

SUPPORTING ONLINE MATERIAL

Materials and Methods:

Constructs: Strain A4655 (*MATa P_{STE5}-URA3::TRP1 leu2::tetR-GFP-LEU2 tetO-HIS3*) was constructed in the SK1 background as the starting strain for the genomic screen. *P_{STE5}-URA3* was constructed by a one step PCR based gene replacement method (S1) with the AMp3 plasmid as template. The AMp3 plasmid was constructed by cloning a 500bp PCR fragment of the *STE5* promoter into YIplac204 (S2). *P_{STE5}* was then integrated upstream of the *URA3* gene in NKY209 (S3). LEU2-GFP dots were constructed by cloning the *tet* operator sequences from pRS306tetO112 (S4) into pRS303 (S5) to create AMp8. AMp8 was integrated next to the *TETR-GFP* construct (S4) at the *LEU2* locus. URA3-GFP dots were described in (S6). *REC8-13MYC*, *SGO1-6HA*, *SGO1-9MYC*, *IML3-9MYC*, *CHL4-9MYC* and *SGO1, IML3* and *CHL4* deletions were constructed by a one-step PCR based gene replacement method (S1, S7). *NDC10-6HA* was described in (S8). All strains were in the SK1 background except for those used in the initial screening from the knockout collection that were in the S288c background (S9).

Sporulation condition: Sporulation experiments were performed as described in (S10).

α -factor block – release: Cells were arrested in G1 in YEPD medium with α factor (3 or 5 μ g/ml) followed by release into fresh YEPD medium lacking pheromone. Cells were grown at 25°C.

Immunofluorescence techniques: Indirect in situ immunofluorescence was carried out as described in (S11). Rat α -tubulin antibodies (Oxford Biotechnology) were used at a 1:50 dilution and α -rat FITC (Jackson ImmunoResearch) at a 1:100 dilution. To detect SGO1-6HA, mouse α -HA antibody (Covance) was used at a 1:250 dilution and α -mouse CY3 (Jackson ImmunoResearch) at 1:500 dilution. At least 200 cells were analyzed per time point.

GFP dots: For the genomic screen, live spores were visualized directly by fluorescence microscopy. Fixation of cells for visualization of GFP-labeled chromosomes in Figures 2 and 4 was performed as described by (S6). At least 200 cells were analyzed per time point.

Meiotic Spreads: Chromosomes were spread as described by (S12). Rec8-13Myc, Sgo1-9Myc, Iml3-9Myc and Chl4-9Myc were detected using rabbit Δ -Myc antibodies (Gramsch) at a 1:500 dilution and an Δ -rabbit FITC antibody (Jackson ImmunoResearch) at a 1:500 (Rec8-13MYC) or 1:250 dilution. Ndc10-6HA was detected using a mouse Δ -HA antibody (Babco) at a 1:200 dilution and an Δ -mouse Cy3 antibody (Jackson ImmunoResearch) at 1:300 dilution. At least 100 cells were analyzed.

Western Immunoblot: Immunoblot analysis was performed as described in (S13).

A genome wide screen to identify genes required for meiotic chromosome segregation.

Diploid versions of the yeast deletion collection were constructed that were homozygous for a particular deletion, carried tandem TET-operator repeats on both homologs and expressed a green-fluorescent protein fused to the TET-repressor, which binds to these repeats (homozygous GFP dots) (Figure S1). Two meiotic events, sporulation efficiency and the segregation pattern of the GFP marked chromosome III, were analyzed (see legend to Table S1). Strains were considered mutant if their sporulation efficiency or frequency of chromosome mis-segregation differed from the mean by more than 1 standard deviation. In the case of mutants that exhibited an increased frequency of asci with GFP dots in three of the four spores, strains were considered mutant when the frequency of occurrence of this GFP dot distribution was 2 standard deviations above the mean. Using these criteria we identified 82.5% of the genes previously shown to be required for meiotic cell cycle progression by methods other than genome wide screens. We defined genes with known roles in meiotic cell cycle progression as those genes that are annotated by either the *Saccharomyces* Genome Database (SGD) or the Incyte Bioknowledge library and reported to play a role in meiosis or spore formation in the literature (164 genes). Genes identified to be important for progression through meiosis through genome-wide analyses such as that conducted by Saunders and colleagues (S14) or genes identified by expression pattern analyses (S15, S16) were not included in this assessment. We did however identify 62% of the 482 genes described to be important for sporulation by (S14) in our screen. We believe that strain background differences are one reason why our screen did not identify the other 38%.

In addition to genes with a known meiotic function, the screen identified at least 236 genes not previously implicated in regulating meiosis by either genome-wide or single gene approaches. The 236 genes are the sum of: 72 mutants with a sporulation efficiency that differed from the mean by 2 standard deviations, 110 mutants that formed two-spored asci with a frequency of two standard deviations above the mean, and 54 mutants that produced asci in which only three of the four spores received GFP dots with a frequency of three standard deviations above the mean. 10 mutants fell in more than

one class and were counted in only one. We did not include mutants that produced asci in which the frequency of tetrads with GFP dots in two of the four spores was increased. This was because this group of mutants is rather large and includes many false positives that are not distinguishable from true mutants. False positives are generated during the screening procedure. Diploids heterozygous for GFP dots are generated during the first mating step of the screening procedure (Figure S1). If this cell population is not effectively eliminated during the selection for haploids (by growing sporulated diploids on medium lacking uracil), these diploids will persist in the patch. The final microscopic analysis identifies the spores produced by these diploids as tetrads with GFP dots in only two spores, thus causing the perception of meiosis I non-disjunction. We also note that 25% of the 236 genes identified to be important for meiosis are involved in ribosome function, metabolism, autophagy and mitochondrial function, illustrating that nutritional state, respiration and protein synthesis are important aspects of meiosis.

Classes of meiotic mutants.

Two criteria were employed to classify mutants. First, we categorized mutants based on their sporulation phenotypes. Second, we identified chromosome segregation mutants by scoring the fate of the GFP-marked chromosome in the meiotic progeny.

Sporulation defective mutants.

Strains that failed to form spores efficiently (listed in Table S2) harbored deletions in genes required for entry into meiosis, prospore membrane and spore wall formation and genes, which when inactivated lead to activation of the pachytene checkpoint (S17). This class also harbored many genes required for recombination indicating that defects in recombination lead to a failure to form spores under our screening conditions.

Mutants that produce 2-spored asci (dyads) at a high frequency are listed in Table S3. The formation of dyads could be due to one of several reasons. Among these are, [1] Inactivation of the FEAR network, a regulatory system required for exit from mitosis and meiosis I (S18 – S20), [2] disruption of prospore membrane formation leading to the packaging of only two instead of four spores (S21) and [3] loss of *SPO13* function (S22). Our screen identified the non-essential FEAR network component *SPO12*, *SPO13* and

genes required for prospore membrane and spore formation. Mutants defective in sister kinetochore co-orientation, such as *MAMI* and *CSMI* (S23, S24), also formed dyads at an increased frequency in our strain background (Table S3). Genes of unknown function in this class of mutants such as the meiosis specific gene *YKR089c* and the meiotically induced genes *YDR042C* and *YPL130w* (*SPO19*) may encode novel factors necessary for any of the above processes.

Mutants exhibiting meiosis I non-disjunction.

The second classification we performed was based on the pattern of chromosome mis-segregation and frequency with which it occurred. Meiosis I non-disjunction results in an increase in tetrads harboring only two spores with GFP dots (Figure 1A, B). Strains producing asci with such a GFP dot distribution at a high frequency are listed in Table S4. One cause of meiosis I non-disjunction is a defect in meiotic recombination (Figure 1A, B). Our screen identified only one factor required for early meiotic events, the endonuclease creating double strand breaks Spo11. This was due to the fact that we only analyzed the segregation behavior of chromosome III in four spored asci, but many mutants defective in early steps of recombination form spores at a very low level. Thus, many genes required for early steps in recombination fell into the non-sporulating class, although the few spores formed by these mutants exhibit meiosis I non-disjunction (Table S1, S2). An increase in the frequency of asci containing GFP dots in only two of the four spores can also be the result of diploids heterozygous for the GFP dots not being eliminated effectively during the screening procedure (see above). Thus this class of mutants is likely to harbor many strains whose increase in asci containing GFP dots in only two of the four spores is an artifact of the screening procedures.

Mutants exhibiting meiosis II non-disjunction or premature sister chromatid separation.

Meiosis II non-disjunction or premature sister chromatid separation events are characterized by an increase in asci that contain GFP dots in three of the four spores. 16% of asci with this distribution of GFP dots represents a frequency that is 3 standard deviations above the mean. Mutants with frequencies lower than 16% 3 GFP dots/ 4 nuclei are likely to represent artifacts brought about by the analysis procedure because

not all GFP dots may be visible in spores due to auto-fluorescence. Auto-fluorescence was a particular problem in mutants defective in secretory pathways.

Fig. S1: The screening procedure.

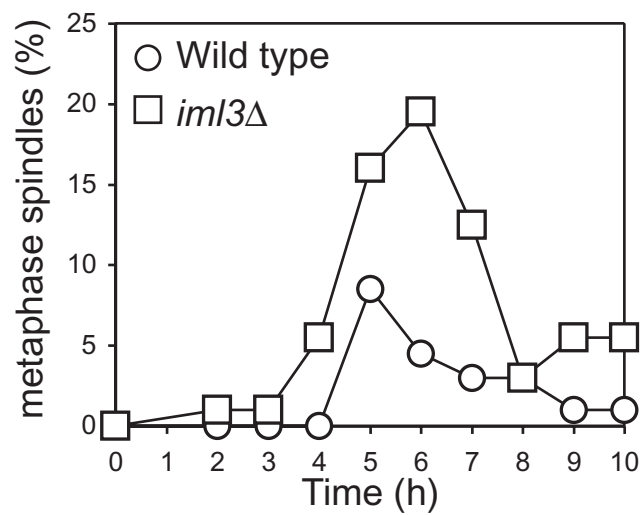
MATΔ strains of the yeast knock out collection (in the S288C background) were spotted onto YEPD plates. The individual deletions are designated *orf::KANMX6*. The spotted collection strains were then mated to a lawn of SK1 *MATa* cells in which the promoter of *URA3* was replaced with the haploid-specific *STE5* promoter, marked with *TRP1* (*P_{STE5}-URA3::TRP1*) as well as a tandem array of tet operators (*tetO*) marked with *HIS3* and a tet Repressor- GFP fusion (*tetR-GFP*) both integrated at the *LEU2* locus. Diploids were selected by growth on plates lacking histidine and leucine and containing G418 (400 µg/ml) 3 days. The obtained diploids were transferred to YEPD medium for 24 hours and transferred to sporulation medium for 3 days. The S288C/SK1 hybrid diploids sporulated well (> 50 %) using this procedure. Spores were replica plated onto plates lacking histidine, leucine and uracil but containing G418 to allow for germination of haploids that carried the desired deletion (G418), and the GFP dots (-his, -leu). Selection for growth in the absence of uracil eliminated diploids that had failed to sporulate as such diploids would not express *URA3*. After 24 hours the resulting *MATa* and *MATΔ* haploids of genotype *orf::KANMX6 P_{STE5}-URA3::TRP1 leu2::tetR-GFP-LEU2 tetO-HIS3* were transferred to medium lacking histidine and leucine, but containing G418 and uracil for 24 hours to allow for mating to occur and subsequently replica plated onto 5-fluororotic acid (5-FOA) plates. 5-FOA selects against the expression of *URA3* and hence only allows diploids to form colonies. Cells were replica plated a second time on 5-FOA plates to completely eliminate residual haploids in the patch. After 24 hours, cells were transferred onto -his -leu G418 plates for 2 days to re-select for diploids that contained the deleted ORF and GFP dots. After transferring cells to YEPD for 24 hours, cells were patched onto sporulation medium for 3 days followed by microscopic analysis of spores. Typically, sporulation efficiency was determined by counting 100 cells. The segregation pattern of GFP dots was analyzed in 50 tetrads.

Fig. S2: *iml3*Δ and *chl4*Δ mutants are delayed in progression through metaphase I.

The percentages of metaphase I spindles in wild type (circles; A8441) and *iml3*Δ (A, squares; A8100) or *chl4*Δ (B, circles; A8191) were analyzed for the experiment shown in Figure 2D, E.

Figure S2

A



B

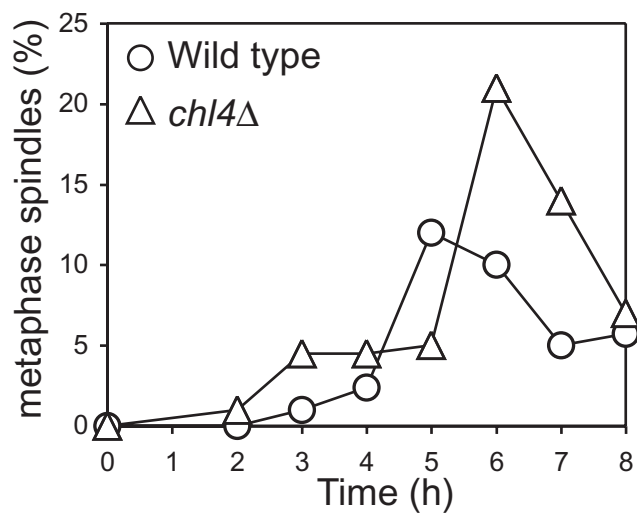


Fig. S3: Localization of Sgo1-9Myc, Iml3-9Myc or Chl4-9Myc to the kinetochore during meiosis.

(A-C) Nuclear morphology is shown as a measure of meiotic cell cycle progression for the experiment shown in Figure 3. Wild type cells carrying homozygous *SGO1-9MYC* (A10461), *IML3-9MYC* (A10044) or *CHL4-9MYC* (A10045) were induced to sporulate as described above and the percentages of binucleate and tetranucleate (open symbols) or tetranucleate cells (closed symbols) were determined at the indicated times after resuspension in SPO medium. 200 cells were counted.

(D-E) The percentage of prophase I or metaphase I, of anaphase I or metaphase II and of anaphase I cells with Sgo1 (D), Iml3 (E) and Chl4 (F) localized to centromeres was determined in at least 50 cells.

Figure S3

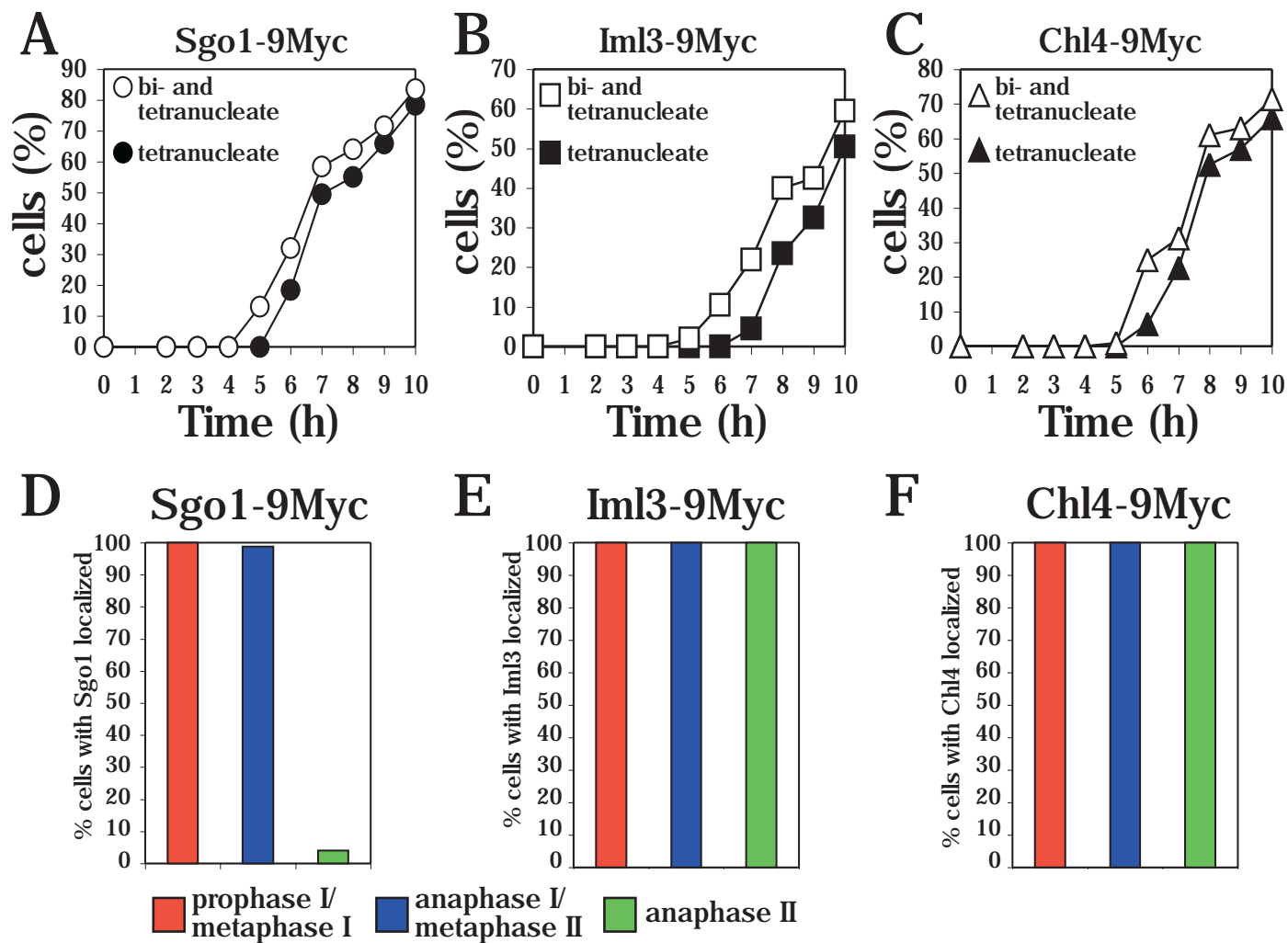












Table S1: Complete genome-wide analysis of sporulation and meiotic chromosome segregation.






The data collected on sporulation efficiency and segregation pattern is listed for all non-essential deletion strains in the yeast knockout collection. The systematic open reading frame number is shown in the leftmost column (ORF). For deletion strains that exhibited a phenotype in our analyses, the gene name, if known, is given in the second column. The next two columns represent the data obtained from the sporulation efficiency count. For each mutant, sporulation efficiency (%Spores) was determined by counting the number of spores (dyads or tetrads) in 100 cells. The percentage of two-spored asci (%Dyads) represents the fraction of spores that were dyads. Those mutants that formed tetrads were then scored for segregation pattern by counting at least 50 tetrads. The percentage of tetrads with GFP dots in all four spores, with GFP dots in three spores or with GFP dots in two spores is shown as depicted in the column headers. (Note that in some cases the sum of these three columns is 99 or 101, due to rounding of decimal places by the software). Mutants with the data column shaded gray failed to mate or complete the selection procedure (Figure S1) and were excluded from our statistical analysis. For each class of mutants, the mean and standard deviation was calculated and colored shading was used to identify mutants that differed from the mean by a defined number of standard deviations. In each case dark shading is used to denote mutants identified using the most stringent criteria. Note that mutants that failed to sporulate (dark pink shading) were excluded from the statistical analysis in the other classes to avoid skewing of the data. In addition, mutants that we deemed to be false positives since they formed tetrads with GFP dots in just two spores with a frequency higher than 70% were excluded for the same reasons. Mutants with impaired sporulation efficiency are shaded light or dark pink, representing one or two standard deviations away from the mean, respectively (mean=50%, standard deviation=16%). Mutants forming an increased frequency of dyads are shaded light or dark green, representing one or two standard deviations away from the mean, respectively (mean=30%, standard deviation=12%). Mutants that formed an increased frequency of tetrads with GFP dots in just three spores are shaded light or dark blue, representing two or three standard deviations, respectively (mean=4%, standard deviation=4%). Mutants that formed an increased frequency of tetrads with GFP dots in






just two spores are shaded light or dark purple, representing one or two standard deviations, respectively (mean=14%, standard deviation=9%).






Table S1: Complete genome-wide analysis of sporulation and chromosome segregation






ORF	Gene	% Spores	% Dyads	 4	 or  3	 or  2
YAL002W		57	33	76	2	22
YAL004W	unknown	45	62	75	0	25
YAL005C	SSA1	67	22	44	4	52
YAL007C	ERP2	56	57	67	0	33
YAL008W	FUN14	59	44	96	0	4
YAL009W	SPO7	62	47	82	6	12
YAL010C	MDM10	56	48	67	12	21
YAL011W	SWC1	42	52	74	8	18
YAL012W	CYS3	69	61	45	6	49
YAL013W		55	40	86	2	12
YAL014C		72	31	74	6	20
YAL015C	NTG1	55	58	84	4	12
YAL016W	TPD3	32	38	73	2	25
YAL017W	PSK1	50	44	59	8	33
YAL018C	unknown	47	43	77	7	16
YAL019W	FUN30	54	52	62	10	28
YAL020C	ATS1	64	56	73	8	19
YAL021C	CCR4	47	53	67	7	26
YAL022C	FUN26	54	52	78	10	12
YAL023C	PMT2	49	61	94	2	4
YAL024C	LTE1					
YAL026C	DRS2	51	39	49	10	41
YAL027W	unknown	64	58	74	6	20
YAL028W	FRT2	76	47	78	4	18
YAL029C	MYO4	78	49	64	6	30
YAL030W	SNC1	46	54	86	2	12
YAL031C	FUN21	52	54	78	2	20
YAL034C	FUN19	39	54	82	4	14
YAL035W	FUN12	51	43	81	2	17
YAL036C		57	40	74	4	22
YAL037W	unknown	60	52	73	7	20
YAL039C		55	33	76	10	14
YAL040C	CLN3	46	43	80	2	18
YAL042W	ERV46	42	48	77	10	13
YAL043C-a	unknown	51	45	68	5	27
YAL044C	GCV3	49	55	82	4	14
YAL045C	unknown	57	61	66	2	32
YAL046C	unknown	66	47	72	2	26
YAL047C		78	32	76	6	18
YAL048C	GON1	71	44	41	6	53
YAL049C		66	35	79	0	21
YAL051W	OAF1	60	43	82	6	12
YAL053W	unknown	42	50	74	6	20
YAL054C	ACS1	17	24	51	12	37






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YAL055W	PEX22	38	58	80	0	20
YAL056W	GPB2	39	51	62	12	26
YAL058C-A	unknown	71	49	84	0	16
YAL058W	CNE1	45	44	82	8	10
YAL059W	ECM1	63	43	29	30	41
YAL060W	BDH1	62	45	90	0	10
YAL061W		75	40	76	6	18
YAL062W	GDH3	61	43	84	4	12
YAL064C-A		38	37	86	2	12
YAL065C	unknown	51	47	83	2	15
YAL066W	unknown	56	57	84	0	16
YAL067C		35	40	78	6	16
YAL068C	unknown	40	60	74	4	22
YAR002C-A		59	36	84	3	13
YAR002W		45	38	74	10	16
YAR003W	SWD1	59	37	70	4	26
YAR014C	BUD14	45	51	80	6	14
YAR018C	KIN3					
YAR020C	PAU7	62	48	81	5	14
YAR023C		64	39	74	6	20
YAR027W		51	41	78	2	20
YAR028W	FUN56	60	57	60	8	32
YAR029W		70	34	80	4	16
YAR030C	unknown	46	43	80	7	13
YAR031W	FUN58	38	74	76	2	22
YAR035W	YAT1	42	50	82	4	14
YAR037W		53	34	93	0	7
YAR042W	SWH1	51	45	86	2	12
YAR044W	OSH1	80	51	64	8	28
YAR047C	unknown	73	37	61	8	31
YAR050W	FLO1	74	23	70	6	24
YBL001C	ECM15	78	58	96	2	2
YBL002W		39	36	82	6	13
YBL003C	HTA2	36	39	70	3	27
YBL005W	PDR3	34	29	80	7	13
YBL006C	unknown	22	32	7	2	91
YBL007C		73	40	91	2	7
YBL008W		59	31	93	0	7
YBL009W		50	32	86	7	7
YBL010C	unknown	55	58	84	2	14
YBL011W		41	15	82	5	13
YBL012C	unknown	18	44	77	7	16
YBL013W	FMT1	64	34	75	0	25
YBL015W		59	32	88	4	8
YBL016W	FUS3					
YBL017C	PEP1	45	22	69	8	23






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YBL019W	APN2	32	34	85	4	11
YBL021C	HAP3	34	88	60	26	14
YBL022C		35	11	0	2	98
YBL024W		59	27	78	9	13
YBL025W		66	17	96	2	2
YBL027W		61	16	82	2	16
YBL028C		42	26	88	0	12
YBL029W		46	35	96	1	3
YBL031W		38	11	8	3	89
YBL032W		54	17	92	4	4
YBL036C		51	31	85	4	11
YBL037W	APL3	14	14	81	5	14
YBL038W	MRPL16	26	35	94	2	4
YBL039C		67	37	88	4	8
YBL042C		63	38	79	9	12
YBL043W		43	26	80	7	13
YBL044W		61	26	84	2	14
YBL045C	COR1	26	35	61	0	39
YBL046W	unknown	63	48	81	5	14
YBL047C	EDE1	51	8	72	5	23
YBL048W		47	36	98	2	0
YBL049W		38	24	86	7	7
YBL051C		50	24	92	0	8
YBL052C		48	21	92	2	6
YBL053W	unknown	22	50	56	15	29
YBL054W	unknown	40	30	71	5	24
YBL055C		64	23	88	0	12
YBL056W		64	23	86	6	8
YBL057C		57	18	87	4	9
YBL058W		53	23	96	0	4
YBL059W		46	39	89	4	7
YBL060W		55	38	94	4	2
YBL061C		52	23			
YBL062W		45	20	90	6	4
YBL063W	KIP1	66	45	94	2	4
YBL064C		56	27	96	4	0
YBL065W	unknown	61	51	94	2	4
YBL066C	SEF1	52	42	84	11	5
YBL067C		48	19	85	12	3
YBL068W		42	31	88	2	10
YBL069W		56	36	80	6	14
YBL070C		40	23	75	7	18
YBL071C		39	26	85	3	12
YBL072C	RPS8A					
YBL075C		53	32	84	9	7
YBL078C	ATG8	9	0			






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YBL079W		52	21	94	2	4
YBL080C	PET112	10	40			
YBL081W	unknown	42	33	71	4	25
YBL082C		40	20	83	0	17
YBL083C		84	26	11	4	85
YBL085W		55	31	93	5	2
YBL086C		50	28	77	2	21
YBL087C		55	36	78	10	12
YBL088C	TEL1	33	36			
YBL089W		53	20	83	3	14
YBL090W	MRP21	41	37	47	7	46
YBL091C	MAP2	60	28	75	0	25
YBL091C-A		60	42	83	2	15
YBL093C		56	26	87	11	2
YBL094C	unknown	44	29	60	3	37
YBL095W	unknown	34	29	63	7	30
YBL096C		49	41	83	0	17
YBL098W		47	28	87	5	8
YBL099W		41	34	88	5	7
YBL100C		51	35	89	4	7
YBL101C		54	37	77	9	14
YBL102W		47	15	94	2	4
YBL103C	RTG3	40	40	50	3	47
YBL104C		61	34	83	2	15
YBL106C	SRO77	52	51	93	5	2
YBL107C		60	33	83	5	12
YBR001C		52	27	94	0	6
YBR003W	COQ1	14	7	96	2	2
YBR005W		42	38	98	2	0
YBR006W		62	35	75	6	19
YBR007C		59	41	91	9	0
YBR008C		71	21	88	7	5
YBR009C		62	26	80	4	16
YBR010W	HHT1	63	49	87	5	8
YBR012C		73	41	95	5	0
YBR013C	unknown	53	43	95	2	3
YBR014C	unknown	29	28	96	2	2
YBR015C	MNN2					
YBR016W		61	26	96	2	2
YBR018C		67	24	88	4	8
YBR019C		52	23	89	2	9
YBR020W	GAL1	57	35	72	4	24
YBR020W		45	36	93	0	7
YBR021W	FUR4	45	44	85	3	12
YBR022W		61	31	75	5	20
YBR023C		88	35	81	5	14






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YBR024W	SCO2	43	42	84	0	16
YBR025C		70	33	94	0	6
YBR026C	ETR1	51	49	76	12	12
YBR027C		74	32	86	5	9
YBR028C		51	41	90	5	5
YBR030W		65	40	83	5	13
YBR031W		61	31	84	8	8
YBR032W	unknown	53	49	35	9	56
YBR033W		46	37	90	2	8
YBR034C	HMT1	18	22	78	7	15
YBR035C	PDX3	39	59	98	0	2
YBR036C		59	27	92	3	5
YBR037C	SCO1	2	0			
YBR039W	ATP3	19	16	0	12	88
YBR039W	ATP3	54	35	65	4	31
YBR040W	FIG1	44	36	71	5	24
YBR041W		54	31	82	7	11
YBR042C		62	37	84	0	16
YBR043C	AQR2	66	39	58	18	24
YBR044C	TCM62	50	34	60	7	33
YBR045C	GIP1	6	17			
YBR046C		75	40	80	8	12
YBR047W	unknown	53	38	72	2	26
YBR048W	RPS11B	37	49	92	5	3
YBR050C	REG2	49	39	53	17	30
YBR051W		64	36	91	2	7
YBR052C	unknown	70	46	81	4	15
YBR053C		65	40	94	0	6
YBR054W		65	38	75	4	21
YBR056W		59	41	90	2	8
YBR057C	MUM2	11	45	86	2	12
YBR058C	UBP14	47	66	88	0	12
YBR059C	AKL1	34	38	92	2	6
YBR062C		60	27	94	0	6
YBR063C		47	33	86	0	14
YBR064W	unknown	45	47	72	14	14
YBR065C	ECM2	60	27	68	4	28
YBR066C		57	40	95	0	5
YBR067C		64	34	98	0	2
YBR068C		43	35	92	4	4
YBR069C	TAT1	45	42	93	2	5
YBR071W	unknown	56	43	79	7	14
YBR072W		55	21	94	0	6
YBR073W	RDH54	11	55			
YBR074W	unknown	58	21	64	11	25
YBR075W		44	36	78	4	18






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YBR075W		63	29	90	8	2
YBR076W		58	21	96	0	4
YBR077C		67	37	86	2	13
YBR078W		65	18	70	10	20
YBR081C	SPT7					
YBR083W	TEC1	72	43	84	12	4
YBR084C-A	RPL19A	67	49	88	6	6
YBR084W		36	25	86	0	14
YBR085W	AAC3	46	50	92	6	2
YBR090C	unknown	48	54	54	4	42
YBR090C-A		58	19	85	0	15
YBR092C		62	16	95	0	5
YBR093C		72	31	96	0	4
YBR094W		82	20	90	0	10
YBR095C		79	10	92	0	8
YBR096W	unknown	73	27	76	14	10
YBR097W	VPS15					
YBR098W		40	28	94	0	6
YBR099C	unknown	17	29	89	0	11
YBR100W		71	24	90	0	10
YBR100W	MMS4	17	41			
YBR101C		67	24	98	0	2
YBR103W		65	17	84	0	16
YBR104W		76	16	98	0	2
YBR105C		79	27	90	0	10
YBR106W		64	14	92	0	8
YBR107C	IML3	49	22	58	25	17
YBR108W		68	18	98	0	2
YBR111C		74	12	92	0	8
YBR112C	SSN6					
YBR113W		75	21	91	0	9
YBR114W		77	12	91	0	9
YBR115C		79	19	86	0	14
YBR116C		75	19	85	0	15
YBR117C		61	20	84	0	16
YBR119W	MUD1	60	23	62	10	28
YBR120C		83	15	90	0	10
YBR125C		57	40	75	5	20
YBR126C	TPS1	24	33	57	4	39
YBR127C	VMA2	81	19	74	0	26
YBR128C		65	40	98	0	2
YBR129C		78	15	88	0	12
YBR130C		71	14	98	0	2
YBR131W		46	39	86	0	14
YBR132C		90	29	87	0	13
YBR133C		78	26	91	0	9






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YBR134W		88	6			
YBR137W		79	8	94	0	6
YBR138C		77	8	86	0	14
YBR139W		71	28	84	2	14
YBR141C		70	11	85	0	15
YBR144C		69	24	90	0	10
YBR145W		66	14	85	0	15
YBR146W		36	19	92	0	8
YBR147W		65	41	92	0	8
YBR148W	YSW1	53	44	86	0	14
YBR149W		83	12	96	0	4
YBR150C	TBS1	69	46	88	0	12
YBR151W		66	12	93	0	7
YBR156C		53	21	84	0	16
YBR157C		78	12	96	0	4
YBR158W		86	23	88	0	12
YBR159W		57	33	96	0	4
YBR161W		41	15			
YBR162C	TOS1	50	28	64	0	36
YBR162W-A		63	20	86	0	14
YBR163W		78	22	80	0	20
YBR164C		56	23	90	0	10
YBR165W		54	24	94	0	6
YBR166C		64	14	86	0	14
YBR168W	unknown	63	44	82	4	14
YBR169C	SSE2	62	48	88	0	12
YBR170C		81	21	90	0	10
YBR171W		50	31	89	0	11
YBR172C		84	8	95	0	5
YBR173C		51	13	80	0	20
YBR174C		78	12	98	0	2
YBR175W		76	18	92	0	8
YBR176W		81	30	90	0	10
YBR177C		75	22	88	0	12
YBR178W		63	31	94	0	6
YBR179C		75	27	85	0	15
YBR180W		73	23	83	0	17
YBR181C		78	37	91	0	9
YBR182C		74	27	98	0	2
YBR183W		72	14	94	0	6
YBR184W		78	31	94	0	6
YBR185C		86	15	93	0	7
YBR186W		90	20	94	0	6
YBR187W		71	24	86	6	8
YBR188C		83	39	88	0	13
YBR189W		59	41	86	2	12






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YBR191W	RPL21A	57	44	90	4	6
YBR194W		82	24	96	0	4
YBR195C		83	27	85	0	15
YBR197C		83	39	90	0	10
YBR199W		53	21	90	6	4
YBR200W		68	32	0	6	94
YBR201W		73	19	93	0	7
YBR203W		90	32	92	0	8
YBR204C		67	15	96	0	4
YBR205W		88	24	96	0	4
YBR206W		61	21	95	0	5
YBR207W		72	18	91	0	9
YBR208C		68	16	91	0	9
YBR209W	unknown	43	23	71	0	29
YBR210W	unknown	59	19	64	6	30
YBR212W		72	29	84	0	16
YBR213W		77	18	92	0	8
YBR214W		70	8	92	0	8
YBR215W		77	12	91	0	9
YBR216C		72	28	98	0	2
YBR217W	APG12	5	0		0	0
YBR218C		76	32	91	0	9
YBR219C		85	29	88	0	12
YBR220C	unknown					
YBR221C		71	30	90	0	10
YBR222C		83	21	87	0	13
YBR223C		67	21	87	0	13
YBR224W		63	30	85	0	15
YBR225W		40	20	85	0	15
YBR226C	unknown			77	0	23
YBR227C		83	16	82	9	9
YBR228W		85	33	98	0	2
YBR229C		69	16	86	7	7
YBR230C		78	30	92	0	8
YBR231C		54	18	84	0	16
YBR232C	unknown	75	48	82	2	16
YBR233W		67	22	81	0	19
YBR235W		85	26	82	0	18
YBR238C		65	27	96	0	4
YBR239C		52	15	98	0	2
YBR240C		85	25	91	0	9
YBR241C		81	27	94	0	6
YBR242W		91	23	98	0	2
YBR244W		81	20	86	0	14
YBR245C		70	28	86	0	14
YBR246W	unknown	32	31	87	0	13






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YBR248C	HIS7	54	19	10	7	83
YBR249C		48	33	85	0	15
YBR250W		51	31	89	0	11
YBR251W		80	19	81	0	19
YBR255W		60	15	90	0	10
YBR258C		54	31	93	0	7
YBR259W		64	25	74	8	18
YBR260C		61	19	88	0	12
YBR261C		77	23	92	0	8
YBR262C		64	23	98	0	2
YBR263W		80	24	95	0	5
YBR264C		68	23			
YBR266C		88	14	82	0	18
YBR267W		78	30	81	0	19
YBR268W		66	28	91	0	9
YBR269C	unknown	78	55	76	6	18
YBR270C	unknown	57	47	76	11	13
YBR271W		46	24	78	4	18
YBR272C	HSM3	66	61	70	6	24
YBR273C	unknown	65	31	70	6	24
YBR274W		65	34	84	6	10
YBR275C	RIF1	49	47	94	0	6
YBR276C	PPS1	71	55	84	2	14
YBR277C	unknown	67	45	74	7	19
YBR278W	DPB3	64	25	63	6	31
YBR279W		69	13	80	2	18
YBR280C		44	32	80	0	20
YBR281C		68	29	84	8	8
YBR282W	MPRL27	26	46	84	4	12
YBR283C	SSH1	29	41	86	4	10
YBR284W	unknown	22	23	77	6	17
YBR285W	MRPL27	58	41	53	4	43
YBR286W	APE3	57	65	82	4	14
YBR287W	ZSP1	67	48	80	8	12
YBR288C	APM3	67	45	82	9	9
YBR289W	SNF5	80	55	90	6	4
YBR290W	BSD2	18	39			
YBR291C		63	38	80	2	18
YBR292C		59	24	76	4	20
YBR293W		52	37	87	2	11
YBR294W		65	40	90	4	6
YBR295W	PCA1	37	51	74	6	20
YBR296C		36	33	73	7	20
YBR297W		68	35	81	2	17
YBR298C		49	31	77	10	13
YBR299W	MAL32	47	57	88	0	12






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YBR300C	unknown	72	51	59	12	29
YBR301W	DAN3	45	62	74	2	24
YCL001W	RER1					
YCL001W-A		65	28	76	6	18
YCL002C		48	33	79	6	15
YCL003W		37	24	92	6	2
YCL005W		50	38	82	7	11
YCL006C		43	26	92	6	2
YCL007C		69	16	90	0	10
YCL008C		54	19			
YCL009C		60	40	83	2	15
YCL010C	SGF29	64	31	63	7	30
YCL011C		68	28	74	12	14
YCL012W	unknown	54	50	89	1	10
YCL014W	BUD3	67	18	37	7	56
YCL016C	DCC1	64	44	49	8	43
YCL022C	unknown	70	31	61	10	29
YCL023C		65	28	78	6	16
YCL023C		81	34	77	8	15
YCL024W	KCC4	42	33	65	7	28
YCL025C		63	32	78	2	20
YCL026C	FRM2	43	21	70	2	28
YCL026C-A	FRM2	64	58	84	4	12
YCL027W		65	28	85	2	13
YCL028W		72	22	86	4	10
YCL029C		64	19	88	0	12
YCL030C	HIS4	57	26	8	0	92
YCL032W	STE50					
YCL033C		55	24	84	8	8
YCL034W		64	30	84	2	14
YCL035C		46	33	76	2	22
YCL036W		59	34	92	0	8
YCL037C		56	27	81	2	17
YCL038C		51	30	78	4	18
YCL038C		44	25	93	2	5
YCL039W		50	32	79	2	19
YCL040W	GLK1	62	45	65	4	31
YCL042W	unknown	49	45	82	2	16
YCL044C	unknown	32	28	83	5	12
YCL045C	unknown	71	32	75	2	23
YCL046W		66	24	85	5	10
YCL047C		47	23	85	2	13
YCL048W		49	39	82	2	16
YCL049C		36	31	84	4	12
YCL050C		74	24	84	4	12
YCL051W		65	26	86	2	12






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YCL055W	KAR4	25	28	73	4	23
YCL056C	unknown	59	44	79	7	14
YCL057W	PRD1	52	31	73	2	25
YCL058C	FYV5	55	40	69	4	27
YCL060C	unknown	53	42	86	2	12
YCL061C	MRC1	57	18	65	3	32
YCL062W		77	26	87	0	13
YCL063W	unknown	48	25	70	4	26
YCL064C		50	16	80	8	12
YCL069W		46	28	88	2	10
YCL074W	unknown	66	56	75	2	23
YCL075W	unknown	72	51	84	2	14
YCL076W		82	35	85	0	15
YCR001W		55	25	91	2	7
YCR002C	CDC10					
YCR003W	MRPL32	56	28	72	2	26
YCR004C		50	28	79	4	17
YCR005C		66	41	75	4	21
YCR006C		48	21	92	2	6
YCR007C		40	38	90	7	3
YCR008W		76	39	93	2	5
YCR009C		47	23	93	2	5
YCR010C		39	33	84	4	12
YCR011C		44	18	81	5	14
YCR014C		52	31	87	2	11
YCR015C		58	26	87	2	11
YCR016W		55	36	96	0	4
YCR017C		57	28	84	4	12
YCR019W		67	27	70	10	20
YCR020C		66	35	92	4	4
YCR020C-A	MAK31	32	38	90	0	10
YCR020W-B	HTL1					
YCR021C	HSP30	50	68	70	6	24
YCR022C		63	27	88	4	8
YCR023C	unknown	50	52	93	2	5
YCR024C	unknown	23	52	94	2	4
YCR024C-A	PMP1	60	57	76	4	20
YCR025C	unknown	71	51	88	0	12
YCR026C	unknown	64	48	67	4	29
YCR027C	RHB1	61	48	77	6	17
YCR028C	FEN2	54	54	75	6	19
YCR028C-A	RIM1	56	61	76	0	24
YCR030C	SYP1	75	49	78	4	18
YCR031C	RPS14A	43	44	73	2	25
YCR032W	BPH1	73	55	86	2	12
YCR033W		37	38	80	2	18






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YCR034W		69	29	76	8	16
YCR036W	RBK1	56	32	53	4	43
YCR037C		47	32	86	7	7
YCR043C		42	14	88	6	6
YCR044C	unknown	59	47	86	10	4
YCR045C		57	21	78	4	18
YCR046C		65	23	82	0	18
YCR047C	BUD23	64	47	46	16	38
YCR048W	ARE1	63	43	90	4	6
YCR049C		60	30	84	10	6
YCR050C	unknown	58	47	70	0	30
YCR051W	unknown	38	34	62	11	27
YCR053W	THR4	62	42	71	12	17
YCR059C	YIH1	62	39	70	3	27
YCR060W	unknown	43	49	42	0	58
YCR061W		66	38	79	4	17
YCR062W	unknown	44	50	68	8	24
YCR063W		61	41	70	12	18
YCR065W	HCM1	60	45	84	8	8
YCR066W	RAD18					
YCR067C	SED4	41	73			
YCR068W	CVT17	60	58	92	6	2
YCR069W		50	40	92	4	4
YCR071C		57	19	88	5	7
YCR073C		66	36	98	0	2
YCR073W-A		57	33	88	4	8
YCR075C		53	36	72	6	22
YCR076C	unknown	65	48	77	13	10
YCR077C		76	24	80	9	11
YCR079W		47	36	86	4	10
YCR081W		38	26	86	10	4
YCR082W	unknown	49	49	72	10	18
YCR083W	TRX3	38	47	76	0	24
YCR084C	TUP1					
YCR085W		76	28	85	8	7
YCR086W	CSM1	42	62	88	2	10
YCR087C-A	unknown	66	47	78	6	16
YCR087W	unknown	38	42	88	6	6
YCR088W	ABP1	60	50	84	6	10
YCR089W	FIG2	43	51	86	2	12
YCR090C	unknown	43	21	56	6	38
YCR091W		98	20	84	4	12
YCR092C		45	27	88	7	5
YCR094W	CDC50	40	5	71	6	23
YCR095C		53	34	86	6	8
YCR098C		46	28	81	2	17


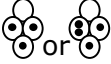



ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YCR099C		50	38	78	10	12
YCR100C		44	20	90	6	4
YCR101C	unknown	58	24	69	4	27
YCR102C		49	37	82	10	8
YCR102W-A		78	33	80	0	20
YCR105W		60	23	82	4	14
YCR106W		51	37	78	4	18
YCR107W	AAD3					
YDL001W		40	28	87	11	2
YDL002C	NHP10	33	24	71	6	23
YDL005C	MED2					
YDL006W	PTC1					
YDL009C		65	40	75	5	20
YDL010W		63	30	80	5	15
YDL011C	unknown	30	20	92	3	5
YDL012C		64	32	84	7	9
YDL013W		46	28	77	6	17
YDL018C		54	24	85	9	6
YDL019C	OSH2	28	68	89	7	4
YDL020C	RPN4	29	52	63	8	29
YDL021W	GPM2	31	23	85	2	13
YDL022W	GPD1	31	45	84	8	8
YDL023C	unknown	39	46	76	10	14
YDL024C		40	35	87	2	11
YDL025C		64	34	83	2	15
YDL026W	unknown	43	47	72	9	19
YDL027C	unknown	32	34	83	4	13
YDL032W		79	19	88	6	6
YDL033C	unknown	51	43	84	7	9
YDL034W		41	29	96	4	0
YDL035C		52	38	77	10	13
YDL036C		73	27	87	0	13
YDL037C	unknown	67	51	90	2	8
YDL038C		44	23	87	4	9
YDL039C		45	22	77	2	21
YDL040C		52	12			
YDL041W	unknown					
YDL042C		38	34	92	0	8
YDL044C	MTF2	16	25	84	2	14
YDL045W-A		61	23	82	7	11
YDL046W		60	28	92	2	6
YDL047W	SIT4	34	41	49	4	47
YDL048C	STP4	66	44	91	0	9
YDL049C	KNH1	26	35	89	0	11
YDL050C	unknown	48	35	69	7	24
YDL051W	LHP1	57	42	68	7	25






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDL052C		66	32	84	9	7
YDL053C		54	26	94	2	4
YDL054C		39	26	78	12	10
YDL056W	MBP1	34	35	93	0	7
YDL057W	unknown	24	38	83	2	15
YDL059C	RAD59	32	31	90	2	8
YDL061W	RPS29B	58	48	92	6	2
YDL062W	unknown	34	44	87	4	9
YDL063C		64	42	78	4	18
YDL065C		60	27	81	2	17
YDL066W	IDP1	28	39	46	9	45
YDL067C	COX9	39	28	75	2	23
YDL068W		63	14	73	9	18
YDL069C		71	29	77	9	14
YDL070W		35	17	88	4	8
YDL071C		44	25	80	5	15
YDL072C	unknown	42	43	95	0	5
YDL073W		48	35	98	0	2
YDL074C		48	21	87	2	11
YDL075W	RPL31A					
YDL076C	RXT3	21	29	86	3	11
YDL077C		43	28	87	2	11
YDL078C	MDH3	26	27	71	7	22
YDL079C	MCK1	55	35	63	6	31
YDL080C		67	22	70	9	21
YDL081C	RPP1A					
YDL082W		53	19	87	7	6
YDL083C		59	39	71	7	22
YDL085W		67	21	80	2	18
YDL086W		58	28	83	3	14
YDL088C		46	28	89	7	4
YDL089W	unknown	17	76	72	8	20
YDL090C	RAM1					
YDL091C		55	36	77	8	15
YDL093W	PMT5					
YDL094C		63	41	84	7	9
YDL095W		37	38	81	5	14
YDL096C		59	35	85	0	15
YDL099W		49	29	90	0	10
YDL100C		50	20	88	0	12
YDL101C		54	39	82	9	9
YDL104C		58	14	94	0	6
YDL106C	PHO2	36	8	75	0	25
YDL107W		43	33	89	0	11
YDL109C		75	22	96	0	4
YDL110C		52	13	94	0	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDL112W		65	15	90	0	10
YDL113C	ATG20	33	30	98	0	2
YDL114W		60	28	96	0	4
YDL115C		66	29	86	4	10
YDL116W		47	30	81	0	19
YDL117W		65	32	78	0	22
YDL118W		52	15	92	0	8
YDL119C		43	33			
YDL121C	unknown	55	47	68	16	16
YDL122W		46	15	87	0	13
YDL123W		36	33	95	0	5
YDL124W		72	21	95	0	5
YDL125C		44	16	93	0	7
YDL127W		50	14	90	0	10
YDL128W		70	22	94	0	6
YDL129W	unknown	65	26	64	0	36
YDL130W		48	4			
YDL130W-A		52	38	90	0	10
YDL131W		66	34	88	0	12
YDL133C-A		41	34	88	8	4
YDL133W	unknown	42	40	76	0	24
YDL134C		61	15	92	0	8
YDL134C-A		47	30	98	0	2
YDL135C		74	19	82	0	18
YDL136W		63	16	98	0	2
YDL137W		63	13	83	0	17
YDL138W	RGT2	30	30	85	0	15
YDL142C	CRD1	42	43	96	0	4
YDL144C	unknown	27	30	87	0	13
YDL146W		61	21	98	0	2
YDL149W	APG9	5	20			
YDL151C	BUD30	60	32	91	0	9
YDL154W		47	23	90	0	10
YDL155W		59	34	94	0	6
YDL156W		57	14	87	0	13
YDL157C		61	26	86	0	14
YDL158C		54	41	86	0	14
YDL159W	STE7					
YDL160C	DHH1	54	24	69	0	31
YDL161W		36	36	91	0	9
YDL162C		72	24			
YDL167C		57	21	84	4	12
YDL168W		55	5	88	0	13
YDL169C		72	21	90	0	10
YDL170W	UGA3	57	19	72	0	28
YDL171C		71	11	83	5	12






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDL172C		74	36	84	0	16
YDL173W		56	30	94	0	6
YDL174C		52	23	79	5	16
YDL175C		51	21			
YDL176W		60	19	88	0	12
YDL177C		68	21	96	0	4
YDL178W		46	11	96	0	4
YDL179W		51	37	93	0	7
YDL180W		60	17	90	0	10
YDL181W		55	24			
YDL182W		65	14	88	6	6
YDL183C		64	19	92	0	8
YDL184C		58	20	91	0	9
YDL185W		50	25	84	0	16
YDL186W	unknown	69	36	74	0	26
YDL187C	unknown	52	48	81	0	19
YDL188C		51	25	90	0	10
YDL189W		55	34	90	0	10
YDL190C		37	30	79	8	13
YDL191W		52	34	96	0	4
YDL192W		65	40	86	6	8
YDL194W	SNF3	43	53	86	8	6
YDL197C		57	29	82	7	11
YDL198C		65	29	91	0	9
YDL199C		58	19	88	0	12
YDL200C		58	28	80	0	20
YDL201W		54	26	88	0	12
YDL202W	MRPL11	46	43	86	0	14
YDL203C		73	23	77	0	23
YDL204W		77	16	96	0	4
YDL206W		36	14	90	0	10
YDL210W	UGA4					
YDL211C		59	34	81	0	19
YDL213C	NOP6	29	24	98	0	2
YDL214C		50	22	90	0	10
YDL215C		75	32	98	0	2
YDL216C	RRI1	36	47	88	0	12
YDL218W		65	25	84	5	11
YDL219W		68	35			
YDL222C		50	26	98	0	2
YDL223C		54	15	93	0	7
YDL224C		35	26	86	0	14
YDL225W		43	40	88	0	13
YDL226C	GCS1	19	41	84	0	16
YDL227C		51	35	92	0	8
YDL229W		57	38	91	0	9


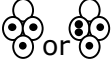
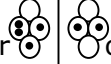

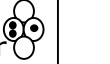
ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDL230W	PTP1	49	39	64	9	27
YDL231C		71	32	80	0	20
YDL232W		63	37	77	5	18
YDL233W	unknown	60	48			
YDL234C		46	13	93	0	7
YDL236W		75	25	94	0	6
YDL237W		61	21	89	0	11
YDL238C		49	31	87	0	13
YDL239C	ADY3	33	30	96	0	4
YDL240W	LRG1	22	36	92	0	8
YDL241W		62	26	88	0	12
YDL242W		64	27	90	4	6
YDL243C		38	37	93	0	7
YDR001C	NTH1	50	43	93	0	7
YDR003W		63	27	91	0	9
YDR004W	RAD57	24	25	79	5	16
YDR005C	MAF1	27	7	83	4	13
YDR006C		68	15	86	0	14
YDR007W		72	40	88	2	10
YDR008C		41	22	86	0	14
YDR009W		42	33	98	0	2
YDR010C		66	31	81	6	13
YDR011W		38	29	81	0	19
YDR014W	unknown	32	25	65	14	21
YDR015C	unknown	29	14	83	7	10
YDR017C		48	19	89	0	11
YDR018C		65	23	98	0	2
YDR019C		47	32	82	0	18
YDR020C	unknown	51	18	72	0	28
YDR022C		36	31	88	0	12
YDR024W		62	21	89	0	11
YDR025W		64	23	89	0	11
YDR026C		47	32	81	4	15
YDR027C		64	17	80	0	20
YDR028C		43	28	66	11	23
YDR029W		58	36	91	0	9
YDR030C		46	28	92	0	8
YDR031W		52	41	88	0	13
YDR032C		67	24	76	10	14
YDR033W		65	22	81	4	15
YDR034C		45	18	85	0	15
YDR035W	ARO3	33	24	86	0	14
YDR036C		35	23	85	0	15
YDR042C	unknown	38	83	78	9	13
YDR043C		72	21	93	0	7
YDR046C		64	22	80	0	20






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR048C	unknown	44	64	77	6	17
YDR049W		37	16	81	5	14
YDR051C		48	24	75	8	17
YDR055W	PST1	43	44	86	2	12
YDR056C		59	36	92	0	8
YDR057W		43	28	68	9	23
YDR058C		47	21	88	0	12
YDR059C		35	23	84	9	7
YDR061W		49	24	88	0	12
YDR063W	unknown	29	24	82	4	14
YDR065W		41	27	77	6	17
YDR066C		44	23	92	2	6
YDR067C	unknown	46	15	74	2	24
YDR068W	DOS2	64	56	86	6	8
YDR069C		66	23	85	2	13
YDR070C	unknown	58	33	84	2	14
YDR071C	unknown	34	29	54	4	42
YDR072C		55	20	71	9	20
YDR073W		52	29	92	4	4
YDR074W	TPS2	43	26	65	15	20
YDR075W	PPH3	12	42	69	7	24
YDR076W	RAD55	24	29	89	3	8
YDR077W		57	18	84	6	10
YDR078C	SHU2	50	22	68	18	14
YDR079W	PET100	23	9	67	3	30
YDR080W	VPS41	27	11	86	2	12
YDR083W		65	29	82	2	16
YDR084C		69	35	96	2	2
YDR085C		66	18	89	0	11
YDR089W	unknown	56	49	80	4	16
YDR090C		51	8	82	3	15
YDR092W		41	20	85	4	11
YDR093W		61	25	82	0	18
YDR094W		50	24	91	3	6
YDR095C		56	38	92	4	4
YDR096W		65	29	92	4	4
YDR097C		45	22	90	4	6
YDR098C	GRX3	15	83	79	2	19
YDR099W		44	16	88	4	8
YDR100W		45	22	81	4	15
YDR101C		52	25	92	4	4
YDR102C	unknown	31	19	76	8	16
YDR103W	STE5					
YDR104C	SPO71	7	29	80	0	20
YDR105C		48	25	95	3	2
YDR107C		59	25	92	4	4






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR108W	GSG1	35	37	77	12	11
YDR109C		69	30	89	2	9
YDR110W	FOB1	68	28	73	3	24
YDR111C		40	10	83	5	13
YDR112W	unknown	34	15	87	0	13
YDR114C	unknown	23	22	80	10	10
YDR115W		40	35	71	7	22
YDR116C	MRPL1	27	11	81	2	17
YDR117C	unknown	45	49	95	0	5
YDR119W		48	29	92	2	6
YDR120C		67	40	80	8	12
YDR121W		69	20	91	0	9
YDR122W	KIN1	47	45	83	6	11
YDR123C		40	18	6	3	91
YDR124W		47	13	79	6	15
YDR125C		39	23	77	8	15
YDR126W		46	24	77	2	21
YDR127W	ARO1	58	31	71	2	27
YDR128W		50	20	92	2	6
YDR129C	SAC6	20	35	88	5	7
YDR130C		56	34	90	4	6
YDR131C		43	28	91	2	7
YDR132C		53	17	71	10	19
YDR133C	unknown	65	45	72	0	28
YDR134C		72	31	88	6	6
YDR135C	YCF1	36	44	85	5	10
YDR136C		49	27	80	9	11
YDR137W	RGP1	36	28	77	17	6
YDR138W	HPR1	34	15	0	0	100
YDR139C	RUB1	33	9	84	0	16
YDR140W		46	13	92	4	4
YDR142C		35	14	84	2	14
YDR143C		59	15	80	4	16
YDR144C	MCK7	28	29	82	9	9
YDR146C		61	34	80	9	11
YDR147W		58	41	92	5	3
YDR148C		40	28	76	6	18
YDR149C	unknown	33	15	91	4	5
YDR150W		44	2	81	2	17
YDR151C	CTH1	41	7	78	16	6
YDR152W		45	7	94	2	4
YDR153C		60	22	84	5	11
YDR154C		35	26	88	8	4
YDR155C		53	21	86	8	6
YDR156W		55	35	77	8	15
YDR157W		65	26	81	4	15






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR158W		55	15	78	10	12
YDR159W	SAC3	30	3	80	4	16
YDR161W		40	10	87	9	4
YDR162C		50	20	88	2	10
YDR163W		43	2	90	7	3
YDR165W		50	20	86	2	12
YDR169C	STB2	32	9	74	11	15
YDR171W	HSP42	26	0	92	4	4
YDR173C		38	11	92	4	4
YDR174W	HMO1	68	44	89	4	7
YDR175C		39	3	96	2	2
YDR176W		50	2	88	4	8
YDR178W		46	11	92	6	2
YDR179C		63	27	77	10	13
YDR179W-A		60	18	72	8	20
YDR181C		40	18	88	4	8
YDR183W		46	7	89	2	9
YDR184C		37	5	92	4	4
YDR185C		37	3	96	0	4
YDR186C	unknown	34	15	84	2	14
YDR191W	HST4	59	29	68	15	17
YDR192C		60	25	94	4	2
YDR193W		48	25	88	6	6
YDR194C	MSS116	27	7	84	4	12
YDR195W		38	11	96	2	2
YDR197W	CBS2	32	9	84	2	14
YDR198C		56	21	77	4	19
YDR199W		60	12	92	6	2
YDR200C	VSP64	53	34	64	18	18
YDR202C	RAV2	64	45	82	4	14
YDR203W		68	13	83	6	11
YDR204W		35	17	84	5	11
YDR205W		52	33	94	0	6
YDR206W	EBS1	39	3	68	13	19
YDR207C	UME6	23	9	80	4	16
YDR209C		44	11	94	4	2
YDR210W	unknown	33	12	89	4	7
YDR213W	UPC2					
YDR214W		49	2	84	4	12
YDR215C		55	27	80	9	11
YDR216W		55	15	84	6	10
YDR217C		41	39	88	8	4
YDR218C	SPR28	27	11	94	3	3
YDR219C		43	5	80	4	16
YDR220C		36	8	78	4	18
YDR221W		38	3			






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR222W	unknown	30	0	84	2	14
YDR223W	unknown	24	0	82	12	6
YDR225W	HTA1	29	31			
YDR226W		52	27	72	8	20
YDR227W	SIR4					
YDR229W	IVY1	31	6	88	8	4
YDR230W	unknown	27	11	86	8	6
YDR231C	COX20	18	6	60	6	34
YDR233C	RTN1	20	0	74	10	16
YDR234W		38	13	73	9	18
YDR237W		48	15	84	8	8
YDR239C	unknown	28	4	94	2	4
YDR241W	BUD26	27	22	71	6	23
YDR242W		86	24	78	2	20
YDR242W		55	27	96	0	4
YDR244W		67	36	93	0	7
YDR245W		72	22	93	0	7
YDR247W		70	20	89	0	11
YDR248C		59	25	88	0	13
YDR249C		51	26	87	0	13
YDR250C		52	26	89	2	9
YDR251W		71	30	83	2	15
YDR252W		47	23	86	0	14
YDR253C		57	40	82	4	14
YDR254W	CHL4	36	19	48	22	30
YDR255C	RMD5	26	46	96	0	4
YDR256C		45	24	96	0	4
YDR257C		57	20	98	0	2
YDR258C		68	18			
YDR259C		50	28			
YDR260C	SWM1	20	65	77	4	19
YDR261C		60	20	96	0	4
YDR262W		44	34	94	0	6
YDR263C		69	26	91	0	9
YDR264C	AKR1	41	22	65	10	25
YDR265W		50	40	98	0	2
YDR266C		46	15	88	0	12
YDR268W		47	19	91	7	2
YDR269C	unknown	50	54	88	4	8
YDR270W	CCC2	76	53	91	0	9
YDR271C		61	38	82	2	16
YDR272W	GLO2	73	23	73	3	24
YDR273W		81	26	98	0	2
YDR274C		73	21	98	0	2
YDR275W		58	29	92	0	8
YDR276C		51	29	77	6	17






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR277C		38	29	91	0	9
YDR278C		62	16	84	2	14
YDR279W		47	30	92	0	8
YDR281C		55	27	90	0	10
YDR282C		55	24	77	5	18
YDR283C	GCN2	48	31	76	0	24
YDR284C		83	35	90	0	10
YDR285W	ZIP1	10	60	79	2	19
YDR286C		64	27	94	2	4
YDR287W		52	27	96	0	4
YDR289C	RTT103	61	48	87	0	13
YDR290W		58	33	80	10	10
YDR291W		67	30	77	6	17
YDR293C		73	7	88	6	6
YDR295C		72	4	88	0	12
YDR296W		51	25			
YDR297W	SUR2	60	48	90	0	10
YDR298C	ATP5	22	36	96	0	4
YDR300C		50	25	26	3	71
YDR304C		67	22	70	10	20
YDR305C		60	27	88	4	8
YDR306C		54	40	90	0	10
YDR307W		49	33	89	2	9
YDR309C		74	29	89	0	11
YDR310C	SUM1	26	50	98	0	2
YDR312W		49	24	93	0	7
YDR313C	PIB1	32	50	98	0	2
YDR314C		60	28			
YDR315C		57	18	93	0	7
YDR316W		60	34	89	0	11
YDR317W		62	16	95	0	5
YDR318W	MCM21	31	45	75	11	14
YDR319C		59	39	93	0	7
YDR320C		61	35	98	0	2
YDR321W		67	29	94	0	6
YDR322W	MRPL35	30	37	86	6	8
YDR323C		67	40	90	0	10
YDR326C		75	35	90	4	6
YDR329C		59	25	86	0	14
YDR330W		75	20	95	0	5
YDR332W	unknown	37	39	74	0	26
YDR333C		68	35	89	9	2
YDR334W		42	10	89	0	11
YDR335W		50	12	79	4	17
YDR336W		45	13	89	0	11
YDR337W		63	19	96	0	4






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR338C		52	34	95	0	5
YDR340W		64	21	86	0	14
YDR344C		71	20	95	0	5
YDR345C		66	27	91	0	9
YDR346C		45	35	82	6	12
YDR347W		54	16	82	0	18
YDR348C		69	27	93	0	7
YDR349C		67	36	98	0	2
YDR350C	TCM10	60	58	75	0	25
YDR351W		69	19	90	0	10
YDR352W		62	40			
YDR354W		52	40	98	0	2
YDR357C		50	29	93	0	7
YDR358W		46	13	87	0	13
YDR359C		51	38	88	0	12
YDR360W	unknown	48	19	71	3	26
YDR363W		67	24	81	3	16
YDR363W-A	SEM1	48	23	54	24	22
YDR364C	CDC40	43	43	73	2	25
YDR368W		57	39	89	0	11
YDR369C		43	28	85	0	15
YDR370C		67	12	90	0	10
YDR371W	CTS2	17	18	96	0	4
YDR372C		66	28	93	0	7
YDR374C		42	12	97	0	3
YDR375C		42	29	90	2	8
YDR377W		47	26	3	2	95
YDR378C	LSM6	56	43	88	0	12
YDR379W		50	24	98	2	0
YDR380W		50	28	95	0	5
YDR382W		54	31	92	4	4
YDR383C		51	29	87	4	9
YDR384C		44	25			
YDR385W	EFT2	54	42			
YDR386W	MUS81	11	55	49	13	38
YDR387C		69	36	96	0	4
YDR388W	RVS167	31	26	96	0	4
YDR389W		39	21			
YDR391C		44	27	88	0	12
YDR392W		53	31	83	0	17
YDR393W	SHE9	41	46	93	0	7
YDR395W	SXM1	45	51			
YDR399W		70	26			
YDR400W	URH1	53	43			
YDR401W		47	32	87	0	13
YDR402C		65	29	75	9	16






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR403W	DIT1	24	63	98	0	2
YDR405W		45	31	89	0	11
YDR406W		71	37	98	0	2
YDR408C		48	27			
YDR409W		53	32			
YDR410C		48	31			
YDR411C		41	32			
YDR414C		52	38	86	6	8
YDR415C	unknown	30	20	88	0	12
YDR417C	unknown	58	36	73	0	27
YDR417C		42	26	94	4	2
YDR418W		56	30	90	0	10
YDR419W		69	26			
YDR420W		45	31			
YDR421W		62	20			
YDR422C		35	23			
YDR423C		58	20			
YDR424C	DYN2	64	50	69	10	21
YDR425W		50	20	94	0	6
YDR426C		36	22	98	0	2
YDR428C	unknown	30	27	94	0	6
YDR430C	CYM1	25	32	96	0	4
YDR431W		54	31			
YDR432W		39	33			
YDR433W		50	20			
YDR435C		63	16			
YDR436W		65	18			
YDR438W		49	33	77	8	15
YDR439W	LRS4	48	17	71	4	25
YDR440W	DOT1	37	24	75	2	23
YDR441C		47	30	82	4	14
YDR442W		35	11	82	0	18
YDR443C		48	23	88	0	12
YDR444W		53	40	94	0	6
YDR445C		53	21	82	6	12
YDR446W		53	6	83	11	6
YDR447C	RPS17B					
YDR448W	ADA2	50	16	51	12	37
YDR450W		56	21	90	8	2
YDR451C		51	12	91	2	7
YDR452W		50	24	66	11	23
YDR453C		55	20	80	8	13
YDR455C	unknown	29	62	52	25	23
YDR456W		54	26	80	4	16
YDR457W		45	13	86	7	7
YDR458C	unknown	55	22	65	4	31





ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR459C		46	15	92	2	6
YDR461W	MFA1	63	44	88	0	12
YDR462W	MRPL28	13	15	91	2	7
YDR463W		58	21	96	2	2
YDR465C		61	28	83	6	11
YDR466W		58	34	75	6	19
YDR467C		45	29	81	4	15
YDR469W		62	19	90	2	8
YDR470C		59	15	68	10	22
YDR471W		50	30	98	0	2
YDR474C	unknown	37	22	64	6	30
YDR475C	JIP4	60	52	74	4	22
YDR476C		57	23	89	0	11
YDR477W	SNF1	57	47	86	4	10
YDR479C	unknown	54	28	65	8	27
YDR480W	DIG2	31	19	76	12	12
YDR481C		51	4			
YDR482C		57	25	92	2	6
YDR483W		64	30	86	2	12
YDR484W	VPS52	26	35	88	4	8
YDR485C		37	24	94	0	6
YDR486C		53	21	84	4	12
YDR488C		42	10	98	2	0
YDR490C		50	36	88	4	8
YDR491C		41	24	86	6	8
YDR492W	unknown	33	42	89	4	7
YDR493W	unknown	67	34	74	0	26
YDR494W		42	10	81	2	17
YDR495C		60	23	95	2	3
YDR496C		72	36	89	2	9
YDR497C		55	25	83	5	12
YDR500C		64	25	83	2	15
YDR500C		60	33	86	0	14
YDR501W		55	22	85	2	13
YDR502C		53	17	76	7	17
YDR503C		56	25	88	4	8
YDR504C		43	23	96	2	2
YDR505C		50	26	94	4	2
YDR506C	unknown	68	44	74	11	15
YDR506C	unknown					
YDR507C		47	21	74	6	20
YDR508C		57	11	86	4	10
YDR509W		61	18	93	4	3
YDR511W	ACN9	34	21	84	6	10
YDR512C	EMI1	19	11	82	8	10
YDR512C	EMI1	33	21	94	6	0






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YDR513W		59	24	85	0	15
YDR514C		48	21	82	2	16
YDR515W		64	28	87	4	9
YDR516C	EMI2	52	17	66	18	16
YDR517W		42	26	92	6	2
YDR518W		57	37	89	4	7
YDR519W		55	15	94	2	4
YDR520C		66	29	86	4	10
YDR521W	unknown	65	43	80	2	18
YDR522C		40	5	85	11	4
YDR524C	AGE1	54	35	71	2	27
YDR525W		49	29	87	9	4
YDR525W-A		35	31			
YDR528W	HLR1	30	13	72	4	24
YDR529C	QCR7	17	18	82	12	6
YDR530C		46	11			
YDR532C	unknown					
YDR533C		47	21	89	0	11
YDR534C		41	17	96	2	2
YDR535C		71	39	85	9	6
YDR536W		54	33	83	4	13
YDR537C	unknown	81	48	70	6	24
YDR538W	PAD1	60	45	90	2	8
YDR539W		71	38	90	4	6
YDR540C		66	26	86	8	6
YDR541C		58	29	94	0	6
YEL001C	unknown	26	27	98	0	2
YEL003W	GIM4	55	14	43	0	57
YEL004W		75	24	92	0	8
YEL005C				86	0	14
YEL006W	unknown			50	3	47
YEL007W		68	22	74	9	17
YEL008W		39	18	84	2	14
YEL009C	GCN4	24	29	87	0	13
YEL010W		52	27	92	0	8
YEL011W	GLC3	80	46	87	4	9
YEL012W	UBC8	56	13	51	2	47
YEL013W	VAC8	45	24	59	2	39
YEL014C	unknown	34	38	78	0	22
YEL015W		38	29	80	0	20
YEL016C	unknown	53	28	74	0	26
YEL017C-A		61	31	88	0	12
YEL017W	GTT3	49	22	75	2	23
YEL018W	EAF5	57	23	55	2	43
YEL020C	unknown	15	13	56	0	44
YEL023C	unknown	57	18	40	0	60






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YEL024W	RIP1	53	55	41	10	49
YEL025C	SRI-1	43	28	72	1	28
YEL027W	CUP5	56	23	49	0	51
YEL028W		47	23	84	0	16
YEL029C		73	12	92	0	8
YEL030W		50	18	98	0	2
YEL031W		36	31	86	0	14
YEL033W	unknown	46	24	60	0	40
YEL036C		53	21	83	0	17
YEL037C		63	22	94	0	6
YEL038W		53	23	85	0	15
YEL039C		71	21	85	2	13
YEL040W		40	28	84	2	14
YEL041W		53	21	87	0	13
YEL042W		66	24	95	0	5
YEL044W		38	34	2	4	94
YEL045C		54	24	96	0	4
YEL046C	GLY1	26	35	68	0	32
YEL047C		66	26	84	0	16
YEL048C	unknown	30	27	95	0	5
YEL049W		64	17	87	0	13
YEL050C		65	22	84	0	16
YEL051W		60	22	81	0	19
YEL052W		66	14	91	0	9
YEL053C		46	35	82	0	18
YEL054C		48	33	86	0	14
YEL056W		44	34	94	0	6
YEL057C		42	26			
YEL059W	unknown	30	17	93	0	7
YEL060C	PRB1	17	29	80	2	19
YEL061C		56	23	88	0	12
YEL062W		76	9	86	0	14
YEL063C		68	12	94	0	6
YEL064C		65	17	84	0	16
YEL065W		48	31			
YEL066W	HPA3	66	42	95	0	5
YEL067C		49	22	93	0	7
YEL068C	unknown	32	28	88	0	12
YEL071W		74	7	96	0	4
YEL072W		47	19	98	0	2
YER001W		48	25	94	0	6
YER002W		41	37	91	0	9
YER004W		61	10	87	0	13
YER005W		37	8	92	0	8
YER007C-A	unknown	29	7	88	0	12
YER007W		69	26	84	0	16






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YER010C		60	10			
YER011W	TIR1	18	17	98	0	2
YER014W	HEM14	55	42	66	18	16
YER016W	BIM1	61	28	76	0	24
YER017C	AFG3	34	12	81	0	19
YER019C-A		72	36	76	4	20
YER019W		61	21	96	0	4
YER020W		47	30	94	4	2
YER024W	YAT2	29	21	80	4	16
YER027C		56	36	88	4	8
YER028C		48	31	82	10	8
YER030W		59	34	98	0	2
YER031C		48	27	88	2	10
YER032W	FIR1	28	18	74	4	22
YER033C	ZRG8	26	23			
YER034W		48	23	91	0	9
YER035W	EDC2	26	15	96	2	2
YER037W		52	38	94	2	4
YER038W-A		72	26	94	0	6
YER039C-A		39	28	92	5	3
YER040W		48	23	98	0	2
YER041W		60	37	80	0	20
YER042W	MXR1	34	38	68	3	29
YER044C		49	22	90	10	0
YER044C-A	MEI4	31	23	88	0	12
YER045C		51	18	83	2	15
YER046W		38	32	90	0	10
YER046W-A		37	12	85	0	15
YER047C		53	25	88	0	12
YER048C	CAJ1	70	27	69	6	25
YER049W		49	31	88	0	12
YER050C	RSM18	54	30	61	10	29
YER051W		58	19	88	0	12
YER052C	HOM3	24	29	64	1	35
YER053C	unknown	29	38	85	0	15
YER054C		70	10	92	0	8
YER055C	HIS1	51	39	19	16	65
YER056C		64	25	94	0	6
YER056C-A		45	33	98	0	2
YER057C		50	36	76	8	16
YER058W	PET117	34	24	76	0	24
YER059W		58	29	93	0	7
YER060W		52	33	83	0	17
YER060W-A		48	40			
YER061C		53	26	90	0	10
YER062C		51	31	83	0	17






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YER063W		43	26	72	5	23
YER064C	unknown	60	45	79	8	13
YER065C	ICL1	19	47	58	15	27
YER066C-A	unknown	40	45	86	0	14
YER066W	unknown	30	17	86	2	12
YER067C-A		48	17	98	0	2
YER067W		56	30	80	0	20
YER068C-A		58	28	90	4	6
YER068W	MOT2	26	42	53	10	37
YER069W		52	25	80	0	20
YER070W	RNR1	34	24	91	0	9
YER071C		39	28	91	0	9
YER072W		48	35	76	1	23
YER073W	ALD5	30	10	84	0	16
YER074W		45	9	98	0	2
YER075C		43	21	89	0	11
YER077C		61	31	74	10	16
YER078C	unknown	55	53	83	8	9
YER079W		37	16	90	4	6
YER080W		56	23	92	0	8
YER081W	SER3	34	18	67	6	27
YER083C		37	27	92	0	8
YER084W		42	29	84	9	7
YER085C	unknown	22	9	76	0	24
YER086W	ILV1	28	39	85	0	15
YER087C-A	unknown	28	14	93	0	7
YER087W	unknown	31	19	89	0	11
YER088C	DOT6	56	36	64	12	24
YER089C		65	31	88	8	4
YER090W	TRP2	62	53	63	2	35
YER091C	MET6	83	37	64	18	18
YER091C-A	unknown	52	44	90	0	10
YER092W		53	40	83	11	6
YER093C-A	unknown	53	36	71	2	27
YER095W	RAD51	51	51	88	0	12
YER096W		58	36	86	10	4
YER097W		48	40	80	6	14
YER098W	UBP9	72	51	76	2	22
YER101C		64	28	96	0	4
YER103W	SSA4	52	46	90	0	10
YER106W	MAM1	32	78	38	0	63
YER108C		63	30	90	0	10
YER109C	FLO8	70	27	72	0	28
YER110C		47	32	7	0	93
YER111C		60	28			
YER113C		67	32	92	0	8






ORF	Gene	% Spores	% Dyads		 or 	
				4	3	2
YER114C		60	33	90	0	10
YER115C		72	26	98	0	2
YER116C	SLX8					
YER117W		46	26	92	0	8
YER118C	SHO1	62	34	75	0	25
YER119C		57	19	98	0	2
YER119C-A	unknown	60	22	71	0	29
YER120W		53	34	98	0	2
YER121W		53	21	91	0	9
YER122C	GLO3	53	36	76	0	24
YER123W		67	21			
YER124C		69	26	80	0	20
YER128W		55	20	95	0	5
YER129W		71	28	95	0	5
YER130C		68	31	85	0	15
YER131W		65	31	86	2	12
YER132C		66	26	91	0	9
YER134C		68	29	81	0	19
YER135C		72	25	86	0	14
YER137C		64	33	90	0	10
YER139C		78	31	92	0	8
YER140W		77	34	92	0	8
YER141W		71	27	98	0	2
YER142C		69	32	91	0	9
YER143W		67	22	90	0	10
YER144C	UBP5	68	47	81	4	15
YER145C		66	21	95	0	5
YER149C		61	25	89	0	11
YER150W	SPI1	62	48	98	0	2
YER151C		67	33	86	0	14
YER152C	unknown	59	19	73	0	27
YER153C	PET122	19	47	95	0	5
YER154W		59	24	95	0	5
YER155C	BEM2	41	32	27	0	73
YER156C		67	37	88	0	12
YER158C		70	29	91	0	9
YER161C		64	31	91	0	9
YER162C		55	33	94	0	6
YER163C		69	33	88	0	12
YER164W	CHD1	61	28	68	0	32
YER166W	DNF1	67	45	94	0	6
YER167W	BCK2	78	8	65	0	35
YER169W	RPH1	67	31	70	0	30
YER170W		61	38	85	0	15
YER173W	RAD24	54	30	58	2	40
YER174C		64	18	78	0	22






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YER175C	unknown	66	32	56	2	42
YER176W		55	25	90	0	10
YER177W		73	41	93	0	7
YER178W	PDA1	59	49	93	0	7
YER179W	DMC1	10	40			
YER180C	ISC10	10	30			
YER181C		71	25	78	0	22
YER182W		66	24	92	0	8
YER183C		62	32	93	0	7
YER184C		65	11	88	0	12
YER185W		66	26	94	0	6
YER186C		43	19	85	0	15
YER187W		62	21	89	0	11
YER188W	unknown	59	32	84	12	4
YFL001W		66	20	90	6	4
YFL003C		64	36	82	9	9
YFL004W	VTC2	74	20	68	9	23
YFL006W	BLM3	33	12	84	2	14
YFL007W		75	37	90	4	6
YFL010C		72	38	86	8	6
YFL010W-A		70	26	84	8	8
YFL011W		49	29	96	0	4
YFL012W		67	24	80	5	15
YFL013C		55	22	90	0	10
YFL013W-A	unknown	29	28	66	12	22
YFL014W	HSP12	34	15	80	4	16
YFL015C		51	10	69	9	22
YFL016C	MDJ1	46	30	71	2	27
YFL018C	LPD1	56	21	46	11	43
YFL019C	unknown	37	21	50	9	41
YFL020C		45	27	94	2	4
YFL021W		48	30	96	2	2
YFL023W	BUD27					
YFL025C	BST1					
YFL026W		40	8	92	2	6
YFL027C	GYP8	33	9	85	0	15
YFL028C		46	30	86	6	8
YFL030W		56	25	90	0	10
YFL031W		57	32	78	4	18
YFL032W		39	28	88	6	6
YFL033C	RIM15	37	8	66	10	24
YFL033C		56	16	88	4	8
YFL034C-A		56	29	90	8	2
YFL034W		35	17	83	4	13
YFL035C-B		40	25	86	7	7
YFL036W		39	13	86	2	12


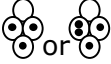



ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YFL040W		54	37	89	4	7
YFL041W	FET5	61	43	82	0	18
YFL042C	unknown	45	49	92	2	6
YFL043C		66	27	94	6	0
YFL044C		57	12	80	4	16
YFL046W	unknown	39	18	68	6	26
YFL047W		50	10	92	2	6
YFL048C		55	13	79	2	19
YFL049W		47	4	92	2	6
YFL050C		53	11	90	4	6
YFL051C		60	27	81	2	17
YFL052W		57	23	86	2	12
YFL053W		68	35	84	4	12
YFL054C	unknown	46	15	64	11	25
YFL055W		48	25	94	2	4
YFL056C		45	18	82	6	12
YFL063W		74	35	73	6	21
YFR006W	unknown	51	43	83	0	17
YFR007W		54	22	96	2	2
YFR008W		69	25	82	0	18
YFR009W		49	33	88	4	8
YFR010W		45	4	90	2	8
YFR011C	unknown	36	67	84	6	10
YFR012W		38	16	84	6	10
YFR013W	IOC3	40	55	94	2	4
YFR014C		53	30	80	2	18
YFR015C	GSY1	52	29	61	16	23
YFR016C	unknown	26	15	94	3	3
YFR017C	unknown					
YFR018C		60	27	88	2	10
YFR019W	FAB1	12	8	0	2	98
YFR020W		47	32	89	9	2
YFR021W	ATG18	14	43			
YFR022W	unknown	48	15	88	2	10
YFR023W		36	17	92	2	6
YFR024C	LSB3	65	23	50	8	42
YFR024C-A		42	17	86	12	2
YFR025C	HIS2	46	35	60	8	32
YFR026C	unknown	29	10	92	2	6
YFR030W	MET10	49	14	68	22	10
YFR031C-A	RPL2A	9	33			
YFR032C		47	21	86	3	11
YFR032C-A		51	25	72	10	18
YFR033C	QCR6	58	43	92	4	4
YFR034C		51	25	86	6	8
YFR035C	unknown	33	24	92	4	4


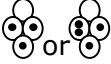



ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YFR036W		38	29	90	0	10
YFR038W	unknown	60	27	76	16	8
YFR039C	unknown	51	47	94	0	6
YFR040W	SAP155	69	54	46	11	43
YFR041C	unknown	59	19	66	13	21
YFR043C	unknown	43	23	49	18	33
YFR044C	unknown	73	37	73	4	23
YFR045W	unknown	60	40	76	14	10
YFR046C		59	27	78	10	12
YFR047C		44	36	70	11	19
YFR048W	RMD8	19	11	67	0	33
YFR049W	YMR31	38	37	73	15	12
YFR053C		52	23	80	7	13
YFR054C		47	26	78	12	10
YFR055W		61	38	82	6	12
YFR056C		58	26	82	4	14
YFR057W	unknown	52	40	72	2	26
YGL002W	ERP6	42	38	62	6	32
YGL003C		58	41	88	4	8
YGL004C	RPN14	53	51	80	2	18
YGL005C	COG7	69	42	83	7	10
YGL006W		77	26	82	6	12
YGL007W		78	31	79	6	15
YGL009C	LEU1	74	38	55	16	29
YGL010W	unknown	71	49	68	8	24
YGL012W		57	26	80	6	14
YGL013C		63	13	73	6	21
YGL014W		50	38	90	4	6
YGL015C	unknown	40	45	84	7	9
YGL016W		72	22	87	0	13
YGL017W	ATE1	52	50	96	4	0
YGL019W	CKB1	24	21	78	4	18
YGL020C		66	33	96	0	4
YGL021W		41	29	81	4	15
YGL023C		67	40	76	6	18
YGL024W		67	30	17	0	83
YGL025C		54	37	75	5	20
YGL026C	TRP5	80	50	92	4	4
YGL027C		60	28	89	2	9
YGL028C		77	23	83	3	14
YGL029W		86	33	93	3	4
YGL031C	BET4	62	50	75	6	19
YGL032C	AGA2	67	43	86	10	4
YGL033W		49	41	83	2	15
YGL034C	unknown	68	40	73	0	27
YGL034C	unknown					






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGL035C	MIG1	44	50	79	2	19
YGL036W	unknown	28	32	74	8	18
YGL037C		53	17	74	9	17
YGL038C	OCH1					
YGL039W	unknown	42	43	90	0	10
YGL041C		56	39	77	4	19
YGL042C		43	33	90	0	10
YGL043W	DST1	62	32	74	4	22
YGL045W		73	26	84	4	13
YGL046W	unknown	59	47	84	7	9
YGL046W	RIM8					
YGL049C	TIF4632	48	46	87	0	13
YGL050W	unknown	63	60	72	0	28
YGL051W	MST27	60	35	69	2	29
YGL053W		65	38	76	8	16
YGL054C		56	38	77	7	16
YGL056C	SDS23	42	40	69	8	23
YGL057C	unknown	75	25	73	2	25
YGL058W		64	22	84	4	12
YGL059W		54	33	86	2	12
YGL060W	YBP2	53	32	62	14	24
YGL062W	PYC1	60	43	86	7	7
YGL063W	PUS2	61	46	89	0	11
YGL064C		50	26	70	10	20
YGL066W		66	41	82	8	10
YGL067W	NPY1	55	53	84	6	10
YGL070C		76	32	83	7	10
YGL071W	RCS1	62	32	72	4	24
YGL072C		45	31	88	2	10
YGL076C		55	13	94	4	2
YGL077C		60	37	90	4	6
YGL078C	DBP3	49	45	89	2	9
YGL079W	unknown	43	51	87	4	9
YGL080W		65	22	74	8	18
YGL081W		57	35	76	2	22
YGL082W		49	33	96	2	2
YGL083W		63	22	84	4	13
YGL084C	GUP1	65	28	68	8	24
YGL085W		69	25	80	4	16
YGL086W	MAD1	57	32	92	2	6
YGL087C		60	38	84	8	8
YGL088W		67	22	88	6	6
YGL089C		62	32	83	2	15
YGL090W		47	40	78	2	20
YGL094C	PAN2	79	47	84	2	14
YGL095C	VPS45					






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGL096W	TOS8	32	31	98	0	2
YGL101W	unknown	41	22	64	16	20
YGL104C	VPS73	21	24	96	3	1
YGL105W	ARC1	77	66	90	4	6
YGL107C	RMD9	0	0			
YGL108C		48	17	72	10	18
YGL109W	unknown	48	44	84	2	14
YGL110C		50	38	86	6	8
YGL114W		58	41	84	4	13
YGL115W	SNF4	83	36	66	20	14
YGL117W	unknown	47	43	89	0	11
YGL118C		58	31	96	0	4
YGL121C		52	27	86	6	8
YGL124C	MON1	6	17			
YGL125W	MET1	7	43			
YGL126W	SCS3	34	32	83	0	17
YGL127C		44	25	89	3	8
YGL129C		45	29	85	4	11
YGL131C	SNT2	32	47	74	6	20
YGL132W		61	28	98	2	0
YGL133W	ITC1	74	49	83	4	13
YGL135W	RPL1b	19	42	30	2	68
YGL136C		49	29	84	8	8
YGL138C		43	35	88	0	12
YGL139W	unknown	32	38	90	0	10
YGL140C		70	20	86	0	14
YGL141W		60	32	86	4	10
YGL143C		57	18	82	10	8
YGL144C		36	33	88	8	4
YGL146C		54	22	80	6	14
YGL147C		59	24	82	7	11
YGL148W		62	40	86	8	6
YGL149W		68	31	76	2	22
YGL151W	NUT1	56	50	49	7	44
YGL152C	unknown	33	21	88	5	7
YGL153W		55	16	79	4	17
YGL154C	LYS5	27	33	84	6	10
YGL156W	AMS1	50	38	83	13	4
YGL157W		46	15	96	4	0
YGL158W		49	20	89	2	9
YGL159W	unknown	27	15	96	2	2
YGL160W		50	22	85	4	11
YGL161C		54	30	92	6	2
YGL162W	SUT1	32	47	80	6	14
YGL163C		35	26	94	2	4
YGL164C		63	0	95	0	5


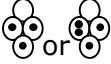



ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGL165C	unknown	62	52	94	0	6
YGL166W		73	41	87	3	10
YGL167C		56	25	96	2	2
YGL168W		82	29	80	6	14
YGL170C	SPO74	1	0			
YGL173C	KEM1	22	18	84	9	7
YGL174W	BUD13	49	27	44	7	49
YGL175C	SAE2	2	0			
YGL176C		45	27	98	0	2
YGL177W		87	34			
YGL179C		38	26			
YGL180W	APG1	0	0			
YGL181W	RPS8A	36	19	0	0	100
YGL194C		54	24	90	4	6
YGL195W	GCN1					
YGL196W		59	36	90	2	8
YGL197W		54	31	86	2	12
YGL198W		47	34	92	4	4
YGL199C		68	37	82	4	14
YGL199C	unknown	59	51	92	2	6
YGL200C		50	36	86	6	8
YGL202W		51	24	78	6	16
YGL203C	KEX1	49	43	78	4	18
YGL205W		64	28	76	9	15
YGL206C	CHC1					
YGL208W		62	40	76	2	22
YGL209W		63	37	82	6	12
YGL210W	YPT32	66	30	70	13	17
YGL211W	unknown	43	42	80	0	20
YGL212W		61	36	74	10	16
YGL213C		45	29	88	0	12
YGL214W		44	36	76	8	16
YGL214W		52	31	78	6	16
YGL215W		41	24	94	4	2
YGL216W	KIP3	50	44	83	2	15
YGL217C	unknown	63	52	78	8	14
YGL217C		49	41	90	2	8
YGL218W		67	30	78	10	12
YGL218W	SRF1	81	49	90	2	8
YGL219C		51	41	80	2	18
YGL220W		36	25	86	0	14
YGL221C	NIF3	49	47	80	9	11
YGL222C		69	33	88	6	6
YGL223C	COG1	61	26	60	9	31
YGL224C		50	30	94	2	4
YGL226C-A		43	35	87	0	13






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGL226W	unknown	58	43	86	2	12
YGL227W	VID30	20	15	89	2	9
YGL228W		51	25	84	0	16
YGL229C		60	17	88	4	8
YGL230C		59	34	80	5	15
YGL231C		58	34	85	0	15
YGL232W		67	30	87	4	9
YGL234W	ADE5,7	60	40	76	0	24
YGL235W		72	40	80	6	14
YGL235W	unknown	58	47	94	0	6
YGL236C		62	23	92	0	8
YGL237C	HAP2	47	53	86	6	8
YGL240W	DOC1	29	38	77	7	16
YGL241W	KAP114	72	44	86	4	10
YGL242C		66	18	94	0	6
YGL243W		58	41	75	7	18
YGL244W	RTF1	36	44	74	6	20
YGL246C		48	33	87	2	11
YGL248W		37	14	80	8	13
YGL249W	ZIP2	45	47	78	4	18
YGL250W		52	37	73	8	19
YGL251C		51	33	76	4	20
YGL252C		62	26	98	0	2
YGL253W		54	31	88	4	8
YGL254W		52	40	70	8	22
YGL255W		62	16	84	4	12
YGL256W		39	18	74	4	22
YGL257C		39	41	79	4	17
YGL258W	VEL1	62	29	77	0	23
YGL259W		53	38	70	12	18
YGL260W		67	33	96	0	4
YGL261C		54	26	89	2	9
YGL262W		59	32	76	10	14
YGL263W	COS12	59	46	88	2	10
YGR001C		61	30	78	4	18
YGR003W		40	28	80	6	14
YGR004W	unknown	63	57	75	8	17
YGR007W	MUQ1	20	20	77	0	23
YGR008C		52	27	85	2	13
YGR010W		45	31	82	4	14
YGR011W		69	41	89	2	9
YGR011W		57	39	92	6	2
YGR012W		61	21	84	0	16
YGR014W		47	23	86	5	9
YGR015C	unknown	30	33	76	12	12
YGR016W		57	28	90	3	8






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGR017W	unknown	33	27	85	2	13
YGR018C		40	35	82	6	12
YGR018C	unknown	57	51	91	4	5
YGR019W		45	31	94	0	6
YGR020C	VMA7	62	42	87	2	11
YGR021W	unknown	60	17	67	2	31
YGR022C	unknown	62	47	68	5	27
YGR022C	unknown	63	56	78	2	20
YGR023W		52	19	75	6	19
YGR025W	unknown	65	38	55	0	45
YGR025W		64	41	80	2	18
YGR026W		63	30	87	6	7
YGR027C	RPS25A	55	42	87	0	13
YGR028W	MSP1	40	25	65	2	33
YGR031W	unknown	62	40	63	2	35
YGR032W	GSC2	47	57	92	2	6
YGR033C	unknown	48	33	66	2	32
YGR034W	RPL26B	33	24	63	8	29
YGR035C		36	42	80	6	14
YGR036C		59	34	82	2	16
YGR037C		73	11	77	4	19
YGR038W		66	32	80	4	16
YGR039W		37	41	86	2	13
YGR040W		65	42	88	4	8
YGR041W		38	29	89	7	4
YGR042W	unknown	54	26	68	13	19
YGR043C		59	12	98	0	2
YGR044C		47	38	92	4	4
YGR045C		67	39	92	6	2
YGR049W		63	38	88	0	12
YGR050C	unknown	63	44	79	2	19
YGR051C	unknown	3	0	94	4	2
YGR052W	FMP48	34	41	82	8	10
YGR053C		44	34	86	3	11
YGR054W		57	25	88	4	8
YGR055W		35	37	91	0	9
YGR056W	RSC1					
YGR057C		57	35			
YGR058W	unknown	57	51	88	0	12
YGR059W		60	40	72	6	22
YGR061C		51	27	88	2	10
YGR062C		58	10	82	2	16
YGR063C		64	38			
YGR064W		71	32	79	4	17
YGR066C	unknown	34	32	76	8	16
YGR067C	unknown	25	56	88	6	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGR068C	unknown	59	37	74	20	6
YGR069W		54	15	76	4	20
YGR070W	ROM1	55	42	88	4	8
YGR071C	unknown	62	29	69	13	18
YGR072W	UPF3	58	21	60	10	30
YGR076C	MRPL25	66	45	86	2	12
YGR077C		64	19	69	10	21
YGR078C		46	30	92	0	8
YGR079W		61	21	78	8	14
YGR080W		39	15	94	0	6
YGR081C	unknown	63	41	74	13	13
YGR084C	MRP13	64	20	63	8	29
YGR085C		46	37	83	4	13
YGR086C		61	34	86	2	12
YGR087C	PDC6	33	6	82	4	14
YGR088W		50	30	78	4	18
YGR089W		60	28	94	2	4
YGR092W		65	20	92	2	6
YGR093W		42	33	98	0	2
YGR096W		62	32	84	10	6
YGR097W	ASK10	48	27	80	16	4
YGR100W		60	25	84	2	14
YGR101W		61	39	81	6	13
YGR102C		52	25	73	12	15
YGR104C	SRB5					
YGR105W	VMA21	43	33	64	6	30
YGR106C		55	24	92	4	4
YGR107W	unknown	40	33	66	14	20
YGR108W		48	42	82	10	8
YGR109C		46	26	91	7	2
YGR110W	unknown	62	58	96	2	2
YGR111W	unknown	17	18	57	10	33
YGR112W	SHY1	35	54	77	4	19
YGR117C		55	38	95	2	3
YGR118W		64	28	79	6	15
YGR121C	MEP1	43	35	65	6	29
YGR122C-A		50	34	83	4	13
YGR122W	unknown	55	40	72	14	14
YGR123C		54	33	76	8	16
YGR124W	ASN2	34	35	74	4	22
YGR125W		41	12	83	4	13
YGR126W		54	22	89	4	7
YGR127W	unknown	36	31	68	8	24
YGR129W	SYF2	23	26	85	2	13
YGR130C		67	24	82	4	14
YGR131W	unknown	24	17	61	8	31






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGR132C		46	28	76	6	18
YGR133W		41	37	87	4	9
YGR134W	CAF130	60	30	52	6	42
YGR135W		41	38	81	4	15
YGR136W		40	33	80	8	12
YGR137W		41	27	79	5	16
YGR138C	TPO2	33	45	78	4	18
YGR139W		39	33	86	6	8
YGR141W	VPS62	34	29	65	6	29
YGR142W	BTN2	21	33	80	9	11
YGR143W	SKN1	16	13	82	0	18
YGR144W		37	32	92	0	8
YGR146C	unknown	25	36	80	8	13
YGR148C		49	33	92	4	4
YGR149W	unknown	43	33	77	0	23
YGR150C	unknown	25	32	77	2	21
YGR151C		49	18	90	2	8
YGR152C	RSR1	30	17	69	4	27
YGR153W	unknown	31	29	84	4	12
YGR154C		41	29	90	2	8
YGR155W		40	28	72	9	19
YGR157W	CHO2	27	19	96	2	2
YGR159C	NSR1	25	36	56	8	36
YGR160W	unknown	49	27	70	12	18
YGR161C		37	16	88	2	10
YGR162W		38	17	89	9	2
YGR163W	GTR2	30	33	80	2	18
YGR164W		43	26	94	2	4
YGR165W		42	26	91	2	7
YGR166W	KRE11	30	30	79	5	16
YGR167W	CLC1	31	19	92	4	4
YGR168C		44	18	84	9	7
YGR169C		61	20	78	2	20
YGR170W		39	26	78	9	13
YGR171C		35	20	76	4	20
YGR173W	GIR1	29	31	86	6	8
YGR174C	CBP4	34	21	82	6	12
YGR176W	unknown	33	39	81	2	17
YGR177C	ATF2	26	42	70	8	22
YGR178C	PBP1	13	23	86	2	12
YGR181W		39	41	95	0	5
YGR182C	unknown	50	38	68	8	24
YGR183C	QCR9	28	18	92	2	6
YGR184C	UBR1	33	21	87	0	13
YGR187C		40	30	89	0	11
YGR188C		55	29	70	8	22






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGR189C	CRH1	48	56	80	8	12
YGR192C		42	21	82	8	10
YGR193C	PDX1	37	24	69	6	25
YGR194C		36	17	75	9	16
YGR196C	FYV8	42	19	76	12	12
YGR197C		49	20	79	4	17
YGR199W		46	41	77	6	17
YGR200C		47	40	88	4	8
YGR201C		57	28	76	6	18
YGR202C		47	13	84	4	13
YGR203W		40	20	82	9	9
YGR204W		69	28	67	10	23
YGR205W		45	31	94	2	4
YGR206W		42	19	86	4	10
YGR207C	unknown	20	25	94	2	4
YGR208W		48	31	83	5	12
YGR209C		52	29	94	0	6
YGR210C		61	33	77	6	17
YGR212W		48	38	88	0	12
YGR213C	RTA1	20	40	96	0	4
YGR214W		43	30	70	8	22
YGR215W	RSM27	34	35	88	2	10
YGR217W		40	15	90	2	8
YGR219W		55	33	86	8	6
YGR220C	MRPL9	55	33	70	2	28
YGR221C	TOS2	30	27	82	7	11
YGR222W	PET54	61	39	68	18	14
YGR223C	unknown	45	56	88	6	6
YGR224W		56	32	80	8	13
YGR225W	AMA1	0				
YGR226C	unknown	0				
YGR227W	DIE2	64	55			
YGR228W		54	33	80	12	8
YGR229C	SMI1					
YGR230W		57	25	72	6	22
YGR231C	PHB2	47	49	74	15	11
YGR232W		46	15	80	2	18
YGR233C	PHO81	30	33	96	4	0
YGR234W		60	17	87	9	4
YGR235C		51	33	88	0	12
YGR236C		61	38	68	11	21
YGR237C		62	29	84	8	8
YGR238C	KEL2	33	30	86	6	8
YGR239C	PEX21	50	60	90	2	8
YGR240C		63	33	70	10	20
YGR241C		41	32	78	4	18






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YGR242W		45	20	83	6	11
YGR243W	unknown	49	33	56	10	34
YGR244C	LSC2	41	34	72	16	12
YGR247W		58	26	94	2	4
YGR248W	SOL4	43	51	80	2	18
YGR249W		66	33			
YGR250C	unknown	82	54	63	12	25
YGR252W	GCN5	39	31	70	0	30
YGR254W		60	32			
YGR255C	COQ6	69	29	54	4	42
YGR256W		42	26	88	2	10
YGR257C		71	25	69	10	21
YGR258C		63	27	82	6	12
YGR259C		48	19	84	8	8
YGR260W	TNA1	33	24	78	11	11
YGR261C		52	10	86	6	8
YGR262C	BUD32	26	19	90	10	0
YGR263C		65	14	96	0	4
YGR266W	unknown	32	19	62	8	30
YGR268C	HUA1	44	20	72	15	13
YGR269W	unknown	32	13	82	4	14
YGR270W		55	25	98	0	2
YGR271W		58	22	78	10	13
YGR272C		64	36	86	0	14
YGR273C	unknown	76	42	86	10	4
YGR275W	RTT102	52	31	76	14	10
YGR276C	RNH70	57	44	82	8	10
YGR279C		38	21	74	6	20
YGR281W	YOR1	34	21	90	6	4
YGR282C		44	39	87	11	2
YGR283C		44	25	91	7	2
YGR284C	ERV29	57	39	64	21	15
YGR285C	ZUO1	51	18	54	22	24
YGR286C		54	19	90	2	8
YGR287C		46	14	90	2	8
YGR288W		39	10	86	6	8
YGR289C	MAL11	65	40	70	12	18
YGR290W		54	19	94	2	4
YGR291C		53	26	88	8	4
YGR292W	MAL12	27	30	93	7	0
YGR295C		59	37	72	8	20
YHL002W		60	40	94	2	4
YHL003C		60	27	91	0	9
YHL005C	unknown	49	43	57	4	39
YHL006C	SHU1	52	40	72	0	28
YHL007C	STE20					






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YHL008C		41	34	91	0	9
YHL009C		70	28			
YHL010C		61	34			
YHL011C	PRS3	30	33	68	0	32
YHL012W		67	27	88	0	13
YHL013C		48	33	85	0	15
YHL014C	unknown	50	12	48	0	52
YHL016C		55	33	85	0	15
YHL017W		67	28	86	0	14
YHL019C	APM2	69	28	63	0	38
YHL020C		51	27			
YHL021C		58	22			
YHL022C	SPO11	34	29	41	0	59
YHL023C	RMD11	29	38	78	0	22
YHL024W	RIM4	8	50			
YHL025W	SNF6	49	31	77	4	19
YHL026C		51	25	88	0	12
YHL027W	RIM101	43	16	69	0	31
YHL028W		60	18	87	0	13
YHL029C		57	40	90	0	10
YHL030W		68	18	98	0	2
YHL031C		57	21	93	0	7
YHL032C		57	28	98	0	2
YHL033C		45	27	78	0	22
YHL034C	SBP1	60	45	89	0	11
YHL035C		67	25	95	0	5
YHL036W		61	23	98	0	2
YHL037C		52	31	93	0	7
YHL038C	CBP2	0				
YHL039W		35	31	82	0	18
YHL040C		51	29	80	0	20
YHL041W		64	38			
YHL042W	unknown	55	20	63	0	37
YHL043W		64	31	98	0	2
YHL044W		45	18	0	0	100
YHL045W	unknown	65	49	86	3	11
YHL046C		57	16	97	0	3
YHL047C		64	31	95	0	5
YHR001W-A		53	19	85	0	15
YHR003C	unknown	23	30	74	4	22
YHR004C	NEM1	48	33	86	6	8
YHR005C		49	27	88	2	10
YHR006W		60	15	90	4	6
YHR008C		61	26	79	0	21
YHR009C	unknown	48	17	47	6	47
YHR010W		54	33	89	0	11






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YHR011W		65	38	94	0	6
YHR012W		58	40	98	0	2
YHR013C		67	30	98	0	2
YHR014W	SPO13	52	90			
YHR015W		55	22	96	0	4
YHR016C	YSC84	75	56	80	2	18
YHR017W	YSC83	77	44	88	2	10
YHR018C		66	24	93	0	7
YHR021C	RPS27B	58	24	73	0	27
YHR021W-A	ECM12	37	19	73	16	11
YHR022C	unknown					
YHR025W		43	28	83	11	6
YHR026W	PPA1	28	25	81	2	17
YHR028C		54	30	93	0	7
YHR029C		61	23			
YHR030C	SLT2	57	27	61	5	34
YHR031C		64	27	91	0	9
YHR032W	unknown	53	42	70	14	16
YHR033W		53	21	98	0	2
YHR034C		69	25	98	0	2
YHR035W		60	23	96	0	4
YHR037W		35	20	98	0	2
YHR038W	FIL1	43	47			
YHR039C		54	24	94	0	6
YHR039C-B		61	13	94	2	4
YHR041C		36	28	80	2	18
YHR043C	DOG2	48	44	94	0	6
YHR044C		64	31	96	0	4
YHR045W		78	22	80	2	18
YHR046C		60	10	95	0	5
YHR047C		82	29	96	0	4
YHR048W		45	38			
YHR049C-A		55	15	92	0	8
YHR049W		81	28	91	0	9
YHR050W		39	15	91	2	7
YHR051W				80	0	20
YHR057C		52	35	98	0	2
YHR059W		46	11	77	9	14
YHR060W	VMA22	42	33	75	0	25
YHR061C		56	21	93	2	5
YHR064C	SSZ1	59	34	69	0	31
YHR066W	SSF1	18	0	78	5	17
YHR067W	RMD12	52	21	84	6	10
YHR073W	OSH3	32	18	76	5	19
YHR075C	PPE1	23	9	96	0	4
YHR076W		53	25	90	0	10






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YHR077C	NMD2	14	57	71	9	20
YHR078W		84	13	89	0	11
YHR079C		46	11	90	0	10
YHR079C-B	SAE3	11	18			
YHR080C		36	36	76	2	22
YHR081W	LRP1	44	45	89	3	8
YHR082C		47	15	94	0	6
YHR086W	NAM8	45	24	89	0	11
YHR087W		55	20	94	0	6
YHR091C		52	21	93	0	7
YHR092C		54	7	93	0	7
YHR093W		76	24			
YHR094C	HXT1	25	20	90	2	8
YHR095W		73	16	91	0	9
YHR096C		77	18	90	5	5
YHR097C		64	22	80	2	18
YHR100C		60	5	91	0	9
YHR103W		61	25	94	0	6
YHR104W		53	6	82	3	15
YHR105W		57	25	92	3	5
YHR106W		61	20	97	0	3
YHR108W	GGA2	40	48	95	0	5
YHR109W		81	12	94	3	3
YHR110W		71	20	93	2	5
YHR111W	UBA4	34	24	68	6	26
YHR112C		52	17	78	2	20
YHR113W		66	23	97	0	3
YHR114W	BZZ1	74	19	74	2	24
YHR115C		77	16	78	0	23
YHR116W	unknown	21	33	75	0	25
YHR117W	TOM72	90	9	70	0	30
YHR120W	MSH1	10	40	98	2	0
YHR121W	unknown	33	42	98	0	2
YHR123W		47	19	84	0	16
YHR124W	NDT80	47	13	73	0	27
YHR125W		56	23	77	2	21
YHR126C		59	24	75	3	22
YHR127W		51	22	92	4	4
YHR129C		70	14	88	2	10
YHR130C	unknown	31	13	48	4	48
YHR131C		56	21	80	6	14
YHR132C		54	31	97	0	3
YHR132W-A		54	19	82	4	14
YHR133C		55	22	86	2	12
YHR134W	WSS1	79	19	72	2	26
YHR135C		40	8	95	0	5






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YHR136C	SPL1	51	24	66	3	31
YHR137W		72	28	80	10	10
YHR138C		79	23	79	0	21
YHR139C		56	32	86	6	8
YHR139C-A	unknown	23	22	94	2	4
YHR140W	unknown	64	44	94	6	0
YHR142W	CHS7	31	44	68	15	17
YHR143W	DSE2	40	20	75	0	25
YHR146W	CRP1	58	47	81	6	13
YHR147C	MRPL6	28	43	62	2	36
YHR150W		57	19	77	4	19
YHR151C	unknown	15	27	90	6	4
YHR152W	SPO12	42	93			
YHR153C	SPO16	7	43	82	9	9
YHR154W		39	31	84	2	14
YHR155W		44	27	87	2	11
YHR156C		35	11	86	6	8
YHR157W	REC104	31	16	73	8	19
YHR158C		45	24	88	4	8
YHR159W		37	30	80	10	10
YHR160C		50	8	86	5	9
YHR161C		42	24	79	6	15
YHR162W		65	42	78	4	18
YHR163W	SOL3	29	24	84	6	10
YHR167W	THP2	12	42	92	2	6
YHR168W	unknown	69	42	79	4	17
YHR171W	ATG7	5	60	79	7	14
YHR176W	FMO	28	36	82	0	18
YHR177W	GON3	70	50	96	4	0
YHR178W	STB5	32	9	86	2	12
YHR179W	OYE2	29	28	89	2	9
YHR180W		35	17	92	0	8
YHR181W	SVP26	53	49	86	9	5
YHR182W	unknown	22	23	74	9	17
YHR183W		44	16	85	6	9
YHR184W	SSP1	1	100			
YHR185C	ADY1	27	52	89	0	11
YHR189W	PTH1	26	15	82	2	16
YHR191C		75	36	87	6	7
YHR193C	EGD2	69	43	84	4	12
YHR194W	MDM31	44	50	88	8	4
YHR195W	NVJ1	32	28	80	0	20
YHR198C		44	18			
YHR199C	FMP34	25	16	88	7	5
YHR200W	RPN10	24	29	61	12	27
YHR202W	unknown	18	22	82	6	12






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YHR203C	RPS4B	26	31	81	4	15
YHR204W		37	22	90	6	4
YHR206W	SKN1	19	32	92	4	4
YHR207C	SET5	26	12	86	2	12
YHR209W		49	16	80	6	14
YHR210C	unknown	5	60	88	4	8
YIL001W		72	38	78	0	22
YIL002C	INP51	34	12	49	11	40
YIL005W	EPS1	18	22	86	2	12
YIL006W	unknown	49	16	64	7	29
YIL007C	NAS2	22	27	80	5	15
YIL008W	URM1	45	51	80	2	18
YIL009C-A		63	26	80	6	14
YIL009W		41	17	78	9	13
YIL010W		54	31	91	0	9
YIL011W		89	28	95	0	5
YIL012W	unknown	61	20	55	15	30
YIL013C	PDR11	22	9	74	0	26
YIL014W		40	30	92	0	8
YIL015C-A		57	32	80	2	18
YIL015W	BAR1	15	67	83	0	17
YIL016W		52	31	88	0	12
YIL017C	VID28	43	37	54	17	29
YIL018W	RPL2B	17	35	21	4	75
YIL020C	HIS6	25	20	75	2	23
YIL023C		36	11			
YIL024C	unknown	59	19	72	0	28
YIL025C		53	17	97	3	0
YIL027C		62	35			
YIL028W	unknown	48	45	97	0	3
YIL029C	unknown	33	9	94	0	6
YIL030C	SSM4	34	29	73	4	23
YIL032C		62	24	83	0	17
YIL034C		62	18	88	0	12
YIL035C		43	19	94	0	6
YIL036W		51	27	94	0	6
YIL037C	PRM2	33	36	96	0	4
YIL039W	unknown					
YIL040W		68	32	96	0	4
YIL041W		43	28	88	0	12
YIL042C	unknown	70	47	75	10	15
YIL043C	CBR1	27	30	64	2	34
YIL044C	AGE2	12	42	75	5	20
YIL045W	PIG2	42	17	65	0	35
YIL047C		39	23	94	0	6
YIL049W		45	11	0	0	100






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YIL050W	PCL7	33	30	79	4	17
YIL052C	RPL34B	32	47	63	7	30
YIL053W		42	17	93	2	5
YIL054W	unknown	32	22	82	6	12
YIL055C		57	25	76	4	20
YIL056W		43	33	79	8	13
YIL057C		76	7	90	0	10
YIL058W		63	38	87	2	11
YIL059C		44	9	78	4	18
YIL060W	unknown	45	42	88	6	6
YIL064W	unknown	29	52	87	0	13
YIL065C	FIS1	17	12	96	0	4
YIL066C	RNR3	58	59	82	12	6
YIL067C		57	33	80	4	16
YIL069C		68	26	96	0	4
YIL070C		55	35	86	2	12
YIL071C		48	27	86	8	6
YIL072W	HOP1	12	25	40	0	60
YIL073C		37	24			
YIL074C		43	35	82	4	14
YIL076W	SEC28	29	24	98	2	0
YIL077C		58	26	84	4	12
YIL079C		69	20	91	0	9
YIL084C	SDS3	13	38	79	0	21
YIL085C	KTR7	27	41	90	8	2
YIL086C	unknown	84	21	45	13	42
YIL087C		57	26	94	0	6
YIL088C	AVT7	62	29	61	2	37
YIL089W		56	23	69	10	21
YIL090W	unknown					
YIL092W		47	34	84	8	8
YIL092W		73	29	86	6	8
YIL093C	RSM25	72	21	56	2	42
YIL094C		51	37	87	6	7
YIL095W	PRK1	27	37	79	0	21
YIL096C		58	24	85	4	11
YIL097W		45	11	93	2	5
YIL098C		48	33	80	0	20
YIL099W		36	11	83	0	17
YIL100W		60	22	95	0	5
YIL101C	XBP1	55	29	94	0	6
YIL102C	unknown	53	21	72	0	28
YIL103W		49	31	81	0	19
YIL105C	unknown	40	50	61	8	31
YIL107C		51	22	85	2	13
YIL108W		51	29	85	0	15






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YIL110W		38	39	90	0	10
YIL111W	COX5b	58	12	25	0	75
YIL112W	HOS4	64	16	74	0	26
YIL113W		51	33	85	0	15
YIL114C		37	27	81	2	17
YIL116W	HIS5					
YIL117C		44	23	85	0	15
YIL119C	RPI1	69	31	71	0	29
YIL120W		57	28	85	0	15
YIL121W		42	12	96	0	4
YIL122W	POG1	16	13	92	0	8
YIL123W		48	21	83	0	17
YIL124W		46	30	85	0	15
YIL125W		59	19	81	0	19
YIL128W	MET18	43	21	71	0	29
YIL130W	unknown	29	24	87	0	13
YIL131C		43	30	87	0	13
YIL132C	CSM2	29	55	63	6	31
YIL133C		55	25	84	0	16
YIL134W		55	13	84	0	16
YIL135C		57	19	81	0	19
YIL136W	OM45	27	22	88	0	12
YIL137C		35	28	86	0	14
YIL138C		41	27	88	0	12
YIL139C		52	15	81	0	19
YIL140W		47	26	86	0	14
YIL141W		44	23	88	0	12
YIL145C		47	34	94	0	6
YIL146C	ECM37	48	33	74	0	26
YIL148W		55	22	84	0	16
YIL149C		42	17	78	0	22
YIL152W	unknown	55	40	61	0	39
YIL153W	RRD1	68	32	61	5	34
YIL154C	IMP2					
YIL155C		70	29	87	0	13
YIL156W		48	38	94	0	6
YIL157C	FMP35	46	41	74	0	26
YIL158W	UBP7	38	13	72	0	28
YIL159W		57	26	80	0	20
YIL160C		45	24	79	0	21
YIL161W		41	29	92	0	8
YIL162W	SUC2	25	19	87	0	13
YIL163C	unknown	33	30	84	0	16
YIL164C		50	34	82	0	18
YIL165C		57	26	81	4	15
YIL166C	unknown	51	65	74	6	20






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YIL167W		64	23	83	2	15
YIL168W		64	36	80	4	16
YIL170W		55	22	95	0	5
YIL173W		67	24	87	0	13
YIRO01C		51	27	88	0	12
YIRO02C	MPH1	52	22	74	0	26
YIRO03W		52	21	81	0	19
YIRO04W	DJP1					
YIRO05W	IST3	63	52	80	6	14
YIRO07W		50	28	90	0	10
YIRO09W		51	25	88	0	12
YIRO13C	GAT4	29	10	88	0	12
YIRO14W		60	33	86	0	14
YIRO16W	unknown	41	15	50	0	50
YIRO17C	MET28	80	51	87	4	9
YIRO18W	YAP5	69	60	90	4	6
YIRO19C		44	18	84	12	4
YIRO20C	unknown	57	18	80	14	6
YIRO20W-B	unknown	50	14	72	13	15
YIRO21W	MRS1	43	14	54	6	40
YIRO23W		60	35	92	0	8
YIRO24C	GIF1	33	52	68	22	10
YIRO25W	MND2	1	0			
YIRO26C		70	36	94	0	6
YIRO27C		67	30	88	2	10
YIRO28W	DAL4	82	35	78	13	9
YIRO29W		55	31	86	6	8
YIRO30C	DCG1	63	44	88	4	8
YIRO31C		41	37	84	8	8
YIRO32C		68	28	78	2	20
YIRO33W		52	8	94	0	6
YIRO34C		51	22	78	8	14
YIRO35C	unknown	52	13	52	6	42
YIRO36C		60	25	86	10	4
YIRO37W	HYR1	59	46	92	2	6
YIRO38C		72	26	94	2	4
YIRO39C	YPS6	69	32	70	6	24
YIRO42C		80	31	81	4	15
YIRO43C		73	36	84	2	14
YIRO44C		60	33	74	4	22
YJL003W		36	11	88	0	12
YJL004C		38	21	88	2	10
YJL006C	CTK2	44	16	64	10	26
YJL007C		48	35	79	4	17
YJL012C		48	21	78	4	18
YJL013C	MAD3	18	39			






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YJL016W		38	34	70	8	22
YJL017W	unknown	53	51	75	9	16
YJL020C		45	33	90	2	8
YJL021C		58	29	86	6	8
YJL022W		68	37	77	2	21
YJL023C	PET130	51	29	61	10	29
YJL024C		47	28	86	6	8
YJL027C		50	38	75	7	18
YJL028W		41	41	78	8	14
YJL029C	VPS53	50	48			
YJL030W		52	23	74	11	15
YJL036W	SNX4	19	32	85	0	15
YJL037W		60	35	88	0	12
YJL038C		53	15	91	0	9
YJL042W	MHP1	34	44	77	8	15
YJL043W	unknown	32	28	85	6	9
YJL044C	GYP6	77	13	73	0	27
YJL045W	unknown	35	29	71	0	29
YJL046W	unknown	37	41	68	8	24
YJL047C		55	26	77	2	21
YJL048C	unknown	48	50	83	0	17
YJL049W	unknown	36	44	67	2	31
YJL051W		36	31	79	0	21
YJL052W		47	40	85	0	15
YJL053W		51	37	81	0	19
YJL055W	unknown	38	32	78	15	7
YJL056C		67	12	74	5	21
YJL057C		50	16	94	0	6
YJL058C		38	21	86	0	14
YJL059W		48	15	96	0	4
YJL060W		58	29	88	0	12
YJL062W	LAS21	26	38	77	5	18
YJL063C	MRPL8	49	27	75	0	25
YJL064W		40	23	84	0	16
YJL065C		45	33	81	6	13
YJL066C	MPM1	46	48	60	0	40
YJL067W		59	32	84	0	16
YJL068C	unknown	50	18	66	0	34
YJL070C		46	26	90	5	5
YJL071W				80	0	20
YJL073W		49	39	88	0	12
YJL075C	APQ13	47	19	57	10	33
YJL077C		45	22	84	4	12
YJL078C		40	25	82	7	11
YJL079C	PRY1	48	44	87	0	13
YJL080C	SCP160	21	43	61	2	37






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YJL082W		42	21	81	0	19
YJL083W		73	24	90	0	10
YJL084C		43	33	91	0	9
YJL088W	ARG3	50	14	28	3	69
YJL089W		63	22	82	8	10
YJL092W	HPR5	32	38	89	0	11
YJL093C	TOK1	32	31	88	0	12
YJL094C		71	35	74	10	16
YJL095W		50	37	89	0	11
YJL096W		42	29	81	0	19
YJL098W	SAP185	24	38	90	0	10
YJL099W		45	33	93	0	7
YJL100W	LSB6	66	42	71	7	22
YJL101C		42	40	86	2	12
YJL102W		37	30	94	0	6
YJL103C	unknown	45	29	69	16	15
YJL105W		54	31	78	7	15
YJL106W	IME2	7	14			
YJL107C		65	16	92	0	8
YJL108C		46	22	90	0	10
YJL110C		59	31	77	0	23
YJL112W	MDV1	31	32	83	0	17
YJL115W	ASF1	34	50	73	2	25
YJL116C		42	29	88	0	12
YJL117W		55	25	94	0	6
YJL118W		62	16	78	7	15
YJL119C		67	21	88	0	13
YJL120W	unknown	56	18	65	6	29
YJL121C	RPE1	47	11	66	7	27
YJL122W		57	40	87	0	13
YJL123C	unknown	48	25	70	0	30
YJL124C		75	40	80	8	12
YJL128C	PBS2	51	33	74	14	12
YJL129C		72	32	71	10	19
YJL129C		54	15	86	0	14
YJL130C		61	15	89	0	11
YJL131C	unknown	79	29	50	6	44
YJL132W	unknown	69	23	75	2	23
YJL132W		59	12	93	0	7
YJL133W		45	24	93	0	7
YJL134W	LCB3					
YJL135W	unknown	76	25	76	0	24
YJL136C		48	35	84	6	10
YJL137C	GLG2	54	47	82	4	14
YJL138C		65	20	85	0	15
YJL139C	YUR1	66	64	78	0	22






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YJL140W		73	41	84	2	14
YJL141C	YAK1	59	42	64	11	25
YJL142C	unknown	31	26	75	0	25
YJL144W		63	14	86	0	14
YJL145W		62	27	89	0	11
YJL146W		51	18	91	0	9
YJL147C	unknown	45	13	76	0	24
YJL148W		45	16			
YJL149W		44	20	79	6	15
YJL150W		52	8	77	0	23
YJL151C	SNA3	77	44	94	0	6
YJL152W	unknown	32	38	80	0	20
YJL153C		48	23	86	0	14
YJL154C		51	24	90	0	10
YJL155C	FBP26	26	12	79	0	21
YJL157C	FAR1					
YJL158C	CIS3	33	21	85	0	15
YJL159W		52	12	82	0	18
YJL160C	unknown	63	43	69	5	26
YJL160C	unknown	30	30	76	0	24
YJL161W	unknown	56	59	68	8	24
YJL162C	JJJ2	26	23	90	0	10
YJL163C	unknown	63	52	75	0	25
YJL164C	TPK1	32	38	94	0	6
YJL165C		72	40	86	0	14
YJL166W	QCR8	35	37	74	0	26
YJL168C	SET2	41	20	75	0	25
YJL169W	unknown	45	13	50	6	44
YJL170C		37	12	86	0	14
YJL171C	unknown	40	27	73	4	23
YJL172W		71	31	87	7	6
YJL175W	unknown	83	52	81	6	13
YJL176C	SWI3					
YJL177W	RPL17B	76	57	66	3	31
YJL178C		39	8	83	0	17
YJL179W	PFD1	45	16	64	0	36
YJL180C		44	23	81	0	19
YJL181W		49	18	92	0	8
YJL182C	unknown	43	28	77	0	23
YJL183W		61	13	78	0	22
YJL184W		44	27	0	0	100
YJL184W	unknown	0				
YJL185C		47	19	91	0	9
YJL186W	MNN5	49	8	70	3	27
YJL187C		63	14	84	0	16
YJL188C	BUD19	58	28	67	0	33






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YJL189W	RPL39	52	50	82	2	16
YJL190C		44	27	98	0	2
YJL191W	RPS14B	78	47	90	2	8
YJL192C		58	22	90	0	10
YJL193W		39	13	96	0	4
YJL196C		41	34	85	0	15
YJL197W	UBP12	22	18	77	1	22
YJL198W		55	9	82	5	13
YJL199C	unknown	21	29	78	2	20
YJL200C	unknown	68	47	70	8	22
YJL201W		46	18	80	0	20
YJL204C		45	18	80	0	20
YJL206C	unknown	77	44	84	2	14
YJL206C-A		56	18	89	0	11
YJL207C		49	20	92	0	8
YJL208C	NUC1	48	19	71	4	25
YJL209W		41	15	94	0	6
YJL210W	PEX2	33	6	80	0	20
YJL211C	unknown	59	22	76	0	24
YJL212C	OPT1	22	18	83	6	11
YJL213W	unknown	75	44	96	0	4
YJL214W		59	14	81	0	19
YJL215C		48	17	73	4	23
YJL216C		42	24	76	5	19
YJL217W	unknown	43	27	60	0	40
YJL218W	unknown	30	43	82	0	18
YJR001W	AVT1	39	46	83	0	17
YJR003C	unknown	54	44	92	2	6
YJR004C	SAG1	64	50	63	6	31
YJR005W		52	35	76	4	20
YJR008W	unknown	21	10	78	12	10
YJR009C		40	30	84	0	16
YJR010C-A		47	32	79	4	17
YJR010W		41	39	75	8	17
YJR011C	unknown	49	37	62	6	32
YJR014W	unknown	60	48	84	4	12
YJR015W	unknown	58	29	70	2	28
YJR018W	unknown	57	46	70	12	18
YJR019C	TES1	54	43	82	4	14
YJR020W	unknown	34	44	64	6	30
YJR021C	REC108	29	21	61	9	30
YJR024C		38	18	86	4	10
YJR025C	BNA1	52	35	64	8	28
YJR026W		58	38	80	8	12
YJR030C	unknown	50	44	46	2	52
YJR031C	GEA1	16	69	57	13	30






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YJR032W	CPR7	48	31	63	7	30
YJR033C	RAV1	55	45	78	6	16
YJR034W	PET191	34	41	68	13	19
YJR035W	RAD26	43	42	85	6	9
YJR036C	HUL4	36	44	70	8	22
YJR037W		60	33	74	5	21
YJR038C		52	40	75	7	18
YJR039W	unknown	55	38	59	4	37
YJR040W	GEF1	54	56	90	4	6
YJR043C		64	38	84	6	10
YJR044C		46	20	82	2	16
YJR047C		46	39	88	0	12
YJR048W		44	39	82	2	16
YJR049C		45	29	84	4	12
YJR050W	ISY1	46	59	96	2	2
YJR051W	OSM1	44	48	59	8	33
YJR052W	RAD7					
YJR053W		54	9			
YJR054W	unknown	44	20	75	2	23
YJR055W		37	41	78	10	12
YJR055W	HIT1					
YJR056C		49	39	85	4	11
YJR058C	APS2	28	36	88	4	8
YJR059W		43	26	84	0	16
YJR060W	CBF1	47	45	64	14	22
YJR061W	unknown	57	46	86	2	12
YJR062C	NTA1	68	43	74	4	22
YJR063W		44	39	90	2	8
YJR066W		50	34	88	2	10
YJR069C	HAM1	44	37	73	2	25
YJR070C		76	33	98	0	2
YJR073C	OPI3	21	19	89	3	8
YJR074W	MOG1	76	46	52	22	26
YJR075W		57	19	87	0	13
YJR077C	MIR1	38	39	64	18	18
YJR078W	BNA2	26	23	96	0	4
YJR079W	unknown	17	41	96	0	4
YJR080C	FMP26	62	42	71	6	23
YJR082C	EAF6	12	17	97	0	3
YJR083C		41	22			0
YJR084W	CSN12	46	43	81	4	15
YJR087W	unknown	68	44	84	4	12
YJR088C		36	22	95	3	3
YJR090C	GRR1	57	42	29	2	69
YJR091C		38	37	84	2	14
YJR092W	BUD4	34	26	84	0	16


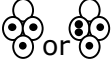



ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YJR094C	IME1	4	75			
YJR094W-A		54	35	90	2	8
YJR095W	SFC1	23	30			
YJR096W	AKR5F	72	58	83	8	9
YJR097W	JJJ3	70	47	78	6	16
YJR098C		88	34	82	4	14
YJR099W		70	24	76	12	12
YJR100C	unknown	60	17	66	2	32
YJR102C	VPS25	22	32	94	3	3
YJR103W		50	16	96	0	4
YJR104C		60	38	83	4	13
YJR105W		39	23	81	2	17
YJR106W		51	22	78	8	14
YJR107W	unknown	57	46	65	8	27
YJR108W		53	15	86	0	14
YJR109C	CPA2	67	45	78	6	16
YJR110W		56	21	91	2	7
YJR111C	unknown	24	33	92	2	6
YJR113C	RSM7	62	44	80	0	20
YJR115W		36	17	96	0	4
YJR116W		57	33	86	6	8
YJR117W	STE24	68	49	78	6	16
YJR118C	ILM1	76	43	52	6	42
YJR119C		60	40	84	2	14
YJR120W		44	36	72	8	20
YJR121W	ATP2	75	52	90	0	10
YJR122W		61	31	86	0	14
YJR124C	unknown	62	44	84	0	16
YJR125C	ENT3	81	43	76	8	16
YJR126C	VPS70	77	52	94	0	6
YJR127C		44	25	93	0	7
YJR128W		78	21	94	0	6
YJR129C		67	21	80	2	18
YJR130C		63	19	80	0	20
YJR131W		41	29	70	12	18
YJR133W		67	39	80	0	20
YJR134C	SGM1	57	44	82	4	14
YJR135C		35	29	89	2	9
YJR137C	ECM17	34	24	90	0	10
YJR139C	HOM6	68	51	88	0	12
YJR140C	HIR3	58	34	69	6	25
YJR142W	unknown	50	48	86	10	4
YJR144W	MGM101	67	39	70	6	24
YJR145C		68	38	86	4	10
YJR146W		49	33	92	3	5
YJR147W		64	31	94	2	4






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YJR148W	BAT2	37	51	70	12	18
YJR149W		39	23	96	4	0
YJR150C	DAN1	43	42	88	0	12
YJR152W	DAL5	39	51	94	0	6
YJR153W	PGU1	62	42	68	8	24
YJR154W	unknown	41	20	72	5	23
YKL001C	MET14	33	33	78	0	22
YKL002W		50	26	84	8	8
YKL003C		48	17	75	10	15
YKL005C	BYE1	31	38	76	6	18
YKL006W	RPL14A	18	17	94	2	4
YKL007W	CAP1	24	42	75	2	23
YKL008C	LAC1	31	29	70	12	18
YKL009W		42	29	78	0	22
YKL010C		38	32	85	6	9
YKL011C	CCE1	21	33	82	4	14
YKL015W		42	40	87	4	9
YKL016C		42	31	84	2	14
YKL017C	HCS1	21	24	76	5	19
YKL020C	SPT23	36	53	82	6	12
YKL023W	unknown	38	45	77	8	15
YKL025C		46	33	84	12	4
YKL026C	GPX1	45	22	70	6	24
YKL027W	unknown	42	21	72	4	24
YKL029C		65	28	85	4	11
YKL030W	unknown	47	45	88	8	4
YKL031W		52	37	85	5	10
YKL032C		57	39	83	0	17
YKL033W-A	unknown	26	19	82	12	6
YKL034W	TUL1	17	41	79	6	15
YKL037W	unknown	42	32	69	4	27
YKL038W		37	19	77	6	17
YKL039W	PTM1	42	29	67	6	27
YKL040C	NFU1	26	35	82	8	10
YKL041W	VPS24	29	14	71	8	21
YKL043W		38	13	79	6	15
YKL044W		59	24	77	5	18
YKL046C		58	41	85	0	15
YKL047W		40	8	81	2	17
YKL048C	ELM1	31	6	98	0	2
YKL050C		46	37	85	4	11
YKL051W	unknown	18	28	84	5	11
YKL053C-A	unknown	65	40	60	7	33
YKL053W	unknown	21	38	88	0	12
YKL054C	DEF1	10	20	21	0	79
YKL055C	OAR1	39	44	54	5	41






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YKL056C	unknown	21	41	76	2	22
YKL057C	NUP120	22	50	78	12	10
YKL061W	unknown	9	22	70	6	24
YKL062W		54	33	80	10	10
YKL063C		35	31	75	8	17
YKL064W	MNR2	38	26	92	6	2
YKL065C	YET1	31	16	72	6	22
YKL066W		62	23	81	2	17
YKL067W	YNK1	49	27	63	7	30
YKL068W	NUP100	47	38	74	0	26
YKL069W		60	32	76	6	18
YKL070W	unknown	43	51	75	6	19
YKL071W		35	23	86	0	14
YKL072W		45	29	81	0	19
YKL073W		46	33	88	4	8
YKL074C	MUD2	31	29	83	4	13
YKL075C		38	37	85	0	15
YKL076C		56	16	72	8	20
YKL077W	unknown	25	36	90	2	8
YKL079W		46	22	82	5	13
YKL080W	VMA5	46	39	68	0	32
YKL081W	TEF4	52	33	62	14	24
YKL084W		39	15	88	4	8
YKL085W	MDH1	25	16	90	2	8
YKL086W	SRX1	34	12	94	6	0
YKL087C	CYT2	29	24	88	2	10
YKL090W		37	30	80	12	8
YKL091C	unknown	40	55	76	6	18
YKL092C		43	23	84	8	8
YKL093W	MBR1	34	23	90	2	8
YKL094W		68	37	86	2	12
YKL096W		67	30	90	2	8
YKL096W-A	CWP2	58	47	90	2	8
YKL097C	unknown	42	36	58	9	33
YKL098W		46	35	72	9	19
YKL100C	unknown	11	18	73	9	18
YKL101W		57	30	71	9	20
YKL102C		45	24	72	11	17
YKL103C	LAP4	38	47	98	0	2
YKL105C		73	26	94	2	4
YKL106W		56	29	83	6	11
YKL107W		52	37	90	0	10
YKL109W	unknown	60	21	66	13	21
YKL110C		45	27	88	6	6
YKL113C	RAD27	41	32	70	2	28
YKL114C	APN1					






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YKL115C	unknown	62	42	84	6	10
YKL116C		66	18	78	8	14
YKL117W		42	36	89	2	9
YKL118W		61	39	81	3	16
YKL119C		42	29	79	0	21
YKL120W		56	14	86	6	8
YKL121W		49	35	84	8	8
YKL123W		62	32	78	8	14
YKL124W		54	32	81	6	13
YKL126W	YPK1	63	57	73	2	25
YKL127W		75	33	82	2	16
YKL128C		36	28	88	4	8
YKL129C		55	24	90	2	8
YKL130C		57	25	86	6	8
YKL131W		39	15	87	6	7
YKL132C		66	35	94	0	6
YKL133C		55	27	91	2	7
YKL134C		49	37	71	10	19
YKL135C	APL2	32	53	86	0	14
YKL136W		57	21	89	2	9
YKL137W		47	30	78	2	20
YKL138C		58	29	70	8	22
YKL139W	CTK1	76	43	68	10	22
YKL140W		57	33	82	2	16
YKL142W	MRP8	50	48	94	2	4
YKL143W		48	35	92	0	8
YKL146W	AVT3	31	16	80	2	18
YKL147C		68	21	86	6	8
YKL148C		53	26	76	4	20
YKL149C	DBR1	50	48	93	0	7
YKL150W		64	27	81	0	19
YKL151C		56	38	88	2	10
YKL155C	RSM22	33	24	80	4	16
YKL156W		60	37	73	8	19
YKL157W		71	24	78	2	20
YKL158W	unknown	44	50	84	0	16
YKL159C		50	38	72	12	16
YKL160W		64	22	88	4	8
YKL161C	unknown	46	41	70	4	26
YKL162C	unknown	20	30	83	2	15
YKL162C-A		36	33	90	0	10
YKL163W		63	27	91	0	9
YKL164C		64	30	90	2	8
YKL166C		61	18	84	2	14
YKL167C		58	34	77	8	15
YKL168C	KKQ8	27	44	90	4	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YKL169C	unknown	58	36	73	2	25
YKL170W		45	29	80	2	18
YKL171W		38	26	88	4	8
YKL174C		61	30	84	4	12
YKL175W		56	29	90	0	10
YKL176C		57	33	75	2	23
YKL177W	unknown					
YKL178C	STE3					
YKL179C	COY1	42	24	70	2	28
YKL183W		76	17	92	8	0
YKL184W		54	30	83	2	15
YKL185W		56	11	78	2	20
YKL187C	unknown					
YKL188C		64	34	75	6	19
YKL190W		43	30	92	4	4
YKL191W		65	23	94	2	4
YKL194C	MST1	62	45	94	0	6
YKL197C		45	33	94	2	4
YKL198C		65	35	98	0	2
YKL199C		56	20	94	0	6
YKL200C		69	33	94	4	2
YKL201C	MNN4	55	56	94	2	4
YKL202W	unknown	64	50	82	0	18
YKL204W		63	30	94	3	3
YKL205W		57	30	90	2	8
YKL206C		76	20	91	5	4
YKL207W		59	25	94	0	6
YKL208W		65	32	90	2	8
YKL211C	TRP3	36	53	92	6	2
YKL212W		49	29	96	2	2
YKL213C		53	30	94	4	2
YKL214C		50	22	94	2	4
YKL215C	unknown	40	50	78	6	16
YKL216W	URA1	40	3	69	7	24
YKL217W		59	25	92	2	6
YKL218C		57	37	85	3	12
YKL220C		43	40	90	0	10
YKL221W	MCH2	55	44	93	2	5
YKL222C		48	42	83	8	9
YKR001C	VPS1	61	43	87	4	9
YKR003W		39	26	94	0	6
YKR005C		65	29	88	4	8
YKR006C	MRPL13	60	43	82	8	10
YKR007W		70	31	78	8	14
YKR009C	FOX2	37	54	88	7	5
YKR010C		55	36	82	2	16






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YKR011C		63	27	84	8	8
YKR012C		44	34	94	4	2
YKR013W		69	39	96	4	0
YKR014C		67	25	89	2	9
YKR015C	unknown	38	50	92	2	6
YKR016W		40	20	89	9	2
YKR017C		55	31	68	11	21
YKR018C		35	31	89	2	9
YKR019C	IRS4	71	42	81	2	17
YKR020W		45	33	94	4	2
YKR021W	unknown	61	44	94	0	6
YKR023W	unknown	65	51	88	6	6
YKR024C		43	16	81	4	15
YKR026C	GCN3	40	43	88	4	8
YKR027W		67	40	81	2	17
YKR028W	SAP190	62	44	82	0	18
YKR029C	SET3	56	36	69	0	31
YKR030W	GMH1	57	44	84	2	14
YKR031C		41	20	86	7	7
YKR032W		56	30	92	8	0
YKR033C		61	25	90	6	4
YKR034W	DAL 80	54	54	81	2	17
YKR035C		41	32	94	2	4
YKR035W-A		54	19			
YKR036C	CAF4	56	39	74	0	26
YKR039W	GAP1	70	46	69	4	27
YKR040C		67	31	92	0	8
YKR041W	unknown	64	44	87	3	10
YKR042W		38	21	84	8	8
YKR043C		45	31	86	2	12
YKR044W		47	15	80	12	8
YKR045C		54	28	98	0	2
YKR046C	PET10	75	49	85	6	9
YKR047W		44	40	77	7	16
YKR048C		48	38	92	8	0
YKR049C	FMP46	18	31	98	2	0
YKR050W		38	26	94	4	2
YKR051W	unknown	39	44	95	3	2
YKR052C		37	25	90	6	4
YKR053C	YSR3	64	48	84	0	16
YKR054C		38	25	82	6	12
YKR055W	RHO4	44	34	80	11	9
YKR056W	TRM2	30	38	86	4	10
YKR057W		41	27	88	4	8
YKR058W		36	31	88	2	10
YKR059W		40	27	96	4	0






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YKR060W	UTP30	28	52	92	8	0
YKR061W	KTR2	22	41	90	3	7
YKR064W	unknown	30	35	88	7	5
YKR065C		36	26	98	1	1
YKR066C	CCP1	33	24	87	13	0
YKR067W	GPT7	70	26	80	14	6
YKR069W	MET1	62	44	75	8	17
YKR070W		59	34	96	0	4
YKR072C	SIS2	69	42	90	4	6
YKR073C	unknown	19	21	96	2	2
YKR074W	unknown	24	4	92	2	6
YKR075C		48	38	90	4	6
YKR076W		51	20	84	10	6
YKR077W		45	22	86	8	6
YKR078W		41	27	82	8	10
YKR080W	MTD1	91	22	76	16	8
YKR082W	NUP133	48	48	68	15	17
YKR084C		63	30	92	6	2
YKR085C	MRPL20	38	50	69	5	26
YKR087C		35	20	82	7	11
YKR088C	TVP38	43	19	75	2	23
YKR089C	unknown	33	64	86	0	14
YKR090W	PXL1	44	38	67	2	31
YKR091W	SRL3	48	10	57	24	19
YKR092C	SRP40	32	19	83	2	15
YKR093W	PTR2	26	19	90	4	6
YKR094C	RPL40B	54	26	79	13	8
YKR095W	MLP1	29	31	84	0	16
YKR096W		47	21	88	2	10
YKR097W	PCK1	18	22	84	2	14
YKR098C		58	24	78	2	20
YKR099W	BAS1	61	46	61	12	27
YKR100C	unknown	38	42	79	2	19
YKR101W	SIR1	49	45	74	6	20
YKR102W	FLO10	69	46	80	5	15
YKR103W		41	10	79	6	15
YKR104W		41	15	84	4	12
YKR105C		47	6	78	6	16
YKR106W	unknown	57	39	62	11	27
YLL001W	DNM1	53	35	30	0	70
YLL002W		49	41	80	0	20
YLL005C	SPO75	13	38			
YLL006W	MMM1	61	44	92	0	8
YLL007C		57	14	86	8	6
YLL009C	COX17	14	29	85	0	15
YLL010C		44	30	74	4	22






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLL012W	unknown	31	26	69	0	31
YLL013C		67	34	94	0	6
YLL014W		76	26	85	5	10
YLL015W		53	42	86	2	12
YLL016W		48	40	85	0	15
YLL017W		59	25	87	0	13
YLL018C-A	COX19	24	29	70	8	22
YLL019C	KNS1	33	42	83	4	13
YLL020C		39	23	84	2	14
YLL021W		69	16	87	0	13
YLL023C		66	35	81	0	19
YLL024C	SSA2	29	21	89	0	11
YLL025W		56	11	93	0	7
YLL026W		73	23	91	0	9
YLL027W		62	35	87	2	11
YLL028W		60	30	93	0	7
YLL029W	unknown	41	49	86	0	14
YLL030C		56	39	92	2	6
YLL032C		51	29	96	0	4
YLL033W		43	28	88	0	12
YLL038C	ENT4	17	24	89	11	0
YLL039C	UBI4	3	0			
YLL040C	VPS13	14	14			
YLL041C	SDH2	2	50	83	0	17
YLL042C	APG10	3	33	83	0	17
YLL043W		47	30	96	0	4
YLL044W		69	36	82	6	12
YLL045C		69	26	90	0	10
YLL046C	RNP1	26	42	74	0	26
YLL047W	unknown					
YLL048C		55	38	84	2	14
YLL049W	unknown	66	42	56	20	24
YLL052C		57	33	89	0	11
YLL053C	unknown	28	50	91	0	9
YLL054C		46	37	93	5	2
YLL055W		43	40	91	9	0
YLL056C	unknown	61	51	87	0	13
YLL057C	JLP1	58	50	91	0	9
YLL058W		53	38	86	0	14
YLL059C		63	33	86	2	12
YLL060C		65	20	83	0	17
YLL061W	MMP1	31	48	96	0	4
YLL062C		42	40	84	0	16
YLL063C	AYT1	44	27	66	0	34
YLR001C		53	25	92	4	4
YLR003C		80	24	83	0	17






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLR004C		82	30	79	0	21
YLR006C		63	40	80	0	20
YLR011W	LOT6	63	43	93	0	8
YLR012C		75	41	89	0	11
YLR013W		65	42	83	0	17
YLR014C	PRP1	81	16	77	0	23
YLR015W		68	18	77	0	23
YLR016C		70	24	83	0	17
YLR017W		76	29	77	0	23
YLR018C		65	28	95	0	5
YLR019W		38	37	79	0	21
YLR020C		36	36	90	0	10
YLR021W		45	29	80	8	12
YLR023C		71	20	81	0	19
YLR024C	UBR2	84	48	67	0	33
YLR025W		53	22	75	8	17
YLR027C	AAT2	27	48	81	0	19
YLR028C	ADE16	41	22	73	0	27
YLR030W	unknown	49	49	72	2	26
YLR031W		55	40	90	4	6
YLR032W	RAD5	53	34	73	4	23
YLR034C		40	38	86	6	8
YLR035C	MLH2	42	52	79	4	17
YLR036C		82	38	93	2	5
YLR037C	DAN2	63	48	76	10	14
YLR038C		44	34	76	9	15
YLR039C		65	37	80	4	16
YLR040C		60	23	96	2	2
YLR041W		57	40	80	2	18
YLR042C	unknown	31	16	66	8	26
YLR043C		41	15	75	6	19
YLR044C	PDC1	32	10	87	7	6
YLR046C	unknown	23	22	76	8	16
YLR047C	unknown	25	20	79	0	21
YLR048W		52	8	81	8	11
YLR049C		50	18	78	4	18
YLR050C	unknown	72	49	82	6	12
YLR052W	IES3	51	43	88	6	6
YLR053C	unknown	20	45	67	0	33
YLR054C	unknown	23	17	64	21	15
YLR055C		59	22	78	2	20
YLR056W	ERG3	42	31	54	6	40
YLR057W		57	18	71	10	19
YLR058C	SHM2	33	18	86	8	6
YLR059C	REX2	21	5	70	15	15
YLR061W		37	8	78	10	12


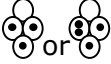
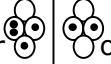

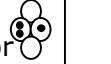
ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLR062C	BUD28	48	10	61	7	32
YLR063W	unknown	33	15	86	0	14
YLR064W	unknown	30	23	63	9	28
YLR065C	unknown	48	17	71	6	23
YLR067C	PET309	36	31	71	4	25
YLR068W	FYV7	32	25	72	8	20
YLR069C	MEF1	22	27	80	10	10
YLR070C	XYL2	29	24	86	4	10
YLR072W		46	10	90	5	5
YLR073C		61	29	85	4	11
YLR074C	BUD20	46	13	76	0	24
YLR077W		37	19	92	0	8
YLR079W	SIC1	31	16	78	6	16
YLR080W		39	21	74	6	20
YLR081W	GAL2	20	15	76	4	20
YLR082C	SRL2	30	37	82	8	10
YLR083C	EMP70	35	29	72	4	24
YLR084C	RAX2	40	20	56	4	40
YLR085C		50	12	72	9	19
YLR087C	CSF1	15	27	53	10	38
YLR089C		36	17	74	6	20
YLR090W		49	20	81	5	14
YLR091W	unknown	7	0			
YLR092W	SUL2	30	13	86	4	10
YLR093C	NYV1	53	13	60	9	31
YLR094C		53	19	82	9	9
YLR095C		63	17	76	2	22
YLR096W		49	20	89	4	7
YLR097C	unknown	43	26	70	5	25
YLR098C	CHA4	22	36	78	2	20
YLR099C	ICT1	5	40	79	0	21
YLR102C	APC9	27	41	77	5	18
YLR104W	unknown	31	35	80	6	14
YLR107W	REX3	31	23	76	4	20
YLR108C		44	18	88	4	8
YLR109W		62	21	88	4	8
YLR110C	CCW12	58	52	90	0	10
YLR111W	unknown	27	22	84	0	16
YLR112W		42	17	84	2	14
YLR113W		42	31	76	4	20
YLR114C	unknown	20	25	80	4	16
YLR118C	unknown	34	18	82	8	10
YLR119W	SRN2	32	21	77	11	12
YLR120C		50	8	83	2	15
YLR121C	YPS3	28	18	84	6	10
YLR122C	unknown	26	4	80	7	13






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLR123C	unknown	47	21	68	8	24
YLR124W		51	33	82	8	10
YLR125W		67	10	78	2	20
YLR126C	unknown	27	22	78	8	14
YLR128W	unknown	21	24	78	6	16
YLR130C	ZRT2	22	32	78	9	13
YLR131C	ACE2	50	32	74	2	24
YLR133W	CKI1	33	30	92	2	6
YLR134W	PDC5	48	31	76	0	24
YLR135W	SLX4	26	42	75	12	13
YLR136C	TIS11	23	26	86	7	7
YLR137W		45	29	77	5	18
YLR138W	NHA1	26	50	79	2	19
YLR139C		45	18	79	6	15
YLR142W	PUT1	54	37	69	4	27
YLR143W	unknown	55	24	66	6	28
YLR144C	ACF2	34	18	88	2	10
YLR146C	SPE4	46	63	89	0	11
YLR148W	PEP3	42	48	86	2	12
YLR149C	unknown	33	21	73	6	21
YLR150W	STM1	40	43	78	6	16
YLR151C	PCD1	29	28	89	2	9
YLR152C	unknown	34	15	89	2	9
YLR154C		46	26	78	8	14
YLR164W		56	32	88	2	10
YLR165C		43	23	84	9	7
YLR168C		44	20	78	2	20
YLR169W		51	22	72	10	18
YLR170C	APS1	28	32	64	14	22
YLR171W	unknown	58	21	76	0	24
YLR172C		36	31	80	4	16
YLR173W		36	11	74	4	22
YLR174W		37	22	80	6	14
YLR176C		51	18	80	7	13
YLR177W	unknown	48	25	66	9	25
YLR178C		56	30	92	8	0
YLR179C		38	21	97	3	0
YLR180W		52	21	98	2	0
YLR181C	VTA1	33	18	97	3	0
YLR182W	SWI6	65	18	71	4	25
YLR182W		55	39	94	0	6
YLR183C		44	14	92	8	0
YLR184W		42	17	97	3	0
YLR185W	RPL37A	25	12	96	4	0
YLR187W		48	31	91	9	0
YLR188W	MDL1	31	29	88	12	0






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLR189C	ATG26	32	34	95	5	0
YLR190W		55	22	95	5	0
YLR191W	PEX13	36	31	87	13	0
YLR192C	HCR1	49	51	78	4	18
YLR193C		41	10			
YLR194C		43	12	95	5	0
YLR199C		64	20			
YLR200W	YKE2	30	40	92	8	0
YLR201C		41	27	95	5	0
YLR202C	unknown	24	33	93	7	0
YLR203C	MSS51	9	11	94	6	0
YLR204W	QRI5	30	27	95	5	0
YLR205C		54	29	97	3	0
YLR206W		42	14	97	3	0
YLR207W		42	33	93	7	0
YLR209C	PNP1	24	42	93	7	0
YLR210W		65	28	96	4	0
YLR211C	unknown	43	44	96	4	0
YLR213C	CRR1	34	38			
YLR214W		51	27			
YLR216C	CPR6	32	22	95	5	0
YLR217W	unknown	42	29	90	10	0
YLR218C		45	24	98	2	0
YLR219W		39	26	98	2	0
YLR220W	CCC1	52	25	80	9	11
YLR221C	RSA3	39	36	71	2	27
YLR224W		54	33	84	6	10
YLR225C		42	26	84	2	14
YLR226W	BUR2	28	46	90	4	6
YLR227C	ADY4	50	72	71	10	19
YLR228C		60	18	77	10	13
YLR231C	BNA5	55	44	78	14	8
YLR232W	unknown	42	31	71	23	6
YLR233C	EST1	52	15	72	18	10
YLR234W		47	38	88	2	10
YLR235C		58	38	80	8	12
YLR236C		61	28	92	6	3
YLR237W	THI7	73	51	88	2	10
YLR238W		63	19	91	7	2
YLR239C	LIP2	54	30	82	13	5
YLR240W	VPS34	43	23	75	17	8
YLR241W		53	40	84	9	7
YLR242C		55	31	88	4	8
YLR244C		36	19	82	12	6
YLR246W	ERF2	51	43	83	4	13
YLR247C	unknown	34	21	86	8	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLR248W	RCK2	43	42	95	3	2
YLR250W		46	41	92	4	4
YLR251W	SYM1	53	45	90	2	8
YLR252W	unknown	25	40	66	10	24
YLR253W	unknown	33	45	70	16	14
YLR254C		53	36	80	7	13
YLR255C		65	32	90	8	2
YLR257W		56	27	73	10	17
YLR258W		60	22	90	2	8
YLR260W		44	32	92	6	2
YLR261C	VPS63	44	57	82	13	5
YLR262C		36	31	88	12	0
YLR262C-A	unknown	27	19	79	5	16
YLR263W	RED1	47	45	80	12	8
YLR264W		41	20	92	6	2
YLR265C	NEJ1	24	50	77	15	8
YLR266C		69	32	86	2	12
YLR267W		46	33	85	11	4
YLR268W		42	40	78	11	11
YLR269C	unknown	30	27	60	17	23
YLR270W	DCS1	48	44	90	5	5
YLR271W		51	33	94	4	2
YLR273C		53	26	96	0	4
YLR278C	unknown	50	42	88	12	0
YLR279W	unknown	64	44	79	13	8
YLR280C		43	28	90	6	4
YLR281C		57	32	85	11	4
YLR282C		54	41	96	2	2
YLR283W		44	39	96	4	0
YLR284C		59	36	88	6	6
YLR285W	NNT1	47	51	88	6	6
YLR286C	CTS1	45	37	48	8	44
YLR287C	unknown	40	50	88	10	2
YLR287C-A	RPS30A	67	24	74	14	12
YLR288C	MEC3	24	33	80	12	8
YLR289W		44	30	82	12	6
YLR290C		51	16	80	9	11
YLR292C		55	20	90	4	6
YLR294C	unknown	48	48	86	4	10
YLR295C		67	40	88	8	4
YLR296W	unknown	42	44	96	2	2
YLR297W	unknown	33	36	88	12	0
YLR299W		53	25	90	8	2
YLR300W		64	25	90	4	6
YLR303W	MET15	49	29	73	20	7
YLR304C		48	27	88	10	2






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLR306W	UBC12	24	29	87	2	11
YLR307W		43	28	86	12	2
YLR308W	CDA2	29	24	78	10	13
YLR309C	IMH1	59	53	90	6	4
YLR311C		51	37	89	6	5
YLR312C	unknown	43	47	92	6	2
YLR312W-A	MRPL15	32	31	84	10	6
YLR313C		40	15	90	4	6
YLR315W		58	29	88	10	2
YLR318W	EST2	43	49	86	6	8
YLR319C		50	24	90	6	4
YLR320W		61	38	90	4	6
YLR322W		43	28	73	10	17
YLR324W		50	22	70	8	22
YLR325C		63	33	74	10	16
YLR326W	unknown	66	24	53	20	27
YLR327C	unknown	55	47	74	13	13
YLR328W	NMA1	69	38	77	13	10
YLR329W	REC102	34	26	79	8	13
YLR330W	CHS5	68	59	85	6	9
YLR331C	unknown	23	26	82	10	8
YLR332W		63	30	96	2	2
YLR333C	RPS25B	45	42	79	5	16
YLR334C		64	39	92	0	8
YLR335W	NUP2	47	13	69	18	13
YLR337C	VRP1	52	56	54	20	26
YLR338W	unknown	69	38	80	14	6
YLR341W	SPO77	18	28	69	18	13
YLR342W	FKS1	49	37	70	16	14
YLR343W		38	36	77	6	17
YLR344W	RPL26A	61	41	72	0	28
YLR345W		61	26	75	7	18
YLR346C		47	17	86	2	12
YLR348C	DIC1	51	37	74	18	8
YLR349W	unknown	53	47	86	4	10
YLR350W		49	16	78	9	13
YLR351C	NIT3	72	49	84	8	8
YLR352W	unknown	64	41	71	6	23
YLR353W		61	18	90	2	8
YLR354C		63	41	70	9	21
YLR356W	unknown	60	23	75	2	23
YLR357W		57	28	77	8	15
YLR358C	unknown	56	21	50	16	34
YLR360W	VPS38	31	52	88	4	8
YLR361C		59	20	88	2	10
YLR362W	STE11					


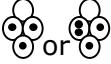



ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLR363C		72	33	84	6	10
YLR364W	unknown	59	59	96	2	2
YLR365W		46	41	82	10	8
YLR366W		48	33	82	11	7
YLR367W		63	40	82	5	13
YLR368W	MDM30	53	43	78	7	15
YLR369W		53	28	86	2	12
YLR370C		46	24	89	4	7
YLR371W		61	41	88	4	8
YLR372W	SUR4	70	49	81	5	14
YLR373C	VID22	57	44	80	10	10
YLR374C	unknown	51	41	60	25	15
YLR375W	STP3	52	40	78	10	12
YLR376C	PSY3	34	38	89	7	4
YLR377C	FBP1	16	44	62	15	23
YLR380W		56	29	83	9	8
YLR381W		50	36	80	6	14
YLR382C	NAM2	45	44	91	0	9
YLR384C	IKI3	72	31	64	13	23
YLR385C		51	41	74	5	21
YLR386W		56	38	74	10	16
YLR387C		64	34	77	10	13
YLR388W		52	35	80	12	8
YLR389C	STE23	52	40	80	10	10
YLR390W	ECM19	54	33	67	6	27
YLR390W-A		58	26	88	0	12
YLR391W		54	28	67	11	22
YLR392C	unknown	72	44	84	2	14
YLR393W		56	27	84	10	6
YLR394W	CST9	56	52	82	6	12
YLR395C		62	26	88	2	10
YLR396C	VPS33	65	45	84	10	6
YLR398C		52	37	82	7	11
YLR399C	BDF1	46	35	65	8	27
YLR400W	unknown	68	49	74	16	10
YLR401C		80	24	90	7	3
YLR402W	unknown	45	58	79	8	13
YLR403W		62	37	86	7	7
YLR404W		39	26	90	2	8
YLR405W		63	25	83	9	8
YLR406C	RPL31B	61	44	81	7	12
YLR407W		57	25	90	8	2
YLR408C		57	32	82	9	9
YLR410W		68	31	79	6	15
YLR412W		63	40	88	6	6
YLR413W		38	8	90	4	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YLR414C	unknown	68	46	80	10	10
YLR415C	unknown	21	24	90	4	6
YLR416C		58	36	89	7	4
YLR417W	VPS36	52	46	84	12	4
YLR418C		69	39	82	8	10
YLR420W	URA4	23	22	33	4	63
YLR421C		74	28	84	8	8
YLR422W		49	12	82	4	14
YLR423C	ATG17	26	27	80	0	20
YLR425W		49	39	87	2	11
YLR426W		45	30	86	5	9
YLR427W		49	27	88	6	6
YLR428C		46	22	82	2	16
YLR429W	CRN1	30	17	84	4	12
YLR431C		40	10	79	0	21
YLR432W		42	29	88	2	10
YLR433C	CNA1	32	22	71	5	24
YLR434C	unknown	44	32	64	12	24
YLR435W	TSR1	36	28	63	4	33
YLR436C		44	23	71	8	21
YLR437C	unknown	33	42	92	2	6
YLR438W		43	30	86	7	7
YLR439W		46	39	85	2	13
YLR441C	RPS1A	35	9	72	2	26
YLR442C	SIR3					
YLR443W		37	22	80	4	16
YLR444C	unknown	32	25	88	4	8
YLR445W	unknown	34	32	74	2	24
YLR446W		37	19	82	2	16
YLR447C	VMA6	37	22	45	4	51
YLR448W	RPL6B	33	30	72	2	26
YLR449W		40	28	87	0	13
YLR450W	HMG2	31	39	75	2	23
YLR451W		53	15	72	10	18
YLR452C		39	21	84	6	10
YLR453C	RIF2	28	4	77	2	21
YLR454W		45	11	83	2	15
YLR455W	unknown	54	54	88	10	2
YLR456W		39	18	86	8	6
YLR460C		50	16	86	2	12
YLR461W		47	28	85	2	13
YML001W	YPT7	25	44	81	3	16
YML002W	unknown	22	18	85	4	11
YML003W	unknown	24	46	74	6	20
YML004C		59	17	79	2	19
YML005W	unknown	53	57	94	0	6


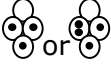


ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YML006C	GIS4	31	6	88	6	6
YML007W	YAP1	16	50	91	0	9
YML008C		46	20	87	4	9
YML009C	MRPL39	32	22	76	0	24
YML009c		50	22	79	5	16
YML010C-B		39	28	74	6	20
YML010W-A	unknown	29	41	88	6	6
YML011C	unknown	14	29	87	4	9
YML012W	ERV25	10	50	87	0	13
YML013C-A		49	24	92	0	8
YML013W		62	26	74	9	17
YML014W	unknown	15	33	34	8	58
YML016C		47	28	79	0	21
YML017W	unknown	38	37	64	13	23
YML018C	unknown	55	36	50	10	40
YML019W	OST6	34	9	81	6	13
YML020W	unknown	43	37	56	12	32
YML021C	UNG1	31	23	74	4	22
YML022W		59	31	81	2	17
YML024W	RPS17A	21	52	68	11	21
YML026C	RPS18b	40	23	88	8	4
YML027W		45	16	94	0	6
YML028W	TSA1	27	26	78	0	22
YML029W	USA1	21	14	79	5	16
YML030W	unknown	58	26	71	3	26
YML032C	RAD52	38	34	65	11	24
YML033W	SRC1	22	32	90	2	8
YML034W		37	30	86	0	14
YML035C		51	37	80	8	12
YML035C-A	unknown	33	36	88	2	10
YML036W		51	22	89	2	9
YML037C	unknown	27	30	81	8	11
YML038C		51	14	92	0	8
YML041C		55	40	78	6	16
YML042W		52	33	82	6	12
YML047C		49	20	84	4	12
YML048W	GSF2	53	43	64	11	25
YML048W-A		39	28	80	2	18
YML050W	unknown	54	43	76	2	22
YML051W	GAL80	39	44	58	10	32
YML052W	SUR7	44	45	77	0	23
YML053C		46	37	74	9	17
YML054C	CYB2	51	41	72	2	26
YML055W		56	36	78	8	14
YML056C		48	38	84	0	16
YML058C-A		42	40	79	6	15






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YML058W	SML1	59	37	66	4	30
YML059C	unknown	49	43	82	0	18
YML060W	OGG1	43	30	69	6	25
YML061C	PIF1	34	68			
YML062C		61	41	72	6	22
YML063W	RPS1	55	11	66	3	31
YML066C	SMA2	7	43			
YML067C		49	40	92	6	2
YML068W		44	34	84	6	10
YML070W	DAK1	49	47	86	2	12
YML071C	COG8	59	36	66	14	20
YML072C	unknown	48	32	74	2	24
YML073C		49	29	90	6	4
YML074C	FPR3					
YML075C	HMG1	48	33	61	6	33
YML076C		45	33	85	4	11
YML078W		51	39			
YML079W	unknown	44	45			
YML080W	DUS1	51	43			
YML081C-A	ATP18	31	39	94	4	2
YML081W	unknown	50	60			
YML082W		49	39			
YML083C		59	37			
YML084W	unknown	38	79			
YML086C		57	25	86	0	14
YML086C	ALO1	55	42			
YML087C	unknown	39	54			
YML088W	UFO1	25	28			
YML089C	unknown	33	18			
YML090W	unknown	51	49	73	0	27
YML094W		50	30	76	10	14
YML095C		59	34	90	4	6
YML095C-A	unknown	29	28	47	0	53
YML096W	unknown	56	48	67	4	29
YML097C		46	20	82	0	18
YML099C		58	38	88	8	4
YML100W	TSL1	48	46	68	7	25
YML100W-A	unknown	41	29	70	5	25
YML101C		48	33	80	0	20
YML102C-A	unknown	49	43	84	6	10
YML102W	CAC2	52	42	82	0	18
YML103C	NUP188	58	48	74	8	18
YML104C		57	33	90	0	10
YML106W		62	34	76	2	22
YML107C	unknown	56	43	94	0	6
YML108W	unknown	70	50	84	2	14






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YML109W	ZDS2	58	41	69	4	27
YML110C		51	39	86	4	10
YML111W	BUL2	58	47	64	4	32
YML112W	CTK3	55	51	82	2	16
YML113W	DAT1	63	46	86	6	8
YML115C	VAN1	20	50	69	0	31
YML116W	ATR1	64	42	92	4	4
YML117W		48	31	94	2	4
YML117W-A		40	20	98	0	2
YML118W		61	31	84	4	12
YML119W	unknown	45	47	84	4	13
YML120C	NDI1	39	26	59	12	29
YML121W		48	27	92	2	6
YML122C	unknown	64	42	88	4	8
YML123C		45	36	82	2	16
YML124C		65	35	74	4	22
YML128C	MSC1	48	46	58	17	25
YML129C	COX14	21	38	92	2	6
YML131W		63	33	83	5	12
YMR002W	unknown	54	43	93	0	7
YMR003W	unknown	24	21	73	6	21
YMR004W		43	30	79	6	15
YMR006C	PLB2	14	36	85	2	13
YMR007W		71	11	85	6	9
YMR008C	PLB1	7	29	92	0	8
YMR009W		38	24	89	2	9
YMR010W	unknown	27	33	88	0	12
YMR011W		48	29	92	4	4
YMR012W	CLU1	13	8	89	4	7
YMR014W	BUD22	13	31	41	0	59
YMR015C		57	19	82	0	18
YMR016C		39	26	85	2	13
YMR017W	SPO20	2	50			
YMR018W		38	37	88	6	6
YMR019W	STB4	27	37	82	2	16
YMR020W	FMS1	16	50			
YMR021C		49	31	78	7	15
YMR022W	UBC7	55	58	86	7	7
YMR023C		59	15	91	7	2
YMR024W	MRPL3	32	31	92	2	6
YMR025W	CSI1	32	25	84	4	12
YMR026C	PEX12	17	41	84	7	9
YMR027W		42	24	89	4	7
YMR029C		57	17	87	9	4
YMR030W	unknown	19	32	77	5	18
YMR031C		39	38	94	0	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YMR031W-A	unknown	34	38	94	2	4
YMR032W	HOF1	34	38	31	2	67
YMR034C		43	28	78	9	13
YMR035W		36	25	87	4	9
YMR036C		51	26	85	2	13
YMR037C		53	36	79	2	19
YMR038C		45	38	79	6	15
YMR039C	SUB1	20	30	86	5	9
YMR040W		50	16	92	4	4
YMR041C	unknown	25	23	90	4	6
YMR042W	ARG80	39	37	64	4	32
YMR044W		38	11	89	0	11
YMR048W	CSM3	59	42	55	2	43
YMR052C-A		71	26	93	0	7
YMR052W		66	9	89	0	11
YMR053C		62	39	92	0	8
YMR054W	STV1	40	35	55	0	45
YMR055C		76	13	91	0	9
YMR056C		38	13	93	0	7
YMR057C		60	25			
YMR058W		56	23	28	0	72
YMR060C	TOM37	29	21	74	8	18
YMR062C	ARG7	85	54	76	8	16
YMR063W	RIM9	80	38	63	6	31
YMR064W	AEP1	67	28	74	2	24
YMR065W	KAR5	58	45	76	6	18
YMR066W	SOV1	49	47	86	0	14
YMR067C	unknown	61	44	70	12	18
YMR068W		61	34	80	2	18
YMR069W		42	36	76	2	22
YMR070W	MOT3	46	59	78	6	16
YMR071C		58	38	82	2	16
YMR072W		49	39	76	8	16
YMR073C	unknown	50	52	94	4	2
YMR074C		58	34	91	0	9
YMR075C-A		56	36	78	4	18
YMR075W	unknown	54	43	69	2	29
YMR077C		63	35	78	4	18
YMR078C	CTF18	44	23	70	2	28
YMR080C		73	16	80	6	14
YMR081C	ISF1	67	19	63	9	28
YMR082C		47	30	96	0	4
YMR083W		49	31	88	4	8
YMR084W		66	36	72	9	19
YMR085W	unknown	53	64	74	12	14
YMR086C-A	unknown	49	37	65	8	27






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YMR086W		51	37	90	2	8
YMR087W	unknown	28	32	88	4	8
YMR088C	unknown	75	43	74	13	13
YMR089C	YTA12	48	33	72	2	26
YMR090W	unknown	54	48	83	0	17
YMR091C		52	31	5	4	91
YMR092C		50	38	80	4	16
YMR095C	SNO1	64	48	81	0	19
YMR096W		52	33	84	6	10
YMR097C		54	35	83	2	15
YMR098C		61	39	88	2	10
YMR099C		55	35	80	6	14
YMR100W	MUB1	67	34	31	10	59
YMR101C	unknown	24	29			
YMR102C		61	38	98	2	0
YMR103C	unknown	45	49	86	4	10
YMR104C		36	39	88	6	6
YMR105C	PGM2	32	31	72	10	18
YMR106C		70	41	84	2	14
YMR107W		53	28	94	2	4
YMR109W	MYO5	63	52	83	2	15
YMR110C	unknown	77	51	82	2	16
YMR111C	unknown	75	59	90	6	4
YMR114C		61	38	80	8	12
YMR115W	FMP24	59	46	74	6	20
YMR116C		71	41	76	4	20
YMR118C		47	23	77	6	17
YMR119W		46	20	96	2	2
YMR119W-A		74	39	78	6	16
YMR120C	ADE17	73	51	86	2	12
YMR121C	RPL15B	55	53	78	4	18
YMR122C	unknown	71	51	72	4	24
YMR123W		60	30	78	2	20
YMR124W	unknown	70	50	77	6	17
YMR125W		51	33	9	2	89
YMR126C	DLT1	58	53	82	2	16
YMR127C	SAS2	74	43	88	0	12
YMR129W		55	38	90	4	6
YMR130W		48	38	90	0	10
YMR132C		59	32	88	6	6
YMR133W	REC114	41	32	86	2	12
YMR135C		49	29	84	0	16
YMR135W-A	unknown	52	40	68	2	30
YMR136W		47	39	82	0	18
YMR137C		39	28	89	2	9
YMR138W		40	33	73	6	21


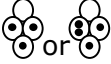



ORF	Gene	% Spores	% Dyads		 or 	
				4	3	2
YMR139W	RIM11	34	35	86	4	10
YMR140W		39	28	82	0	18
YMR141C		50	22	78	0	22
YMR142C	RPL13b	48	38	31	26	43
YMR143W		50	40	81	0	19
YMR144W		65	18	93	0	7
YMR145C		69	28	78	0	22
YMR147W		38	18	96	0	4
YMR148W		36	33	94	0	6
YMR150C		48	33	89	2	9
YMR151W		60	20	90	0	10
YMR152W	YIM1	52	31	74	2	24
YMR153C-A		71	35	78	11	11
YMR153W	NUP53	57	32	76	0	24
YMR154C	RIM13	28	18	66	12	22
YMR155W	unknown	24	38	89	0	11
YMR156C	TPP1	37	24	72	2	26
YMR157C	unknown	11	45	72	6	22
YMR158C-B		36	3	80	0	20
YMR158W	MRPS8	52	27	57	0	43
YMR158W-A	unknown	9	11	76	12	12
YMR159C	APG16	1	0			
YMR160W	unknown	23	22	76	3	21
YMR160W	unknown	53	45	78	2	20
YMR161W		58	14	86	6	8
YMR162C		73	21	92	4	4
YMR163C		81	33	78	0	22
YMR164C		56	32	84	2	14
YMR166C	unknown	62	42	67	0	33
YMR167W		37	22	82	0	18
YMR169C		36	19	74	8	18
YMR169c	ALD3	24	38	78	12	10
YMR170C		61	13	77	4	19
YMR171C		38	34	94	2	4
YMR172C-A		39	15	80	11	9
YMR172W	HOT1	35	48	81	8	11
YMR173W		51	24	92	0	8
YMR173W-A	unknown	17	41	66	14	20
YMR174C	PAI3	35	17	41	4	55
YMR174c		69	32	88	0	13
YMR175w	SIP18	59	34	61	0	39
YMR175W		43	28	91	2	7
YMR176W	ECM5	72	32	67	0	33
YMR177W		72	36	90	0	10
YMR178W		46	28	88	0	12
YMR179W	SPT21	46	37	59	4	37






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YMR180C	CTL1	55	18	80	8	12
YMR181C		73	34	82	10	8
YMR182C	RGM1	20	20	92	0	8
YMR183C	SSO2	5	0	90	0	10
YMR184W		70	29			
YMR185W	unknown	65	29	63	0	37
YMR186W		62	29	89	0	11
YMR187C		38	37	74	4	22
YMR188C	MRPS17	28	29	79	0	21
YMR189W		55	38	79	2	19
YMR190C		45	20	83	4	13
YMR191W		60	23	82	4	14
YMR192W		66	29	82	2	16
YMR193C-A		35	20	88	0	12
YMR193W		54	35	78	6	16
YMR194C-A		50	24	83	2	15
YMR194W	RPL36A	34	24	64	11	25
YMR195W	ICY1	49	37	55	3	42
YMR196W	unknown	68	32	69	0	31
YMR198W	CIK1	72	28	77	0	23
YMR198W	CIK1	63	43	83	2	15
YMR199W		71	3	92	0	8
YMR201C		41	20	88	2	10
YMR202W	ERG2	62	23	67	14	19
YMR204C		59	22	80	0	20
YMR205C	PFK2	17	24	62	12	26
YMR206W		63	19	80	2	18
YMR207C	HFA1	29	45	73	4	23
YMR209C		73	33	80	4	16
YMR210W		71	11	90	0	10
YMR214W	SCJ1	18	44	86	0	14
YMR215W		40	25	96	0	4
YMR216C		42	33	94	0	6
YMR219W		64	27	92	0	8
YMR221C		58	29	79	0	21
YMR222C		55	40	89	0	11
YMR223W	UBP8	64	20	72	0	28
YMR224C		42	33	88	0	12
YMR225		54	31	86	8	6
YMR226C	unknown	55	16	76	0	24
YMR228W		38	13	75	4	21
YMR230W	RPS10B	21	29	46	8	46
YMR231W		61	41	92	4	4
YMR232W		46	17	84	0	16
YMR233W		48	10	84	0	16
YMR234W		55	25	69	12	19






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YMR237W		60	28	86	0	14
YMR238W		45	20	92	0	8
YMR241W		53	30	86	0	14
YMR242C	RPL20A	64	36	46	6	48
YMR243C		65	28	84	0	16
YMR244C-A		41	41	90	0	10
YMR244W		48	23	77	0	23
YMR245W	unknown	26	35	70	0	30
YMR246W	FAA4	44	18	75	0	25
YMR247C		54	33	85	0	15
YMR250W		43	9	79	0	21
YMR251W		40	18	90	0	10
YMR251W-A	HOR7	42	17	68	2	30
YMR252C	unknown	28	25	90	0	10
YMR253C		55	22	89	0	11
YMR254C		65	12	92	0	8
YMR255W		68	16	80	0	20
YMR256C	COX7	30	17	90	0	10
YMR257C	PET111	3	0			
YMR258C		55	18	89	0	11
YMR259C		65	9	84	0	16
YMR261C	TPS3	47	11	69	1	30
YMR262W		55	24	86	0	14
YMR263W		36	19	91	0	9
YMR264W		58	10	85	0	15
YMR265C		48	27	89	0	11
YMR266W		38	24	82	0	18
YMR267W	PPA2	25	4	81	0	19
YMR269W		60	20	86	0	14
YMR271C	URA10	53	49	65	9	26
YMR272C		48	19	82	0	18
YMR273C		58	19	84	0	16
YMR274C		65	12	81	0	19
YMR275C		62	13	78	0	22
YMR276W		62	23	87	0	13
YMR278W		44	14	90	0	10
YMR279C	unknown	67	61	88	4	8
YMR280C		44	23	82	0	18
YMR282C	AEP2	29	14	90	0	10
YMR283C		45	9	89	0	11
YMR284W		58	26	85	0	15
YMR285C		69	14	80	0	20
YMR286W	MRPL33	26	8	71	4	25
YMR287C	MSU1	26	31	93	0	7
YMR289W		48	15	89	2	9
YMR291W		39	15	89	0	11






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YMR292W		55	18	81	0	19
YMR293C		40	28	82	0	18
YMR294W		72	11	82	0	18
YMR294W-A		50	14	83	0	17
YMR295C		53	11	83	0	17
YMR297W	PRC1	22	23	76	0	24
YMR299C		47	15	81	0	19
YMR300C		35	20	85	0	15
YMR302C	PRP12	74	15	75	0	25
YMR303C		73	22	93	0	7
YMR304C-A	unknown	27	52	87	0	13
YMR304W		57	21	80	0	20
YMR305C		44	27	90	0	10
YMR306C-A	unknown	48	15	78	7	15
YMR306W		54	28	86	2	12
YMR307W	GAS1	47	15	67	7	26
YMR310C		42	17	89	0	11
YMR311C		63	22	77	2	21
YMR312W	ELP6	67	42	62	10	28
YMR313C	TGL3	56	27	70	12	18
YMR315W		47	40	84	6	10
YMR316C-A		73	37	90	0	10
YMR316C-B		74	30	92	4	4
YMR316W		57	32	95	0	5
YMR317W		63	37	90	0	10
YMR318C	ADH6	60	43	92	4	4
YMR319C	FET4	74	62	86	2	12
YMR320W		76	41	78	4	18
YMR322C		74	18	80	4	16
YMR326C		62	23	88	2	10
YNL001W	DOM34	32	13	84	10	6
YNL003C		47	17	91	5	4
YNL004W		38	0	94	2	4
YNL005C		37	8	82	12	6
YNL008C		61	15	83	5	12
YNL009W		52	23	86	6	8
YNL010W		65	22	82	4	14
YNL011C	unknown	53	21	49	29	22
YNL011C	unknown	48	54	96	4	0
YNL012W	SPO1	15	33	86	14	0
YNL013C		39	10	93	5	2
YNL014W		54	33	88	4	8
YNL014W		37	24	96	0	4
YNL015W		39	21	86	4	10
YNL016W	PUB1	45	13	80	12	8
YNL020C	ARK1	31	6	97	0	3






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YNL021W		45	13	76	6	18
YNL022C		57	16	80	6	14
YNL023C		36	11	79	6	15
YNL024C	unknown	56	34	62	19	19
YNL025C		42	31	96	0	4
YNL027W		40	3	96	4	0
YNL028W		47	4	94	6	0
YNL029C	KTR5	33	3	92	6	2
YNL030W	HHF2	31	10	91	5	4
YNL031C		46	24	96	4	0
YNL032W		49	16	92	0	8
YNL034W		60	28	86	4	10
YNL035C	unknown	38	21	68	16	16
YNL037C		41	37	82	6	12
YNL040W		47	6	86	6	8
YNL041C	COG6	32	16	86	8	6
YNL042W		49	16	91	4	5
YNL043C		37	24	80	9	11
YNL044W		38	26	86	6	8
YNL045W	unknown	21	14	92	4	4
YNL046W		53	21	83	4	13
YNL047C		55	31	77	5	18
YNL049C	SFB2	49	18	64	20	16
YNL050C	unknown	58	16	75	13	13
YNL051W	COG5	64	47	82	4	14
YNL052W	COX5	68	59	85	4	11
YNL053W		81	12	75	4	21
YNL054W	VAC7	35	31	47	11	42
YNL055C	POR1	69	32	67	9	24
YNL056W	unknown	47	57	84	4	12
YNL057W		39	13	76	2	22
YNL058C	unknown	38	42	68	2	30
YNL059C		40	33	0	0	100
YNL063W		37	22	76	8	16
YNL064C	YDJ1	30	33	60	4	36
YNL065W	AQR1	33	55	76	9	15
YNL066W		71	37	82	2	16
YNL067W	RPL9B	37	43	88	0	12
YNL068C	FKH2	50	48	79	2	19
YNL069C	RPL16B	35	37	68	19	13
YNL070W	TOM7	50	46	58	13	29
YNL071W	LAT1	81	56	74	6	20
YNL072W	RNH35	46	54	53	12	35
YNL073W	MSK1	58	59	69	6	25
YNL074C		62	31	87	4	9
YNL076W		68	41	85	2	13






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YNL077W	APJ1	30	17	89	0	11
YNL078W	NIS1	65	54	84	10	6
YNL079C	TPM1	33	33	87	2	11
YNL080C	unknown	67	55	72	16	12
YNL081C	unknown	6	50	51	12	37
YNL082W	PMS1	59	61	70	6	24
YNL083W	unknown	53	32	70	6	24
YNL084C		80	19	84	4	12
YNL085W	MKT1	42	48	83	4	13
YNL086W		46	33	84	2	14
YNL087W	unknown	66	55	86	4	10
YNL089C		51	33	73	8	19
YNL090W	RHO2	33	45	88	6	6
YNL091W	NST1	61	57	76	8	16
YNL092W	unknown	33	16	84	0	16
YNL093W		60	33	74	4	22
YNL094W	APP1	31	19	73	8	19
YNL095C	unknown	57	56	82	2	16
YNL096C		45	22	80	9	11
YNL097C		64	39	89	2	9
YNL098C	RAS2	25	16	73	8	19
YNL099C	OCA1	71	54	84	2	14
YNL100W		48	42	98	0	2
YNL101W		44	7	86	4	10
YNL104C	LEU4	75	47	84	2	14
YNL105W	unknown	47	38	73	2	25
YNL106C	INP52	63	46	76	6	18
YNL107W	YAF9	55	55	68	6	26
YNL108C		37	27	80	0	20
YNL109W	unknown	27	56	88	10	2
YNL111C		60	35	80	4	16
YNL115C	unknown	61	46	86	6	8
YNL116W		56	21	86	2	12
YNL117W	MLS1	38	42	94	0	6
YNL119W	unknown	62	47	94	2	4
YNL120C	unknown	69	58	88	8	4
YNL121C	TOM1	53	42	67	9	24
YNL122C	unknown	20	50	83	2	15
YNL123W		54	37	84	4	12
YNL125C		66	36	94	4	2
YNL127W	unknown	18	6	92	2	6
YNL128W		47	30	80	0	20
YNL129W	unknown	23	22	81	0	19
YNL130C	CPT1	64	50	82	4	14
YNL133C		40	33	85	2	13
YNL134C		36	42	86	8	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YNL135C	FPR1	66	14	59	16	25
YNL136W		41	20	85	4	11
YNL138W		71	20	74	9	17
YNL139C	RLR1	30	57	11	2	88
YNL140C	unknown	59	22	49	0	51
YNL141W	AAH1	38	29	70	6	24
YNL142W	MEP2	65	49	88	4	8
YNL143C		61	23	82	7	11
YNL144C		53	38	80	2	18
YNL145W	MFA2	21	29	74	4	22
YNL146W	unknown	15	40	72	2	26
YNL147W		71	41	81	4	15
YNL148C		42	29	79	0	21
YNL154C		69	14			
YNL155W		67	17			
YNL157W		46	22	95	0	5
YNL159C		50	22			
YNL160W	YGP1	66	9	62	0	38
YNL167C		61	26	91	0	9
YNL168C		35	14	91	0	9
YNL170W		55	22	95	0	5
YNL173C		48	35	85	0	15
YNL175C		66	21	76	5	19
YNL176C		49	14	83	0	17
YNL177C		40	5	91	0	9
YNL179C		57	22	98	0	2
YNL180C	RHO5	29	21	76	11	13
YNL183C		43	35	92	0	8
YNL184C	unknown	6	0			
YNL185C	MRPL19	22	14	53	8	39
YNL187W		40	23	84	0	16
YNL190W		49	31	98	0	2
YNL191W		44	18	98	0	2
YNL193W		59	27	93	0	7
YNL194C		46	24	95	0	5
YNL195C		44	9	95	0	5
YNL196C	SLZ1	42	17	69	0	31
YNL197C	WHI3	9	11			
YNL198C		59	20	86	0	14
YNL199C		39	21	89	0	11
YNL200C		52	17	91	0	9
YNL201C		47	21	83	0	17
YNL202W		46	15			
YNL203C		60	20	92	0	8
YNL204C		37	32	94	0	6
YNL205C		46	37			






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YNL206C	RTT106	55	16	70	0	30
YNL210W	MER1	18	44	86	0	14
YNL211C		52	25	82	0	18
YNL212W	VID27	21	19	87	0	13
YNL213C	unknown	29	34	53	0	47
YNL214W		45	31	90	0	10
YNL215W		40	35	93	0	7
YNL217W		52	19	93	0	7
YNL218W		66	15	79	0	21
YNL219C		47	23	90	0	10
YNL220W	ADE12	58	31	71	4	25
YNL224C		56	25	77	0	23
YNL225C	CNM67	13	15	0	0	100
YNL226W		58	21	83	0	17
YNL227C		42	26	82	0	18
YNL228W		37	19	86	0	14
YNL229C		41	17	90	0	10
YNL230C		76	26	94	0	6
YNL231C		69	27	92	0	8
YNL233W		47	26	96	0	4
YNL235C	unknown	29	31	70	0	30
YNL236W	SIN4	39	51	93	0	7
YNL237W	YTP1	34	35	89	0	11
YNL239W		44	18	85	0	15
YNL241C		62	16	77	2	21
YNL242W	SPO72	6	50			
YNL243W	SLA2	33	33	54	10	36
YNL246W		35	17	93	0	7
YNL248C		39	31	93	0	7
YNL249C		39	13	94	0	6
YNL250W	RAD50	64	53	88	2	10
YNL252C		47	40	84	8	8
YNL253W		48	10	90	0	10
YNL254C	unknown	34	15	84	0	16
YNL255C	GIS2	33	27	85	0	15
YNL257C	SIP3	34	29	76	0	24
YNL259C		44	20	88	0	13
YNL264C		55	25	77	0	23
YNL265C	IST1	33	24	98	0	2
YNL266W		51	21	84	0	16
YNL268W		59	25	85	2	13
YNL269W		48	38	84	0	16
YNL270C		53	12	93	0	7
YNL271C	BNI1	23	35	87	0	13
YNL273W	TOF1	56	16	44	12	44
YNL274C	unknown	35	54	84	0	16






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YNL275W		47	13	85	0	15
YNL278W		47	23	92	4	4
YNL279W	PRM1	48	48	92	6	2
YNL280C	ERG24	32	22	90	0	10
YNL281W	HCH1	46	67	81	5	14
YNL283C		41	27	81	0	19
YNL284C		50	32	85	6	9
YNL285W	unknown	67	16	69	3	28
YNL286W		49	29	83	0	17
YNL288W	CAF40	27	22	80	0	20
YNL289W		43	12	84	0	16
YNL291C	MID1	35	11	40	4	56
YNL292W		39	15	90	0	10
YNL293W		46	11	93	0	7
YNL294C	RIM21	23	30	98	0	2
YNL295W		45	38	86	0	14
YNL296W	unknown	19	26	81	0	19
YNL297C	MON2	36	14	60	6	34
YNL298W		49	39	80	0	20
YNL299W	TRF5	29	21	80	0	20
YNL300W		54	30	98	0	2
YNL301C		61	23	75	10	15
YNL302C	RPS19B	34	29	83	6	11
YNL303W		36	25	85	0	15
YNL304W		43	16	88	0	13
YNL305C		45	11	77	0	23
YNL307C	MCK1	29	38	89	0	11
YNL309W	STB1	22	23			
YNL311C		40	20	87	0	13
YNL314W		45	0	69	9	22
YNL315C	ATP11	60	35	61	12	27
YNL315C	ATP11	43	58	74	4	22
YNL316C	PHA2	65	45	87	4	9
YNL318C		47	38	95	0	5
YNL319W	unknown	33	24	90	0	10
YNL320W		56	21	88	0	12
YNL321W		41	24	90	0	10
YNL322C	KRE1					
YNL323W	LEM3	30	20	90	0	10
YNL324W		72	27	90	0	10
YNL325C	FIG4	53	37	77	0	23
YNL326C		37	32	83	0	17
YNL327W		52	12	83	0	17
YNL328C		43	23	84	0	16
YNL329C	PEX6	34	26	77	0	23
YNL330C	RPD3	31	19	86	0	14






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YNL332W	THI12	47	9	64	8	28
YNL333W		68	21	82	0	18
YNL334C		45	18	77	10	13
YNL335W		47	21	77	10	13
YNL336W		42	21	82	0	18
YNL338W		51	22	79	0	21
YNL339C	YRF1-6	71	32	65	4	31
YNR001C	CIT1	43	16	64	19	17
YNR002C		46	9	94	6	0
YNR004W	unknown	38	18	74	14	12
YNR005C	unknown	34	21	74	12	14
YNR006W	VPS27	12	33	80	8	12
YNR007C		53	4	66	12	22
YNR008W		60	22	82	4	14
YNR009W		59	31	86	4	10
YNR010W	CSE2	59	19	54	5	41
YNR012W		50	38	70	8	22
YNR013C	PHO91	56	20	70	13	17
YNR014W	unknown	30	20	84	4	12
YNR015W		40	8	82	6	12
YNR018W		58	7	77	10	13
YNR019W		42	7	86	8	6
YNR020C		47	40	81	0	19
YNR021W	unknown	41	59	76	15	9
YNR022C	MRPL50	55	29	77	17	6
YNR023W	SNF12	50	46	68	15	17
YNR024W		53	30	86	4	10
YNR025C	unknown	45	27	81	14	5
YNR027W		40	18	92	4	4
YNR028W		44	20	76	12	12
YNR029C		47	28	84	0	16
YNR030W	ECM39	25	12	80	16	4
YNR031C	SSK2	32	19	80	6	14
YNR032C-A		42	26	90	0	10
YNR032W	PPG1	41	17	68	20	12
YNR033W	ABZ1	51	14	64	16	20
YNR033W		51	22	88	4	8
YNR034W	SOL1	40	10	74	13	13
YNR036C		36	31	90	0	10
YNR037C	RSM19					
YNR039C		45	16	91	5	4
YNR040W		41	12	81	11	8
YNR041C	COQ2	34	3	80	10	10
YNR042W		35	20	88	10	2
YNR044W		63	37	94	2	4
YNR045W		41	27	78	6	16






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YNR047W		51	31	86	7	7
YNR048W		48	13	76	11	13
YNR049C	MSO1	2	0			
YNR050C	LYS9	28	25	67	2	31
YNR051C	BRE5					
YNR052C	POP2	35	37	90	6	4
YNR055C	HOL1	51	43	77	4	19
YNR056C		36	19	86	0	14
YNR057C	BIO4	19	16	78	2	20
YNR058W	BIO3	29	7	84	2	14
YNR059W		39	33	79	6	15
YNR060W		47	6	88	4	8
YNR061C		40	15	76	8	16
YNR062C		56	7	78	4	18
YNR063W		42	31	76	6	18
YNR064C	unknown	28	18	98	0	2
YNR065C	YSN1	23	13	85	6	9
YNR066C		43	14	80	4	16
YNR067C	DSE4	29	28	84	0	16
YNR068C	unknown	32	13	86	0	14
YNR069C		60	42	82	9	9
YNR070W	unknown	50	48	74	6	20
YNR071C	unknown	66	8	65	9	26
YNR072W	HXT17	69	49	80	4	16
YNR073C	unknown	68	44	88	4	8
YNR074C	unknown	40	48	71	6	23
YNR075W		42	36	88	5	7
YOL001W		74	30	88	0	12
YOL002C		80	16	95	0	5
YOL003C		43	19	89	0	11
YOL004W	SIN3	53	15	82	0	18
YOL006C		64	20	88	0	12
YOL007C		61	23	79	0	21
YOL008W		62	15	80	0	20
YOL009C		63	32	85	0	15
YOL011W		42	10	88	0	12
YOL012C	HTZ1	31	29	88	0	12
YOL013C		54	26	88	5	7
YOL013W-A	unknown	46	50	73	0	27
YOL014W		40	13	88	0	12
YOL015W		78	18	75	4	21
YOL016C		85	39	88	4	8
YOL017W	ESC8	63	22	68	8	24
YOL018C		52	13	82	0	18
YOL019W		70	19	96	0	4
YOL020W		65	18	86	10	4






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOL023W		46	22	88	0	12
YOL024W	unknown	78	23	70	0	30
YOL025W	LAG2	71	14	62	6	32
YOL027C		47	11	70	8	22
YOL028C		64	21	78	4	18
YOL029C		85	15	91	0	9
YOL030W		79	14	88	6	6
YOL031C		62	22	73	8	19
YOL032W		71	14	93	0	7
YOL033W		51	29	88	0	13
YOL035C		37	27	77	9	14
YOL036W		59	27	84	0	16
YOL037C		68	18	91	0	9
YOL039W		36	31	88	0	12
YOL041C		63	24	71	11	18
YOL042W		65	18	90	0	10
YOL043C		78	19	96	0	4
YOL044W		51	21	93	7	0
YOL045W		73	21	92	0	8
YOL046C		75	13	87	0	13
YOL047C		83	20	79	0	21
YOL048C	unknown	54	13	64	13	23
YOL049W		57	37	90	0	10
YOL050C		60	17	89	0	11
YOL051W	GAL11					
YOL052C		36	19	96	0	4
YOL053C-A		55	13	74	8	18
YOL053W	unknown	60	5	75	0	25
YOL054W		79	16	82	0	18
YOL055C		77	11	82	0	18
YOL056W		72	29	88	0	12
YOL057W		71	21	84	0	16
YOL058W	ARG1	85	28	77	0	23
YOL059W	GPD2	73	18	67	10	23
YOL060C		67	15	88	0	13
YOL061W		63	19	82	0	18
YOL062C		97	11	84	0	16
YOL063C		81	19	88	0	12
YOL064C		63	14	89	0	11
YOL065C		76	26	84	0	16
YOL067C	RTG1	58	33	66	11	23
YOL068C	HST1	70	16	72	0	28
YOL070C		82	15	87	0	13
YOL071W	unknown	16	19	93	0	7
YOL072W	THP1	67	27	63	0	38
YOL075C		59	25	84	0	16






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOL076W		36	36	80	10	10
YOL079W		67	15	96	0	4
YOL080C		75	23	89	0	11
YOL081W		37	14	74	7	19
YOL082W		49	16	81	0	19
YOL083W		51	18	81	0	19
YOL084W		59	19	77	0	23
YOL085C		71	23	81	6	13
YOL086C	ADH1	24	38	26	6	68
YOL087C	unknown	52	54	82	6	12
YOL088C	MPD2	57	47	76	6	18
YOL089C		50	26	86	2	12
YOL090W		51	39	80	8	12
YOL091W	SPO21	13	62			
YOL092W		69	36	96	0	4
YOL093W	TRM10	61	43	74	0	26
YOL095C	HMI1	52	40	69	4	27
YOL096C		38	29	82	8	10
YOL098C		60	32	68	10	22
YOL099C	unknown	74	49	80	12	8
YOL100W		67	9	80	10	10
YOL101C		36	22	82	8	10
YOL103W	ITR2	65	49	69	4	27
YOL104C		50	40	88	6	6
YOL105C		62	29	84	4	12
YOL106W		41	39	92	2	6
YOL107W		45	33	86	4	10
YOL108C	INO4	47	32	63	15	22
YOL109W		42	36	90	4	6
YOL110W	SHR5	73	36	70	2	28
YOL111C	unknown	77	43	80	6	14
YOL112W	MSB4	47	26	71	6	23
YOL113W		64	36	80	10	10
YOL114C		54	37	88	2	10
YOL115W	TRF4	41	24	0	0	100
YOL116W	MSN1	70	50	89	2	9
YOL117W	RRI2	66	42	66	2	32
YOL118C		60	38	96	0	4
YOL119C		50	30	89	4	7
YOL121C	RPS19A	60	43	94	2	4
YOL122C	SMF1	50	44	60	4	36
YOL124C	unknown	48	44	71	2	27
YOL125W	unknown	35	66	76	7	17
YOL126C	MDH2	19	26	59	13	28
YOL128C	YGK3	49	49	81	5	14
YOL129W	VPS68	40	33	67	4	29






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOL131W		68	35	83	2	15
YOL132W		47	40	86	2	13
YOL136C	PFK27	32	72	90	0	10
YOL137W	BSC6	39	44	88	4	8
YOL138C	unknown	40	58	86	0	14
YOL141W		49	37	82	12	6
YOL143C	RIB4	51	24	71	4	25
YOL147C		42	29	86	2	12
YOL148C		56	34	75	8	17
YOL150C	unknown	34	6	82	4	14
YOL151W		52	31	88	0	12
YOL151W		57	35	84	5	11
YOL152W		63	38	90	0	10
YOL152W		60	28	96	2	2
YOL153C		35	26	82	9	9
YOL155C	unknown	64	33	70	15	15
YOL158C		62	26	88	0	12
YOL159C		58	36	84	8	8
YOL160W		45	40	74	8	18
YOL162W	unknown	31	32	94	0	6
YOL163W	unknown	22	18	86	0	14
YOR001W	RRP6	56	34	69	15	16
YOR002W	ALG6	34	47	84	7	9
YOR003W		66	35	78	2	20
YOR005C	DNL4	28	46	68	2	30
YOR006C		40	40	84	5	11
YOR007C		61	34	76	5	19
YOR008C		71	31	77	4	19
YOR008C-A	unknown	30	17	75	5	20
YOR009W		65	29	73	4	23
YOR010C	TIR2	59	44	82	7	11
YOR011W	AUS1	66	42	87	2	11
YOR012W		42	21	79	4	17
YOR013W		57	21	81	4	15
YOR014W	RTS1	34	38	77	6	17
YOR015W		54	31	86	0	14
YOR016C		54	22	82	6	12
YOR017W		52	33	86	2	12
YOR018W		59	31	96	0	4
YOR019W	unknown	48	48	83	4	13
YOR021C		67	25	88	2	10
YOR022C		52	33	86	0	14
YOR023C		64	19	77	7	16
YOR024W		45	38	78	11	11
YOR025W		38	34	81	0	19
YOR026W	BUB3	52	27	62	2	36






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOR027W		36	42	84	0	16
YOR028C		44	41	90	0	10
YOR029W	unknown	18	39	77	7	16
YOR030W	DFG16	30	17	98	2	0
YOR031W	CRS5	17	36	79	6	15
YOR032C		56	39	87	6	7
YOR033C	EXO1	52	42	80	4	16
YOR034C		42	14	84	5	11
YOR035C		51	22	88	2	10
YOR036W		49	16	96	0	4
YOR037W		64	23	94	2	4
YOR038C		43	26	81	2	17
YOR039W	CKB2	43	37	73	17	10
YOR040W		65	18	81	4	15
YOR041C		59	19	85	0	15
YOR042W	CUE5	47	49	85	4	11
YOR043W	WHI2	22	45	81	2	17
YOR044W		58	36	83	2	15
YOR045W	TOM6	43	51	81	6	13
YOR047C		61	38	85	4	11
YOR049C		51	24	94	2	4
YOR050C		69	32	84	7	9
YOR051C		44	36	86	6	8
YOR052C	unknown	34	32	77	8	15
YOR053W	unknown	66	42	94	2	4
YOR054C		35	37	96	4	0
YOR055W	unknown	57	44	66	10	24
YOR058C	ASE1	17	35	90	0	10
YOR059C		58	36	83	4	13
YOR061W	CKA2	30	30	78	2	20
YOR062C	unknown	54	28	70	7	23
YOR064C	YNG1	48	54	85	0	15
YOR065W	CYT1	17	24	88	4	8
YOR066W		64	39	84	4	12
YOR067C	ALG2	69	51	96	2	2
YOR068C	unknown	42	69	79	0	21
YOR069W	VPS5	60	52	84	0	16
YOR070C	GYP1	55	45	77	2	21
YOR071C	unknown	63	46	75	4	21
YOR072W	unknown	27	48	83	4	13
YOR073W	unknown	54	30	36	32	32
YOR076C		68	32	85	5	10
YOR078W	BUD21			73	0	27
YOR079C		53	34	75	4	21
YOR080W	CYT1	17	0	88	0	13
YOR081C	STC2	62	45	82	2	16






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOR082C	unknown	53	55	92	0	8
YOR083W	WHI5	36	44	68	7	25
YOR084W	unknown	33	36			
YOR085W	OST3	56	43	88	2	10
YOR086C		61	31	77	7	16
YOR087W		36	39	71	7	22
YOR088W		43	37	79	9	12
YOR089C		39	31	80	5	15
YOR090C	PTC5	4	50	95	0	5
YOR091W		57	23	87	2	11
YOR092W		51	29	79	6	15
YOR093C		64	34	94	3	3
YOR094W		58	38	83	0	17
YOR096W	RPS7A	42	36	60	18	22
YOR097C	unknown	23	13	64	15	21
YOR099W		56	32	84	2	14
YOR100C		47	19	84	0	16
YOR101W		57	37	85	4	11
YOR104W		39	26	79	2	19
YOR105W		50	22	85	2	13
YOR106W		52	29	87	6	7
YOR107W		49	24	86	6	8
YOR108W		59	24	86	4	10
YOR109W		48	27	93	2	5
YOR111W		46	22	79	4	17
YOR112W		47	23	88	2	10
YOR113W		68	34	82	0	18
YOR114W		62	27	88	4	8
YOR115C		55	18	88	5	7
YOR118W		48	31	87	4	9
YOR120W		44	30	86	2	12
YOR121C	unknown	80	43	86	2	12
YOR123C		61	28	82	0	18
YOR124C		37	32	85	0	15
YOR125C	CAT5	26	27	69	10	21
YOR126C		51	25	96	0	4
YOR127W		57	40	70	9	21
YOR128C		44	30	83	2	15
YOR129C		55	35	86	2	12
YOR130C		63	41	88	2	10
YOR131C		52	27	84	4	13
YOR132W		41	39	79	4	17
YOR133W		39	21	71	8	21
YOR134W		38	18	85	5	10
YOR135C	unknown	34	26	67	4	29
YOR136W	IDH2	24	46	78	0	22






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOR137C		44	25	87	4	9
YOR138C		39	28	76	5	19
YOR139C	unknown	55	33	69	6	25
YOR140W	SFL1	51	31	42	0	58
YOR141C		44	34	80	8	12
YOR142W		55	31	89	7	4
YOR144C		42	12			
YOR147W	MDM32	29	45	79	4	17
YOR150W	MRPL23	18	22	92	0	8
YOR152C		46	30	75	4	21
YOR153W		65	29	74	7	19
YOR154W		66	33	90	4	6
YOR155C		49	29	83	2	15
YOR156C		45	33	88	8	4
YOR158W	PET123	26	12	82	7	11
YOR161C		55	27	86	0	14
YOR162C		38	24	89	2	9
YOR163W		72	35	83	6	11
YOR164C		57	28	82	7	11
YOR165W	unknown	49	31	66	5	29
YOR166C	unknown	70	30	71	4	25
YOR167C		36	31	75	6	19
YOR170W		44	16	86	0	14
YOR171C		50	28	92	0	8
YOR172W		44	20	77	9	14
YOR173W		40	25	79	3	18
YOR175C		44	30	89	0	11
YOR177C	MPC54	3	33			
YOR178C	GAC1	33	33	72	5	23
YOR179C		63	25	79	4	17
YOR180C		56	29	82	9	9
YOR182C	RSP30B	24	54	91	0	9
YOR183W		48	10	86	2	13
YOR184W	SER1	21	19	91	5	4
YOR185C	GSP2	17	41	76	5	19
YOR186W		39	21	88	2	10
YOR187W	TUF1	50	44	69	4	27
YOR188W		56	30	96	4	0
YOR189W	IES4	42	14	65	10	25
YOR190W		47	30	82	11	7
YOR191W	RIS1	43	51	77	6	17
YOR192C		52	33	82	7	11
YOR193W	unknown	63	19	48	11	41
YOR195W	SLK19	53	25	65	23	12
YOR196C	LIP5	38	37	38	8	54
YOR197W		47	21	79	11	10






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOR198C	BFR1	33	12	71	7	22
YOR199W	unknown	33	33	71	7	22
YOR200W	unknown	33	42	61	9	30
YOR201C		55	32	93	0	7
YOR202W		59	34	82	9	9
YOR205C		58	31	79	8	13
YOR208W		58	22	86	4	10
YOR209C		65	35	76	7	17
YOR211C		44	39	87	5	8
YOR212W	STE4					
YOR213C	SAS5	27	44	88	4	8
YOR214C		58	38	87	4	9
YOR215C		69	35	88	0	12
YOR216C		51	24	87	1	12
YOR219C	STE12					
YOR220W		52	21	82	2	16
YOR221C	MCT1	63	30	70	4	26
YOR222W		41	29	79	4	17
YOR223W		43	16	77	8	15
YOR225W	unknown	38	47	80	12	8
YOR226C		68	31	92	2	6
YOR227W		69	28	85	7	8
YOR228C	unknown	40	49	90	1	9
YOR229W	WTM2	44	25	77	7	16
YOR230W	WTM1	70	30	69	5	26
YOR231W		56	23	91	2	7
YOR233W		75	23	85	4	11
YOR234C		46	24	90	4	6
YOR235W		50	16	96	2	2
YOR237W		58	36	85	2	13
YOR238W		61	38	82	10	8
YOR239W	ABP140	37	49	88	0	12
YOR240W	unknown	40	43	71	7	22
YOR241W	MET7	28	36	87	0	13
YOR242C	SSP2	1	0			
YOR243C	PUS7	30	47	89	0	11
YOR245C		59	37	79	6	15
YOR246C	unknown	47	40	69	2	29
YOR247W		45	31	89	0	11
YOR248W		43	28	88	8	4
YOR251C	unknown	29	41	96	0	4
YOR252W		49	33			
YOR253W	ARD2	62	31	65	0	35
YOR255W	unknown	28	61	92	0	8
YOR258W	HNT3	27	56	9	0	91
YOR263C	unknown	53	46	87	4	9






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOR264W	DSE3	42	43	87	0	13
YOR265W	RBL2	62	44	84	12	4
YOR266W	PNT1	55	42	87	4	9
YOR267C		61	25	92	2	6
YOR268C		37	30	88	4	8
YOR269W		55	36	87	5	8
YOR270C		53	32	86	2	12
YOR271C		55	25	82	6	13
YOR273C		79	33	76	8	16
YOR274W		62	16	80	8	13
YOR275C	RIM20	21	48	62	2	36
YOR276W		60	35	80	12	8
YOR277C	unknown	46	33	73	0	27
YOR279C	RFM1	25	28	92	0	8
YOR280C		52	40	94	0	6
YOR283W		44	30	94	0	6
YOR284W		44	25	88	0	12
YOR285W		43	19	95	0	5
YOR286W		52	38	94	2	4
YOR288C	MPD1	51	45	96	2	2
YOR289W		79	22	96	0	4
YOR290C	SNF2	83	19	56	5	39
YOR291W	unknown	27	30	53	7	40
YOR292C		54	29	79	0	21
YOR293W		66	18	86	0	14
YOR295W		70	24			
YOR296W		62	23	87	0	13
YOR297C		42	14	82	0	18
YOR298C-A	MBF1	66	20	71	6	23
YOR298C-A	MBF1	57	53	80	10	10
YOR298W	unknown	25	28	83	0	17
YOR299W		68	14	91	0	9
YOR300W	unknown	34	35	73	2	25
YOR300W		82	23	91	0	9
YOR301W		68	35	84	0	16
YOR302W		72	32	71	12	17
YOR302W		60	18	94	2	4
YOR303W		76	10	91	0	9
YOR303W	CPA1	77	51	92	6	2
YOR304C-A		70	29	91	0	9
YOR304W	ISW2	68	18	40	0	60
YOR305W		35	17	98	0	2
YOR306C	MCH5	52	23	65	9	26
YOR306C		70	23	93	0	7
YOR307C		61	34	90	0	10
YOR308C		78	27	98	0	2






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOR309C		37	40	88	4	8
YOR309C		58	17	98	0	2
YOR311C		67	12	94	0	6
YOR312C		74	11	84	0	16
YOR313C		74	25	86	0	14
YOR314W		50	14	94	0	6
YOR315W		75	21	88	0	13
YOR316C		37	11	91	0	9
YOR317W	FAA1	51	25	72	4	24
YOR318C		53	26	70	10	20
YOR320C		67	18	95	0	5
YOR321W	PMT3	32	16	90	0	10
YOR322C		76	20	98	0	2
YOR323C		71	11	95	0	5
YOR324C		62	26	83	4	13
YOR325W		55	25	86	0	14
YOR327C		59	34	86	0	14
YOR328W		56	9	94	0	6
YOR330C		62	23	78	0	22
YOR331C	unknown	65	20	50	5	45
YOR332W		47	13	83	0	17
YOR333C	SWF5	19	21	86	0	14
YOR334W	MRS2	54	2	70	0	30
YOR337W		56	23	94	0	6
YOR338W		72	25	88	0	13
YOR339C	UBC11	36	25	75	0	25
YOR342C		79	10	89	0	11
YOR343C		88	25	94	0	6
YOR344C		45	20	95	0	5
YOR345C	unknown	79	13	76	13	11
YOR346W		84	12	92	0	8
YOR347C		75	23	95	0	5
YOR348C		70	19	98	0	2
YOR349W		40	23	90	0	10
YOR350C		54	20	84	0	16
YOR351C	MEK1	31	16	88	0	12
YOR352W		78	22	92	0	8
YOR354C		74	13	81	0	19
YOR355W		51	22	77	3	20
YOR356W		72	22	82	4	14
YOR357C		50	18	91	0	9
YOR358W	HAP5	40	93			
YOR359W		67	13			
YOR360C		75	17	80	9	11
YOR363C		66	29	91	0	9
YOR364W	unknown	29	34	78	10	13






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YOR364W		43	35	92	2	6
YOR365C	unknown	32	31	89	0	11
YOR366W	unknown	48	21	46	11	43
YOR367W		81	9	88	0	13
YOR368W	RAD17	50	4	70	0	30
YOR371C		68	24	82	4	14
YOR374W		69	16	89	0	11
YOR375C	GDH1	66	29	58	0	42
YOR376W		56	13	83	0	17
YOR377W		62	24	84	6	10
YOR378W		81	7	88	0	13
YOR379C		43	12	91	0	9
YOR380W		78	14	94	2	4
YOR381W		75	29	91	0	9
YOR382W		48	10	82	4	14
YOR383C		81	11	94	0	6
YOR384W		84	29	91	0	9
YOR385W		84	13	78	0	22
YOR386W		70	17	67	10	23
YPL001W	HAT1					
YPL002C	SNF8	30	20	77	0	23
YPL003W		43	30	78	2	20
YPL004C	LSP1					
YPL005W	unknown	33	18	76	8	16
YPL006W		51	39	94	4	2
YPL008W	CHL1			71	10	19
YPL009C	unknown	26	27	88	5	8
YPL013C	MRPS16	29	31	81	3	16
YPL014W	unknown	31	35	80	8	12
YPL015C		54	13	79	9	13
YPL017C		47	13	74	8	18
YPL017C		52	23	74	10	16
YPL018W	CTF19	19	50	88	4	8
YPL019C	VTC3	22	45	88	8	4
YPL021W		55	29	85	0	15
YPL022W	RAD1	36	74	90	4	6
YPL023C		49	31	74	8	18
YPL024W	NCE4	46	24	71	2	27
YPL025C		58	40	83	2	15
YPL026C		66	12	85	4	11
YPL027W	SMA1	32	31	72	11	17
YPL029W		46	35	82	2	16
YPL030W		41	12	77	4	19
YPL031C	PHO85	30	23	64	14	22
YPL032C		35	23	90	4	6
YPL033C		44	11	90	4	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YPL034W		58	19	86	4	10
YPL035C	unknown	25	16	63	6	31
YPL036W		45	33	92	2	6
YPL037C	EGD1	25	24	78	4	18
YPL038W	MET31	43	23	68	13	19
YPL039W		47	21	74	6	20
YPL040C	ISM1	21	24	66	10	24
YPL041C	unknown	40	28	66	10	24
YPL042C	SSN3	57	44	87	2	11
YPL046C		43	16	79	5	16
YPL047W	unknown	54	19	63	11	26
YPL048W		49	24	84	6	10
YPL049C	DIG1	30	30	73	7	20
YPL051W		40	23	84	4	13
YPL052W	unknown	33	21	65	5	30
YPL053C		49	24	86	0	14
YPL054W		42	24	73	10	17
YPL055C	LGE1	44	23	74	2	24
YPL056C	unknown	33	36	81	0	19
YPL057C	SUR1	34	35	87	2	11
YPL058C		40	13	86	4	10
YPL059W		57	12	81	4	15
YPL060W	LPE10	29	14	82	2	16
YPL061W	ALD6	29	28	90	6	4
YPL062W	unknown	32	16	70	4	26
YPL064C		42	26	88	0	12
YPL065W		59	29	86	2	12
YPL066W		46	28	74	6	20
YPL067C		44	30	80	7	13
YPL068C	unknown	32	9	84	10	6
YPL069C		42	26	90	4	6
YPL070W	MUK1	31	35	84	8	8
YPL071C	unknown	40	20	44	4	52
YPL072W	UBP16	31	39	83	0	17
YPL073C		36	14	90	0	10
YPL074W	YTA6	25	8	74	4	22
YPL077C	unknown	33	39	70	4	26
YPL078C	ATP4	52	23	17	12	71
YPL078C	ATP4	73	22	74	2	24
YPL079W		41	20	74	6	20
YPL080C	unknown	34	24	84	4	12
YPL081W		53	36	76	10	14
YPL084W		39	23	80	5	15
YPL086C	ELP3					
YPL087W	YDC1	28	18	80	4	16
YPL088W	unknown	31	23	74	2	24






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YPL089C	RLM1	34	21	79	6	15
YPL090C		40	5	78	4	18
YPL091W	GLR1	34	15	68	4	28
YPL092W		47	28	92	4	4
YPL095C		60	38	89	4	7
YPL096W		66	23	84	0	16
YPL097W		57	19	80	4	16
YPL098C		44	30	80	9	11
YPL099C	FMP14	42	38	67	5	28
YPL100W		55	33	84	5	11
YPL101W		65	40	75	4	21
YPL102C		61	31	86	7	7
YPL103C		44	18	88	7	5
YPL104W		56	38	94	2	4
YPL105C		65	20	96	2	2
YPL106C		73	27	84	0	16
YPL107W		49	33	74	5	21
YPL108W	unknown	74	53	77	6	17
YPL109C		61	28	83	12	5
YPL110C		47	30	83	5	13
YPL111W	CAR1	67	28	69	8	23
YPL112C	PEX25	13	69	61	2	37
YPL113C		51	22	87	2	11
YPL114W	unknown	61	21	70	5	25
YPL115C	BEM3					
YPL116W		36	22			
YPL118W	MRP51	59	44	88	3	9
YPL119C		56	41	81	5	14
YPL120W	VPS30	3	33			
YPL121C	MEI5	2	100			
YPL123C		62	31	90	4	6
YPL125W	KAP120	14	36	82	9	9
YPL127C		43	28	87	5	8
YPL129W	TAF14	51	37	44	11	45
YPL130W	SPO19	20	75	70	10	20
YPL132W	COX11	38	42	79	4	17
YPL133C		66	39	76	2	22
YPL134C	ODC1	44	43	78	6	16
YPL135W		43	37	70	9	21
YPL136W	unknown	30	57	77	2	21
YPL137C		70	39	90	4	6
YPL138C	SPP1	64	25	61	2	38
YPL139C	UME1	49	55	89	2	9
YPL140C		52	35	74	7	19
YPL141C	unknown	57	44	87	4	9
YPL144W	unknown	45	20	92	0	8

ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YPL145C		40	30	87	2	11
YPL147W	PXA1	29	38	61	17	22
YPL148C	PPT2	45	13	69	4	27
YPL149W	APG5	9	0	83	5	13
YPL150W		65	14	88	2	10
YPL152W		51	33	84	9	7
YPL154C		35	29	75	4	21
YPL155C	KIP2	40	48	75	6	19
YPL156C	PRM4	63	46	94	2	4
YPL157W	TGS1	30	40	63	2	35
YPL158C		64	30	76	12	12
YPL159C		49	31	88	4	8
YPL161C		62	29	88	7	5
YPL162C		57	40	77	6	17
YPL163C		48	42	73	6	21
YPL164C	MLH3	42	43	91	2	7
YPL165C	SET6	65	48	84	4	12
YPL166W	unknown	52	52	88	2	10
YPL167C	REV3	41	44	67	6	27
YPL168W	unknown	56	46	88	5	7
YPL170W		46	15	88	2	10
YPL171C		53	40	98	0	2
YPL172C	COX10	12	75	83	4	13
YPL173W	MRPL40	28	43	83	4	13
YPL174C	NIP100	59	34	71	4	25
YPL176C		55	30	75	5	20
YPL177C	CUP9	38	37	67	9	24
YPL178W		35	26	2	0	98
YPL179W		37	27	83	2	15
YPL180W		44	36	86	4	10
YPL181W		56	34	94	2	4
YPL182C		62	34	92	4	4
YPL183C		55	27	80	0	20
YPL183W-A		58	40	74	4	22
YPL183W-A		83	29	88	2	10
YPL184C	unknown					
YPL185W		43	40	83	4	13
YPL186C		54	19	79	9	12
YPL188W	POS5	56	36	73	4	23
YPL189W		40	25	78	8	14
YPL189W		79	6	86	4	10
YPL191C	unknown	88	25	70	7	23
YPL192C		79	23	81	4	15
YPL193W		62	32	88	2	10
YPL194W	DDC1	62	28	59	9	32
YPL194W	DDC1	33	30	78	4	18

ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YPL195W		71	20	94	0	6
YPL196W		87	11	86	2	12
YPL197C		89	19	92	4	4
YPL198W		60	13	83	5	12
YPL199C		70	17	88	2	10
YPL200W		47	13	82	6	12
YPL201C		81	14	94	0	6
YPL202C	AFT2	84	13	72	11	17
YPL203W		72	28	90	6	4
YPL205C	unknown	11	27	72	10	18
YPL206C		53	34	90	0	10
YPL207W		53	32	92	0	8
YPL208W	unknown	32	13	82	5	13
YPL212C		54	20	87	2	11
YPL213W		79	18	94	0	6
YPL214C		62	27	86	2	12
YPL215W		35	31	92	0	8
YPL216W		83	18	97	0	3
YPL219W		46	35	76	4	20
YPL220W		66	20	90	5	5
YPL221W		53	24	84	6	10
YPL222W		57	18	84	9	7
YPL223C		52	28	88	8	4
YPL224C		49	41	80	8	12
YPL225W		79	14	90	0	10
YPL226W		37	27	83	5	12
YPL227C	ALG5	82	13	75	0	25
YPL229W		81	10	86	6	8
YPL230W	unknown	26	19	94	2	4
YPL232W	SSO1	6	50			
YPL234C		75	25	81	4	15
YPL236C		71	23	67	12	21
YPL239W		56	18	88	0	12
YPL240C		70	11	76	7	17
YPL241C		77	20	88	5	7
YPL244C		80	13			
YPL245W		51	20	95	0	5
YPL246C		67	21	94	0	6
YPL247C		60	37	94	0	6
YPL248C	GAL4	40	28	65	9	26
YPL249C	GYP5	66	18	86	10	4
YPL250C		56	20	94	0	6
YPL253C		61	13	90	4	6
YPL256C		72	8	77	0	23
YPL257W		53	26	90	0	10
YPL258C		69	23	85	4	11

ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YPL259C		57	14	94	0	6
YPL260W	unknown	74	14	62	17	21
YPL261C		69	19	96	2	2
YPL262W		50	22	79	7	14
YPL263C	KEL3	69	14	64	7	29
YPL264C	unknown	52	29	68	13	19
YPL265W		77	16	82	7	11
YPL267W		75	17	86	0	14
YPL268W		67	33	94	2	4
YPL269W		66	17	84	8	8
YPL270W		75	23	87	0	13
YPL271W	ATP15	31	23	92	0	8
YPL272C		79	14	81	5	14
YPL273W		61	18	87	5	8
YPL274W		68	32	87	2	11
YPR001W		45	27	69	9	22
YPR002W		52	27			
YPR003C	unknown	25	20	89	2	9
YPR004C		57	39	78	8	14
YPR005C		38	29	86	10	4
YPR006C		52	27	86	6	8
YPR007C	REC8	8	38	84	4	12
YPR008W		66	41	87	6	7
YPR009W		56	23	86	2	12
YPR011C		61	38	78	4	18
YPR012W		68	22	90	4	6
YPR013C		43	28	88	4	8
YPR014C		45	31	86	0	14
YPR015C		43	30	92	6	2
YPR018W	RLF2	63	33	87	3	10
YPR020W	unknown	32	38	93	3	4
YPR021C		57	35	76	6	18
YPR022C		56	29	86	6	8
YPR023C		35	37	80	4	16
YPR024W		38	29	79	6	15
YPR026W		39	33	84	10	6
YPR027C		58	28	82	7	11
YPR028W	YOP1	34	24	88	6	6
YPR029C		78	32	81	4	15
YPR030W		50	32	89	4	7
YPR031W		61	33	80	4	16
YPR032W		46	17	88	8	4
YPR036W	VMA13	59	41	36	4	60
YPR037C		51	33	92	6	2
YPR038W		56	41	92	0	8
YPR039W		52	35	94	2	4

ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YPR040W		58	36	84	5	11
YPR042C		53	23	93	2	5
YPR043W		64	39	93	0	7
YPR044C	unknown	76	54	98	0	2
YPR045C		56	21	79	0	21
YPR046W	MCM16	33	21	84	4	12
YPR047W		45	31	76	4	20
YPR049C	CVT9	33	52	82	8	10
YPR050C		43	30	86	4	10
YPR051W		57	25	94	4	2
YPR052C		57	33	86	12	2
YPR053C	unknown	4	50	90	4	6
YPR054W	SMK1	18	11	65	14	21
YPR057W		51	37	82	0	18
YPR058W		63	33	88	2	10
YPR059C	unknown	48	38	84	5	11
YPR060C	ARO7	40	48	76	4	20
YPR061C		69	39	96	0	4
YPR062W		52	38	86	6	8
YPR063C		54	31	83	2	15
YPR064W	unknown	45	44	80	4	16
YPR065W		54	31	90	6	4
YPR066W	UBA3	24	50	92	2	6
YPR067W	ISA2	38	34	68	6	26
YPR068C		60	33	75	12	13
YPR069C	SPE3	50	47	82	2	16
YPR070W	MED1	55	47	53	9	38
YPR071W		52	23	90	3	7
YPR072W	NOT5					
YPR073C		38	34	86	7	7
YPR074C		79	29	79	6	15
YPR075C		59	29	92	3	5
YPR076W		53	40	90	4	6
YPR077C	unknown	34	38	94	2	4
YPR078C		68	22	86	8	6
YPR079W	MRL1	60	43	90	0	10
YPR083W	MDM36	60	45	75	0	25
YPR084W	unknown	50	44	89	4	7
YPR087W		39	33	96	2	2
YPR089W		53	25	84	9	7
YPR090W		47	28	94	3	3
YPR091C		55	24	85	0	15
YPR092W		48	42	88	8	4
YPR093C	unknown	58	50	91	4	5
YPR095C		58	28	98	0	2
YPR096C		61	33	84	4	12

ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YPR097W		50	30	86	8	6
YPR098C		44	41	92	0	8
YPR099C		41	20	92	2	6
YPR100W	MRPL51	36	53	92	4	4
YPR101W		36	17	93	5	2
YPR106W		42	21	76	5	19
YPR109W		57	12	90	4	6
YPR111W		40	25	84	12	4
YPR114W		68	10	90	2	8
YPR115W		69	13	86	12	2
YPR116W	unknown	34	21	78	13	9
YPR117W		53	21	81	5	14
YPR118W		35	11	88	2	10
YPR119W		65	9	92	2	6
YPR120C		11	36			
YPR121W		49	18	89	2	9
YPR122W		49	27	84	10	6
YPR123C		49	18	98	0	2
YPR124W		62	13	87	0	13
YPR125W		42	36	80	12	8
YPR126C		51	31	89	5	6
YPR127W		64	27	94	2	4
YPR128C		45	20	86	10	4
YPR129W		66	33	95	1	4
YPR130C		51	16	88	5	7
YPR131C		64	19	86	8	6
YPR132W		52	23			
YPR133W-A		66	21	78	4	18
YPR134W		47	23	85	0	15
YPR135W		36	36	94	2	4
YPR138C		60	28	93	5	2
YPR139C	VPS66	43	28	67	21	13
YPR140W		48	33	94	2	4
YPR141C	KAR3	24	21	88	12	0
YPR145W		55	15	88	6	6
YPR146C		42	17	78	5	17
YPR147C		55	27	90	6	4
YPR148C	unknown	49	12	80	20	0
YPR149W	NCE102	57	26	84	14	2
YPR150W		50	16	92	6	2
YPR151C		74	34	92	2	6
YPR152C		54	30	89	2	9
YPR153W		68	29	84	8	8
YPR154W	PIN3	35	14	73	11	16
YPR155C		38	26	88	10	2
YPR156C		57	32	92	2	6






ORF	Gene	% Spores	% Dyads		 or 	 or 
				4	3	2
YPR157W		47	19	98	0	2
YPR158W		44	23	94	2	4
YPR159W		38	24	4	4	92
YPR160W		53	26	86	8	6
YPR163C	TIF3	22	18	17	7	76
YPR164W	MMS1	58	29	85	13	2
YPR166C		36	17	7	2	91
YPR167C		42	29	85	4	11
YPR170C		57	21	92	2	6
YPR171W		41	22	88	4	8
YPR172W	unknown	52	21	82	14	4
YPR173C		43	12	90	8	2
YPR174C		64	23	89	9	2
YPR179C		42	7	86	2	13
YPR184W		42	17	94	6	0
YPR185W	ATG13	26	19	83	0	17
YPR188C		54	17	90	6	4
YPR189W		50	36	94	4	2
YPR191W		52	23	86	6	8
YPR192W		67	19	80	8	12
YPR193C		53	6	91	4	5
YPR194C		56	11	89	4	7
YPR195C		51	16	94	2	4
YPR196W		66	30	85	9	6
YPR197C		37	16	76	12	12
YPR198W		50	26	88	8	4
YPR199C		73	23	92	4	4
YPR200C		51	22	90	6	4
YPR201W		60	28	89	4	7

Table S2. Mutants that are defective in spore formation¹

ORF	Gene	%S ²	ORF	Gene	%S ²	ORF	Gene	%S ²	ORF	Gene	%S ²
YGL107C	RMD9	0	YNL081C	unknown	6	YPL205C	unknown	11	YML014W	unknown	15
YGL180W	APG1	0	YBR045C	GIP1	6	YBR057C	MUM2	11	YEL020C	unknown	15
YGR225W	AMA1	0	YGL124C	MON1	6	YBR073W	RDH54	11	YLR087C	CSF1	15
YGR226C	unknown	0	YNL184C	unknown	6	YHR079C-B	SAE3	11	YIL015W	BAR1	15
YHL038C	CBP2	0	YPL232W	SSO1	6	YPR120C	CLB5	11	YHR151C	unknown	15
YJL184W	unknown	0	YNL242W	SPO72	6	YFR019W	FAB1	12	YNL012W	SPO1	15
YMR159C	APG16	1	YHR153C	SPO16	7	YIL072W	HOP1	12	YDR098C	GRX3	15
YGL170C	SPO74	1	YGL125W	MET1	7	YDR075W	PPH3	12	YGR143W	SKN1	16
YHR184W	SSP1	1	YDR104C	SPO71	7	YIL044C	AGE2	12	YIL122W	POG1	16
YIR025W	MND2	1	YMR008C	PLB1	7	YPL172C	COX10	12	YJR031C	GEA1	16
YOR242C	SSP2	1	YJL106W	IME2	7	YNR006W	VPS27	12	YLR377C	FBP1	16
YLL041C	SDH2	2	YLR091W	unknown	7	YHR167W	THP2	12	YDL044C	MTF2	16
YMR017W	SPO20	2	YML066C	SMA2	7	YJR082C	EAF6	12	YML007W	YAP1	16
YMR037C	SCO1	2	YPR007C	REC8	8	YMR012W	CLU1	13	YOL071W	unknown	16
YGL175C	SAE2	2	YHL024W	RIM4	8	YNL225C	CNM67	13	YMR020W	FMS1	16
YNR049C	MSO1	2	YNL197C	WHI3	9	YMR014W	BUD22	13	YOR031W	CRS5	17
YPL121C	MEI5	2	YKL061W	unknown	9	YPL112C	PEX25	13	YIL018W	RPL2B	17
YLL042C	APG10	3	YPL149W	APG5	9	YIL084C	SDS3	13	YAL054C	ACS1	17
YGR051C	unknown	3	YMR158W-A	unknown	9	YGR178C	PBP1	13	YGR111W	unknown	17
YLL039C	UBI4	3	YLR203C	MSS51	9	YDR462W	MRPL28	13	YMR205C	PFK2	17
YMR257C	PET111	3	YBL078C	ATG8	9	YLL005C	SPO75	13	YMR173W-A	unknown	17
YOR177C	MPC54	3	YFR031C-A	RPL2A	9	YOL091W	SPO21	13	YDL089W	unknown	17
YPL120W	VPS30	3	YML012W	ERV25	10	YLL040C	VPS13	14	YOR185C	GSP2	17
YPR053C	unknown	4	YKL054C	DEF1	10	YHR077C	NMD2	14	YEL060C	PRB1	17
YOR090C	PTC5	4	YDR285W	ZIP1	10	YLL009C	COX17	14	YKL034W	TUL1	17
YJR094C	IME1	4	YHR120W	MSH1	10	YBL037W	APL3	14	YOR080W	CYT1	17
YLR099C	ICT1	5	YBL080C	PET112	10	YMR006C	PLB2	14	YOR058C	ASE1	17
YHR171W	ATG7	5	YER179W	DMC1	10	YML011C	unknown	14	YMR026C	PEX12	17
YMR183C	SSO2	5	YER180C	ISC10	10	YPL125W	KAP120	14	YOR065W	CYT1	17
YHR210C	unknown	5	YMR157C	unknown	11	YBR003W	COQ1	14	YDR529C	QCR7	17
YBR217W	APG12	5	YDR386W	MUS81	11	YFR021W	ATG18	14	YIL065C	FIS1	17
YDL149W	APG9	5	YKL100C	unknown	11	YNL146W	unknown	15	YJR079W	unknown	17
YDR371W	CTS2	17									
YLL038C	ENT4	17									
YBR100W	MMS4	17									
YBR099C	unknown	17									
YNL127W	unknown	18									
YDR231C	COX20	18									
YPR054W	SMK1	18									
YHR066W	SSF1	18									
YOR029W	unknown	18									
YBL012C	unknown	18									
YBR034C	HMT1	18									
YNL210W	MER1	18									
YMR214W	SCJ1	18									
YKR097W	PCK1	18									
YLR341W	SPO77	18									
YIL005W	EPS1	18									
YHR202W	unknown	18									
YKL051W	unknown	18									
YOR150W	MRPL23	18									
YKL006W	RPL14A	18									
YER011W	TIR1	18									
YBR290W	BSD2	18									
YJL013C	MAD3	18									
YKR049C	FMP46	18									

¹Yeast strains with sporulation efficiency that differed from the mean by more than 2 standard deviations are listed.

²%S, % Sporulation (dyads and tetrads).

Table S3. Mutants forming two spore asci¹




ORF	Gene	%S ²	%D ³	ORF	Gene	%S ²	%D ³	ORF	Gene	%S ²	%D ³	ORF	Gene	%S ²	%D ³
YHR152W	SPO12	42	93	YCR086W	CSM1	42	62	YAL027W	unknown	64	58	YNL080C	unknown	67	55
YOR358W	HAP5	40	93	YAL045C	unknown	57	61	YCL026C-A	FRM2	64	58	YIL132C	CSM2	29	55
YHR014W	SPO13	52	90	YAL023C	PMT2	49	61	YLR402W	unknown	45	58	YBR269C	unknown	78	55
YBL021C	HAP3	34	88	YMR279C	unknown	67	61	YBL001C	ECM15	78	58	YAL044C	GCV3	49	55
YDR042C	unknown	38	83	YNL082W	PMS1	59	61	YOL138C	unknown	40	58	YPL139C	UME1	49	55
YML084W	unknown	38	79	YAL012W	CYS3	69	61	YNL056W	unknown	47	57	YKL091C	unknown	40	55
YER106W	MAM1	32	78	YOR255W	unknown	28	61	YBR299W	MAL32	47	57	YFR013W	IOC3	40	55
YPL130W	SPO19	20	75	YCR028C-A	RIM1	56	61	YGR032W	GSC2	47	57	YBR289W	SNF5	80	55
YPL022W	RAD1	36	74	YBR272C	HSM3	66	61	YNL091W	NST1	61	57	YBR276C	PPS1	71	55
YAR031W	FUN58	38	74	YGL050W	unknown	63	60	YAL007C	ERP2	56	57	YCR032W	BPH1	73	55
YCR067C	SED4	41	73	YAL068C	unknown	40	60	YAL066W	unknown	56	57	YEL024W	RIP1	53	55
YLR227C	ADY4	50	72	YGR239C	PEX21	50	60	YKL126W	YPK1	63	57	YOR082C	unknown	53	55
YOL136C	PFK27	32	72	YML081W	unknown	50	60	YGR004W	unknown	63	57	YGR227W	DIE2	64	55
YOR068C	unknown	42	69	YIR018W	YAP5	69	60	YLR261C	VPS63	44	57	YNL065W	AQR1	33	55
YCR021C	HSP30	50	68	YLR364W	unknown	59	59	YNL139C	RLR1	30	57	YNL107W	YAF9	55	55
YDL019C	OSH2	28	68	YBR035C	PDX3	39	59	YPL136W	unknown	30	57	YNL087W	unknown	66	55
YML061C	PIF1	34	68	YIL161W	unknown	56	59	YAR028W	FUN56	60	57	YNL072W	RNH35	46	54
YNL281W	HCH1	46	67	YNL052W	COX5	68	59	YCR024C-A	PMPI	60	57	YAL030W	SNC1	46	54
YFR011C	unknown	36	67	YLR330W	CHS5	68	59	YML005W	unknown	53	57	YGR112W	SHY1	35	54
YGL105W	ARC1	77	66	YMR070W	MOT3	46	59	YIL177W	RPL17B	76	57	YNL274C	unknown	35	54
YBR058C	UBP14	47	66	YJR050W	ISY1	46	59	YKL201C	MNN4	55	56	YOR182C	RSP30B	24	54
YOL125W	unknown	35	66	YMR111C	unknown	75	59	YGR189C	CRH1	48	56	YBR090C	unknown	48	54
YDR260C	SWM1	20	65	YNL073W	MSK1	58	59	YAL020C	ATS1	64	56	YOR064C	YNG1	48	54
YBR286W	APE3	57	65	YIL066C	RNR3	58	59	YDR068W	DOS2	64	56	YNL011C	unknown	48	54
YIL166C	unknown	51	65	YNR021W	unknown	41	59	YNL095C	unknown	57	56	YMR062C	ARG7	85	54
YMR085W	unknown	53	64	YCR068W	CVT17	60	58	YCL074W	unknown	66	56	YKR009C	FOX2	37	54
YKR089C	unknown	33	64	YJR096W	AKR5F	72	58	YGR067C	unknown	25	56	YDR269C	unknown	50	54
YDR048C	unknown	44	64	YBL010C	unknown	55	58	YHR016C	YSC84	75	56	YPR044C	unknown	76	54
YIL139C	YUR1	66	64	YAL015C	NTG1	55	58	YLR337C	VRP1	52	56	YAL034C	FUN19	39	54
YDR403W	DIT1	24	63	YMR022W	UBC7	55	58	YOR258W	HNT3	27	56	YML087C	unknown	39	54
YLR146C	SPE4	46	63	YNL315C	ATP11	43	58	YNL109W	unknown	27	56	YAL031C	FUN21	52	54
YAL004W	unknown	45	62	YGR110W	unknown	62	58	YGR223C	unknown	45	56	YOL087C	unknown	52	54
YBR301W	DAN3	45	62	YDR350C	TCM10	60	58	YJR040W	GEF1	54	56	YNL078W	NIS1	65	54
YMR319C	FET4	74	62	YNL120C	unknown	69	58	YGR022C	unknown	63	56				
YDR455C	unknown	29	62	YAL055W	PEX22	38	58	YNL071W	LAT1	81	56				




¹Yeast strains that formed two-spored asci at a frequency that differed from the mean by more than 2 standard deviations are listed. Mutants that failed to sporulate were excluded from this analysis.

²%S, % Sporulation (total percentage of spores formed (dyads and tetrads)). ³%D, %Dyads (percent.tage of asci that were dyads).

Table S4. Mutants exhibiting an increase in asci with GFP dots in two of the four spores¹.





ORF	Gene							ORF	Gene							ORF	Gene						
YJL088W	ARG3	28	3	69	28	3	69	YJL103C	RTG3	50	3	47	50	3	47	YNL054W	VAC7	47	11	42	47	11	42
YJR090C	GRR1	30	2	69	30	2	69	YDL047W	SIT4	49	4	47	49	4	47	YDR071C	unknown	55	4	42	55	4	42
YGL135W	RPL1b	30	2	68	30	2	68	YHR009C	unknown	47	6	47	47	6	47	YIL086C	unknown	45	13	42	45	13	42
YOL086C	ADH1	26	6	68	26	6	68	YEL012W	UBC8	51	2	47	51	2	47	YGR134W	CAF130	53	6	42	53	6	42
YMR032W	HOF1	31	2	67	31	2	67	YNL213C	unknown	53	0	47	53	0	47	YKL055C	OAR1	54	5	41	54	5	41
YER055C	HIS1	20	16	65	20	16	65	YMR230W	RPS10B	46	8	46	46	8	46	YOR193W	unknown	48	11	41	48	11	41
YLR420W	URA4	33	4	63	33	4	63	YBL090W	MRP21	47	7	46	47	7	46	YNR010W	CSE2	55	5	41	55	5	41
YER106W	MAM1	38	0	63	38	0	63	YDL066W	IDP1	45	9	45	45	9	45	DRS2	DRS2	49	10	41	49	10	41
YEL023C	unknown	40	0	60	40	0	60	YMR054W	STV1	55	0	45	55	0	45	YAL059W	ECM1	30	30	41	30	30	41
YOR304W	ISW2	40	0	60	40	0	60	YGR025W	unknown	55	0	45	55	0	45	YFL019C	unknown	50	9	41	50	9	41
YPR036W	VMA13	37	4	60	37	4	60	YOR331C	unknown	50	5	45	50	5	45	YLR084C	RAX2	56	4	40	56	4	40
YMR100W	MUB1	31	10	59	31	10	59	YPL129W	TAF14	45	11	45	45	11	45	YOR291W	unknown	53	7	40	53	7	40
YHL022C	SPO11	41	0	59	41	0	59	YJL169W	unknown	50	6	44	50	6	44	YIL002C	INP51	48	11	40	48	11	40
YOR140W	SFL1	42	0	58	42	0	58	YLR286C	CTS1	48	8	44	48	8	44	YJL066C	MPM1	60	0	40	60	0	40
YCR060W	unknown	42	0	58	42	0	58	YNL273W	TOF1	44	12	44	44	12	44	YLR056W	ERG3	54	6	40	54	6	40
YEL003W	GIM4	43	0	57	43	0	57	YJL131C	unknown	51	6	44	51	6	44	YIR021W	MRS1	54	6	40	54	6	40
YNL291C	MID1	40	4	56	40	4	56	YGL151W	NUT1	49	7	44	49	7	44	YJL217W	unknown	60	0	40	60	0	40
YBR032W	unknown	35	9	56	35	9	56	YFR040W	SAP155	46	11	43	46	11	43	YML018C	unknown.	50	10	40	50	10	40
YCL014W	BUD3	37	7	56	37	7	56	YMR142C	RPL13b	30	26	43	30	26	43	YER173W	RAD24	59	2	40	59	2	40
YMR174C	PAI3	41	4	55	41	4	55	YMR158W	MRPS8	57	0	43	57	0	43	YEL033W	unknown	60	0	40	60	0	40
YOR196C	LIP5	38	8	54	38	8	54	YFL018C	LPD1	45	11	43	45	11	43	YOR290C	SNF2	56	5	39	56	5	39
YML095C-A	unknown	47	0	53	47	0	53	YEL018W	EAF5	55	2	43	55	2	43	YBR126C	TPS1	57	4	39	57	4	39
YAL048C	GON1	41	6	53	41	6	53	YCL016C	DCC1	49	8	43	49	8	43	YHL005C	unknown	57	4	39	57	4	39
YAL005C	SSA1	44	4	52	44	4	52	YMR048W	CSM3	55	2	43	55	2	43	YIL152W	unknown	61	0	39	61	0	39
YPL071C	unknown	44	4	52	44	4	52	YCR036W	RBK1	53	4	43	53	4	43	YBL045C	COR1	61	0	39	61	0	39
YJR030C	unknown	46	2	52	46	2	52	YBR285W	unknown	53	4	43	53	4	43	YMR175w	SIP18	61	0	39	61	0	39
YHL014C	unknown	48	0	52	48	0	52	YOR366W	unknown	46	11	43	46	11	43	YEL013W	VAC8	60	2	39	60	2	39
YEL027W	CUP5	49	0	51	49	0	51	YMR195W	ICY1	54	3	42	54	3	42	YNL185C	MRPL19	53	8	39	53	8	39
YNL140C	unknown	49	0	51	49	0	51	YOR375C	GDH1	58	0	42	58	0	42	YPR070W	MED1	53	9	38	53	9	38
YLR447C	VMA6	45	4	51	45	4	51	YBR090C	unknown	54	4	42	54	4	42	YNL160W	YGP1	62	0	38	62	0	38
YIR016W	unknown	50	0	50	50	0	50	YJR118C	ILM1	52	6	42	52	6	42	YCR047C	BUD23	46	16	38	46	16	38
YGL174W	BUD13	44	7	49	44	7	49	YFR024C	LSB3	50	8	42	50	8	42	YCR090C	unknown	56	6	38	56	6	38
YAL012W	CYS3	45	6	49	45	6	49	YGR255C	COQ6	53	4	42	53	4	42	YHL019C	APM2	63	0	38	63	0	38
YEL024W	RIP1	41	10	49	41	10	49	YIL093C	RSM25	56	2	42	56	2	42	YOL072W	THP1	63	0	38	63	0	38
YHR130C	unknown	48	4	48	48	4	48	YIR035C	unknown	52	6	42	52	6	42	YPL138C	SPP1	61	2	38	61	2	38
YMR242C	RPL20A	46	6	48	46	6	48	YER175C	unknown	56	2	42	56	2	42	YDR448W	ADA2	51	12	37	51	12	37





ORF	Gene			
YER068W	MOT2	52	10	37
YMR185W	unknown	63	0	37
YMR179W	SPT21	59	4	37
YHL042W	unknown	63	0	37
YJL080C	SCP160	61	2	37
YBL094C	unknown	60	3	37
YIL088C	AVT7	61	2	37
YJR039W	unknown	60	4	37
YDL129W	unknown	64	0	36
YOR275C	RIM20	62	2	36
YNL243W	SLA2	54	10	36
YBR162C	TOS1	64	0	36
YOL122C	SMF1	60	4	36
YHR147C	MRPL6	62	2	36
YNL064C	YDJ1	60	4	36
YOR026W	BUB3	62	2	36
YGR159C	NSR1	56	8	36
YJL179W	PFD1	64	0	36
YOR253W	ARD2	65	0	35
YER167W	BCK2	65	0	35
YIL045W	PIG2	65	0	35
YER052C	HOM3	64	1	35
YNL072W	RNH35	53	12	35
YER090W	TRP2	63	2	35
YGR031W	unknown	63	2	35
YPL157W	TGS1	63	2	35
YNL297C	MON2	59	6	34
YIL043C	CBR1	64	2	34
YGR243W	unknown	56	10	34
YLL063C	AYT1	66	0	34
YJL068C	unknown	66	0	34
YLR358C	unknown	50	16	34
YIL153W	RRD1	61	5	34
YHR030C	SLT2	61	5	34
YAL007C	ERP2	67	0	33
YLR024C	UBR2	67	0	33





ORF	Gene			
YLR053C	unknown	67	0	33
YMR166C	unknown	67	0	33
YKL053C-A	unknown	60	7	33
YLR435W	TSR1	63	4	33
YFR048W	RMD8	67	0	33
YJL188C	BUD19	67	0	33
YJL075C	APQ13	57	10	33
YKL097C	unknown	58	9	33
YBR044C	TCM62	60	7	33
YFR043C	unknown	49	18	33
YJR051W	OSM1	60	8	33
YML075C	HMG1	62	6	33
YAL017W	PSK1	59	8	33
YGR028W	MSP1	65	2	33
YMR176W	ECM5	67	0	33
YMR042W	ARG80	63	4	32
YOL025W	LAG2	62	6	32
YER164W	CHD1	68	0	32

¹Yeast strains are listed in which the frequency of asci containing GFP dots in two of the four spores differs from the mean by more than 2 standard deviations. Mutants that failed to sporulate were excluded from this analysis.

Table S5. Mutants exhibiting an increase in asci with GFP dots in three of the four spores¹.

ORF	Gene				
YOR073W	unknown	37	32	32	32
YAL059W	ECM1	30	30	41	41
YNL011C	unknown	49	29	22	22
YMR142C	RPL13b	30	26	43	43
YBL021C	HAP3	60	26	14	14
YBR107C	IML3	58	25	17	17
YDR455C	unknown	52	25	23	23
YLR374C	unknown	60	25	15	15
YKR091W	SRL3	57	24	19	19
YDR363W-A	SEM1	55	24	22	22
YLR232W	unknown	71	23	6	6
YOR195W	SLK19	65	23	12	12
YGR285C	ZUO1	53	22	24	24
YIR024C	GIF1	67	22	10	10
YDR254W	CHL4	48	22	30	30
YIR074W	MOG1	52	22	26	26
YFR030W	MET10	68	22	10	10
YGR284C	ERV29	65	21	15	15
YPR139C	VPS66	67	21	13	13
YLR054C	unknown	64	21	15	15
YGL115W	SNF4	65	20	14	14
YLR337C	VRP1	54	20	26	26
YLR303W	MET15	72	20	7	7
YGR068C	unknown	74	20	6	6
YPR148C	unknown	80	20	0	0
YLR326W	unknown	54	20	27	27
YNL049C	SFB2	64	20	16	16
YLL049W	unknown	57	20	24	24
YNR032W	PPG1	69	20	12	12

ORF	Gene				
YNL024C	unknown	62	19	19	19
YNL069C	RPL16B	67	19	13	13
YNR001C	CIT1	65	19	17	17
YDR200C	VSP64	63	18	18	18
YDR078C	SHU2	68	18	14	14
YFR043C	unknown	49	18	33	33
YOR096W	RPS7A	60	18	22	22
YDR516C	EMI2	65	18	16	16
YLR335W	NUP2	69	18	13	13
YER014W	HEM14	66	18	16	16
YLR348C	DIC1	74	18	8	8
YBR043C	AQR2	58	18	24	24
YJR077C	MIR1	65	18	18	18
YER091C	MET6	65	18	18	18
YGR222W	PET54	69	18	14	14
YLR233C	EST1	73	18	10	10
YPL147W	PXA1	60	17	22	22
YIL017C	VID28	54	17	29	29
YML128C	MSC1	58	17	25	25
YLR269C	unknown	60	17	23	23
YPL260W	unknown	62	17	21	21
YLR240W	VPS34	75	17	8	8
YBR050C	REG2	53	17	30	30
YNR022C	MRPL50	77	17	6	6
YDR137W	RGP1	77	17	6	6
YOR039W	CKB2	73	17	10	10
YNL135C	FPR1	58	16	25	25
YNL035C	unknown	67	16	16	16
YJL103C	unknown	69	16	15	15

ORF	Gene				
YLR342W	FKS1	69	16	16	14
YNL080C	unknown	71	16	12	12
YGR244C	LSC2	71	16	12	12
YFR038W	unknown	76	16	8	8
YLR358C	unknown	50	16	34	34
YCR047C	BUD23	46	16	38	38
YGL101W	unknown	64	16	20	20
YNR033W	ABZ1	64	16	20	20
YLR253W	unknown	70	16	14	14
YLR400W	unknown	74	16	10	10
YDR151C	CTH1	78	16	6	6
YGR097W	ASK10	80	16	4	4
YNR030W	ECM39	80	16	4	4
YFR015C	GSY1	61	16	23	23
YGL009C	LEU1	56	16	29	29
YER055C	HIS1	20	16	65	65
YDL121C	unknown	69	16	16	16
YKR080W	MTD1	76	16	8	8
YHR021W-A	ECM12	73	16	11	11

¹Yeast strains are listed in which the frequency of asci containing GFP dots in three of the four spores differs from the mean by more than 3 standard deviations.

Supplemental References and Notes:

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