499774
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00432221	0.04754431
GO Molecular Function	transporter [GO:0005215]	4.39E-05	0.06046187
MIPS Functional Classification	TRANSPORT FACILITATION	0.00035466	0.09185668
MIPS Functional Classification	regulation of C-compound and carbohydrate utilization	0.00041012	0.10622186
GO Biological Process	glucan metabolism [GO:0006073]	9.54E-05	0.1317014
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	0.00015139	0.20892234
GO Biological Process	energy pathways [GO:0006091]	0.00015139	0.20892234
GO Molecular Function	enzyme [GO:0003824]	0.00019377	0.26681854
GO Molecular Function	oxidoreductase [GO:0016491]	0.00046798	0.64440158
Yeast Two Hybrid - Ito (core)	YNL189W (SRP1)	0.00157355	0.70652395
GO Molecular Function	glucosidase [GO:0015926]	0.00053221	0.73285042
MIPS Phenotypes	Carbon utilization	0.00431598	0.7768764
MIPS Protein Classes	Histones	0.00437089	0.8304691
GO Biological Process	polysaccharide metabolism [GO:0005976]	0.00064531	0.89052504
PFam-A Domains	PF00125 (histone)	0.00325479	>0.999
GO Molecular Function	transferase [GO:0016740]	0.00418089	>0.999
GO Biological Process	hexose metabolism [GO:0019318]	0.00080198	>0.999
MDS Proteomics Complexes	YPL022W (RAD1)	0.00216637	>0.999
GO Biological Process	monosaccharide metabolism [GO:0005996]	0.00147054	>0.999
GO Biological Process	glucose metabolism [GO:0006006]	0.00251429	>0.999

GO Biological Process	trehalose metabolism [GO:0005991]	0.00101923	>0.999
MDS Proteomics Complexes	YAL015C (NTG1)	0.00325479	>0.999
MDS Proteomics Complexes	YKL166C (TPK3)	0.00437089	>0.999
MDS Proteomics Complexes	YGL137W (SEC27)	0.0028255	>0.999
Ndt80	n=200		
Source	Annotation	pval	Bonfp
GO Biological Process	spore wall assembly (sensu Fungi) [GO:0030476]	1.59E-08	2.20E-05
GO Biological Process	spore wall assembly [GO:0042244]	1.59E-08	2.20E-05
GO Biological Process	sporulation [GO:0030435]	2.29E-08	3.16E-05
GO Biological Process	spore wall assembly (sensu Saccharomyces) [GO:0007152]	2.04E-07	0.00028119
GO Biological Process	sporulation (sensu Fungi) [GO:0030437]	2.75E-07	0.00037932
Proteome Localization--Predicted+Observed	nuc	0.00032927	0.00131709
MIPS Functional Classification	sporulation and germination	1.35E-05	0.00350702
GO Biological Process	hexose transport [GO:0008645]	3.45E-06	0.00475443
GO Biological Process	monosaccharide transport [GO:0015749]	3.45E-06	0.00475443
GO Biological Process	sporulation (sensu Saccharomyces) [GO:0007151]	5.25E-06	0.00724805
GO Cellular Component	ascus [GO:0005627]	4.98E-05	0.01644895
GO Biological Process	carbohydrate transport [GO:0008643]	3.31E-05	0.04566185
GO Molecular Function	fructose transporter [GO:0005353]	4.98E-05	0.06863698
GO Molecular Function	mannose transporter [GO:0015578]	7.28E-05	0.1002993
MIPS Functional Classification	cell cycle	0.00045963	0.11904417
GO Molecular Function	glucose transporter [GO:0005355]	0.00014246	0.19616054
MIPS Functional Classification	CELL FATE	0.00099435	0.25753665
MIPS Functional Classification	cell differentiation	0.00101949	0.26404791
MIPS Functional Classification	fungus cell differentiation	0.00101949	0.26404791
GO Molecular Function	monosaccharide transporter [GO:0015145]	0.00025409	0.34987918
GO Molecular Function	hexose transporter [GO:0015149]	0.00025409	0.34987918
MIPS Functional Classification	meiosis	0.00167601	0.43408659
Yeast Two Hybrid - Ito (core)	YDL239C (ADY3)	0.00099326	0.44597419
GO Molecular Function	protein serine/threonine kinase [GO:0004674]	0.00037401	0.51500902
GO Cellular Component	spore wall (sensu Fungi) [GO:0005619]	0.00159254	0.5255382
SMART Domains	SANT	0.00216637	0.63691278
MIPS Functional Classification	CELL CYCLE AND DNA PROCESSING	0.00257896	0.66795064

SMART Domains	Aamy	0.00233288	0.68586672
GO Cellular Component	prospore membrane [GO:0005628]	0.00233288	0.7698504
GO Biological Process	regulation of transcription from Pol II promoter [GO:0006357]	0.00056067	0.77372736
SMART Domains	HMG	0.0029765	0.875091
GO Biological Process	transcription from Pol II promoter [GO:0006366]	0.00071186	0.98236128
GO Cellular Component	plasma membrane [GO:0005886]	0.00434988	>0.999
GO Biological Process	mitotic cell cycle [GO:0000278]	0.00471142	>0.999
GO Molecular Function	enzyme regulator [GO:0030234]	0.00271478	>0.999
GO Biological Process	nuclear division [GO:0000280]	0.00290622	>0.999
GO Biological Process	regulation of transcription [GO:0045449]	0.00455154	>0.999
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00173164	>0.999
PFam-A Domains	PF00128 (alpha-amylase)	0.00159254	>0.999
GO Biological Process	DNA replication and chromosome cycle [GO:0000067]	0.00477914	>0.999
GO Biological Process	M phase of mitotic cell cycle [GO:0000087]	0.0045195	>0.999
GO Molecular Function	carbohydrate transporter [GO:0015144]	0.0016999	>0.999
GO Molecular Function	protein kinase [GO:0004672]	0.00296353	>0.999
GO Biological Process	negative regulation of transcription from Pol II promoter [GO:0000122]	0.00314095	>0.999
GO Molecular Function	glucosidase [GO:0015926]	0.00468663	>0.999
GO Biological Process	mitosis [GO:0007067]	0.00400314	>0.999
Nhp6A	n=184		
Source	Annotation	pval	Bonfp
MIPS Subcellular Localization	nucleus	0.00098155	0.04122489
MIPS Subcellular Localization	nuclear envelope	0.00185445	0.0778869
MIPS Subcellular Localization	ER membrane	0.00233002	0.09786084
GO Biological Process	mitotic prophase [GO:0000088]	8.08E-05	0.11143541
GO Biological Process	mitotic chromosome condensation [GO:0007076]	8.08E-05	0.11143541
GO Cellular Component	mitotic chromosome [GO:0005708]	0.00041774	0.13785255
GO Cellular Component	commitment complex [GO:0000243]	0.00057149	0.18859104
MIPS Functional Classification	endoplasmic reticulum	0.00212553	0.55051227
GO Biological Process	chromosome condensation [GO:0030261]	0.00045199	0.62375172
GO Cellular Component	chromosome [GO:0005694]	0.00233002	0.7689066
Cellzome Complexes	YBR119W (MUD1)	0.00183549	0.84248991
MIPS Functional Classification	meiosis	0.00331988	0.85984892

Nhp6B	n=187		
Source	Annotation	pval	Bonfp
GO Cellular Component	chromosome [GO:0005694]	4.38E-05	0.01445311
Proteome Localization--Predicted+Obs	nuc	0.00924913	0.03699652
MIPS Functional Classification	meiosis	0.00024688	0.06394063
MIPS Subcellular Localization	nucleus	0.00252531	0.10606302
GO Biological Process	mitotic prophase [GO:0000088]	8.60E-05	0.1187134
GO Biological Process	mitotic chromosome condensation [GO:0007076]	8.60E-05	0.1187134
GO Cellular Component	mitotic chromosome [GO:0005708]	0.00044433	0.14662857
MIPS Subcellular Localization	chromosome structure	0.00435644	0.18297048
GO Cellular Component	commitment complex [GO:0000243]	0.00060764	0.20051988
MIPS Functional Classification	chromosome	0.00178858	0.46324222
MIPS Protein Classes	Protein Kinases	0.00246342	0.4680498
Cellzome Complexes	YFL017W-A (SMX2)	0.00134672	0.61814448
GO Biological Process	chromosome condensation [GO:0030261]	0.00048694	0.6719772
GO Molecular Function	binding [GO:0005488]	0.00059735	0.82254682
Cellzome Complexes	YBR119W (MUD1)	0.00192304	0.88267536
Nrg1	n=199		
Source	Annotation	pval	Bonfp
Deletions Consortium (Essentiality, Mo	Morphology - WT	5.38E-07	5.92E-06
PFam-A Domains	PF00660 (SRP1_TIP1)	1.44E-08	1.70E-05
MIPS Functional Classification	C-compound and carbohydrate utilization	2.34E-05	0.00605508
MIPS Protein Classes	Cys2His2 zinc-finger	3.48E-05	0.00661738
Proteome Localization--Predicted+Obs	en2	0.00597167	0.02388668
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00013223	0.02512351
SMART Domains	ZnF_C2H2	0.00015313	0.04502051
PFam-A Domains	PF00096 (zf-C2H2)	4.19E-05	0.04961038
SMART Domains	ZnF_GATA	0.00017827	0.05240991
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.00025611	0.06633171
GO Molecular Function	glucosyltransferase [GO:0046527]	4.87E-05	0.06700303
MIPS Protein Classes	Transcription factors	0.00062351	0.11846614
MIPS Functional Classification	METABOLISM	0.00064434	0.16688458

GO Biological Process	response to stress [GO:0006950]	0.00017598	0.24285378
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.00021639	0.29862234
PFam-A Domains	PF00320 (GATA)	0.00027319	0.32373371
MIPS Functional Classification	stress response	0.00126358	0.32726722
Cellzome Complexes	YBR126C (TPS1)	0.00132964	0.61030476
Oaf1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	METABOLISM	4.00E-08	1.04E-05
MIPS Functional Classification	C-compound and carbohydrate metabolism	2.36E-07	6.12E-05
GO Cellular Component	peroxisome [GO:0005777]	3.22E-07	0.00010619
GO Molecular Function	fructose transporter [GO:0005353]	8.62E-08	0.00011873
GO Molecular Function	mannose transporter [GO:0015578]	1.57E-07	0.00021663
GO Molecular Function	oxidoreductase [GO:0016491]	2.65E-07	0.00036483
GO Molecular Function	glucose transporter [GO:0005355]	4.50E-07	0.00061994
MIPS Subcellular Localization	peroxisomal matrix	1.88E-05	0.00078913
MIPS Subcellular Localization	peroxisome	2.99E-05	0.00125454
GO Molecular Function	monosaccharide transporter [GO:0015145]	1.10E-06	0.00152099
GO Molecular Function	hexose transporter [GO:0015149]	1.10E-06	0.00152099
GO Biological Process	lipid metabolism [GO:0006629]	1.33E-06	0.00184099
GO Biological Process	fatty acid beta-oxidation [GO:0006635]	1.63E-06	0.00225164
MIPS Phenotypes	Carbohydrate and lipid biosynthesis defects	1.36E-05	0.00245626
MIPS Functional Classification	ENERGY	1.46E-05	0.00377272
GO Biological Process	hexose transport [GO:0008645]	3.45E-06	0.00475443
GO Biological Process	monosaccharide transport [GO:0015749]	3.45E-06	0.00475443
GO Biological Process	fatty acid oxidation [GO:0019395]	3.58E-06	0.00493495
GO Molecular Function	enzyme [GO:0003824]	4.02E-06	0.00553639
Proteome Localization--Predicted+Obscyt		0.00188715	0.0075486
GO Biological Process	organic acid metabolism [GO:0006082]	6.28E-06	0.00866265
GO Biological Process	carboxylic acid metabolism [GO:0019752]	6.28E-06	0.00866265
GO Biological Process	fatty acid metabolism [GO:0006631]	8.31E-06	0.01147467
MIPS Functional Classification	cellular import	7.15E-05	0.0185148
MIPS Functional Classification	C-compound and carbohydrate utilization	7.74E-05	0.02003637
MIPS Phenotypes	other carbohydrate and lipid biosynthesis defects	0.00011531	0.02075508

GO Cellular Component	peroxisomal matrix [GO:0005782]	7.28E-05	0.02403687
GO Molecular Function	carbohydrate transporter [GO:0015144]	2.03E-05	0.02797858
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.000158	0.03002019
SMART Domains	Aamy	0.00011184	0.03288184
PFam-A Domains	PF00083 (sugar_tr)	3.76E-05	0.04454782
GO Biological Process	carbohydrate transport [GO:0008643]	3.31E-05	0.04566185
PFam-A Domains	PF00128 (alpha-amylase)	6.37E-05	0.07551365
MIPS Functional Classification	TRANSPORT FACILITATION	0.00035466	0.09185668
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00056421	0.14613117
MIPS Functional Classification	drug transporters	0.00073373	0.19003711
GO Cellular Component	membrane [GO:0016020]	0.00078169	0.2579577
MIPS Functional Classification	oxidation of fatty acids	0.00101923	0.26398057
MIPS Functional Classification	detoxification	0.00144542	0.37436378
GO Biological Process	sterol metabolism [GO:0016125]	0.00044362	0.61219974
PFam-A Domains	PF00173 (heme_1)	0.00059642	0.70676126
GO Molecular Function	galactose transporter [GO:0005354]	0.00059642	0.82127447
GO Biological Process	ergosterol metabolism [GO:0008204]	0.00099326	>0.999
GO Cellular Component	plasma membrane [GO:0005886]	0.00434988	>0.999
GO Biological Process	steroid metabolism [GO:0008202]	0.00151969	>0.999
GO Biological Process	sterol biosynthesis [GO:0016126]	0.00200157	>0.999
GO Biological Process	TCA intermediate metabolism [GO:0006100]	0.00393128	>0.999
GO Biological Process	transport [GO:0006810]	0.0022345	>0.999
GO Molecular Function	alpha-glucosidase [GO:0004558]	0.00101923	>0.999
GO Biological Process	ergosterol biosynthesis [GO:0006696]	0.00099326	>0.999
PFam-A Domains	PF00107 (adh_zinc)	0.00393128	>0.999
GO Molecular Function	glucosidase [GO:0015926]	0.00468663	>0.999
Pbf1	n=200		
Source	Annotation	pval	Bonfp
GO Biological Process	ribosome biogenesis [GO:0007046]	2.04E-11	2.81E-08
GO Cellular Component	nucleolus [GO:0005730]	3.66E-10	1.21E-07
GO Biological Process	ribosome biogenesis and assembly [GO:0042254]	1.09E-10	1.50E-07
GO Biological Process	rRNA processing [GO:0006364]	6.00E-09	8.28E-06
GO Biological Process	transcription from Pol I promoter [GO:0006360]	1.14E-08	1.58E-05

Deletions Consortium (Essentiality, M	essential	7.70E-06	8.47E-05
Published Complexes	Andersen et al. (2002) - Curr Bio 12:1-	3.73E-05	0.00026077
Cellzome Complexes	YCR057C (PWP2)	1.12E-06	0.00051273
Cellzome Complexes	YPL043W (NOP4)	4.88E-06	0.0022391
Cellzome Complexes	YDR060W (MAK21)	6.60E-06	0.00303028
GO Biological Process	RNA processing [GO:0006396]	2.91E-06	0.0040218
Cellzome Complexes	YNL110C (NOP15)	8.80E-06	0.00404062
MDS Proteomics Complexes	YER082C (UTP7)	1.44E-05	0.0071171
Proteome Localization--Predicted+Obs	nuc	0.00226644	0.00906576
Cellzome Complexes	YGR090W (UTP22)	2.01E-05	0.00922764
Cellzome Complexes	YGL099W (LSG1)	3.68E-05	0.01688018
MIPS Subcellular Localization	nucleus	0.00047881	0.02010989
Published Complexes	Harnicharnpai et al. (2001) - Mol Cell 8:505-	0.00338241	0.02367687
GO Biological Process	RNA metabolism [GO:0016070]	2.12E-05	0.02930099
GO Cellular Component	nucleus [GO:0005634]	9.88E-05	0.0325907
SMART Domains	COIL	0.00011297	0.03321347
MDS Proteomics Complexes	YJL069C (UTP18)	8.09E-05	0.0398693
GO Biological Process	cytoplasm organization and biogenesis [GO:0007028]	4.37E-05	0.06034547
GO Cellular Component	small nucleolar ribonucleoprotein complex [GO:0005732]	0.00019594	0.06465987
MDS Proteomics Complexes	YMR049C (ERB1)	0.00015204	0.07495424
MDS Proteomics Complexes	YLR074C (BUD20)	0.00020482	0.10097429
GO Biological Process	transcription [GO:0006350]	0.00010841	0.14960856
GO Molecular Function	snoRNA binding [GO:0030515]	0.00019594	0.269808
Cellzome Complexes	YHR066W (SSF1)	0.00066132	0.30354496
MDS Proteomics Complexes	YIL035C (CKA1)	0.00063496	0.31303676
GO Biological Process	processing of 20S pre-rRNA [GO:0030490]	0.00023878	0.32952054
MDS Proteomics Complexes	YOR005C (DNL4)	0.0008765	0.43211253
MIPS Functional Classification	rRNA transcription	0.00169547	0.43912673
Cellzome Complexes	YBR247C (ENP1)	0.00097403	0.44708161
MDS Proteomics Complexes	YDL213C (FYV14)	0.00091558	0.45137848
Cellzome Complexes	YKR081C (RPF2)	0.00114103	0.52373277
MIPS Functional Classification	purine ribonucleotide metabolism	0.00224141	0.58052519
GO Biological Process	ribosomal large subunit biogenesis [GO:0042273]	0.00048166	0.66468666
Cellzome Complexes	YNL061W (NOP2)	0.00145687	0.66870333

MDS Proteomics Complexes	YPR017C (DSS4)	0.0013937	0.6870941
MIPS Functional Classification	lipid and fatty-acid transport	0.00333028	0.86254252
GO Molecular Function	RNA binding [GO:0003723]	0.00065087	0.89624248
GO Molecular Function	helicase [GO:0004386]	0.00440583	>0.999
MDS Proteomics Complexes	YDL047W (SIT4)	0.00469845	>0.999
GO Molecular Function	ATP dependent RNA helicase [GO:0004004]	0.00080643	>0.999
MDS Proteomics Complexes	YHR052W (CIC1)	0.00204383	>0.999
GO Molecular Function	RNA dependent adenosinetriphosphatase [GO:0008186]	0.00080643	>0.999
GO Molecular Function	RNA helicase [GO:0003724]	0.00104458	>0.999
GO Molecular Function	ATP dependent helicase [GO:0008026]	0.0038503	>0.999
Pbf2	n=200		
Source	Annotation	pval	Bonfp
GO Cellular Component	nucleolus [GO:0005730]	4.04E-10	1.33E-07
GO Biological Process	ribosome biogenesis [GO:0007046]	1.66E-10	2.29E-07
GO Biological Process	ribosome biogenesis and assembly [GO:0042254]	7.31E-10	1.01E-06
Deletions Consortium (Essentiality, Mo	essential	9.19E-06	0.00010111
Published Complexes	Andersen et al. (2002) - Curr Bio 12:1-	3.97E-05	0.00027804
Cellzome Complexes	YPL043W (NOP4)	5.05E-06	0.00231819
GO Biological Process	rRNA processing [GO:0006364]	1.74E-06	0.00240798
GO Biological Process	transcription from Pol I promoter [GO:0006360]	2.02E-06	0.00278934
Cellzome Complexes	YDR060W (MAK21)	6.83E-06	0.00313688
Cellzome Complexes	YNL110C (NOP15)	9.11E-06	0.00418217
Cellzome Complexes	YCR057C (PWP2)	1.21E-05	0.0055422
Published Complexes	Harnicharnpai et al. (2001) - Mol Cell 8:505-	0.00345941	0.02421587
MIPS Functional Classification	rRNA transcription	0.00011247	0.02913025
MIPS Subcellular Localization	nucleolus	0.00074231	0.0311771
GO Biological Process	RNA processing [GO:0006396]	3.36E-05	0.04633654
Cellzome Complexes	YBR247C (ENP1)	0.0001055	0.04842588
MIPS Subcellular Localization	nucleus	0.0011664	0.0489888
GO Biological Process	cytoplasm organization and biogenesis [GO:0007028]	4.93E-05	0.06803566
GO Cellular Component	nucleus [GO:0005634]	0.00022503	0.0742599
MDS Proteomics Complexes	YMR049C (ERB1)	0.00015515	0.07648895
SMART Domains	COIL	0.00026554	0.07806847

MDS Proteomics Complexes	YER082C (UTP7)	0.00020989	0.10347774
MDS Proteomics Complexes	YLR074C (BUD20)	0.00020989	0.10347774
Cellzome Complexes	YGR090W (UTP22)	0.00027296	0.12528635
MIPS Functional Classification	other rRNA-transcription activities	0.00052889	0.13698329
Cellzome Complexes	YGL099W (LSG1)	0.00044105	0.20244287
Cellzome Complexes	YML126C (ERG13)	0.00052889	0.24276189
GO Biological Process	RNA metabolism [GO:0016070]	0.00018864	0.26031906
Cellzome Complexes	YHR066W (SSF1)	0.00067726	0.31086418
MDS Proteomics Complexes	YIL035C (CKA1)	0.0006551	0.32296184
MDS Proteomics Complexes	YJL069C (UTP18)	0.00082577	0.40710264
MDS Proteomics Complexes	YOR005C (DNL4)	0.00089387	0.44067791
MDS Proteomics Complexes	YDL213C (FYV14)	0.00094421	0.46549701
Cellzome Complexes	YKR081C (RPF2)	0.0011635	0.5340465
GO Cellular Component	small nucleolar ribonucleoprotein complex [GO:0005732]	0.00167109	0.5514597
MIPS Functional Classification	purine ribonucleotide metabolism	0.00230133	0.59604447
GO Biological Process	ribosomal large subunit biogenesis [GO:0042273]	0.00049133	0.67803678
Cellzome Complexes	YNL061W (NOP2)	0.00148537	0.68178483
MDS Proteomics Complexes	YPR017C (DSS4)	0.00141496	0.69757528
GO Cellular Component	cell [GO:0005623]	0.00223772	0.7384476
MIPS Functional Classification	lipid and fatty-acid transport	0.0033937	0.8789683
MDS Proteomics Complexes	YDL047W (SIT4)	0.00478672	>0.999
GO Biological Process	cell organization and biogenesis [GO:0016043]	0.00354704	>0.999
GO Biological Process	processing of 20S pre-rRNA [GO:0030490]	0.00195617	>0.999
MDS Proteomics Complexes	YHR052W (CIC1)	0.00207476	>0.999
GO Biological Process	transcription [GO:0006350]	0.00139268	>0.999
GO Molecular Function	snoRNA binding [GO:0030515]	0.00167109	>0.999
GO Molecular Function	RNA binding [GO:0003723]	0.00452206	>0.999
GO Biological Process	heavy metal ion transport [GO:0006823]	0.00167109	>0.999
GO Biological Process	transition metal transport [GO:0000041]	0.00478672	>0.999
Pdr1	n=199		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	TRANSPORT FACILITATION	1.51E-05	0.00391129
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00014982	0.02846637

GO Cellular Component	hydrogen-translocating V-type ATPase complex [GO:0016471]	0.00010079	0.03325938
MIPS Functional Classification	transport mechanism	0.00045727	0.11843345
GO Molecular Function	transporter [GO:0005215]	0.00010627	0.14632691
GO Biological Process	vacuolar acidification [GO:0007035]	0.00024821	0.3425229
Cellzome Complexes	YNL313C	0.00100443	0.46103337
MIPS Functional Classification	transport ATPases	0.00245165	0.63497735
MIPS Protein Classes	ion-transport ATPases	0.00344674	0.6548806
SMART Domains	CBS	0.00229957	0.67607358
Cellzome Complexes	YGR020C (VMA7)	0.0015696	0.7204464
GO Biological Process	transport [GO:0006810]	0.0005381	0.74257662
MIPS Functional Classification	cation transporters	0.0029873	0.7737107
MIPS Functional Classification	ion transporters	0.00313155	0.81107145
Phd1	n=200		
Source	Annotation	pval	Bonfp
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00014982	0.02846637
GO Biological Process	thiamin biosynthesis [GO:0009228]	4.87E-05	0.06714901
GO Biological Process	thiamin metabolism [GO:0006772]	7.11E-05	0.09813801
GO Cellular Component	plasma membrane [GO:0005886]	0.00049284	0.16263687
MIPS Functional Classification	plasma membrane	0.00154138	0.39921742
MDS Proteomics Complexes	YDL017W (CDC7)	0.00169595	0.83610335
MIPS Protein Complexes	Mitochondrial ribosomes	0.00425946	>0.999
PFam-A Domains	PF02776 (TPP_enzymes_N)	0.00100443	>0.999
PFam-A Domains	PF00205 (TPP_enzymes)	0.00100443	>0.999
GO Biological Process	vitamin biosynthesis [GO:0009110]	0.00307352	>0.999
GO Biological Process	water-soluble vitamin biosynthesis [GO:0042364]	0.00307352	>0.999
PFam-A Domains	PF03105 (SPX)	0.0032087	>0.999
PFam-A Domains	PF02775 (TPP_enzymes_C)	0.00100443	>0.999
Pho2	n=186		
Source	Annotation	pval	Bonfp
Cellzome Complexes	YFL017W-A (SMX2)	0.000101	0.04635808
MIPS Functional Classification	transport mechanism	0.00027732	0.07182666
MIPS Subcellular Localization	chromosome structure	0.00427367	0.17949414

GO Cellular Component	commitment complex [GO:0000243]	0.00059541	0.1964853
GO Molecular Function	binding [GO:0005488]	0.00027608	0.38015665
Cellzome Complexes	YBR119W (MUD1)	0.00189357	0.86914863
MDS Proteomics Complexes	YDR386W (MUS81)	0.0019789	0.9755977
Pho4	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	amino acid metabolism	4.78E-09	1.24E-06
PFam-A Domains	PF03105 (SPX)	3.36E-09	3.98E-06
MIPS Functional Classification	METABOLISM	1.59E-08	4.13E-06
MIPS Functional Classification	amino acid biosynthesis	2.60E-08	6.73E-06
GO Biological Process	amino acid metabolism [GO:0006520]	1.34E-08	1.85E-05
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	3.95E-08	5.45E-05
GO Biological Process	amine metabolism [GO:0009308]	4.97E-08	6.86E-05
MIPS Functional Classification	phosphate metabolism	5.69E-07	0.00014745
GO Biological Process	sulfur metabolism [GO:0006790]	8.42E-07	0.00116259
MIPS Functional Classification	regulation of amino acid metabolism	6.54E-06	0.00169275
GO Biological Process	amino acid biosynthesis [GO:0008652]	4.01E-06	0.00553268
GO Biological Process	amine biosynthesis [GO:0009309]	8.41E-06	0.01160108
Proteome Localization--Observed	cyto	0.0017033	0.0187363
MIPS Phenotypes	Methionine auxotrophy (Met)	0.00011184	0.02013174
MIPS Functional Classification	glycolysis and gluconeogenesis	9.54E-05	0.02471787
MIPS Protein Classes	Basic domains	0.00013224	0.02512503
MIPS Protein Classes	Leucine zipper factors	0.00014246	0.02706645
GO Biological Process	sulfur amino acid metabolism [GO:0000096]	2.61E-05	0.03597094
GO Biological Process	monosaccharide metabolism [GO:0005996]	5.76E-05	0.0794339
GO Biological Process	inorganic anion transport [GO:0015698]	7.28E-05	0.10051782
MIPS Phenotypes	Divalent cations and heavy metals resistance	0.00057382	0.10328814
GO Cellular Component	cell [GO:0005623]	0.00037317	0.12314511
GO Biological Process	glycolysis [GO:0006096]	0.00010322	0.14243808
MIPS Functional Classification	homeostasis of anions	0.00057382	0.14862016
GO Biological Process	phosphate transport [GO:0006817]	0.00011184	0.15434334
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00011603	0.16011588
GO Biological Process	hexose metabolism [GO:0019318]	0.00015233	0.2102154

MIPS Phenotypes	Divalent cations and heavy metals	0.00122023	0.2196414
MIPS Functional Classification	homeostasis of phosphate	0.00101923	0.26398057
GO Molecular Function	enzyme [GO:0003824]	0.00019377	0.26681854
MIPS Functional Classification	ENERGY	0.00106776	0.27654984
SMART Domains	BRLZ	0.0010418	0.3062892
MIPS Functional Classification	nitrogen and sulfur metabolism	0.00121124	0.31371116
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.00022865	0.31553424
GO Biological Process	aromatic amino acid family metabolism [GO:0009072]	0.00025409	0.35064144
GO Cellular Component	intracellular [GO:0005622]	0.00109494	0.3613302
GO Biological Process	methionine metabolism [GO:0006555]	0.00033007	0.45550074
MIPS Phenotypes	Inositol auxotrophy (Ino)	0.00325479	0.5858622
GO Biological Process	alcohol metabolism [GO:0006066]	0.00045107	0.62247246
GO Molecular Function	electron transporter [GO:0005489]	0.00053221	0.73285042
GO Biological Process	glucose catabolism [GO:0006007]	0.00053221	0.73444704
GO Biological Process	hexose catabolism [GO:0019320]	0.00053221	0.73444704
SMART Domains	ANK	0.00267631	0.78683514
GO Cellular Component	cell wall [GO:0005618]	0.0025201	0.831633
GO Cellular Component	external protective structure [GO:0030312]	0.0025201	0.831633
MIPS Functional Classification	phosphate transport	0.00325479	0.84299061
GO Biological Process	monosaccharide catabolism [GO:0046365]	0.0006626	0.91438248
Put3	n=198		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	glyoxylate cycle	1.38E-05	0.00357441
Proteome Localization--Predicted+Obs	cyt	0.00178211	0.00712844
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00089971	0.00989681
MIPS Functional Classification	TRANSPORT FACILITATION	0.0001148	0.02973398
Proteome Localization--Observed	cyto	0.00365118	0.04016298
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	3.47E-05	0.04791608
MIPS Functional Classification	drug transporters	0.00069583	0.18021919
PFam-A Domains	PF00083 (sugar_tr)	0.00022507	0.26671269
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.00020471	0.28250256
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00168253	0.3196807
MIPS Functional Classification	C-compound and carbohydrate utilization	0.00142072	0.36796648

MIPS Phenotypes	Methionine auxotrophy (Met)	0.00226655	0.407979
GO Biological Process	alcohol metabolism [GO:0006066]	0.00041642	0.57465684
MIPS Phenotypes	Carbohydrate and lipid biosynthesis defects	0.0033617	0.605106
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.00272429	0.70559111
GO Cellular Component	cytoplasm [GO:0005737]	0.00216715	0.7151595
GO Cellular Component	cell wall [GO:0005618]	0.00235362	0.7766946
GO Cellular Component	external protective structure [GO:0030312]	0.00235362	0.7766946
MIPS Functional Classification	phosphate transport	0.00316301	0.81921959
GO Biological Process	response to drug [GO:0042493]	0.00063286	0.87335232
MIPS Functional Classification	stress response	0.00345079	0.89375461
Rap1	n=200		
Source	Annotation	pval	Bonfp
MIPS Subcellular Localization	cytoplasm	1.00E-14	4.20E-13
MIPS Functional Classification	ribosome biogenesis	1.00E-14	2.59E-12
MIPS Functional Classification	PROTEIN SYNTHESIS	1.00E-14	2.59E-12
MIPS Protein Complexes	Cytoplasmic ribosomes	1.00E-14	3.15E-12
MIPS Protein Complexes	cytoplasmic ribosomal large subunit	1.00E-14	3.15E-12
MIPS Protein Complexes	Translation complexes	1.00E-14	3.15E-12
GO Cellular Component	cytosolic ribosome (sensu Eukarya) [GO:0005830]	1.00E-14	3.30E-12
GO Cellular Component	cytosol [GO:0005829]	1.00E-14	3.30E-12
GO Cellular Component	ribosome [GO:0005840]	1.00E-14	3.30E-12
GO Cellular Component	ribonucleoprotein complex [GO:0030529]	1.00E-14	3.30E-12
GO Cellular Component	cytosolic large ribosomal subunit (sensu Eukarya) [GO:0005842]	1.00E-14	3.30E-12
GO Cellular Component	large ribosomal subunit [GO:0015934]	1.00E-14	3.30E-12
GO Biological Process	biosynthesis [GO:0009058]	1.00E-14	1.38E-11
GO Molecular Function	structural molecule [GO:0005198]	1.00E-14	1.38E-11
GO Biological Process	protein biosynthesis [GO:0006412]	1.00E-14	1.38E-11
GO Molecular Function	structural constituent of ribosome [GO:0003735]	1.00E-14	1.38E-11
GO Biological Process	macromolecule biosynthesis [GO:0009059]	1.00E-14	1.38E-11
MIPS Protein Complexes	cytoplasmic ribosomal small subunit	5.06E-14	1.59E-11
GO Cellular Component	cytosolic small ribosomal subunit (sensu Eukarya) [GO:0005843]	2.09E-13	6.91E-11
GO Cellular Component	eukaryotic 48S initiation complex [GO:0016283]	2.09E-13	6.91E-11
GO Cellular Component	eukaryotic 43S pre-initiation complex [GO:0016282]	1.30E-12	4.28E-10

GO Cellular Component	cytoplasm [GO:0005737]	5.12E-11	1.69E-08
GO Biological Process	protein metabolism [GO:0019538]	1.87E-11	2.58E-08
GO Cellular Component	small ribosomal subunit [GO:0015935]	1.86E-10	6.15E-08
MIPS Functional Classification	SUBCELLULAR LOCALISATION	2.02E-08	5.23E-06
Published Complexes	Andersen et al. (2002) - Curr Bio 12:1-	1.74E-05	0.00012161
GO Biological Process	cell growth and/or maintenance [GO:0008151]	1.96E-07	0.00026992
Yeast Fitness Data	Slow Growers	0.00047742	0.00047742
Proteome Localization--Observed	cyto	4.88E-05	0.00053659
Proteome Localization--Predicted+Obs	cyt	0.00014341	0.00057365
GO Biological Process	regulation of translational fidelity [GO:0006450]	6.28E-07	0.00086683
GO Cellular Component	intracellular [GO:0005622]	3.22E-06	0.00106288
Cellzome Complexes	YBR031W (RPL4A)	2.65E-06	0.0012157
GO Biological Process	metabolism [GO:0008152]	1.31E-06	0.00180935
GO Cellular Component	cell [GO:0005623]	1.08E-05	0.00356037
MIPS Protein Complexes	Cytoplasmic translation elongation	0.00011184	0.03523055
MIPS Protein Complexes	eEF1	0.00059642	0.18787325
MIPS Phenotypes	paromomycin	0.00233288	0.4199184
PFam-A Domains	PF00467 (KOW)	0.00040738	0.48274886
GO Biological Process	translational elongation [GO:0006414]	0.00042209	0.5824842
GO Biological Process	alcohol metabolism [GO:0006066]	0.00045107	0.62247246
GO Molecular Function	translation elongation factor [GO:0003746]	0.00057382	0.79015427
GO Biological Process	carbohydrate catabolism [GO:0016052]	0.0046866	>0.999
GO Biological Process	hexose metabolism [GO:0019318]	0.00080198	>0.999
GO Biological Process	alcohol catabolism [GO:0046164]	0.00119827	>0.999
GO Biological Process	monosaccharide metabolism [GO:0005996]	0.00147054	>0.999
GO Biological Process	ribosomal subunit assembly [GO:0042257]	0.00073539	>0.999
GO Biological Process	hexose catabolism [GO:0019320]	0.00468663	>0.999
GO Biological Process	glucose metabolism [GO:0006006]	0.00251429	>0.999
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.0022495	>0.999
GO Biological Process	glucose catabolism [GO:0006007]	0.00468663	>0.999
GO Biological Process	regulation of translation [GO:0006445]	0.00099326	>0.999
MIPS Functional Classification	glycolysis and gluconeogenesis	0.0046866	>0.999
GO Biological Process	ribosome assembly [GO:0042255]	0.00094528	>0.999
GO Molecular Function	chaperone [GO:0003754]	0.00479726	>0.999

MIPS Functional Classification	C-compound and carbohydrate utilization	0.00388782	>0.999
Rdr1	n=200		
Source	Annotation	pval	Bonfp
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	9.28E-08	1.76E-05
GO Molecular Function	monosaccharide transporter [GO:0015145]	5.23E-08	7.20E-05
GO Molecular Function	hexose transporter [GO:0015149]	5.23E-08	7.20E-05
GO Molecular Function	fructose transporter [GO:0005353]	8.62E-08	0.00011873
GO Molecular Function	mannose transporter [GO:0015578]	1.57E-07	0.00021663
GO Biological Process	hexose transport [GO:0008645]	2.04E-07	0.00028119
GO Biological Process	monosaccharide transport [GO:0015749]	2.04E-07	0.00028119
GO Biological Process	carbohydrate transport [GO:0008643]	2.30E-07	0.00031675
GO Molecular Function	glucose transporter [GO:0005355]	4.50E-07	0.00061994
PFam-A Domains	PF00083 (sugar_tr)	6.26E-07	0.00074154
MIPS Functional Classification	TRANSPORT FACILITATION	5.39E-06	0.00139691
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.68E-06	0.00231169
MIPS Functional Classification	plasma membrane	1.06E-05	0.00274594
Proteome Localization--Predicted+Obs	cyt	0.00071618	0.00286472
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00035892	0.00394808
GO Cellular Component	plasma membrane [GO:0005886]	1.26E-05	0.00416734
GO Molecular Function	galactose transporter [GO:0005354]	1.44E-05	0.01977895
MIPS Functional Classification	C-compound and carbohydrate transporters	8.60E-05	0.02226763
MIPS Functional Classification	detoxification	8.69E-05	0.02251617
MIPS Functional Classification	drug transporters	9.54E-05	0.02471787
MIPS Functional Classification	cellular import	0.00031291	0.08104473
GO Molecular Function	drug transporter [GO:0015238]	6.37E-05	0.08774877
GO Molecular Function	multidrug transporter [GO:0015239]	6.37E-05	0.08774877
MIPS Functional Classification	METABOLISM	0.00039781	0.10303227
GO Biological Process	response to chemical substance [GO:0042221]	0.00011531	0.15912228
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.00064984	0.16830804
GO Molecular Function	transporter [GO:0005215]	0.00029115	0.40091355
GO Biological Process	alcohol metabolism [GO:0006066]	0.00045107	0.62247246
SMART Domains	Aamy	0.00233288	0.68586672
GO Molecular Function	ABC-type efflux porter [GO:0015427]	0.00059642	0.82127447

GO Biological Process	response to drug [GO:0042493]	0.0006626	0.91438248
GO Molecular Function	oxo-acid-lyase [GO:0016833]	0.0010418	>0.999
GO Biological Process	hexose metabolism [GO:0019318]	0.00080198	>0.999
GO Molecular Function	alpha-glucosidase [GO:0004558]	0.00101923	>0.999
GO Molecular Function	inorganic anion transporter [GO:0015103]	0.00159254	>0.999
GO Biological Process	monosaccharide metabolism [GO:0005996]	0.00147054	>0.999
PFam-A Domains	PF00128 (alpha-amylase)	0.00159254	>0.999
GO Molecular Function	anion transporter [GO:0008509]	0.00326287	>0.999
Rds1	n=200		
Source	Annotation	pval	Bonfp
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00061778	0.00679554
Proteome Localization--Observed	cyto	0.00284451	0.03128961
MIPS Functional Classification	plasma membrane	0.00015139	0.03921079
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00056067	0.10652768
MIPS Functional Classification	lipid and fatty-acid transport	0.00042209	0.10932131
GO Cellular Component	nuclear chromosome [GO:0000228]	0.00040738	0.13443639
MIPS Functional Classification	TRANSPORT FACILITATION	0.00089336	0.23137895
GO Molecular Function	transporter [GO:0005215]	0.00029115	0.40091355
GO Cellular Component	cell [GO:0005623]	0.00166059	0.5479947
GO Cellular Component	integral membrane protein [GO:0016021]	0.00200172	0.6605676
MIPS Functional Classification	ion transporters	0.00322967	0.83648453
MIPS Functional Classification	phosphate transport	0.00325479	0.84299061
MDS Proteomics Complexes	YOR181W (LAS17)	0.00172766	0.85173638
SMART Domains	HMG	0.0029765	0.875091
Rds2	n=200		
Source	Annotation	pval	Bonfp
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	4.71E-07	8.96E-05
MIPS Functional Classification	TRANSPORT FACILITATION	5.39E-06	0.00139691
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00170882	0.01879702
GO Molecular Function	monosaccharide transporter [GO:0015145]	1.88E-05	0.02587232
GO Molecular Function	hexose transporter [GO:0015149]	1.88E-05	0.02587232
PFam-A Domains	PF00083 (sugar_tr)	3.76E-05	0.04454782

GO Biological Process	carbohydrate transport [GO:0008643]	3.31E-05	0.04566185
GO Biological Process	hexose transport [GO:0008645]	4.77E-05	0.06580627
GO Biological Process	monosaccharide transport [GO:0015749]	4.77E-05	0.06580627
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.00027825	0.07206701
GO Molecular Function	mannose transporter [GO:0015578]	7.28E-05	0.1002993
GO Cellular Component	membrane [GO:0016020]	0.00038759	0.12790569
SMART Domains	TRANS	0.00051001	0.14994323
GO Biological Process	transport [GO:0006810]	0.0001399	0.19305924
GO Molecular Function	glucose transporter [GO:0005355]	0.00014246	0.19616054
GO Molecular Function	carbohydrate transporter [GO:0015144]	0.00020515	0.2824943
GO Cellular Component	plasma membrane [GO:0005886]	0.00156099	0.5151267
MIPS Functional Classification	METABOLISM	0.00228836	0.59268524
MIPS Functional Classification	allantoin and allantoate transporters	0.00233288	0.60421592
MIPS Phenotypes	Carbohydrate and lipid biosynthesis defects	0.00353338	0.6360084
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00316469	0.81965471
GO Molecular Function	galactose transporter [GO:0005354]	0.00059642	0.82127447
MDS Proteomics Complexes	YOR181W (LAS17)	0.00172766	0.85173638
GO Molecular Function	fructose transporter [GO:0005353]	0.00078341	>0.999
MIPS Functional Classification	plasma membrane	0.00467495	>0.999
GO Molecular Function	anion transporter [GO:0008509]	0.00326287	>0.999
GO Molecular Function	transporter [GO:0005215]	0.00353451	>0.999
GO Biological Process	carboxylic acid metabolism [GO:0019752]	0.0034975	>0.999
GO Biological Process	organic acid metabolism [GO:0006082]	0.0034975	>0.999
GO Molecular Function	monocarboxylic acid transporter [GO:0008028]	0.00437089	>0.999
MIPS Functional Classification	cellular import	0.00443397	>0.999
Rgt1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.31E-10	3.38E-08
GO Biological Process	hexose transport [GO:0008645]	4.06E-10	5.60E-07
GO Biological Process	monosaccharide transport [GO:0015749]	4.06E-10	5.60E-07
GO Molecular Function	mannose transporter [GO:0015578]	4.97E-09	6.85E-06
GO Biological Process	carbohydrate transport [GO:0008643]	1.51E-08	2.08E-05
GO Molecular Function	glucose transporter [GO:0005355]	1.78E-08	2.45E-05

MIPS Functional Classification	METABOLISM	9.82E-08	2.54E-05
GO Molecular Function	monosaccharide transporter [GO:0015145]	5.23E-08	7.20E-05
GO Molecular Function	hexose transporter [GO:0015149]	5.23E-08	7.20E-05
GO Molecular Function	fructose transporter [GO:0005353]	8.62E-08	0.00011873
Proteome Localization--Predicted+Obs	cyt	0.00014341	0.00057365
PFam-A Domains	PF00083 (sugar_tr)	6.26E-07	0.00074154
GO Molecular Function	alpha-glucosidase [GO:0004558]	6.28E-07	0.00086495
SMART Domains	Aamy	3.58E-06	0.00105136
PFam-A Domains	PF00128 (alpha-amylase)	1.63E-06	0.00193347
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.68E-06	0.00231169
MIPS Functional Classification	C-compound and carbohydrate utilization	2.53E-05	0.00655205
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00061778	0.00679554
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	4.12E-05	0.00782321
MIPS Functional Classification	C-compound and carbohydrate transporters	8.60E-05	0.02226763
MIPS Functional Classification	TRANSPORT FACILITATION	0.00013388	0.03467388
GO Cellular Component	plasma membrane [GO:0005886]	0.00016108	0.05315772
MIPS Functional Classification	cellular import	0.00031291	0.08104473
MIPS Subcellular Localization	cytoplasm	0.00197337	0.08288154
MIPS Protein Classes	Transcription factors	0.00065715	0.12485755
MIPS Functional Classification	plasma membrane	0.00051343	0.13297889
MIPS Functional Classification	glyoxylate cycle	0.00059642	0.15447356
MIPS Protein Classes	Helix-turn-helix	0.00099326	0.18871959
MIPS Functional Classification	ENERGY	0.00106776	0.27654984
SMART Domains	ZnF_C2H2	0.00094528	0.27791232
MIPS Protein Classes	Cys2His2 zinc-finger	0.00173371	0.3294049
PFam-A Domains	PF00096 (zf-C2H2)	0.00031682	0.37542696
MIPS Functional Classification	regulation of C-compound and carbohydrate utilization	0.00147075	0.38092425
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00207705	0.3946395
GO Molecular Function	glucosidase [GO:0015926]	0.00053221	0.73285042
GO Molecular Function	galactose transporter [GO:0005354]	0.00059642	0.82127447
GO Biological Process	sphingolipid metabolism [GO:0006665]	0.00393128	>0.999
GO Molecular Function	structural constituent of cell wall [GO:0005199]	0.00437089	>0.999
GO Molecular Function	oxo-acid-lyase [GO:0016833]	0.0010418	>0.999
GO Biological Process	response to osmotic stress [GO:0006970]	0.0028255	>0.999

GO Molecular Function	transporter [GO:0005215]	0.00353451	>0.999
GO Biological Process	alcohol metabolism [GO:0006066]	0.00184928	>0.999
GO Biological Process	organic acid metabolism [GO:0006082]	0.00085275	>0.999
GO Molecular Function	oxidoreductase [GO:0016491]	0.0034766	>0.999
GO Molecular Function	carbon-carbon lyase [GO:0016830]	0.00099658	>0.999
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.0022495	>0.999
GO Biological Process	lipid metabolism [GO:0006629]	0.00263813	>0.999
GO Biological Process	carboxylic acid metabolism [GO:0019752]	0.00085275	>0.999
Cellzome Complexes	YDR172W (SUP35)	0.00233288	>0.999
Rph1	n=200		
Source	Annotation	pval	Bonfp
Deletions Consortium (Essentiality, Mo	Morphology - WT	4.10E-06	4.51E-05
GO Biological Process	response to stress [GO:0006950]	5.73E-05	0.07902487
MIPS Protein Classes	Transcription factors	0.00192745	0.3662155
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.0014536	0.3764824
MIPS Functional Classification	other transcription activities	0.00207275	0.53684225
PFam-A Domains	PF00498 (FHA)	0.00057382	0.67998026
MIPS Functional Classification	stress response	0.003762	0.974358
PFam-A Domains	PF02786 (CPSase_L_D2)	0.00101923	>0.999
GO Biological Process	carbohydrate catabolism [GO:0016052]	0.0046866	>0.999
PFam-A Domains	PF00289 (CPSase_L_chain)	0.00101923	>0.999
GO Molecular Function	transcriptional repressor [GO:0016564]	0.00437089	>0.999
GO Biological Process	sporulation [GO:0030435]	0.00378224	>0.999
Rpn4	n=200		
Source	Annotation	pval	Bonfp
Proteome Localization--Observed	cyto	0.00284451	0.03128961
Cellzome Complexes	YDR062W (LCB2)	7.28E-05	0.0334331
MIPS Subcellular Localization	vacuolar membrane	0.0013264	0.0557088
MIPS Subcellular Localization	vacuole	0.001505	0.06321
MIPS Functional Classification	purine ribonucleotide metabolism	0.00049144	0.12728244
GO Biological Process	purine nucleotide metabolism [GO:0006163]	0.00010322	0.14243808
SMART Domains	KISc	0.00059642	0.17534836

GO Biological Process	sporulation [GO:0030435]	0.00020538	0.28342026
MIPS Protein Classes	Cys2His2 zinc-finger	0.00173371	0.3294049
PFam-A Domains	PF00096 (zf-C2H2)	0.00031682	0.37542696
GO Biological Process	ion homeostasis [GO:0006873]	0.00027919	0.3852753
MIPS Functional Classification	vacuolar transport	0.00167874	0.43479366
MIPS Protein Classes	Kinesines	0.00233288	0.4432472
GO Cellular Component	hydrogen-translocating V-type ATPase complex [GO:0016471]	0.00135467	0.4470411
Cellzome Complexes	YBR207W (FTH1)	0.00101923	0.46782657
GO Biological Process	vacuolar transport [GO:0007034]	0.00044362	0.61219974
MIPS Functional Classification	transport ATPases	0.00251429	0.65120111
GO Biological Process	cation homeostasis [GO:0030003]	0.00047438	0.65464992
MIPS Protein Classes	ion-transport ATPases	0.00353338	0.6713422
PFam-A Domains	PF00225 (kinesin)	0.00059642	0.70676126
Cellzome Complexes	YGR020C (VMA7)	0.00159254	0.73097586
GO Biological Process	ribonucleotide metabolism [GO:0009259]	0.00057382	0.79187574
GO Biological Process	purine ribonucleotide metabolism [GO:0009150]	0.00057382	0.79187574
MIPS Functional Classification	cation transporters	0.00307229	0.79572311
GO Biological Process	copper homeostasis [GO:0006878]	0.00059642	0.82306374
GO Cellular Component	26S proteasome [GO:0005837]	0.00251429	0.8297157
MIPS Functional Classification	ion transporters	0.00322967	0.83648453
GO Cellular Component	vacuolar membrane [GO:0005774]	0.00353338	>0.999
GO Biological Process	nicotinamide adenine dinucleotide metabolism [GO:0019674]	0.00437089	>0.999
GO Biological Process	homeostasis [GO:0019725]	0.0007653	>0.999
GO Biological Process	nucleotide metabolism [GO:0009117]	0.00099326	>0.999
GO Biological Process	hydrogen ion homeostasis [GO:0030641]	0.00099326	>0.999
GO Biological Process	sporulation (sensu Saccharomyces) [GO:0007151]	0.00440471	>0.999
GO Biological Process	purine nucleoside monophosphate metabolism [GO:0009126]	0.00325479	>0.999
GO Biological Process	regulation of pH [GO:0006885]	0.00099326	>0.999
GO Molecular Function	transferase [GO:0016740]	0.00418089	>0.999
GO Biological Process	ribonucleotide biosynthesis [GO:0009260]	0.00437089	>0.999
GO Molecular Function	kinase [GO:0016301]	0.00399507	>0.999
GO Biological Process	ribonucleoside monophosphate metabolism [GO:0009161]	0.00325479	>0.999
MIPS Functional Classification	TRANSPORT FACILITATION	0.00484406	>0.999
GO Molecular Function	hydrogen-/sodium-translocating ATPase [GO:0015442]	0.00234057	>0.999

SMART Domains	ZnF_C2H2	0.00483174	>0.999
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00105549	>0.999
MIPS Functional Classification	homeostasis of protons	0.0046866	>0.999
GO Biological Process	monovalent inorganic cation homeostasis [GO:0030004]	0.00271949	>0.999
GO Biological Process	vacuolar acidification [GO:0007035]	0.00267631	>0.999
MDS Proteomics Complexes	YPR110C (RPC40)	0.00436537	>0.999
GO Biological Process	purine nucleotide biosynthesis [GO:0006164]	0.00078341	>0.999
GO Biological Process	purine ribonucleoside monophosphate metabolism [GO:0009167]	0.00325479	>0.999
GO Biological Process	nucleoside monophosphate metabolism [GO:0009123]	0.00437089	>0.999
GO Molecular Function	hydrogen-transporting two-sector ATPase [GO:0003936]	0.00234057	>0.999
GO Biological Process	nucleotide biosynthesis [GO:0009165]	0.00326287	>0.999
GO Biological Process	purine ribonucleotide biosynthesis [GO:0009152]	0.00437089	>0.999
Rsc3	n=200		
Source	Annotation	pval	Bonfp
MIPS Protein Classes	Histones	8.69E-09	1.65E-06
PFam-A Domains	PF00125 (histone)	3.25E-09	3.85E-06
MIPS Protein Complexes	Nucleosomal protein complex	2.53E-08	7.96E-06
GO Cellular Component	nucleosome [GO:0005718]	7.49E-07	0.00024731
MIPS Functional Classification	DNA synthesis and replication	7.06E-06	0.0018296
MIPS Phenotypes	other carbohydrate and lipid biosynthesis defects	1.26E-05	0.00227588
MIPS Functional Classification	deoxyribonucleotide metabolism	1.21E-05	0.00314457
GO Cellular Component	chromatin [GO:0005717]	1.93E-05	0.00638454
Proteome Localization--Predicted+Obs	en2	0.00175664	0.00702656
PFam-A Domains	PF00674 (DUP)	6.41E-06	0.00759021
MIPS Phenotypes	Carbohydrate and lipid biosynthesis defects	9.73E-05	0.01751861
GO Cellular Component	chromosome [GO:0005694]	8.34E-05	0.02753731
GO Biological Process	DNA replication [GO:0006260]	2.63E-05	0.03626516
GO Biological Process	S phase of mitotic cell cycle [GO:0000084]	3.28E-05	0.0452876
GO Biological Process	chromatin assembly/disassembly [GO:0006333]	6.11E-05	0.0842835
MIPS Functional Classification	lipid and fatty-acid transport	0.00041243	0.10681885
MIPS Functional Classification	chromosome	0.00041358	0.107118
MIPS Protein Classes	Helix-turn-helix	0.00097104	0.18449798
MIPS Functional Classification	transcriptional control	0.00083913	0.21733441

GO Cellular Component	cell [GO:0005623]	0.00078586	0.25933314
MDS Proteomics Complexes	YOL054W (PSH1)	0.000563	0.27756097
MIPS Phenotypes	Killer toxin hypersensitivity	0.0015696	0.282528
MIPS Protein Classes	associated subunits	0.0015696	0.298224
MIPS Functional Classification	METABOLISM	0.00116218	0.30100462
MIPS Protein Classes	Transcription factors	0.00183853	0.3493207
MIPS Phenotypes	other cell morphology mutants	0.00201431	0.3625758
GO Cellular Component	extracellular [GO:0005576]	0.00128371	0.4236243
MIPS Protein Classes	Homeodomain	0.00229957	0.4369183
SMART Domains	CYCLIN	0.00212688	0.62530272
SMART Domains	HOX	0.00229957	0.67607358
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	0.00205474	0.6780642
PFam-A Domains	PF00682 (HMGL-like)	0.00058769	0.69641502
MIPS Protein Complexes	Replication fork complexes	0.00228972	0.7212618
GO Cellular Component	cell wall [GO:0005618]	0.00243573	0.8037909
GO Cellular Component	external protective structure [GO:0030312]	0.00243573	0.8037909
GO Biological Process	DNA metabolism [GO:0006259]	0.0006324	0.87270786
MIPS Protein Classes	Cyclins	0.00460355	0.8746745
MDS Proteomics Complexes	YER133W (GLC7)	0.00430951	>0.999
GO Biological Process	double-strand break repair via synthesis-dependent strand annealing [GO:0045003]	0.0032087	>0.999
GO Molecular Function	DNA binding [GO:0003677]	0.00260697	>0.999
MIPS Protein Complexes	Replication complexes	0.00425946	>0.999
MIPS Functional Classification	mRNA synthesis	0.00459568	>0.999
PFam-A Domains	PF00134 (cyclin)	0.00132964	>0.999
GO Biological Process	DNA replication and chromosome cycle [GO:0000067]	0.00457128	>0.999
GO Biological Process	lipid metabolism [GO:0006629]	0.00084774	>0.999
Rsc30	n=199		
Source	Annotation	pval	Bonfp
PFam-A Domains	PF00674 (DUP)	4.27E-07	0.00050571
Proteome Localization--Observed	cyto	0.00250785	0.02758635
MIPS Subcellular Localization	cytoplasm	0.00181589	0.07626738
MIPS Functional Classification	lipid and fatty-acid transport	0.00041243	0.10681885
GO Cellular Component	nuclear chromosome [GO:0000228]	0.00039965	0.13188483

MIPS Functional Classification	METABOLISM	0.00064434	0.16688458
PFam-A Domains	PF02133 (Transp_cyt_pur)	0.00017827	0.21124403
MIPS Phenotypes	Killer toxin hypersensitivity	0.0015696	0.282528
PFam-A Domains	PF00660 (SRP1_TIP1)	0.00029836	0.35355897
MIPS Protein Classes	Histones	0.00430951	0.8188069
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.00070884	0.97819368
Rtg3	n=199		
Source	Annotation	pval	Bonfp
Proteome Localization--Predicted+Obs	en2	0.00097084	0.00388335
GO Biological Process	amine metabolism [GO:0009308]	4.91E-06	0.00678155
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	6.80E-06	0.00938045
GO Biological Process	amino acid metabolism [GO:0006520]	7.77E-06	0.01072502
GO Molecular Function	asparaginase [GO:0004067]	1.41E-05	0.01938844
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	1.73E-05	0.02387621
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	0.00010968	0.03619374
GO Biological Process	aspartate family amino acid metabolism [GO:0009066]	3.48E-05	0.04806305
MIPS Functional Classification	amino acid metabolism	0.00023739	0.06148505
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	6.25E-05	0.08622613
MIPS Functional Classification	transport ATPases	0.00041358	0.107118
MIPS Protein Classes	ion-transport ATPases	0.00062625	0.11898769
MIPS Functional Classification	purine ribonucleotide metabolism	0.00047679	0.12348913
MIPS Functional Classification	homeostasis of protons	0.00071459	0.18507752
GO Molecular Function	enzyme [GO:0003824]	0.00016167	0.22262097
MIPS Functional Classification	cell wall	0.00112286	0.29082074
MIPS Protein Classes	AGC group	0.00169595	0.3222305
GO Biological Process	amino acid catabolism [GO:0009063]	0.00024821	0.3425229
GO Biological Process	amine catabolism [GO:0009310]	0.00024821	0.3425229
GO Molecular Function	hydrogen-transporting two-sector ATPase [GO:0003936]	0.00029836	0.41084447
GO Molecular Function	hydrogen-/sodium-translocating ATPase [GO:0015442]	0.00029836	0.41084447
Cellzome Complexes	YNL313C	0.00100443	0.46103337
GO Biological Process	response to starvation [GO:0009267]	0.00039965	0.55151838
GO Cellular Component	cell [GO:0005623]	0.00205075	0.6767475
Cellzome Complexes	YGR020C (VMA7)	0.0015696	0.7204464

GO Cellular Component	intracellular [GO:0005622]	0.00219324	0.7237692
GO Biological Process	glutamine family amino acid metabolism [GO:0009064]	0.00060794	0.8389503
MIPS Functional Classification	METABOLISM	0.0035034	0.9073806
MIPS Functional Classification	regulation of amino acid metabolism	0.00353056	0.91441504
GO Cellular Component	nuclear membrane [GO:0005635]	0.00288721	0.9527793



Sfl1	n=200		
Source	Annotation	pval	Bonfp
Proteome Localization--Predicted+Obs	cyt	0.00188715	0.0075486
Proteome Localization--Observed	cyto	0.00284451	0.03128961
MIPS Protein Complexes	Cytoplasmic translation elongation	0.00011184	0.03523055
GO Molecular Function	translation elongation factor [GO:0003746]	3.29E-05	0.04529311
MIPS Protein Classes	Transcription factors	0.00065715	0.12485755
Cellzome Complexes	YAL029C (MYO4)	0.00040738	0.1869888
MIPS Functional Classification	perception of nutrients and nutritional adaptation	0.00099326	0.2572546
MIPS Functional Classification	plasma membrane	0.00161284	0.41772556
GO Biological Process	translational elongation [GO:0006414]	0.00042209	0.5824842
MIPS Functional Classification	METABOLISM	0.00228836	0.59268524
MIPS Protein Classes	Cyclins	0.00468663	0.8904597
GO Biological Process	hydrogen ion homeostasis [GO:0030641]	0.00099326	>0.999
GO Biological Process	monovalent inorganic cation homeostasis [GO:0030004]	0.00271949	>0.999
GO Molecular Function	transcriptional repressor [GO:0016564]	0.00437089	>0.999
GO Biological Process	regulation of pH [GO:0006885]	0.00099326	>0.999
MIPS Functional Classification	translation	0.00403694	>0.999
GO Molecular Function	transferase [GO:0016740]	0.00418089	>0.999
GO Molecular Function	kinase [GO:0016301]	0.00148127	>0.999
GO Molecular Function	hydrogen-transporting two-sector ATPase [GO:0003936]	0.00234057	>0.999
Yeast Two Hybrid - Ito (core)	YER081W (SER3)	0.0029212	>0.999
MIPS Functional Classification	TRANSPORT FACILITATION	0.00484406	>0.999
GO Molecular Function	hydrogen-/sodium-translocating ATPase [GO:0015442]	0.00234057	>0.999
MDS Proteomics Complexes	YJL173C (RFA3)	0.00325479	>0.999
GO Molecular Function	carbohydrate kinase [GO:0019200]	0.0010418	>0.999
Sfp1	n=200		

Source	Annotation	pval	Bonfp
Published Complexes	Harnicharnpai et al. (2001) - Mol Cell 8:505-	0.00060794	0.00425555
MIPS Subcellular Localization	cytoplasm	0.00351619	0.14767998
SMART Domains	ZnF_C2H2	0.00091774	0.26981674
MIPS Protein Classes	Cys2His2 zinc-finger	0.00168984	0.3210696
MIPS Phenotypes	other cell wall mutants	0.00205474	0.3698532
MDS Proteomics Complexes	YNL175C (NOP13)	0.00076874	0.37898981
MDS Proteomics Complexes	YBL036C	0.00100443	0.49518399
MDS Proteomics Complexes	YNL230C (ELA1)	0.00140129	0.69083597
MIPS Protein Complexes	Cytoplasmic translation elongation	0.00229957	0.72436455
GO Biological Process	aromatic compound metabolism [GO:0006725]	0.00071377	0.98499846
GO Biological Process	membrane lipid biosynthesis [GO:0046467]	0.00425946	>0.999
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00329331	>0.999
GO Cellular Component	cell [GO:0005623]	0.00321478	>0.999
PFam-A Domains	PF00096 (zf-C2H2)	0.00192027	>0.999
MIPS Functional Classification	homeostasis of protons	0.00458777	>0.999
MDS Proteomics Complexes	YPL259C (APM1)	0.00262786	>0.999
GO Biological Process	protein-nucleus import [GO:0006606]	0.00275548	>0.999
GO Biological Process	nucleobase metabolism [GO:0009112]	0.00166253	>0.999
GO Biological Process	biosynthesis [GO:0009058]	0.00446223	>0.999
Cellzome Complexes	YKL081W (TEF4)	0.00430951	>0.999
MIPS Functional Classification	translation	0.00392687	>0.999
MDS Proteomics Complexes	YIL035C (CKA1)	0.00425946	>0.999
GO Biological Process	nucleobase biosynthesis [GO:0046112]	0.00262786	>0.999
Sip4	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate utilization	7.85E-06	0.00203401
MIPS Functional Classification	glyoxylate cycle	1.44E-05	0.00372022
MIPS Functional Classification	ENERGY	1.46E-05	0.00377272
MIPS Subcellular Localization	cytoplasm	0.00010113	0.00424746
GO Biological Process	carbohydrate metabolism [GO:0005975]	4.33E-06	0.00597053
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	5.15E-06	0.00710926
GO Biological Process	alcohol metabolism [GO:0006066]	1.96E-05	0.02699321

Proteome Localization--Predicted+Obs	cyt	0.0103009	0.0412036
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	4.15E-05	0.05725758
GO Biological Process	energy pathways [GO:0006091]	4.15E-05	0.05725758
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.00027825	0.07206701
MDS Proteomics Complexes	YLR340W (RPP0)	0.00018176	0.08960817
MIPS Functional Classification	METABOLISM	0.00039781	0.10303227
MIPS Subcellular Localization	mitochondria	0.00278128	0.11681376
GO Cellular Component	cytoplasm [GO:0005737]	0.00039662	0.13088427
GO Cellular Component	cytosol [GO:0005829]	0.00082212	0.27129927
MDS Proteomics Complexes	YDR499W (LCD1)	0.00059642	0.29403654
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00183251	0.3481769
MIPS Functional Classification	detoxification	0.00144542	0.37436378
GO Cellular Component	ribosome [GO:0005840]	0.00139752	0.4611816
MIPS Protein Complexes	Translation complexes	0.00160867	0.50673105
GO Molecular Function	amino acid-polyamine transporter [GO:0005279]	0.00059642	0.82127447
GO Molecular Function	polyamine transporter [GO:0015203]	0.00059642	0.82127447
MIPS Protein Classes	Histones	0.00437089	0.8304691
MIPS Functional Classification	ribosome biogenesis	0.0034766	0.9004394
Skn7	n=200		
Source	Annotation	pval	Bonfp
GO Cellular Component	extracellular [GO:0005576]	0.00132967	0.4387911
GO Cellular Component	oligosaccharyl transferase complex [GO:0008250]	0.00159254	0.5255382
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	0.00212059	0.6997947
MIPS Protein Complexes	Oligosaccharyltransferase	0.00233288	0.7348572
GO Biological Process	glutathione metabolism [GO:0006749]	0.00059642	0.82306374
GO Cellular Component	cell wall [GO:0005618]	0.0025201	0.831633
GO Cellular Component	external protective structure [GO:0030312]	0.0025201	0.831633
Smp1	n=198		
Source	Annotation	pval	Bonfp
MDS Proteomics Complexes	YDL175C (AIR2)	0.00098977	0.48795858
Spt15	n=200		

Source	Annotation	pval	Bonfp
GO Cellular Component	chromosome [GO:0005694]	7.14E-05	0.0235556
MIPS Subcellular Localization	chromosome structure	0.00060415	0.02537438
GO Cellular Component	mitotic chromosome [GO:0005708]	0.00053143	0.17537091
MDS Proteomics Complexes	YCR002C (CDC10)	0.000562	0.27706551
MIPS Functional Classification	chromosome	0.00227081	0.58813979
PFam-A Domains	PF00970 (FAD_binding_6)	0.000562	0.66596882
Cellzome Complexes	YFL017W-A (SMX2)	0.00160329	0.73591011
GO Biological Process	mitotic chromosome condensation [GO:0007076]	0.00220143	>0.999
GO Molecular Function	oxidoreductase [GO:0016491]	0.00286598	>0.999
PFam-A Domains	PF00175 (NAD_binding)	0.00150207	>0.999
GO Biological Process	amine metabolism [GO:0009308]	0.00259873	>0.999
GO Biological Process	amino acid metabolism [GO:0006520]	0.00136469	>0.999
GO Biological Process	biosynthesis [GO:0009058]	0.00097008	>0.999
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	0.00232405	>0.999
GO Biological Process	amino acid biosynthesis [GO:0008652]	0.00174138	>0.999
GO Biological Process	amine biosynthesis [GO:0009309]	0.00274067	>0.999
GO Biological Process	mitotic prophase [GO:0000088]	0.00220143	>0.999
Srd1	n=197		
Source	Annotation	pval	Bonfp
Proteome Localization--Predicted+Obsen2		0.00277149	0.01108596
GO Molecular Function	asparaginase [GO:0004067]	1.35E-05	0.01862475
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	0.00010544	0.0347952
GO Cellular Component	cell wall [GO:0005618]	0.00012974	0.04281288
GO Cellular Component	external protective structure [GO:0030312]	0.00012974	0.04281288
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	6.01E-05	0.08287259
GO Cellular Component	cell wall (sensu Fungi) [GO:0009277]	0.00042458	0.14010975
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	0.00017142	0.23656098
MIPS Functional Classification	CLASSIFICATION NOT YET CLEAR-CUT	0.00091464	0.23689228
MIPS Functional Classification	cell wall	0.00106538	0.27593342
GO Cellular Component	extracellular [GO:0005576]	0.00119564	0.3945612
GO Biological Process	response to starvation [GO:0009267]	0.00038451	0.5306169
MIPS Functional Classification	regulation of amino acid metabolism	0.00338017	0.87546403

Stb3	n=200		
Source	Annotation	pval	Bonfp
GO Cellular Component	nucleolus [GO:0005730]	3.15E-08	1.04E-05
GO Biological Process	ribosome biogenesis and assembly [GO:0042254]	4.59E-08	6.33E-05
MIPS Functional Classification	PROTEIN SYNTHESIS	8.81E-07	0.00022829
GO Biological Process	ribosome biogenesis [GO:0007046]	4.53E-07	0.00062579
MIPS Subcellular Localization	cytoplasm	1.87E-05	0.00078465
GO Cellular Component	ribonucleoprotein complex [GO:0030529]	2.90E-06	0.00095806
GO Biological Process	transcription from Pol I promoter [GO:0006360]	7.11E-07	0.00098163
GO Cellular Component	polysome [GO:0005844]	3.58E-06	0.0011801
Published Complexes	Andersen et al. (2002) - Curr Bio 12:1-	0.00022865	0.00160054
GO Biological Process	biosynthesis [GO:0009058]	1.32E-06	0.0018197
GO Cellular Component	ribosome [GO:0005840]	6.47E-06	0.00213565
MDS Proteomics Complexes	YOL115W (TRF4)	6.97E-06	0.00343472
GO Biological Process	rRNA processing [GO:0006364]	2.84E-06	0.00391676
Published Complexes	Harnicharnpai et al. (2001) - Mol Cell 8:505-	0.00062431	0.00437018
Cellzome Complexes	YJL033W (HCA4)	1.32E-05	0.00606082
MIPS Subcellular Localization	nucleolus	0.00015855	0.0066591
GO Biological Process	RNA metabolism [GO:0016070]	5.08E-06	0.00701665
GO Biological Process	RNA processing [GO:0006396]	6.58E-06	0.00908244
Cellzome Complexes	YLR175W (CBF5)	2.08E-05	0.00953729
Published Complexes	Kressler et al. (1999) - Mol Cell Bio 19(12)7897- (C/D Box)	0.00233288	0.01633016
GO Biological Process	protein biosynthesis [GO:0006412]	1.70E-05	0.02348691
Deletions Consortium (Essentiality, Mo	Morphology - Football	0.00255218	0.02807398
MDS Proteomics Complexes	YOR080W (DIA2)	6.40E-05	0.03155555
GO Biological Process	macromolecule biosynthesis [GO:0009059]	2.35E-05	0.03248727
GO Biological Process	metabolism [GO:0008152]	3.49E-05	0.04821941
Cellzome Complexes	YBR079C (RPG1)	0.00011184	0.05133594
Cellzome Complexes	YPR086W (SUA7)	0.00011184	0.05133594
MIPS Protein Complexes	Cytoplasmic translation initiation	0.00016555	0.05214668
Cellzome Complexes	YBR247C (ENP1)	0.00013224	0.06069678
MIPS Protein Complexes	Translation complexes	0.00021276	0.06701814
MDS Proteomics Complexes	YNL230C (ELA1)	0.00016555	0.08161369

MDS Proteomics Complexes	YDL213C (FYV14)	0.00021041	0.10373065
MDS Proteomics Complexes	YMR059W (SEN15)	0.00027543	0.13578847
MIPS Functional Classification	rRNA transcription	0.00065997	0.17093145
GO Cellular Component	eukaryotic translation initiation factor 3 complex [GO:0005852]	0.00059642	0.19681959
GO Cellular Component	cell [GO:0005623]	0.00062635	0.20669451
MIPS Functional Classification	rRNA processing	0.00080198	0.20771334
GO Cellular Component	intracellular [GO:0005622]	0.00066949	0.22093203
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00020863	0.28790802
MIPS Functional Classification	SUBCELLULAR LOCALISATION	0.00123621	0.32017839
MIPS Protein Complexes	eIF3	0.00101923	0.32105745
MIPS Functional Classification	amino acid biosynthesis	0.00128165	0.33194735
GO Molecular Function	translation initiation factor [GO:0003743]	0.00025187	0.34682637
Cellzome Complexes	YPR016C (TIF6)	0.00078341	0.35958703
MDS Proteomics Complexes	YNL175C (NOP13)	0.00078341	0.3862231
MDS Proteomics Complexes	YIL035C (CKA1)	0.00083514	0.41172303
Cellzome Complexes	YCR057C (PWP2)	0.00099658	0.45743114
Cellzome Complexes	YGR162W (TIF4631)	0.0010418	0.4781862
MDS Proteomics Complexes	YLR427W	0.00099326	0.48967767
MDS Proteomics Complexes	YOL087C	0.0010418	0.5136074
GO Biological Process	35S primary transcript processing [GO:0006365]	0.00042635	0.58835886
Cellzome Complexes	YDL208W (NHP2)	0.00135467	0.62179353
Cellzome Complexes	YPR041W (TIF5)	0.00135467	0.62179353
GO Cellular Component	small nucleolar ribonucleoprotein complex [GO:0005732]	0.00200157	0.6605181
SMART Domains	COIL	0.00230265	0.6769791
Cellzome Complexes	YOR361C (PRT1)	0.00159254	0.73097586
Cellzome Complexes	YNL061W (NOP2)	0.00172766	0.79299594
MIPS Functional Classification	cell death	0.00325479	0.84299061
Cellzome Complexes	YNL016W (PUB1)	0.00216637	0.99436383
GO Molecular Function	lyase [GO:0016829]	0.00170628	>0.999
GO Cellular Component	cytosolic ribosome (sensu Eukarya) [GO:0005830]	0.0030707	>0.999
GO Biological Process	rRNA metabolism [GO:0016072]	0.00172766	>0.999
GO Biological Process	processing of 20S pre-rRNA [GO:0030490]	0.00234057	>0.999
GO Biological Process	ribosomal subunit assembly [GO:0042257]	0.00073539	>0.999
PFam-A Domains	PF00076 (rrm)	0.00483174	>0.999

GO Molecular Function	enzyme [GO:0003824]	0.00168829	>0.999
Cellzome Complexes	YAL035W (FUN12)	0.00233288	>0.999
MDS Proteomics Complexes	YER161C (SPT2)	0.00393128	>0.999
GO Cellular Component	cytosolic large ribosomal subunit (sensu Eukarya) [GO:0005842]	0.00474504	>0.999
GO Biological Process	ribosomal large subunit assembly and maintenance [GO:0000027]	0.0046866	>0.999
GO Molecular Function	ligase [GO:0016874]	0.00311086	>0.999
GO Biological Process	RNA modification [GO:0009451]	0.0013264	>0.999
MDS Proteomics Complexes	YER082C (UTP7)	0.00267631	>0.999
GO Biological Process	aspartate family amino acid metabolism [GO:0009066]	0.00173371	>0.999
GO Biological Process	rRNA modification [GO:0000154]	0.00135467	>0.999
MIPS Protein Complexes	Cytoplasmic ribosomes	0.00442721	>0.999
MIPS Functional Classification	translation	0.00403694	>0.999
GO Molecular Function	snoRNA binding [GO:0030515]	0.00200157	>0.999
PFam-A Domains	PF00587 (tRNA-synt_2b)	0.00233288	>0.999
GO Biological Process	ribosome assembly [GO:0042255]	0.00094528	>0.999
GO Biological Process	translational initiation [GO:0006413]	0.00099658	>0.999
Stp2	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	amino acid metabolism	1.66E-10	4.29E-08
MIPS Functional Classification	amino acid transport	6.65E-10	1.72E-07
PFam-A Domains	PF00324 (aa_permeases)	3.86E-10	4.58E-07
MIPS Functional Classification	amino-acid transporters	1.80E-09	4.65E-07
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	2.72E-09	5.16E-07
GO Molecular Function	amino acid transporter [GO:0015171]	3.86E-10	5.32E-07
MIPS Functional Classification	METABOLISM	3.22E-08	8.34E-06
GO Cellular Component	plasma membrane [GO:0005886]	3.37E-08	1.11E-05
GO Biological Process	amino acid transport [GO:0006865]	1.52E-08	2.10E-05
MIPS Functional Classification	TRANSPORT FACILITATION	1.29E-07	3.35E-05
Deletions Consortium (Essentiality, Mo	Morphology - WT	7.59E-05	0.00083481
Proteome Localization--Observed	cell periphery	0.000166	0.00182602
GO Molecular Function	amine/polyamine transporter [GO:0005275]	1.59E-06	0.00219147
GO Molecular Function	transporter [GO:0005215]	1.68E-06	0.00230897
MIPS Functional Classification	plasma membrane	9.92E-06	0.0025683

PFam-A Domains	PF00674 (DUP)	6.41E-06	0.00759021
Proteome Localization--Predicted+Obs	cyt	0.00360971	0.01443884
GO Molecular Function	polyamine transporter [GO:0015203]	1.41E-05	0.01938844
GO Molecular Function	amino acid-polyamine transporter [GO:0005279]	1.41E-05	0.01938844
Proteome Localization--Observed	cyto	0.00250785	0.02758635
MIPS Functional Classification	amino acid biosynthesis	0.00033517	0.08681007
MIPS Phenotypes	Nitrogen utilization	0.0015696	0.282528
SMART Domains	HMG	0.00100443	0.29530242
GO Cellular Component	integral plasma membrane protein [GO:0005887]	0.00097104	0.32044386
SMART Domains	TRANS	0.00133526	0.39256644
GO Cellular Component	membrane [GO:0016020]	0.00139256	0.4595448
MDS Proteomics Complexes	YOL126C (MDH2)	0.00100443	0.49518399
MIPS Functional Classification	ion transporters	0.00313155	0.81107145
GO Molecular Function	vitamin/cofactor transporter [GO:0015223]	0.00100443	>0.999
GO Molecular Function	porter [GO:0015291]	0.00163096	>0.999
PFam-A Domains	PF00501 (AMP-binding)	0.00229957	>0.999
MDS Proteomics Complexes	YDR142C (PEX7)	0.00294706	>0.999
MIPS Functional Classification	cellular import	0.0042903	>0.999
MIPS Functional Classification	transcriptional control	0.00441946	>0.999
PFam-A Domains	PF00505 (HMG_box)	0.00100443	>0.999
GO Biological Process	nitrogen metabolism [GO:0006807]	0.00266076	>0.999
GO Molecular Function	transcriptional repressor [GO:0016564]	0.00430951	>0.999
GO Molecular Function	channel/pore class transporter [GO:0015267]	0.00430951	>0.999
MIPS Functional Classification	lipid and fatty-acid transport	0.0038611	>0.999
GO Molecular Function	alpha-type channel [GO:0015268]	0.0032087	>0.999
GO Molecular Function	electrochemical potential-driven transporter [GO:0015290]	0.00163096	>0.999
Stp4	n=200		
Source	Annotation	pval	Bonfp
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	2.72E-09	5.16E-07
Proteome Localization--Predicted+Obs	cyt	5.70E-05	0.00022819
Deletions Consortium (Essentiality, Mo	Morphology - WT	7.59E-05	0.00083481
MIPS Functional Classification	TRANSPORT FACILITATION	4.91E-06	0.00127208
Proteome Localization--Observed	cyto	0.00086686	0.00953547

GO Cellular Component	plasma membrane [GO:0005886]	4.37E-05	0.01442909
MIPS Functional Classification	amino-acid transporters	0.00010161	0.02631595
MIPS Functional Classification	plasma membrane	0.00014315	0.03707585
Proteome Localization--Observed	cell periphery	0.00392687	0.04319557
PFam-A Domains	PF00324 (aa_permeases)	4.64E-05	0.05493482
GO Molecular Function	amino acid transporter [GO:0015171]	4.64E-05	0.06383566
MIPS Functional Classification	homeostasis of anions	0.000563	0.14581804
MIPS Functional Classification	amino acid transport	0.0006476	0.16772866
GO Molecular Function	transporter [GO:0005215]	0.0002692	0.37069391
GO Molecular Function	anion transporter [GO:0008509]	0.00032248	0.44404808
GO Cellular Component	cell [GO:0005623]	0.00205075	0.6767475
MIPS Functional Classification	phosphate transport	0.0032087	0.8310533
GO Biological Process	amino acid transport [GO:0006865]	0.0006476	0.89368938
GO Biological Process	phosphate transport [GO:0006817]	0.00229957	>0.999
GO Molecular Function	channel/pore class transporter [GO:0015267]	0.00430951	>0.999
GO Biological Process	anion transport [GO:0006820]	0.00079715	>0.999
GO Molecular Function	amine/polyamine transporter [GO:0005275]	0.0015696	>0.999
GO Molecular Function	alpha-type channel [GO:0015268]	0.0032087	>0.999
GO Biological Process	inorganic anion transport [GO:0015698]	0.00102243	>0.999
MDS Proteomics Complexes	YDR142C (PEX7)	0.00294706	>0.999
MIPS Functional Classification	cellular import	0.0042903	>0.999
GO Molecular Function	inorganic anion transporter [GO:0015103]	0.0015696	>0.999
Sum1	n=199		
Source	Annotation	pval	Bonfp
Proteome Localization--Observed	mixed (cyto / nuc)	0.00028258	0.00310841
Proteome Localization--Predicted+Obs	nuc	0.00086602	0.00346408
Published Complexes	Andersen et al. (2002) - Curr Bio 12:1-	0.00215171	0.01506197
MIPS Subcellular Localization	nucleus	0.00037949	0.01593862
GO Cellular Component	nucleus [GO:0005634]	7.80E-05	0.02572485
MIPS Functional Classification	transport mechanism	0.00205474	0.53217766
Sut2	n=200		
Source	Annotation	pval	Bonfp

Proteome Localization--Observed	cyto	0.00284451	0.03128961
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00432221	0.04754431
GO Biological Process	organic anion transport [GO:0015711]	0.00018176	0.25083018
GO Cellular Component	peroxisomal matrix [GO:0005782]	0.0010418	0.343794
GO Molecular Function	hexose transporter [GO:0015149]	0.00025409	0.34987918
GO Molecular Function	monosaccharide transporter [GO:0015145]	0.00025409	0.34987918
GO Biological Process	carbohydrate transport [GO:0008643]	0.00030657	0.42306108
GO Biological Process	monosaccharide transport [GO:0015749]	0.00053221	0.73444704
GO Biological Process	hexose transport [GO:0008645]	0.00053221	0.73444704
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00316469	0.81965471
MDS Proteomics Complexes	YOR181W (LAS17)	0.00172766	0.85173638
Tbf1	n=200		
Source	Annotation	pval	Bonfp
MIPS Phenotypes	Flocculence	0.00078341	0.14101452
Yeast Two Hybrid - Ito (core)	YDL239C (ADY3)	0.00099326	0.44597419
MIPS Protein Classes	Protein Kinases	0.00400314	0.7605966
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00062906	0.86810694
Tbs1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	TRANSPORT FACILITATION	4.54E-07	0.00011757
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00013926	0.00153189
MIPS Protein Complexes	Cytoplasmic ribosomes	0.0001101	0.03468182
MIPS Functional Classification	phosphate transport	0.00017827	0.04617064
MIPS Functional Classification	METABOLISM	0.00018366	0.04756872
GO Molecular Function	transporter [GO:0005215]	4.01E-05	0.05526975
GO Cellular Component	cytosolic ribosome (sensu Eukarya) [GO:0005830]	0.00028686	0.09466413
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.0005345	0.10155481
MIPS Functional Classification	ribosome biogenesis	0.00044144	0.114334
MIPS Functional Classification	plasma membrane	0.00048809	0.12641505
MIPS Functional Classification	glyoxylate cycle	0.00058769	0.15221223
GO Cellular Component	plasma membrane [GO:0005886]	0.00049284	0.16263687
GO Cellular Component	ribosome [GO:0005840]	0.00050058	0.16518975

MIPS Functional Classification	drug transporters	0.00071459	0.18507752
MIPS Functional Classification	ion transporters	0.00074916	0.19403322
MIPS Protein Complexes	cytoplasmic ribosomal large subunit	0.00098738	0.31102565
GO Molecular Function	structural constituent of ribosome [GO:0003735]	0.00026675	0.36731888
GO Cellular Component	cytosolic large ribosomal subunit (sensu Eukarya) [GO:0005842]	0.00117788	0.3887004
GO Cellular Component	membrane [GO:0016020]	0.00139256	0.4595448
MIPS Protein Complexes	Translation complexes	0.00152318	0.4798017
GO Cellular Component	large ribosomal subunit [GO:0015934]	0.00161591	0.5332503
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00308668	0.79945012
GO Molecular Function	ABC-type efflux porter [GO:0015427]	0.00058769	0.80925188
GO Molecular Function	galactose transporter [GO:0005354]	0.00058769	0.80925188
GO Biological Process	response to drug [GO:0042493]	0.0006476	0.89368938
PFam-A Domains	PF00096 (zf-C2H2)	0.00192027	>0.999
PFam-A Domains	PF00083 (sugar_tr)	0.00130695	>0.999
GO Biological Process	phosphate transport [GO:0006817]	0.00229957	>0.999
MIPS Functional Classification	detoxification	0.00489268	>0.999
GO Biological Process	TCA intermediate metabolism [GO:0006100]	0.0038611	>0.999
GO Molecular Function	structural molecule [GO:0005198]	0.00186394	>0.999
GO Biological Process	ion transport [GO:0006811]	0.00326014	>0.999
GO Molecular Function	drug transporter [GO:0015238]	0.0015696	>0.999
SMART Domains	ZnF_C2H2	0.00471515	>0.999
GO Biological Process	carbohydrate transport [GO:0008643]	0.00228972	>0.999
GO Molecular Function	monosaccharide transporter [GO:0015145]	0.00262786	>0.999
GO Biological Process	hexose transport [GO:0008645]	0.00460355	>0.999
GO Biological Process	monosaccharide transport [GO:0015749]	0.00460355	>0.999
PFam-A Domains	PF00107 (adh_zinc)	0.0038611	>0.999
GO Molecular Function	multidrug transporter [GO:0015239]	0.0015696	>0.999
GO Molecular Function	hexose transporter [GO:0015149]	0.00262786	>0.999
Tea1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	METABOLISM	1.03E-12	2.66E-10
MIPS Functional Classification	C-compound and carbohydrate metabolism	4.25E-10	1.10E-07
SMART Domains	Amy	7.38E-08	2.17E-05

PFam-A Domains	PF00128 (alpha-amylase)	2.53E-08	2.99E-05
MIPS Functional Classification	C-compound and carbohydrate utilization	5.92E-07	0.00015327
GO Biological Process	alcohol metabolism [GO:0006066]	5.45E-07	0.00075182
GO Molecular Function	alpha-glucosidase [GO:0004558]	6.13E-07	0.00084355
GO Biological Process	carbohydrate metabolism [GO:0005975]	4.03E-06	0.00555867
MIPS Functional Classification	ENERGY	4.30E-05	0.01112783
Proteome Localization--Observed	mixed (cyto / ER)	0.00107923	0.01187153
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.97E-05	0.02708022
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00014982	0.02846637
MIPS Functional Classification	TRANSPORT FACILITATION	0.00012401	0.03211963
MIPS Protein Classes	Cys6 cysteine-zinc cluster	0.00020327	0.03862206
PFam-A Domains	PF00083 (sugar_tr)	3.61E-05	0.04281784
GO Biological Process	carbohydrate transport [GO:0008643]	3.20E-05	0.0442083
GO Biological Process	hexose transport [GO:0008645]	4.64E-05	0.06397473
GO Biological Process	monosaccharide transport [GO:0015749]	4.64E-05	0.06397473
GO Molecular Function	enzyme [GO:0003824]	4.75E-05	0.06545996
SMART Domains	GAL4	0.00026617	0.07825427
GO Biological Process	carbohydrate catabolism [GO:0016052]	9.25E-05	0.12759839
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00054747	0.14179577
GO Molecular Function	transporter [GO:0005215]	0.00010627	0.14632691
MIPS Functional Classification	glycolysis and gluconeogenesis	0.00071459	0.18507752
GO Biological Process	hexose metabolism [GO:0019318]	0.00014663	0.20234388
PFam-A Domains	PF00172 (Zn_clus)	0.00023299	0.27609078
GO Molecular Function	monosaccharide transporter [GO:0015145]	0.00024821	0.34177829
GO Molecular Function	hexose transporter [GO:0015149]	0.00024821	0.34177829
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00200137	0.3802603
GO Biological Process	monosaccharide metabolism [GO:0005996]	0.00029784	0.41101506
GO Biological Process	glucose metabolism [GO:0006006]	0.00041358	0.57074454
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	0.00048809	0.67356282
GO Biological Process	energy pathways [GO:0006091]	0.00048809	0.67356282
GO Molecular Function	glucosidase [GO:0015926]	0.0005201	0.71617082
GO Molecular Function	galactose transporter [GO:0005354]	0.00058769	0.80925188
Yeast Two Hybrid - Ito (core)	YNL189W (SRP1)	0.00491135	>0.999
GO Molecular Function	glucose transporter [GO:0005355]	0.00169595	>0.999

GO Molecular Function	fructose transporter [GO:0005353]	0.00076874	>0.999
MIPS Functional Classification	plasma membrane	0.00449122	>0.999
GO Biological Process	gluconeogenesis [GO:0006094]	0.0038611	>0.999
GO Biological Process	carbohydrate biosynthesis [GO:0016051]	0.00130695	>0.999
GO Biological Process	alcohol catabolism [GO:0046164]	0.00117162	>0.999
MIPS Functional Classification	cellular import	0.0042903	>0.999
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	0.00130695	>0.999
GO Biological Process	hexose catabolism [GO:0019320]	0.00460355	>0.999
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00206668	>0.999
GO Biological Process	disaccharide metabolism [GO:0005984]	0.00430951	>0.999
GO Biological Process	alcohol biosynthesis [GO:0046165]	0.00097104	>0.999
GO Molecular Function	mannose transporter [GO:0015578]	0.00102243	>0.999
GO Biological Process	glucose catabolism [GO:0006007]	0.00460355	>0.999
GO Biological Process	lipid metabolism [GO:0006629]	0.00252454	>0.999
Tec1	n=197		
Source	Annotation	pval	Bonfp
PFam-A Domains	PF00660 (SRP1_TIP1)	1.00E-14	1.19E-11
MIPS Functional Classification	stress response	0.00011038	0.0285892
MDS Proteomics Complexes	YGR040W (KSS1)	0.00012591	0.06207363
MIPS Subcellular Localization	extracellular	0.00253281	0.10637802
GO Biological Process	bud growth [GO:0007117]	0.00023198	0.32013378
GO Cellular Component	bud [GO:0005933]	0.00160974	0.5312142
MIPS Functional Classification	extracellular / secretion proteins	0.00308909	0.80007431
GO Biological Process	pseudohyphal growth [GO:0007124]	0.00058948	0.81348792
Tye7	n=200		
Source	Annotation	pval	Bonfp
GO Biological Process	sulfur metabolism [GO:0006790]	2.18E-12	3.01E-09
MIPS Functional Classification	amino acid metabolism	1.86E-10	4.82E-08
GO Biological Process	amino acid metabolism [GO:0006520]	2.29E-09	3.15E-06
GO Biological Process	aspartate family amino acid metabolism [GO:0009066]	2.81E-09	3.88E-06
GO Biological Process	amino acid and derivative metabolism [GO:0006519]	7.26E-09	1.00E-05
GO Biological Process	amine metabolism [GO:0009308]	9.28E-09	1.28E-05

GO Biological Process	sulfur amino acid metabolism [GO:0000096]	1.03E-08	1.43E-05
MIPS Functional Classification	amino acid biosynthesis	1.53E-07	3.97E-05
MIPS Functional Classification	METABOLISM	2.82E-06	0.00073025
GO Biological Process	amino acid catabolism [GO:0009063]	1.10E-06	0.00152431
GO Biological Process	amine catabolism [GO:0009310]	1.10E-06	0.00152431
GO Biological Process	sulfur utilization [GO:0006791]	1.63E-06	0.00225164
GO Biological Process	aspartate family amino acid catabolism [GO:0009068]	1.63E-06	0.00225164
GO Biological Process	sulfate assimilation [GO:0000103]	1.63E-06	0.00225164
GO Biological Process	methionine metabolism [GO:0006555]	1.65E-06	0.00228206
GO Biological Process	serine family amino acid metabolism [GO:0009069]	3.86E-06	0.00532407
GO Biological Process	glutamine family amino acid catabolism [GO:0009065]	6.97E-06	0.00961443
GO Molecular Function	asparaginase [GO:0004067]	1.44E-05	0.01977895
GO Molecular Function	enzyme [GO:0003824]	1.59E-05	0.02190036
MIPS Functional Classification	amino acid degradation (catabolism)	9.54E-05	0.02471787
Proteome Localization--Observed	cyto	0.00284451	0.03128961
MDS Proteomics Complexes	YGL237C (HAP2)	6.40E-05	0.03155555
GO Cellular Component	periplasmic space (sensu Fungi) [GO:0030287]	0.00011184	0.03690819
GO Biological Process	sulfur amino acid biosynthesis [GO:0000097]	3.27E-05	0.04509578
GO Biological Process	cell growth and/or maintenance [GO:0008151]	3.34E-05	0.04611104
GO Molecular Function	electron transporter [GO:0005489]	4.77E-05	0.06566321
GO Biological Process	glutamine family amino acid metabolism [GO:0009064]	7.84E-05	0.10825548
GO Biological Process	regulation of transcription from Pol II promoter [GO:0006357]	0.000158	0.21804138
GO Biological Process	metabolism [GO:0008152]	0.0001967	0.27144738
GO Cellular Component	cell [GO:0005623]	0.00103017	0.3399561
GO Biological Process	response to starvation [GO:0009267]	0.00040738	0.56218854
MDS Proteomics Complexes	YMR059W (SEN15)	0.001505	0.741965
Yeast Two Hybrid - Ito (core)	YNL189W (SRP1)	0.00200157	0.89870493
GO Molecular Function	transporter [GO:0005215]	0.00070106	0.96535687
Ume6	n=199		
Source	Annotation	pval	Bonfp
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00013223	0.02512351
MIPS Functional Classification	METABOLISM	0.00034835	0.09022136
PFam-A Domains	PF00674 (DUP)	7.93E-05	0.09396849

MIPS Subcellular Localization	peroxisomal matrix	0.00262786	0.11037012
GO Cellular Component	peroxisomal matrix [GO:0005782]	0.00102243	0.3374019
SMART Domains	S_TKc	0.00244328	0.71832432
Yeast Two Hybrid - Ito (core)	YNL189W (SRP1)	0.00163096	0.73230104
MIPS Functional Classification	sporulation and germination	0.00319966	0.82871194
SMART Domains	ZnF_GATA	0.0032087	0.9433578
Usv1	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	ENERGY	1.00E-14	2.59E-12
MIPS Functional Classification	C-compound and carbohydrate utilization	1.70E-13	4.40E-11
GO Biological Process	energy reserve metabolism [GO:0006112]	6.74E-14	9.30E-11
MIPS Functional Classification	C-compound and carbohydrate metabolism	4.55E-13	1.18E-10
GO Biological Process	carbohydrate metabolism [GO:0005975]	1.61E-13	2.22E-10
GO Biological Process	glycogen metabolism [GO:0005977]	8.02E-11	1.11E-07
Deletions Consortium (Essentiality, Mo	Morphology - WT	7.85E-08	8.63E-07
Proteome Localization--Observed	cyto	1.23E-07	1.35E-06
GO Biological Process	energy derivation by oxidation of organic compounds [GO:0015980]	4.42E-09	6.11E-06
GO Biological Process	energy pathways [GO:0006091]	4.42E-09	6.11E-06
GO Biological Process	glucan metabolism [GO:0006073]	5.67E-09	7.83E-06
MIPS Functional Classification	stress response	1.29E-07	3.34E-05
GO Cellular Component	unlocalized [GO:0005941]	2.30E-07	7.57E-05
GO Biological Process	response to stress [GO:0006950]	6.32E-08	8.73E-05
Proteome Localization--Predicted+Obs	cyt	2.37E-05	9.49E-05
GO Biological Process	polysaccharide metabolism [GO:0005976]	1.69E-07	0.00023344
MIPS Subcellular Localization	cytoplasm	1.87E-05	0.00078465
GO Biological Process	trehalose metabolism [GO:0005991]	6.28E-07	0.00086683
GO Molecular Function	glucosyltransferase [GO:0046527]	2.38E-06	0.00327415
MIPS Functional Classification	METABOLISM	5.52E-05	0.01430491
GO Biological Process	disaccharide metabolism [GO:0005984]	1.24E-05	0.01717051
GO Molecular Function	heat shock protein [GO:0003773]	1.32E-05	0.01818246
SMART Domains	Aamy	0.00011184	0.03288184
Cellzome Complexes	YBR126C (TPS1)	0.00010322	0.04737614
PFam-A Domains	PF00128 (alpha-amylase)	6.37E-05	0.07551365

GO Biological Process	hexose metabolism [GO:0019318]	0.00015233	0.2102154
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	0.00024113	0.3327594
MDS Proteomics Complexes	YER177W (BMH1)	0.00078341	0.3862231
GO Biological Process	monosaccharide metabolism [GO:0005996]	0.00030916	0.42663942
MIPS Functional Classification	intracellular signalling	0.00167874	0.43479366
Cellzome Complexes	YDR099W (BMH2)	0.00101923	0.46782657
GO Biological Process	sporulation (sensu Fungi) [GO:0030437]	0.0003845	0.53061414
GO Biological Process	glucose metabolism [GO:0006006]	0.00042635	0.58835886
GO Biological Process	alcohol metabolism [GO:0006066]	0.00045107	0.62247246
MIPS Functional Classification	CELLULAR COMMUNICATION/SIGNAL TRANSDUCTION MECHANISM	0.00253479	0.65651061
GO Biological Process	glutamine family amino acid biosynthesis [GO:0009084]	0.00053221	0.73444704
MIPS Phenotypes	Accumulation of storage carbohydrates	0.00437089	0.7867602
GO Biological Process	glutamate biosynthesis [GO:0006537]	0.00057382	0.79187574
MIPS Functional Classification	sporulation and germination	0.00331737	0.85919883
Xbp1	n=193		
Source	Annotation	pval	Bonfp
PFam-A Domains	PF00674 (DUP)	1.81E-08	2.15E-05
Proteome Localization--Predicted+Obs	en2	5.05E-05	0.00020205
Cellzome Complexes	YDR170C (SEC7)	4.20E-05	0.01927479
MDS Proteomics Complexes	YLR442C (SIR3)	0.00050114	0.24706399
MIPS Functional Classification	cell wall	0.00095727	0.24793267
GO Cellular Component	bud [GO:0005933]	0.00141191	0.4659303
GO Cellular Component	cell cortex [GO:0005938]	0.00156459	0.5163147
MIPS Functional Classification	allantoin and allantoate transporters	0.00210598	0.54544882
GO Cellular Component	external protective structure [GO:0030312]	0.00197559	0.6519447
GO Cellular Component	cell wall [GO:0005618]	0.00197559	0.6519447
Cellzome Complexes	YBL087C (RPL23A)	0.00210598	0.96664482
Yap1	n=197		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.26E-05	0.00325364
MIPS Functional Classification	C-compound and carbohydrate utilization	6.20E-05	0.01605339
SMART Domains	Amy	0.00010544	0.03099936

PFam-A Domains	PF00128 (alpha-amylase)	6.01E-05	0.07116233
Cellzome Complexes	YNL016W (PUB1)	0.00017899	0.08215457
MDS Proteomics Complexes	YHR135C (YCK1)	0.00038898	0.19176615
GO Biological Process	redox homeostasis [GO:0045454]	0.00017142	0.23656098
GO Biological Process	regulation of redox homeostasis [GO:0030503]	0.00017142	0.23656098
Yap6	n=200		
Source	Annotation	pval	Bonfp
MDS Proteomics Complexes	YNL323W (LEM3)	0.00101923	0.50248039
MIPS Functional Classification	TRANSPORT FACILITATION	0.00213654	0.55336386
Ybr239c	n=198		
Source	Annotation	pval	Bonfp
Proteome Localization--Observed	cell periphery	0.00083511	0.00918624
Proteome Localization--Predicted+Obs	cyt	0.00281951	0.01127804
MIPS Functional Classification	TRANSPORT FACILITATION	0.00030756	0.07965778
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00050937	0.09678011
MIPS Functional Classification	plasma membrane	0.00046382	0.1201299
PFam-A Domains	PF00083 (sugar_tr)	0.00022507	0.26671269
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.00125871	0.32600589
MIPS Functional Classification	cell wall	0.00125924	0.32614316
GO Molecular Function	hexose transporter [GO:0015149]	0.00024243	0.33382336
GO Molecular Function	monosaccharide transporter [GO:0015145]	0.00024243	0.33382336
GO Biological Process	carbohydrate transport [GO:0008643]	0.00029033	0.40065816
GO Biological Process	alcohol metabolism [GO:0006066]	0.00041642	0.57465684
GO Biological Process	hexose transport [GO:0008645]	0.00050819	0.70130496
GO Biological Process	monosaccharide transport [GO:0015749]	0.00050819	0.70130496
GO Cellular Component	external protective structure [GO:0030312]	0.00235362	0.7766946
GO Cellular Component	cell wall [GO:0005618]	0.00235362	0.7766946
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00301012	0.77962108
GO Molecular Function	galactose transporter [GO:0005354]	0.00057905	0.79734497
Ydr520c	n=199		
Source	Annotation	pval	Bonfp

GO Molecular Function	hexose transporter [GO:0015149]	1.52E-12	2.10E-09
GO Molecular Function	monosaccharide transporter [GO:0015145]	1.52E-12	2.10E-09
GO Molecular Function	mannose transporter [GO:0015578]	2.18E-12	3.00E-09
GO Molecular Function	glucose transporter [GO:0005355]	1.33E-11	1.84E-08
GO Molecular Function	fructose transporter [GO:0005353]	4.79E-11	6.59E-08
MIPS Functional Classification	C-compound and carbohydrate metabolism	1.57E-09	4.08E-07
GO Molecular Function	carbohydrate transporter [GO:0015144]	3.37E-10	4.64E-07
GO Biological Process	monosaccharide transport [GO:0015749]	3.86E-10	5.33E-07
GO Biological Process	hexose transport [GO:0008645]	3.86E-10	5.33E-07
PFam-A Domains	PF00083 (sugar_tr)	5.43E-10	6.43E-07
GO Biological Process	carbohydrate transport [GO:0008643]	8.10E-10	1.12E-06
MIPS Functional Classification	METABOLISM	4.91E-09	1.27E-06
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	8.56E-08	1.63E-05
MIPS Functional Classification	C-compound and carbohydrate transporters	1.27E-07	3.28E-05
MIPS Functional Classification	plasma membrane	2.36E-06	0.00061025
MIPS Functional Classification	cellular import	1.41E-05	0.00365211
MIPS Functional Classification	C-compound and carbohydrate utilization	7.19E-05	0.01862052
GO Molecular Function	galactose transporter [GO:0005354]	1.41E-05	0.01938844
MIPS Functional Classification	TRANSPORT FACILITATION	0.00012401	0.03211963
SMART Domains	Aamy	0.00010968	0.03224533
Proteome Localization--Predicted+Obs	cyt	0.00830198	0.03320792
PFam-A Domains	PF00128 (alpha-amylase)	6.25E-05	0.074042
MIPS Functional Classification	ENERGY	0.0010074	0.2609166
GO Biological Process	nucleotide biosynthesis [GO:0009165]	0.00032248	0.4450155
GO Cellular Component	plasma membrane [GO:0005886]	0.0014881	0.491073
SMART Domains	CBS	0.00229957	0.67607358
Yer130c	n=200		
Source	Annotation	pval	Bonfp
PFam-A Domains	PF00660 (SRP1_TIP1)	1.51E-08	1.79E-05
GO Cellular Component	unlocalized [GO:0005941]	2.30E-07	7.57E-05
MIPS Functional Classification	stress response	9.96E-06	0.00258025
Proteome Localization--Predicted+Obs	cyt	0.00117447	0.00469788
Proteome Localization--Observed	cell periphery	0.00089192	0.00981109

MIPS Functional Classification	C-compound and carbohydrate utilization	7.74E-05	0.02003637
Proteome Localization--Observed	cyto	0.00284451	0.03128961
MIPS Subcellular Localization	cytoplasm	0.00098914	0.04154375
GO Biological Process	energy reserve metabolism [GO:0006112]	3.31E-05	0.04566185
GO Molecular Function	protein serine/threonine phosphatase [GO:0004722]	4.16E-05	0.05727604
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.00027825	0.07206701
MIPS Functional Classification	ENERGY	0.00039709	0.10284709
SMART Domains	PP2Ac	0.00040738	0.1197706
GO Biological Process	glycogen metabolism [GO:0005977]	0.00010447	0.14416998
GO Cellular Component	protein serine/threonine phosphatase complex [GO:0008287]	0.00057382	0.18936159
GO Molecular Function	heat shock protein [GO:0003773]	0.00019217	0.26461396
Cellzome Complexes	YOR014W (RTS1)	0.00059642	0.27375816
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.00022865	0.31553424
Cellzome Complexes	YDR099W (BMH2)	0.00101923	0.46782657
GO Molecular Function	enzyme [GO:0003824]	0.00034356	0.47308074
MIPS Functional Classification	METABOLISM	0.00228836	0.59268524
MIPS Functional Classification	pentose-phosphate pathway	0.00233288	0.60421592
Cellzome Complexes	YBR126C (TPS1)	0.00135467	0.62179353
GO Biological Process	response to stress [GO:0006950]	0.0005725	0.79005414
MIPS Protein Classes	PPP family	0.00437089	0.8304691
GO Molecular Function	protein phosphatase [GO:0004721]	0.00064531	0.88858912
GO Molecular Function	intramolecular transferase [GO:0016866]	0.00233288	>0.999
GO Biological Process	hexose metabolism [GO:0019318]	0.00369296	>0.999
GO Biological Process	protein folding [GO:0006457]	0.00196986	>0.999
GO Biological Process	glucan metabolism [GO:0006073]	0.00073373	>0.999
GO Biological Process	disaccharide metabolism [GO:0005984]	0.00437089	>0.999
GO Molecular Function	phosphoric monoester hydrolase [GO:0016791]	0.00378224	>0.999
GO Biological Process	glucose metabolism [GO:0006006]	0.00251429	>0.999
GO Biological Process	trehalose metabolism [GO:0005991]	0.00101923	>0.999
GO Biological Process	polysaccharide metabolism [GO:0005976]	0.00353338	>0.999
PFam-A Domains	PF00149 (Metallophos)	0.00393128	>0.999
Ygr067c	n=200		
Source	Annotation	pval	Bonfp

MIPS Functional Classification	C-compound and carbohydrate metabolism	1.00E-14	2.59E-12
MIPS Functional Classification	METABOLISM	1.45E-12	3.75E-10
MIPS Functional Classification	C-compound and carbohydrate transporters	9.73E-10	2.52E-07
MIPS Functional Classification	C-compound and carbohydrate utilization	2.55E-09	6.61E-07
GO Molecular Function	mannose transporter [GO:0015578]	4.97E-09	6.85E-06
GO Molecular Function	carbohydrate transporter [GO:0015144]	6.96E-09	9.59E-06
GO Biological Process	carbohydrate transport [GO:0008643]	1.51E-08	2.08E-05
GO Molecular Function	glucose transporter [GO:0005355]	1.78E-08	2.45E-05
MIPS Functional Classification	plasma membrane	1.19E-07	3.09E-05
GO Molecular Function	hexose transporter [GO:0015149]	5.23E-08	7.20E-05
GO Molecular Function	monosaccharide transporter [GO:0015145]	5.23E-08	7.20E-05
PFam-A Domains	PF00083 (sugar_tr)	6.79E-08	8.04E-05
GO Molecular Function	fructose transporter [GO:0005353]	8.62E-08	0.00011873
GO Cellular Component	plasma membrane [GO:0005886]	7.68E-07	0.00025348
GO Biological Process	hexose transport [GO:0008645]	2.04E-07	0.00028118
GO Biological Process	monosaccharide transport [GO:0015749]	2.04E-07	0.00028118
Proteome Localization--Predicted+Obs	cyt	0.00071618	0.00286472
MIPS Functional Classification	cellular import	1.49E-05	0.0038549
GO Biological Process	alcohol metabolism [GO:0006066]	3.52E-06	0.00485924
Proteome Localization--Observed	cyto	0.00099696	0.01096651
GO Molecular Function	transporter [GO:0005215]	1.60E-05	0.02200157
GO Biological Process	glycerol metabolism [GO:0006071]	3.27E-05	0.04509578
GO Biological Process	polyol metabolism [GO:0019751]	3.27E-05	0.04509578
GO Biological Process	carbohydrate metabolism [GO:0005975]	6.53E-05	0.09005535
MIPS Functional Classification	TRANSPORT FACILITATION	0.00035466	0.09185668
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00056067	0.10652768
GO Biological Process	triacylglycerol metabolism [GO:0006641]	0.00011184	0.15434334
GO Biological Process	neutral lipid metabolism [GO:0006638]	0.00011184	0.15434334
GO Biological Process	acylglycerol metabolism [GO:0006639]	0.00011184	0.15434334
GO Biological Process	glycerolipid metabolism [GO:0046486]	0.00011184	0.15434334
GO Biological Process	disaccharide metabolism [GO:0005984]	0.00027852	0.3843507
MIPS Functional Classification	CELLULAR TRANSPORT AND TRANSPORT MECHANISMS	0.00188804	0.48900236
GO Cellular Component	mitochondrial intermembrane space [GO:0005758]	0.00172766	0.5701278
MIPS Functional Classification	phosphate transport	0.00325479	0.84299061

GO Cellular Component	membrane [GO:0016020]	0.00288616	0.9524328
Ykl222c	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	detoxification	6.48E-07	0.00016781
MIPS Functional Classification	C-compound and carbohydrate metabolism	2.16E-06	0.00056061
SMART Domains	Aamy	3.58E-06	0.00105136
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	6.41E-06	0.00121883
MIPS Functional Classification	METABOLISM	6.15E-06	0.00159295
PFam-A Domains	PF00128 (alpha-amylase)	1.63E-06	0.00193347
MIPS Functional Classification	drug transporters	1.05E-05	0.002716
MIPS Protein Classes	Cys6 cysteine-zinc cluster	3.21E-05	0.006096
PFam-A Domains	PF00083 (sugar_tr)	5.15E-06	0.00610469
Deletions Consortium (Essentiality, Mo	Morphology - WT	0.00061778	0.00679554
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	4.12E-05	0.00782321
MIPS Functional Classification	ENERGY	4.63E-05	0.01199072
SMART Domains	GAL4	4.39E-05	0.01290131
MIPS Functional Classification	C-compound and carbohydrate utilization	7.74E-05	0.02003637
PFam-A Domains	PF00172 (Zn_clus)	3.76E-05	0.04454782
GO Molecular Function	alpha-glucosidase [GO:0004558]	3.27E-05	0.04499774
GO Biological Process	monosaccharide transport [GO:0015749]	4.77E-05	0.06580627
GO Biological Process	hexose transport [GO:0008645]	4.77E-05	0.06580627
MIPS Protein Classes	Transcription factors	0.00065715	0.12485755
MIPS Functional Classification	glyoxylate cycle	0.00059642	0.15447356
MIPS Functional Classification	TRANSPORT FACILITATION	0.00089336	0.23137895
SMART Domains	ZnF_C2H2	0.00094528	0.27791232
MIPS Functional Classification	plasma membrane	0.00161284	0.41772556
GO Biological Process	carbohydrate transport [GO:0008643]	0.00030657	0.42306108
GO Biological Process	TCA intermediate metabolism [GO:0006100]	0.00042209	0.5824842
GO Biological Process	alcohol metabolism [GO:0006066]	0.00045107	0.62247246
GO Molecular Function	ABC-type efflux porter [GO:0015427]	0.00059642	0.82127447
GO Biological Process	response to drug [GO:0042493]	0.0006626	0.91438248
Yli054c	n=200		

Source	Annotation	pval	Bonfp
Deletions Consortium (Essentiality, Mo	Morphology - WT	1.96E-06	2.16E-05
MIPS Functional Classification	TRANSPORT FACILITATION	1.69E-06	0.0004367
MIPS Functional Classification	plasma membrane	1.06E-05	0.00274594
Proteome Localization--Observed	cyto	0.00031906	0.00350968
MIPS Functional Classification	transport mechanism	9.41E-05	0.02437651
Proteome Localization--Predicted+Obs	cyt	0.00694139	0.02776556
MIPS Functional Classification	METABOLISM	0.00010933	0.02831725
Proteome Localization--Observed	cell periphery	0.00403694	0.04440634
MIPS Protein Classes	ABC transporter	0.00025187	0.04785549
GO Biological Process	organic acid metabolism [GO:0006082]	3.59E-05	0.04948542
GO Biological Process	carboxylic acid metabolism [GO:0019752]	3.59E-05	0.04948542
MIPS Functional Classification	ABC transporters	0.00020515	0.05313437
GO Cellular Component	plasma membrane [GO:0005886]	0.00016108	0.05315772
MDS Proteomics Complexes	YMR059W (SEN15)	0.00027543	0.13578847
GO Molecular Function	ATP-binding cassette (ABC) transporter [GO:0004009]	0.00010447	0.14385657
MIPS Subcellular Localization	mitochondrial matrix	0.00353338	0.14840196
MIPS Functional Classification	glyoxylate cycle	0.00059642	0.15447356
MIPS Functional Classification	drug transporters	0.00073373	0.19003711
GO Molecular Function	oxidoreductase [GO:0016491]	0.00015585	0.21460545
GO Biological Process	main pathways of carbohydrate metabolism [GO:0006092]	0.00024113	0.3327594
GO Cellular Component	peroxisomal matrix [GO:0005782]	0.0010418	0.343794
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00183251	0.3481769
PFam-A Domains	PF00005 (ABC_tran)	0.00037016	0.43863842
GO Biological Process	TCA intermediate metabolism [GO:0006100]	0.00042209	0.5824842
GO Cellular Component	cytoplasm [GO:0005737]	0.00184582	0.6091206
GO Molecular Function	ABC-type efflux porter [GO:0015427]	0.00059642	0.82127447
Yml081w	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	4.55E-13	1.18E-10
MIPS Functional Classification	METABOLISM	8.76E-10	2.27E-07
MIPS Functional Classification	C-compound and carbohydrate utilization	4.46E-08	1.16E-05
Proteome Localization--Predicted+Obs	cyt	4.42E-05	0.00017668

GO Molecular Function	mannose transporter [GO:0015578]	1.57E-07	0.00021663
GO Biological Process	hexose transport [GO:0008645]	2.04E-07	0.00028119
GO Biological Process	monosaccharide transport [GO:0015749]	2.04E-07	0.00028119
GO Molecular Function	glucose transporter [GO:0005355]	4.50E-07	0.00061994
MIPS Functional Classification	cellular import	2.84E-06	0.0007351
Proteome Localization--Observed	cyto	9.33E-05	0.00102626
GO Molecular Function	monosaccharide transporter [GO:0015145]	1.10E-06	0.00152099
GO Molecular Function	hexose transporter [GO:0015149]	1.10E-06	0.00152099
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.68E-06	0.00231169
MIPS Functional Classification	plasma membrane	1.06E-05	0.00274594
MIPS Functional Classification	C-compound and carbohydrate transporters	1.13E-05	0.00293771
GO Molecular Function	fructose transporter [GO:0005353]	2.38E-06	0.00327415
GO Biological Process	carbohydrate transport [GO:0008643]	2.99E-06	0.00412908
GO Biological Process	alcohol metabolism [GO:0006066]	3.52E-06	0.00485924
PFam-A Domains	PF00083 (sugar_tr)	3.76E-05	0.04454782
MDS Proteomics Complexes	YPL022W (RAD1)	0.00019217	0.09473833
MIPS Phenotypes	Galactose fermentation (Gal)	0.00078341	0.14101452
GO Molecular Function	transporter [GO:0005215]	0.00011558	0.15915779
MDS Proteomics Complexes	YGL137W (SEC27)	0.00049144	0.24227893
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.00022865	0.31553424
GO Cellular Component	plasma membrane [GO:0005886]	0.00156099	0.5151267
GO Molecular Function	oxidoreductase [GO:0016491]	0.00046798	0.64440158
MIPS Functional Classification	ENERGY	0.00270516	0.70063644
MIPS Functional Classification	CELLULAR TRANSPORT AND TRANSPORT MECHANISMS	0.00380586	0.98571774
GO Biological Process	glycerol metabolism [GO:0006071]	0.00101923	>0.999
GO Biological Process	triacylglycerol metabolism [GO:0006641]	0.00233288	>0.999
GO Biological Process	polyol metabolism [GO:0019751]	0.00101923	>0.999
MDS Proteomics Complexes	YPL031C (PHO85)	0.00233288	>0.999
MDS Proteomics Complexes	YPL204W (HRR25)	0.00253479	>0.999
GO Biological Process	hexose metabolism [GO:0019318]	0.00369296	>0.999
MIPS Functional Classification	TRANSPORT FACILITATION	0.00484406	>0.999
GO Biological Process	acylglycerol metabolism [GO:0006639]	0.00233288	>0.999
GO Biological Process	glucose metabolism [GO:0006006]	0.00251429	>0.999
MDS Proteomics Complexes	YKL166C (TPK3)	0.00437089	>0.999

MIPS Functional Classification	lipid and fatty-acid transport	0.00393128	>0.999
GO Biological Process	neutral lipid metabolism [GO:0006638]	0.00233288	>0.999
GO Biological Process	glycerolipid metabolism [GO:0046486]	0.00233288	>0.999
MDS Proteomics Complexes	YLR340W (RPP0)	0.00325479	>0.999
Ynr063w	n=200		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	3.32E-11	8.60E-09
GO Molecular Function	monosaccharide transporter [GO:0015145]	2.01E-09	2.77E-06
GO Molecular Function	hexose transporter [GO:0015149]	2.01E-09	2.77E-06
GO Molecular Function	mannose transporter [GO:0015578]	4.97E-09	6.85E-06
PFam-A Domains	PF00083 (sugar_tr)	6.61E-09	7.83E-06
MIPS Functional Classification	C-compound and carbohydrate utilization	4.46E-08	1.16E-05
GO Biological Process	hexose transport [GO:0008645]	9.97E-09	1.38E-05
GO Biological Process	monosaccharide transport [GO:0015749]	9.97E-09	1.38E-05
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	9.28E-08	1.76E-05
GO Biological Process	carbohydrate transport [GO:0008643]	1.51E-08	2.08E-05
GO Molecular Function	glucose transporter [GO:0005355]	1.78E-08	2.45E-05
GO Molecular Function	fructose transporter [GO:0005353]	8.62E-08	0.00011873
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.17E-07	0.00016129
Proteome Localization--Predicted+Obs	cyt	4.42E-05	0.00017668
MIPS Functional Classification	METABOLISM	2.82E-06	0.00073025
SMART Domains	Aamy	3.58E-06	0.00105136
PFam-A Domains	PF00128 (alpha-amylase)	1.63E-06	0.00193347
MIPS Functional Classification	C-compound and carbohydrate transporters	1.13E-05	0.00293771
GO Molecular Function	galactose transporter [GO:0005354]	1.44E-05	0.01977895
MIPS Functional Classification	TRANSPORT FACILITATION	0.00013388	0.03467388
GO Molecular Function	alpha-glucosidase [GO:0004558]	3.27E-05	0.04499774
MIPS Functional Classification	cellular import	0.00031291	0.08104473
MIPS Functional Classification	ENERGY	0.00039709	0.10284709
MIPS Functional Classification	plasma membrane	0.00051343	0.13297889
MIPS Functional Classification	drug transporters	0.00073373	0.19003711
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00207705	0.3946395
GO Cellular Component	plasma membrane [GO:0005886]	0.00156099	0.5151267

Yox1	n=191		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	transport mechanism	0.00033786	0.08750548
MIPS Phenotypes	G2/M arrest	0.00090651	0.1631709
GO Biological Process	cell growth and/or maintenance [GO:0008151]	0.00013007	0.17950074
MIPS Protein Classes	other transcription factors	0.00145687	0.2768053
GO Biological Process	mitosis [GO:0007067]	0.00021145	0.291801
GO Biological Process	M phase of mitotic cell cycle [GO:0000087]	0.00024821	0.34253394
MIPS Protein Classes	ion-transport ATPases	0.00280972	0.5338468
Cellzome Complexes	YFL017W-A (SMX2)	0.00145687	0.66870333
MIPS Functional Classification	REGULATION OF / INTERACTION WITH CELLULAR ENVIRONMENT	0.0027524	0.7128716
GO Biological Process	M phase [GO:0000279]	0.00052693	0.72716064
MIPS Protein Classes	ATPases	0.00388289	0.7377491
GO Biological Process	nuclear division [GO:0000280]	0.00065648	0.90594792
Cellzome Complexes	YBR119W (MUD1)	0.00204383	0.93811797
Ypr013c	n=198		
Source	Annotation	pval	Bonfp
GO Cellular Component	bud [GO:0005933]	6.79E-05	0.02241492
MIPS Subcellular Localization	golgi membrane	0.00195716	0.08220072
GO Cellular Component	site of polarized growth (sensu Fungi) [GO:0030483]	0.00048821	0.16111062
GO Cellular Component	site of polarized growth [GO:0030427]	0.00048821	0.16111062
GO Cellular Component	site of polarized growth (sensu Saccharomyces) [GO:0000134]	0.00048821	0.16111062
GO Biological Process	metal ion transport [GO:0030001]	0.00012997	0.17935998
MDS Proteomics Complexes	YDR200C (VPS64)	0.00057905	0.28546919
GO Cellular Component	spore wall (sensu Fungi) [GO:0005619]	0.00154688	0.5104704
MIPS Phenotypes	Heat-sensitivity (ts)	0.00449441	0.8089938
GO Cellular Component	bud neck [GO:0005935]	0.00264	0.8712
MIPS Functional Classification	homeostasis of cations	0.00350185	0.90697915
Ypr015c	n=199		
Source	Annotation	pval	Bonfp
MIPS Functional Classification	C-compound and carbohydrate metabolism	4.09E-05	0.01060214

MDS Proteomics Complexes	YPL031C (PHO85)	0.00010968	0.05407125
MIPS Functional Classification	METABOLISM	0.00064434	0.16688458
MIPS Protein Classes	Cys2His2 zinc-finger	0.00168984	0.3210696
MIPS Functional Classification	C-compound and carbohydrate utilization	0.00150455	0.38967845
Cellzome Complexes	YDR062W (LCB2)	0.00102243	0.46929537
GO Cellular Component	plasma membrane [GO:0005886]	0.0014881	0.491073
MDS Proteomics Complexes	YBL036C	0.00100443	0.49518399
GO Molecular Function	transporter [GO:0005215]	0.00065187	0.89762361
GO Biological Process	carbohydrate metabolism [GO:0005975]	0.00070884	0.97819368
Ypr196w	n=200		
Source	Annotation	pval	Bonfp
GO Molecular Function	mannose transporter [GO:0015578]	4.97E-09	6.85E-06
GO Biological Process	hexose transport [GO:0008645]	9.97E-09	1.38E-05
GO Biological Process	monosaccharide transport [GO:0015749]	9.97E-09	1.38E-05
GO Molecular Function	glucose transporter [GO:0005355]	1.78E-08	2.45E-05
MIPS Functional Classification	METABOLISM	2.36E-07	6.10E-05
GO Molecular Function	monosaccharide transporter [GO:0015145]	5.23E-08	7.20E-05
GO Molecular Function	hexose transporter [GO:0015149]	5.23E-08	7.20E-05
GO Molecular Function	fructose transporter [GO:0005353]	8.62E-08	0.00011873
MIPS Functional Classification	C-compound and carbohydrate metabolism	7.29E-07	0.00018877
GO Biological Process	carbohydrate transport [GO:0008643]	2.30E-07	0.00031675
SMART Domains	Aamy	3.58E-06	0.00105136
Proteome Localization--Predicted+Obs	cyt	0.00042782	0.00171128
PFam-A Domains	PF00128 (alpha-amylase)	1.63E-06	0.00193347
GO Molecular Function	carbohydrate transporter [GO:0015144]	1.68E-06	0.00231169
MIPS Functional Classification	C-compound and carbohydrate transporters	1.13E-05	0.00293771
Proteome Localization--Observed	cyto	0.00031906	0.00350968
PFam-A Domains	PF00083 (sugar_tr)	5.15E-06	0.00610469
MIPS Functional Classification	plasma membrane	4.15E-05	0.01074617
MIPS Functional Classification	TRANSPORT FACILITATION	0.00013388	0.03467388
MIPS Subcellular Localization	cytoplasm	0.00098914	0.04154375
GO Molecular Function	alpha-glucosidase [GO:0004558]	3.27E-05	0.04499774
SMART Domains	ZnF_C2H2	0.00015855	0.0466137

PFam-A Domains	PF00096 (zf-C2H2)	4.34E-05	0.05142426
MIPS Protein Classes	Cys2His2 zinc-finger	0.00027125	0.05153674
MIPS Functional Classification	nucleotide metabolism	0.00024497	0.06344619
MIPS Functional Classification	cellular import	0.00031291	0.08104473
MIPS Functional Classification	purine ribonucleotide metabolism	0.00049144	0.12728244
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	0.00183251	0.3481769
MIPS Functional Classification	regulation of C-compound and carbohydrate utilization	0.00147075	0.38092425
Cellzome Complexes	YDR099W (BMH2)	0.00101923	0.46782657
Cellzome Complexes	YDR062W (LCB2)	0.0010418	0.4781862
GO Cellular Component	plasma membrane [GO:0005886]	0.00156099	0.5151267
SMART Domains	CBS	0.00233288	0.68586672
GO Molecular Function	glucosidase [GO:0015926]	0.00053221	0.73285042
MIPS Protein Complexes	Cytoplasmic translation elongation	0.00233288	0.7348572
GO Molecular Function	galactose transporter [GO:0005354]	0.00059642	0.82127447
GO Cellular Component	membrane [GO:0016020]	0.00288616	0.9524328
MIPS Functional Classification	CELLULAR TRANSPORT AND TRANSPORT MECHANISMS	0.00380586	0.98571774
GO Biological Process	sphingolipid metabolism [GO:0006665]	0.00393128	>0.999
GO Molecular Function	other carbon-nitrogen ligase [GO:0016883]	0.00233288	>0.999
PFam-A Domains	PF00571 (CBS)	0.00325479	>0.999
GO Biological Process	transport [GO:0006810]	0.00117216	>0.999
GO Biological Process	ribonucleotide biosynthesis [GO:0009260]	0.00437089	>0.999
MIPS Functional Classification	homeostasis of protons	0.0046866	>0.999
GO Biological Process	translational elongation [GO:0006414]	0.00393128	>0.999
GO Biological Process	purine nucleotide metabolism [GO:0006163]	0.00135467	>0.999
GO Biological Process	purine nucleotide biosynthesis [GO:0006164]	0.00078341	>0.999
GO Biological Process	RAS protein signal transduction [GO:0007265]	0.0010418	>0.999
GO Biological Process	nucleotide biosynthesis [GO:0009165]	0.00326287	>0.999
GO Biological Process	purine ribonucleotide biosynthesis [GO:0009152]	0.00437089	>0.999
Yrm1	n=199		
Source	Annotation	pval	Bonfp
Proteome Localization--Predicted+Obs	nuc	0.00245152	0.00980608
MIPS Subcellular Localization	nucleus	0.00445438	0.18708396
GO Biological Process	negative regulation of transcription [GO:0016481]	0.00018989	0.26204682

Cellzome Complexes	YNL313C	0.00100443	0.46103337
MIPS Phenotypes	Slow-growth (slg)	0.00325195	0.585351
GO Biological Process	negative regulation of transcription from Pol II promoter [GO:0000122]	0.00043187	0.59597922
MIPS Functional Classification	phosphate metabolism	0.00353056	0.91441504
Yrr1	n=200		
Source	Annotation	pval	Bonfp
GO Molecular Function	fructose transporter [GO:0005353]	2.38E-06	0.00327415
GO Molecular Function	mannose transporter [GO:0015578]	3.86E-06	0.00531249
PFam-A Domains	PF00083 (sugar_tr)	5.15E-06	0.00610469
MIPS Functional Classification	METABOLISM	2.72E-05	0.0070514
MIPS Protein Classes	Major facilitator superfamily proteins (MFS)	4.12E-05	0.00782321
Proteome Localization--Predicted+Obs	cyt	0.0029717	0.0118868
GO Molecular Function	glucose transporter [GO:0005355]	9.04E-06	0.01245068
MIPS Functional Classification	drug transporters	9.54E-05	0.02471787
GO Molecular Function	monosaccharide transporter [GO:0015145]	1.88E-05	0.02587232
GO Molecular Function	hexose transporter [GO:0015149]	1.88E-05	0.02587232
MIPS Protein Classes	Cys6 cysteine-zinc cluster	0.00021041	0.03997733
MIPS Subcellular Localization	peroxisome	0.00151969	0.06382698
GO Biological Process	hexose transport [GO:0008645]	4.77E-05	0.06580627
GO Biological Process	monosaccharide transport [GO:0015749]	4.77E-05	0.06580627
SMART Domains	GAL4	0.00027543	0.0809773
MIPS Functional Classification	detoxification	0.00037229	0.09642363
MIPS Functional Classification	plasma membrane	0.00051343	0.13297889
MIPS Functional Classification	C-compound and carbohydrate transporters	0.00056421	0.14613117
MIPS Functional Classification	TRANSPORT FACILITATION	0.00089336	0.23137895
GO Molecular Function	carbohydrate transporter [GO:0015144]	0.00020515	0.2824943
PFam-A Domains	PF00172 (Zn_clus)	0.00024113	0.28573905
MIPS Functional Classification	C-compound and carbohydrate metabolism	0.0014536	0.3764824
MIPS Protein Classes	Zinc-coordinating DNA-binding domains	0.00207705	0.3946395
GO Biological Process	carbohydrate transport [GO:0008643]	0.00030657	0.42306108
GO Cellular Component	peroxisome [GO:0005777]	0.00151969	0.5014977
GO Biological Process	response to drug [GO:0042493]	0.0006626	0.91438248

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