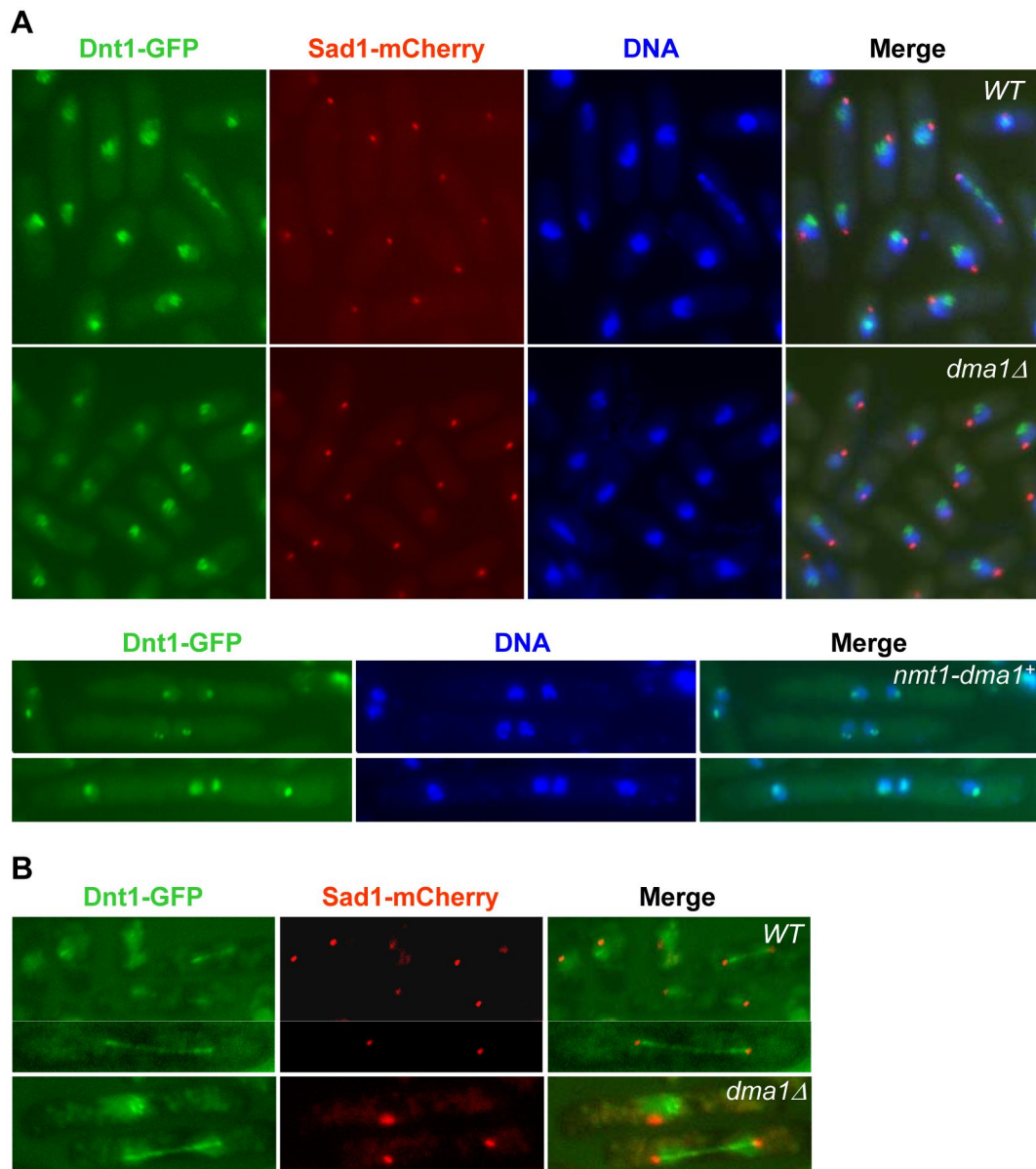
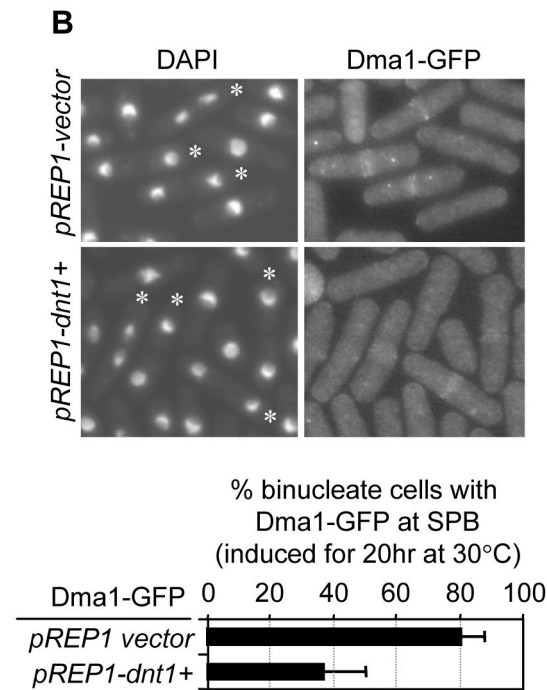
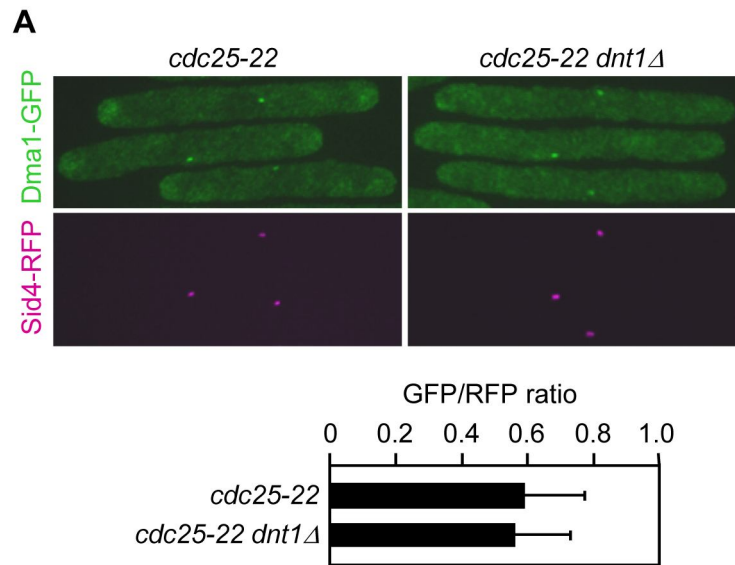


Supplementary figure legends:



Supplementary figure S1. Absence or overexpression of Dma1 does not impair localization of Dnt1 in the nucleolus or on anaphase spindle.

(A) Wild type and *dma1Δ* cells carrying Dnt1-GFP and Sad1-mCherry were grown in liquid YE at 30°C, then collected, fixed with methanol at room temperature, and DAPI stained. For *nmt1-dma1*⁺ cells carrying Dnt1-GFP, overexpression of Dma1 was induced in EMM liquid media without thiamine for 20hr at 30°C. Cells were fixed and stained with DAPI. (B) Examples of anaphase cells with spindles.



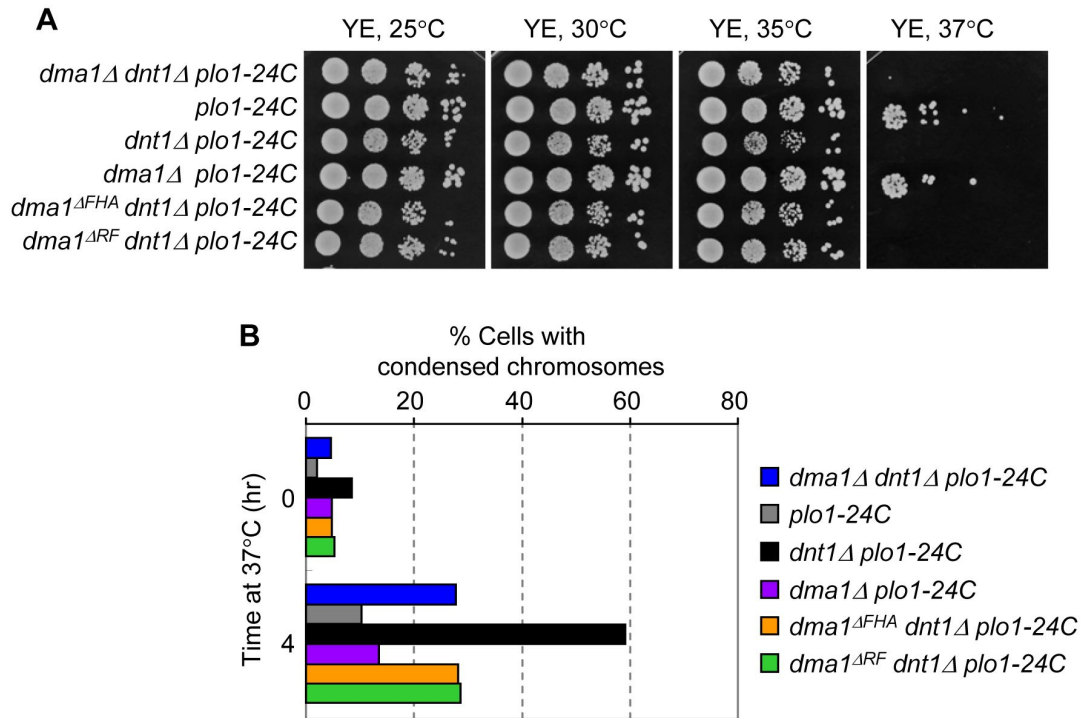
Supplementary figure S2. Localization of Dma1-GFP at SPB during G2 is not affected by *dnt1Δ*, and overexpression of *dnt1*⁺ can drive Dma1-GFP off SPBs in binucleate cells.

(A) During G2, Dma1-GFP intensity at SPBs is not affected by the absence of *dnt1*⁺. *cdc25-22* cells were arrested at G2 by incubation at 36°C for 4hr, and then Dma1-GFP and Sid4-RFP intensities were quantitated in *dnt1*⁺ and *dnt1Δ* cells. Final values are

expressed as GFP/RFP ratios. Error bars represent the SEM. 20 cells were measured for each strain and averaged for statistical analysis, $p > 0.05$.

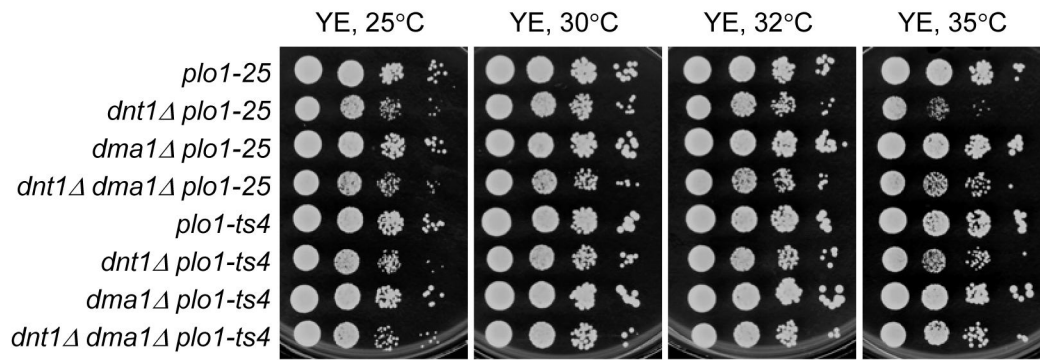
(B) Wild type cells carrying Dma1-GFP were transformed with expression plasmids pREP1 (vector) or pREP1-*dnt1*⁺ and induced for overexpression of *dnt1*⁺ in EMM liquid media without thiamine for 20hr at 30°C. Cells were collected, fixed and DAPI stained. (Upper) Representative cells are shown. Asterisks indicate binucleate cells.

(Lower) Binucleate cells with Dma1-GFP signals at SPBs were scored ($n > 150$). Error bars represent the SD from 3 independent experiments.



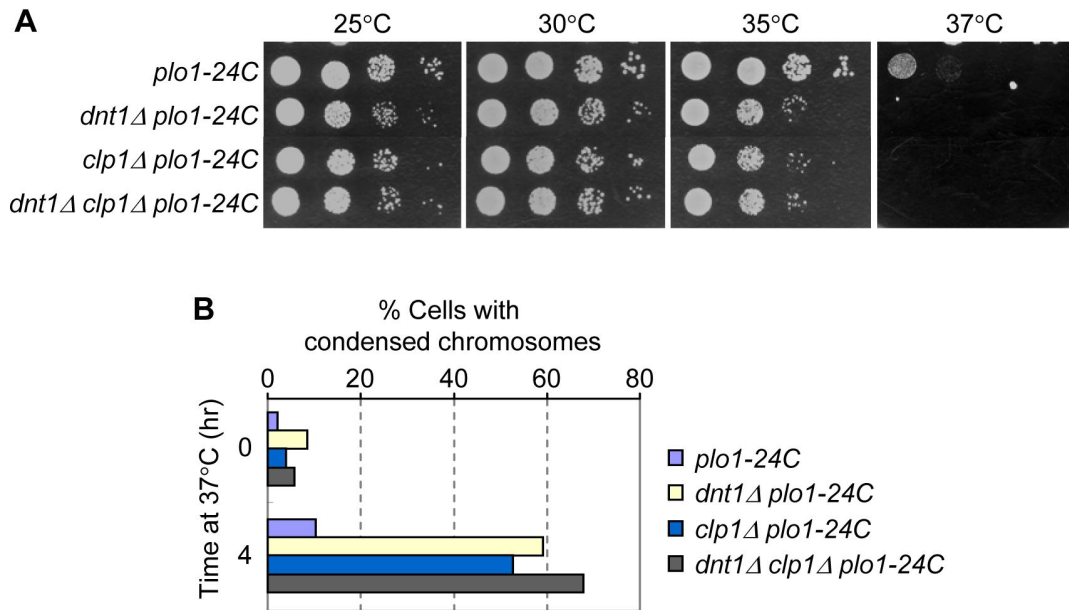
Supplementary figure S3. Negative genetic interaction between *plo1-24C* and *dnt1Δ* can be rescued by disruption of FHA or RF domains in *Dma1*.

(A) Serial dilutions (10 fold) of the indicated single, double or triple mutant strains were spotted on YE and incubated at the indicated temperatures. (B) Liquid cultures of the indicated strains were grown at 25°C then shifted to 37°C, and the percentages of cells with condensed chromosomes/metaphase arrest were quantified after being fixed and stained with DAPI (n=200).



Supplementary figure S4. The sensitivity of other alleles of *plo1* mutants to deletion of *dnt1*⁺ can also be alleviated by disruption of *Dma1* function.

(A and B) Serial dilutions (10 fold) of the indicated single, double or triple mutant strains were spotted on YE and incubated at the indicated temperatures. All *plo1* mutant alleles show synthetic interactions with *dnt1Δ*.



Supplementary figure S5. Negative genetic interaction between *plo1-24C* and *dnt1Δ* is independent of Clp1.

(A) Growth of serial dilutions (10 fold) of the indicated strains were grown on YE at the indicated temperatures. (B) Quantification of condensed chromosomes/metaphase arrest in liquid cultures at 37°C were performed as in supplementary figure S3B.

Supplementary tables:

Table S1. Yeast strains used in this study.

Strain	Genotype
YDM105	<i>h⁻ leu1-32 ura4-D18 ade6-210</i>
YDM106	<i>h⁺ leu1-32 ura4-D18 ade6-210</i>
YDM1758	<i>h⁻ dma1-3HA-TAP::kanR leu1-32 ura4-D18 ade6-210</i>
YDM1863	<i>h⁺ dma1-3HA-TAP::kanR mts3-1 leu1-32 ura4-D18</i>
YDM2460	<i>h⁺ dnt1-3HA-TAP::kanR leu1-32 ura4-D18 ade6-210</i>
YDM2258	<i>h⁻ dma1-3HA-TAP::kanR nda3-KM311 leu1-32 ura4-D18 ade6-21x</i>
YDM3262	<i>h[?] dma1-3HA-TAP::kanR nda3-KM311 dnt1Δ::ura4⁺ leu1-32 ura4-D18</i>
YDM3263	<i>h[?] dma1-3HA-TAP::kanR mts3-1 dnt1Δ::ura4⁺ leu1-32 ura4-D18</i>
YDM919	<i>h⁻ dma1-GFP::kanR leu1-32 ura4-D18 ade6-21x</i>
YDM2420	<i>h⁻ dnt1-13myc::kanR leu1-32 ade6-210 ura4-D18</i>
YDM2421	<i>h⁻ dma1-GFP::kanR dnt1-13myc::kanR leu1-32 ade6-21x ura4-D18</i>
YDM2558	<i>h[?] cdc10-129 dma1-GFP::kanR dnt1-13myc::kanR</i>
YDM2562	<i>h[?] mts3-1 dma1-GFP::kanR dnt1-13myc::kanR</i>
YDM2557	<i>h[?] nda3-KM311 dma1-GFP::kanR dnt1-13myc::kanR</i>
YDM3274	<i>h[?] mts3-1 dma1Δ::kanR dnt1-13myc-kanR leu1-32 ura4-D18</i>
JY2703	<i>h⁺ nda3-KM311 dnt1-GFP::kanR sad1-mCherry::natMx6 leu1-32 ura4-D18</i>
JY2734	<i>h⁻ mts3-1 dnt1-GFP::kanR sad1-mCherry::natMx6 ura4-D18</i>
YDM3041	<i>h⁻ leu1-32::nmt1-dma1::leu1⁺ dnt1Δ::ura4⁺ ura4-D18 ade6-216</i>
JY384	<i>h⁺ leu1-32::nmt1-dma1::leu1⁺ dnt1Δ::ura4⁺ cut2-GFP::LEU2</i>
JY392	<i>h⁺ leu1-32::nmt1-dma1::leu1⁺ dnt1Δ::kanR cdc13-GFP::LEU2 ura4-D18</i>
YDM1035	<i>h⁻ leu1-32::nmt1-dma1::leu1⁺ ade6-216 ura4-D18</i>
YDM3124	<i>h⁻ leu1-32::nmt1-dma1::leu1⁺ dnt1Δ::ura4⁺ mad2Δ::ura4⁺ ura4-D18</i>
JY368	<i>h[?] leu1-32::nmt1-dma1::leu1⁺ dnt1Δ::kanR bub1Δ::ura4⁺</i>
JY699	<i>h⁺ leu1-32::nmt1-dma1^{ARF}::leu1⁺ ura4-D18 ade6-210</i>
JY700	<i>h⁺ leu1-32::nmt1-dma1^{C210;H212A}::leu1⁺ ura4-D18 ade6-210</i>
JY744	<i>h⁻ leu1-32::nmt1-dma1^{ARF}::leu1⁺ dnt1Δ::ura4⁺ ura4-D18 ade6-210</i>
JY747	<i>h⁺ leu1-32::nmt1-dma1^{C210;H212A}::leu1⁺ dnt1Δ::ura4⁺ ura4-D18 ade6-210</i>
JY2032	<i>h⁺ leu1-32::nmt1-dma1^{AFHA}::leu1⁺ dnt1Δ::kanR ura4-D18 ade6-210</i>
JY2034	<i>h⁺ leu1-32::nmt1-dma1^{R64A}::leu1⁺ dnt1Δ::kanR ura4-D18 ade6-210</i>
JY2036	<i>h⁺ leu1-32::nmt1-dma1^{H88A}::leu1⁺ dnt1Δ::kanR ura4-D18 ade6-210</i>
YDM1159	<i>h⁻ dma1Δ::ura4 ura4-D18 leu1-32 ade6-21x</i>
YDM2379	<i>h⁻ dnt1Δ::ura4⁺ leu1-32 ura4-D18 ade6-210</i>
YDM2812	<i>h⁺ dnt1Δ::kanR leu1-32 ura4-D18 ade6-210</i>
YDM2440	<i>h⁺ dnt1Δ::ura4⁺ dma1Δ::ura4⁺ leu1-32 ura4-D18 ade6-216</i>
YDM1010	<i>h⁻ alp4-1891 leu1-32</i>
JY576	<i>h⁻ dnt1Δ::kanR alp4-1891 leu1-32 ura4</i>
JY621	<i>h[?] dma1Δ::ura4⁺ dnt1Δ::kanR alp4-1891 leu1-32 ura4</i>
YDM1009	<i>h⁻ alp6-719 leu1-32</i>
JY575	<i>h⁻ dnt1Δ::kanR alp6-719 leu1-32 ura4</i>
JY620	<i>h[?] dma1Δ::ura4⁺ dnt1Δ::kanR alp6-719 leu1-32 ura4</i>
JY423	<i>h⁻ sad1-1 leu1</i>
JY504	<i>h⁻ dnt1Δ::ura4⁺ sad1-1 leu1</i>
JY727	<i>h[?] dma1Δ::kanR sad1-1 leu1-32 ura4-D18</i>
JY698	<i>h[?] dma1Δ::kanR dnt1Δ::ura4⁺ sad1-1 leu1-32 ura4-D18</i>
YDM113	<i>h⁺ plo1-24C leu1-32 ura4-D18 ade6-21x</i>
YDM3266	<i>h⁺ dnt1Δ::kanR plo1-24C leu1-32 ura4-D18 ade6-21x</i>

YDM3289	<i>h² dma1Δ::ura4⁺ dnt1Δ::kanR plo1-24C</i>
JY2632	<i>h⁺ dma1^{ΔFHA} ura4-D18 leu1-32 ade6-216</i>
JY2774	<i>h⁻ dma1^{ΔFHA} dnt1Δ::kanR plo1-24C leu1-32 ura4-D18 ade6-21x</i>
JY2633	<i>h⁺ dma1^{ΔRF} ura4-D18 leu1-32 ade6-216</i>
JY2775	<i>h⁺ dma1^{ΔRF} dnt1Δ::kanR plo1-24C leu1-32 ura4-D18 ade6-21x</i>
YDM3292	<i>h² mad2Δ::ura4⁺ plo1-24C</i>
YDM3333	<i>h² dnt1Δ::kanR mad2Δ::ura4⁺ plo1-24C leu1-32 ura4-D18</i>
YDM412	<i>h⁻ plo1-25 leu1-32</i>
YDM1411	<i>h⁺ plo1-25 leu1-32 ade6-21x</i>
YDM3267	<i>h⁻ dnt1Δ::kanR plo1-25 leu1-32</i>
YDM3290	<i>h² dma1Δ::ura4⁺ dnt1Δ::kanR plo1-25</i>
YDM3303	<i>h² dnt1Δ::ura4⁺ plo1-25 mad2Δ::ura4⁺ leu1-32 ura4-D18</i>
YDM1532	<i>h⁺ plo1-ts4::ura4⁺ ura4-D18 ade6-21x leu1-32</i>
YDM3268	<i>h² dnt1Δ::kanR plo1-ts4::ura4⁺ ura4-D18 ade6-21x leu1-32</i>
YDM3291	<i>h² dma1Δ::ura4⁺ dnt1Δ::kanR plo1-ts4::ura4⁺</i>
YDM2825	<i>h⁻ plo1-24C GFP-atb2⁺::kanR sad1-mCherry::natMX6 leu1 ura4</i>
YDM2886	<i>h⁻ dnt1Δ::kanR plo1-24C GFP-atb2⁺::kanR sad1-mCherry::natMX6 leu1 ura4</i>
YDM2785	<i>h⁻ dma1Δ::ura4⁺ dnt1Δ::kanR plo1-24C GFP-atb2⁺::kanR sad1-mCherry::natMX6 leu1 ura4</i>
YDM919	<i>h⁻ dma1-GFP::kanR leu1-32 ura4-D18 ade6-21x</i>
YDM3399	<i>h² dnt1Δ::ura4⁺ dma1-GFP::kanR ura4-D18 ade6-21x leu1-32</i>
YDM918	<i>h⁻ dma1-13myc::kan leu1-32 ura4-D18 ade6-21x</i>
YDM 3406	<i>h² dnt1Δ::kanR dma1-13myc::kanR ura4-D18 leu1-32</i>
JY2659	<i>h⁺ dnt1-GFP::kanR sad1-mCherry::natMX6 leu1-32 ura4-D18 ade6-210</i>
JY2636	<i>h² dma1Δ::ura4⁺ dnt1-GFP::kanR sad1-mCherry::natMX6 leu1-32 ura4-D18 ade6-21x</i>
JY2639	<i>h² leu1-32::nmt1-dma1::leu1⁺ dnt1-GFP::kanR ura4-D18 ade6-21x</i>
KGY8415	<i>h⁻ sid4-HBH::kanR ade6-M210 leu1-32 ura4-D18</i>
KGY10621	<i>h⁻ dnt1Δ::ura4⁺ sid4-HBH::kanR ade6-M21x leu1-32 ura4-D18</i>
KGY11605	<i>h⁻ dma1-GFP::kanR sid4-RFP::kanR ade6-M210 leu1-32 ura4-D18</i>
KGY11874	<i>h⁺ dnt1Δ::ura4⁺ dma1-GFP::kanR sid4-RFP::kanR ade6-M21x leu1-32 ura4-D18</i>
KGY11657	<i>h⁻ cdc25-22 dma1-GFP;KanR sid4-RFP;KanR ade6-M210 leu1-32 ura4-D18</i>
KGY13809	<i>h⁺ cdc25-22 dma1-GFP;kanR sid4-RFP;kanR dnt1::ura4⁺ ade6-M21x leu1-32 ura4-d18</i>

Table S2. List of proteins identified by mass spectrometry co-purifying with Dma1-3HA-TAP from mts3-1 arrested cells [Yeast strain used: YDM1972 *h- mts3-1 dma1-3HA-TAP::kanR sid4-GFP::kanR ura4-D18 leu1-32 ade6-21X*]. [1st purification]

Protein Name/Locus	# Unique peptides	Sequence Coverage	Descriptive Name
DMA1, SPAC17G8.10C	58	85.0%	: SPINDLE ASSEMBLY CHECKPOINT COMPONENT; PROTEIN TO PREVENT SEPTUM FORMATION AND PREMATURE EXIT FROM MITOSIS IF SPINDLE FUNCTION IS COMPROMISED:
DNT1, SPBC25D12.02C	47	57.4%	: HYPOTHETICAL PROTEIN; SEQUENCE ORPHAN; SERINE- RICH:
HSP70, SPCC1739.13	28	43.4%	: HEAT SHOCK PROTEIN 70 FAMILY:
GPD1, SPBC32F12.11, TDH1	13	38.4%	: GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE:
UBI1, SPAC11G7.04	3	34.4%	: UBIQUITIN FAMILY PROTEIN:
UEP1, SPAC1805.12C, UBI2	3	34.4%	: UBIQUITIN FUSION PROTEIN:
ADH1, SPCC13B11.01, ADH	9	30.9%	: ALCOHOL DEHYDROGENASE I; REDUCING ACETALDEHYDE TO ETHANOL, REGENERATING NAD ⁺ :
SKS2, SPBC1709.05, HSC1	10	28.5%	: HEAT SHOCK PROTEIN 70 FAMILY:
SPBC27B12.12C	14	25.8%	: MIT FAMILY METAL ION TRANSPORTER; PUTATIVE INORGANIC CATION TRANSPORTER; SIMILAR TO S. CEREVISIAE ALR1:
EF1-B, SPBC839.15C	14	25.7%	: ELONGATION FACTOR 1 ALPHA-B:
TEF1-E, SPCC794.09C, EF1A-E	14	25.7%	: ELONGATION FACTOR 1-ALPHA-E:
EF1A-B, SPAC23A1.10, TEF1-B, TEF1-D, EF1A-B,	14	25.7%	: ELONGATION FACTOR 1 ALPHA-B/D:
ACT1, SPBC32H8.12C, CPS8, PI012	6	25.6%	: ACTIN:
ANC1, SPBC530.10C	6	23.3%	: ADENINE NUCLEOTIDE CARRIER; MITOCHONDRIAL CARRIER (MCF) FAMILY:
SPAC589.10C	2	22.7%	: UBIQUITIN-LIKE PROTEIN; IDENTICAL TO SPAC6G10.11C.:
UBI4, SPBC337.08C	2	8.9%	: UBIQUITIN FAMILY PROTEIN:
UBI3, SPAC6G10.11C	2	22.7%	: UBIQUITIN FUSION PROTEIN:
SMD3, SPBC19C2.14	2	21.6%	: SMALL NUCLEAR RIBONUCLEOPROTEIN; PUTATIVE PRE- MRNA SPLICING FACTOR; SIMILAR TO S. CEREVISIAE SMD3:
BIP, SPAC22A12.15C	9	20.2%	: 78 KD GLUCOSE REGULATED PROTEIN HOMOLOG; HSP70 FAMILY:
SPBC15D4.08C	2	19.6%	: VERY HYPOTHETICAL PROTEIN:
FBA1, SPBC19C2.07	4	19.3%	: FRUCTOSE-BISPHOSPHATE ALDOLASE; SIMILAR TO S. CEREVISIAE FBA1:
SPAC13G7.02C	12	18.6%	: HEAT SHOCK PROTEIN 70 FAMILY:
RFC4, SPAC1687.03C	2	18.4%	: REPLICATION FACTOR C (ACTIVATOR 1) SUBUNIT; ACTIVATOR OF DNA POLYMERASES:
SPAC2G11.15C, SPAC521.01C	2	17.2%	: PUTATIVE METHYLTRANSFERASE:
SPBC1703.13C	2	16.4%	: MC PHOSPHATE TRANSPORTER:
SPBC13E7.01, SPBC15D4.16	10	15.5%	: CONSERVED PROTEIN; SIMILAR TO S. CEREVISIAE YGR278W CONSERVED PROTEIN; SIMILAR TO S. CEREVISIAE YGR278W:
SPAC24H6.09	6	14.6%	: PUTATIVE GUANINE NUCLEOTIDE EXCHANGE FACTOR; COILED-COIL REGIONS; PREDICTED COILED-COIL REGION:
GPD3, SPBC354.12	7	14.3%	: GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE:
HOB3, SPBC725.09C	2	14.0%	: INVOLVED IN CELL CYCLE REGULATION; CYTOKINESIS AND CYTOSKELETAL ORGANIZATION:
DBP2, SPBP8B7.16C	5	13.6%	: DEAD/DEAH BOX HELICASE; PUTATIVE

			PRE-MRNA SPLICING FACTOR; HUMAN P68-LIKE PROTEIN; SIMILAR TO S. CEREVISIAE DPB2; CONTAINS LARGE 3' INTRON LIKE S. CEREVISIAE DBP2:
SPAC821.03C	3	13.0%	: HYPOTHETICAL SERINE-RICH PROTEIN; SEQUENCE ORPHAN:
SPBC660.06	2	12.8%	: HYPOTHETICAL GLYCINE RICH PROTEIN; POMBE SPECIFIC DOMAIN PFAM-B_15930:
SPAC19G12.05	2	12.7%	: MC TRICARBOXYLATE TRANSPORTER:
SPCC970.03	3	12.3%	: PUTATIVE NADH-CYTOCHROME B5 REDUCTASE; SIMILAR TO S. CEREVISIAE CBR1:
SPCC1393.08	2	11.5%	: TRANSCRIPTION FACTOR GATA-TYPE:
SUM3, SPCC1795.11, DED1, SLH3, MOC2	7	11.3%	: DEAD/DEAH BOX HELICASE; ATP-DEPENDENT RNA HELICASE; POSITIVELY INVOLVED IN THE INITIATION OF PROTEIN SYNTHESIS; ESSENTIAL; SUPPRESSOR OF UNCONTROLLED MITOSIS; SUBCELLULAR LOCALIZATION OF GFP FUSION-CYTOPLASM; INTERACTS WITH CHK1; INTERACTS WITH CDC2: O
SPCC1672.05C	2	11.2%	: TYROSYL-TRNA SYNTHETASE CYTOPLASMIC:
SPAP27G11.02	2	11.2%	: HYPOTHETICAL PROTEIN; SIMILAR TO S. CEREVISIAE YKL133C (LOW):
CSX1, SPAC17A2.09C	3	11.1%	: RNA-BINDING PROTEIN; POST-TRANSCRIPTIONAL REGULATOR:
GIT7, SPBC36.12C, SPBC713.01C	2	11.1%	: GLUCOSE INSENSITIVE TRANSCRIPTION:
PYK1, SPAC4H3.10C	5	11.0%	: PYRUVATE KINASE (EC 2.7.1.40):
SPCC24B10.10C	2	10.7%	: PUTATIVE INTRA-MITOCHONDRIAL SORTING PROTEIN, AAA FAMILY OF ATPASE; SIMILAR TO S. CEREVISIAE MPS1:
CWF4, SPBC31F10.11C, SYF3	4	9.8%	: PUTATIVE PRE-MRNA SPLICING FACTOR; 40S SNRNP- CONTAINING COMPLEX; SIMILAR TO S. CEREVISIAE CLF1:
SPBC646.10C	4	9.7%	: PUTATIVE U3 SNORNP COMPONENT; PUTATIVE COMPONENT OF BOX C/D SNORNPS; INVOLVED IN 2'-O-METHYLATION OF RIBOSOMAL RNAS; SIMILAR TO S. CEREVISIAE SIK1:
SPAC323.04	2	9.7%	: PUTATIVE ABC METAL TRANSPORT ATP-BINDING PROTEIN:
LSD1, SPAC4A8.11C, FAS2	11	9.5%	: FATTY ACID SYNTHASE, SUBUNIT ALPHA:
SPAC12G12.06C	2	9.4%	: PUTATIVE RNA 3'-TERMINAL PHOSPHATE CYCLASE:
ALG11, SPCC330.08, GMD3	2	9.3%	: GLYCOSYL TRANSFERASE; INVOLVED IN N-LINKED OLIGOSACCHADRIDE SYNTHESIS:
SSP1, SPAC664.11	5	9.2%	: MITOCHONDRIAL CHAPERONIN; HEAT SHOCK 70 KD PROTEIN; INVOLVED IN MITOCHONDRIAL PROTEIN IMPORT:
SPO4, SPBC21C3.18	2	9.1%	: PROTEIN KINASE; INVOLVED IN MEIOTIC SPINDLE FORMATION:
ADE2, SPAC144.03, MIN10, MIN3	2	9.0%	: ADENYLOSUCCINATE SYNTHETASE:
SPBC19G7.10C	4	8.9%	: TOPOISOMERASE ASSOCIATED YEAST PAT1 HOMOLOG:
FIB, SPBC2D10.10C	3	8.9%	: FIBRILLARIN; PUTATIVE U3 SNORNP COMPONENT; REQUIRED FOR 35S RRNA PROCESSING AND METHYLATION; SIMILAR S. CEREVISIAE NOP1:
SPBC1703.12	2	8.7%	: UBIQUITIN CARBOXYL-TERMINAL HYDROLASE; SIMILAR TO S. CEREVISIAE UBP9:
SPAC637.04	3	8.4%	: HYPOTHETICAL PROTEIN; CONTAINS PFAM-B_33932; CONTAINS PFAM-B_33935; SIMILAR TO S. CEREVISIAE YGR198W NULL LETHAL; CONTAINS 3 TPR DOMAINS:
ARG5, SPBC56F2.09C	2	8.2%	: ARGININE-SPECIFIC CARBAMOYL PHOSPHATE SYNTHASE; SIMILAR TO S. CEREVISIAE CPA1:
KMS1, SPAC3A11.05C	2	8.1%	: MEIOSIS SPECIFIC PROTEIN; MUTANT DISPLAYS DECREASED MEIOTIC RECOMBINATION; PUTATIVE

			SPINDLE POLE BODY COMPONENT:
LEU1, SPBC1A4.02C, SPBC1E8.07C	2	8.1%	: 3-ISOPROPYLMALATE DEHYDROGENASE; SIMILAR TO S. CEREVISIAE LEU2:
SPAC139.02C	3	8.1%	: MC OXALOACETATE TRANSPORTER:
ILV1, SPBP35G2.07	4	7.8%	: ACETOLACTATE SYNTHASE (ACETOHYDROXYACID SYNTHASE); FIRST STEP IN VALINE AND ISOLEUCINE BIOSYNTHESIS PATHWAY; SIMILAR TO S. CEREVISIAE ILV2:
PRP19, SPAC29A4.08C, CWF8	4	7.8%	: PUTATIVE PRE-MRNA SPLICING FACTOR; WD REPEAT PROTEIN; COMPLEXED WITH CDC5; SIMILAR TO S. CEREVISIAE PRP19:
SPAC821.05	2	7.8%	: PUTATIVE EIF3 P40 EIF/SIGNALOSOME COMPONENT; MOV DOMAIN; NO APPARENT S. CEREVISIAE ORTHOLOG:
ECM2, SPCC550.02C, CWF5	2	7.6%	: PUTATIVE PRE-MRNA SPLICING FACTOR; 40S SNRNP- CONTAINING COMPLEX; RNA-BINDING PROTEIN; SIMILAR TO S. CEREVISIAE ECM2:
GAR2, SPAC140.02	3	7.4%	: GAR2 PROTEIN:
SPAC664.03	2	7.4%	: PUTATIVE DNA-DIRECTED RNA POLYMERASE II REGULATOR:
SPAC2E1P3.04	2	7.2%	: PEROXISOMAL COPPER AMINE OXIDASE; NO APPARENT S. CEREVISIAE ORTHOLOG:
HSP60, SPAC12G12.04, MCP60	2	7.2%	: PUTATIVE MITOCHONDRIAL CHAPERONIN 60; PUTATIVE SUCCINATE DEHYDROGENASE ASSEMBLY; HEAT SHOCK PROTEIN 60:
SPBC16E9.11C	3	7.1%	: UBIQUITIN--PROTEIN LIGASE:
SPBC11B10.01, PI010, SPBC32H8.14	2	7.0%	: GLYCOSYL TRANSFERASE:
SPAC15A10.06	2	6.7%	: CPA1 SODIUM ION/PROTON ANTIporter:
ITR1, SPAC4F8.15, SPAC7D4.01	2	6.6%	: MFS MYO-INOSITOL TRANSPORTER:
SPAC13G7.05	2	6.5%	: ACYL-COA-STEROL ACYLTRANSFERASE; SIMILAR TO S. CEREVISIAE ARE2:
CLR6, SPBC36.05C	2	6.4%	: HISTONE DEACETYLASE; RPD3-LIKE (CLASS 1); SIMILAR TO S. CEREVISIAE RPD3; O59702;
SPBP22H7.02C, PI029	2	6.2%	: RNA-BINDING PROTEIN; 5 RRM RNA RECOGNITION MOTIFS:
SPAC13G7.04C	2	6.2%	: HYPOTHETICAL PROTEIN; SIMILAR TO S. CEREVISIAE TOS7; CONTAINS PFAM-B_7111; CONTAINS 3 PREDICTED TRANSMEMBRANE HELICES; PREDICTED N-TERMINAL SIGNAL SEQUENCE; POSSIBLY FUNGAL SPECIFIC:
SNU66, SPAC167.03C	2	6.2%	: PUTATIVE PRE-MRNA SPLICING FACTOR; PUTATIVE U4/U6.U5 SNRNP COMPONENT; PREDICTED COILED-COIL; SIMILAR TO S. CEREVISIAE SNU66:
SPCC1682.03C	3	6.2%	: HYPOTHETICAL PROTEIN; SEQUENCE ORPHAN:
SPBC25H2.11C	2	6.1%	: BROMODOMAIN PROTEIN; PUTATIVE TRANSCRIPTIONAL ACTIVATOR; PUTATIVE SAGA COMPLEX ; SIMILAR TO S. CEREVISIAE SPT7:
DIS1, SPCC736.14	2	6.1%	: MICROTUBULE AND SPINDLE POLE BODY ASSOCIATED PROTEIN P93DIS1:
SPBC106.14C	3	6.1%	: POSSIBLY REQUIRED FOR ACTIN CYTOSKELETAL ORGANISATION; SIMILAR TO S. CEREVISIAE SDA1:
SPAC25B8.11	2	6.1%	: PUTATIVE TRANSCRIPTIONAL REGULATOR; ZINC FINGER PROTEIN; SIMILAR TO S. CEREVISIAE DAL81 AN ACTIVATOR FOR ALLANTOIN, 4-AMINOBUTYRIC ACID (GABA), AND UREA CATABOLIC GENES; FUNGAL BINUCLEAR CLUSTER DOMAIN:
BPB1, SPCC962.06C, SF1	2	6.1%	: ZINC FINGER PROTEIN; ZF-CCHC TYPE (ZINC KNUCKLE); PUTATIVE TRANSCRIPTION OR SPLICING FACTOR:
SPBC18E5.02C, SPBC29A3.20C	2	6.1%	: PUTATIVE SERINE PALMITOYLTRANSFERASE PUTATIVE SERINE PALMITOYLTRANSFERASE SUBUNIT:
SWI4, SPAC8F11.03	2	6.0%	: MATING-TYPE SWITCHING PROTEIN; SIMILAR TO S. CEREVISIAE MSH3:

SPBC20F10.05	3	6.0%	: HYPOTHETICAL PROTEIN; SEQUENCE ORPHAN:
POB1, SPBC1289.04C	2	6.0%	: REQUIRED FOR CELL POLARITY; REQUIRED FOR ELONGATION; SIMILAR TO S. CEREVISIAE BOI1 AND BOI2; ESSENTIAL; CONTAINS PH DOMAIN; CONTAINS SAM DOMAIN:
SPBC691.02C, PI034	2	6.0%	: PUTATIVE ENDOPLASMIC RETICULUM TO GOLGI TRANSPORT PROTEIN; SIMILAR TO S. CEREVISIAE TIP20:
HMG1, SPCC162.09C	3	5.9%	: 3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE: O74425;Q10283;
SPAC4G9.05	2	5.9%	: RNA-BINDING PROTEIN; PUMILIO FAMILY: Q10238;
SPCC757.12	2	5.8%	: PUTATIVE ALPHA-AMYLASE; NO APPARENT S. CEREVISIAE ORTHOLOG:
URA1, SPAC22G7.06C	7	5.7%	: CONTAINS GLUTAMINE-DEPENDENT CARBAMOYL- PHOSPHATESYNTASE; CONTAINS ASPARTATE CARBAMOYL TRANSFERASE; SIMILAR TO S. CEREVISIAE URA2:
MTS4, SPBP19A11.03C	3	5.7%	: 26S PROTEASOME REGULATORY SUBUNIT:
SPCC4B3.03C	2	5.7%	: POSSIBLY REQUIRED FOR NORMAL MITOCHONDRIAL STRUCTURE; SIMILAR TO S. CEREVISIAE AMI3:
SPCC1223.13	2	5.6%	: HYPOTHETICAL PROTEIN; SEQUENCE ORPHAN:
SPBC16G5.15C	2	5.6%	: FORK HEAD NUCLEAR SIGNALLING DOMAIN PROTEIN:
SPAC630.05	2	5.5%	: TBC DOMAIN PROTEIN; PUTATIVE GTPASE ACTIVATING PROTEIN OF RAB-LIKE GTPASE:
PMA1, SPAC1071.10C	2	5.4%	: P-TYPE PROTON ATPASE:
LEU2, SPAC9E9.03	2	5.4%	: PUTATIVE 3-ISOPROPYLMALATE DEHYDRATASE:
SPCC417.08	4	5.3%	: PUTATIVE ELONGATION FACTOR 3:
EFT2-1, SPAC513.01C, SPAPYUK71.04C	3	5.3%	: ELONGATION FACTOR 2:
EFT2-2, SPCP31B10.07	3	5.3%	: ELONGATION FACTOR 2:
SPAC29A4.20	2	5.3%	: PUTATIVE SUBUNIT OF ELONGATOR/RNAPII HOLOENZYME; PUTATIVE HISTONE ACETYLTRANSFERASE; SIMILAR TO S. CEREVISIAE ELP3:
SPAC1F8.07C	2	5.2%	: PUTATIVE PYRUVATE DECARBOXYLASE:
SPAC4A8.08C	2	5.1%	: PUTATIVE VALYL-TRNA SYNTHETASE, MITOCHONDRIAL:
SPBC12C2.08	2	5.1%	: DYNAMIN FAMILY; CONTAINS DYNAMIN GTPASE EFFECTOR DOMAIN; MORPHOLOGY AND CORTICAL LOCALIZATION OF MITOCHONDRIA; SIMILAR TO S. CEREVISIAE DNM1:
SPBC2D10.17	2	4.8%	: ZINC FINGER PROTEIN; ZF-C2H2 TYPE; PREDICTED COILED-COIL REGION:
SPBC28F2.08C	2	4.8%	: SEL 1 REPEAT PROTEIN; LOW SIMILAR TO S. CEREVISIAE HRD3; PREDICTED N-TERMINAL SIGNAL SEQUENCE; CONTAINS 1 PREDICTED TRANSMEMBRANE HELIX; NO APPARENT S. CEREVISIAE ORTHOLOG:
PFK1, SPBC16H5.02	3	4.7%	: 6-PHOSPHOFRUCTOKINASE BETA SUBUNIT; SIMILAR TO S. CEREVISIAE PFK2:
APC5, SPAC959.09C, SPAP32A8.01C	2	4.6%	: PUTATIVE ANAPHASE-PROMOTING COMPLEX (APC); REQUIRED FOR CYCLIN DEGRADATION; REQUIRED FOR METAPHASE- ANAPHASE TRANSITION:
SPBC31F10.13C	2	4.4%	: WD REPEAT PROTEIN; PUTATIVE HIRA PROTEIN; HISTONE TRANSCRIPTION REGULATOR:
CDC5, SPAC644.12	2	4.4%	: CELL DIVISION CONTROL PROTEIN; TRANSCRIPTIONAL REGULATOR; MYB FAMILY DNA-BINDING PROTEIN; ESSENTIAL; REQUIRED FOR PRE-MRNA SPLICING; REQUIRED FOR G2/M PHASE PROGRESSION AND NUCLEAR DIVISION; FUNCTIONAL HOMOLOG OF S. CEREVISIAE CEF1:
TIF471, SPAC17C9.03	3	4.3%	: PUTATIVE EUKARYOTIC TRANSLATION INITIATION FACTOR EIF4G:
SPCC23B6.04C	2	4.3%	: CONSERVED CRAL/TRIO DOMAIN PROTEIN;

			SEC14 CYTOSOLIC FACTOR FAMILY; POSSIBLY INVOLVED IN LIPID MOVEMENT BETWEEN MEMBRANES BY SIMILAR TO S. CEREVISIAE PDR16:
STE6, SPCC1442.01, SPCC1450.17	2	4.2%	: GUANINE-NUCLEOTIDE RELEASING FACTOR; INVOLVED IN CONJUGATION:
SPAC20H4.01, SPAC631.03	2	4.1%	: HYPOTHETICAL PROTEIN; SIMILAR TO S. CEREVISIAE YDR398W NULL LETHAL:
SPAC1250.01, SPAC29A4.21	2	4.0%	: PUTATIVE CHROMATIN REMODELING COMPLEX COMPONENT; PUTATIVE TRANSCRIPTIONAL ACTIVATOR COMPLEX; SNF2 FAMILY HELICASE; CONTAINS BROMODOMAIN; SIMILAR TO S. CEREVISIAE STH1:
SPAPB8E5.07C	2	4.0%	: CONSERVED PROTEIN; SIMILAR TO S. CEREVISIAE YPL012W NULL LETHAL; CONTAINS PFAM-B_17883:
CWF10, SPBC215.12, SPEF2, SNU114	2	4.0%	: PUTATIVE PRE-MRNA SPLICING FACTOR; SIMILAR TO S. CEREVISIAE SNU114; SIMILAR TO HUMAN U5 SNRNP GTPASE-U5 SNRNP-SPECIFIC RIBOSOMAL TRANSLOCASE EF-2:
MAM1, SPBC25B2.02C, SPBC2G5.09C	3	3.9%	: ABC EFFLUX TRANSPORTER; PUTATIVE MATING FACTOR ABC EFFLUX TRANSPORTER - PUTATIVE MATING FACTOR:
SPAC25G10.08	2	3.9%	: EUKARYOTIC TRANSLATION INITIATION FACTOR 3 BETA SUBUNIT:
SPAC4F10.16C	2	3.7%	: P-TYPE CALCIUM ATPASE:
SPBC56F2.04	3	3.4%	: SIMILAR TO HUMAN DRIM, A PROTEIN DIFFERENTIALLY PRODUCED IN METASTATIC AND NONMETASTATIC HUMAN BREAST CARCINOMA CELLS; SIMILAR TO S. CEREVISIAE YBLO04W:
SPBC839.08C	2	3.4%	: POSSIBLY REQUIRED FOR GLYCOSYLPHOSPHATIDYLINOSITOL (GPI) ANCHOR SYNTHESIS:
SPBC18H10.16	2	3.3%	: CCC NA-K-CL TRANSPORTER:
SPCC1259.02C	2	3.3%	: CONSERVED PROTEIN; CONTAINS 5 TRANSMEMBRANE HELICES; CONTAINS PFAM_B-1571; CONTAINS M20 PEPTIDASE; PREDICTED N-TERMINAL SIGNAL SEQUENCE:
PST1, SPBC12C2.10C, SPBC21D10.01C	3	3.2%	: CHROMATIN REMODELING FACTOR, SIN3 FAMILY COREPRESSOR:
SPCC576.05	2	3.2%	: PUTATIVE LEUCINE PERMEASE TRANSCRIPTIONAL REGULATOR:
FAST1, SPAC926.09C	5	3.1%	: FATTY ACID SYNTHASE, SUBUNIT BETA:
RGA2, SPAC26A3.09C	2	3.1%	: GTPASE ACTIVATOR; RHOGAP DOMAIN; SIMILAR TO S. CEREVISIAE BEM3:
SPAC56F8.03	2	3.1%	: PUTATIVE TRANSLATION INITIATION FACTOR IF-2; SIMILAR TO S. CEREVISIAE FUN12:
SPAC23C11.09	2	3.1%	: ALANYL-TRNA SYNTHETASE, CYTOPLASMIC:
SPCC330.11	2	3.0%	: BTB DOMAIN AND ANKARYIN REPEAT CONTAINING PROTEIN.:
SPAC328.06	2	3.0%	: UBIQUITIN CARBOXYL-TERMINAL HYDROLASE; SIMILAR TO S. CEREVISIAE UBP2:
SPAC167.01	2	3.0%	: PUTATIVE SERINE/THREONINE PROTEIN KINASE:
SPBC146.13C	2	2.8%	: PUTATIVE MYOSIN I PROTEIN:
CDC12, SPAC1F5.04C	2	2.7%	: REQUIRED FOR ACTIN RING ASSEMBLY:
SPAC2G11.02	2	2.7%	: HYPOTHETICAL PROTEIN; SIMILAR TO S. POMBE CUT1:
SPBC646.02	2	2.7%	: HYPOTHETICAL PROTEIN; AQUARIUS ORTHOLOG; POSSIBLY INVOLVED IN PTGS; NO APPARENT S. CEREVISIAE ORTHOLOG:
SYF1, SPBC211.02C, CWF3	2	2.7%	: PUTATIVE PRE-MRNA SPLICING FACTOR; SIMILAR TO S. CEREVISIAE SYF1:
SPBC29A10.10C	2	2.6%	: TRNA-SPLICING ENDONUCLEASE POSITIVE EFFECTOR:
SPAC24B11.12C	2	2.6%	: P-TYPE CALCIUM ATPASE:
RGA1, SPBC3F6.05	2	2.6%	: GTPASE ACTIVATOR; RHOGAP DOMAIN; LIM DOMAIN; INVOLVED IN ACTIN CYTOSKELETAL ORGANIZATION; INVOLVED IN FORMATION OF

			CELL WALL AND SEPTUM; SIMILAR TO S. CEREVISIAE LRG1:
SPBP19A11.04C	3	2.5%	: PUTATIVE TRANSCRIPTIONAL ACTIVATOR; LEUCINE ZIPPER:
RPB2, SPAC23G3.01, SPAC521.06	2	2.5%	: DNA-DIRECTED RNA POLYMERASE II 138 KD POLYPEPTIDE:
MAK1, SPAC1834.08	2	2.4%	: PUTATIVE SENSORY TRANSDUCTION HISTIDINE KINASE:
SPAC3F10.11C	2	2.4%	: ABC MULTIDRUG OR METAL ION EFFLUX TRANSPORTER:
ADE3, SPAC6F12.10C, MIN11	2	2.4%	: PUTATIVE PHOSPHORIBOSYLFORMYLGLYCINAMIDINE SYNTHASE; SUBCELLULAR LOCALIZATION OF GFP FUSION- CYTOPLASM:
SPAC212.11	5	2.3%	: DNA HELICASE POSSIBLY PSEUDO (PARTIAL):
RAD3, SPBC216.05	2	2.2%	: ATR (ATM) CHECKPOINT KINASE; SIMILAR TO S. CEREVISIAE MEC1:
SPBC1826.01C, SPBC25B2.12.C, SPBC25B2.12C,	2	2.2%	: TRANSCRIPTIONAL ACCESSORY PROTEIN (TAF) INVOLVED IN RNA POLYMERASE II TRANSCRIPTIONAL REPRESSION THROUGH INTERACTION WITH TATA-BINDING PROTEIN (TBP), SNF2P FAMILY OF DNA HELICASES:
SPCC1183.07	2	2.2%	: PUTATIVE RRNA BIOGENESIS PROTEIN; RRP5 HOMOLOG; MULTIPLE S1 RNA BINDING DOMAIN PROTEIN:
MYO51, SPBC2D10.14C	2	2.2%	: CLASS V MYOSIN; CYTOKINETIC ACTIN RING COMPONENT:
SPBC947.10	2	2.2%	: ZINC FINGER PROTEIN; ZF-C3HC4 TYPE (RING FINGER):
SPAPB8E5.09	2	2.2%	: PUTATIVE 3' TO 5' DNA/RNA HELICASE; POSSIBLY INVOLVED IN RIBOSOMAL RNA PROCESSING; SIMILAR TO S. CEREVISIAE RVB1:
SPBC31E1.06, SPBC800.01	2	2.1%	: POSSIBLY INVOLVED IN CELL POLARITY BY SIMILARITY TO YEAST BMS1:
ALM1, SPAC1486.04C	2	1.9%	: COILED-COIL PROTEIN; ASSOCIATES WITH THE MEDIAL REGION DURING MITOSIS; ABNORMAL LONG MORPHOLOGY PROTEIN:
MOK12, SPBC32H8.13C	2	1.8%	: ALPHA GLUCAN SYNTHASE:
SPAC167.07C, SPAC57A7.03C	2	1.8%	: PUTATIVE UBIQUITIN TRANSFERASE PUTATIVE UBIQUITIN LIGASE:
SPAC19D5.04	2	1.6%	: PUTATIVE UBIQUITIN LIGASE:
MOK13, SPBC16D10.05	2	1.4%	: ALPHA-GLUCAN SYNTHASE:
BFRT1, SPCC18B5.01C, HBA2, SPCPJ732.04C	2	1.2%	: MFS BREFELDIN A EFFLUX TRANSPORTER:
SPAC23E2.02	2	1.2%	: HYPOTHETICAL PROTEIN; SIMILAR TO S. POMBE SPBC146.09C; CONTAINS PFAM AMINO_OXIDASE DOMAIN; PUTATIVE HMG BOX DOMAIN; GFP FUSION NUCLEAR:
SPP42, SPAC4F8.12C, CWF6	2	0.9%	: U5 SNRNA-ASSOCIATED SPLICING FACTOR; PRE-MRNA SPLICING FACTOR; SIMILAR TO S. CEREVISIAE PRP8:
BGS4, SPCC1840.02C	2	0.9%	: PUTATIVE 1,3-BETA-GLUCAN SYNTHASE SUBUNIT; CELL WALL SYNTHESIS:
VPS13A, SPBC21C3.01C, SPBC31F10.18C	2	0.6%	: PUTATIVE VACUOLAR SORTING PROTEIN:

Table S3. List of proteins identified by mass spectrometry co-purifying with Dma1-3HA-TAP from mts3-1 arrested cells [Yeast strain used: YDM1972 *h- mts3-1 dma1-3HA-TAP::kanR sid4-GFP::kanR ura4-D18 leu1-32 ade6-21X*]. [2nd purification]

Protein Name/Locus	#Unique peptides	Sequence Coverage	Descriptive Name
DMA1 , SPAC17G8.10C	24	46.4%	: SPINDLE ASSEMBLY CHECKPOINT COMPONENT; PROTEIN TO PREVENT SEPTUM FORMATION AND PREMATURE EXIT FROM MITOSIS IF SPINDLE FUNCTION IS COMPROMISED: Q10322;
RPL23-1, SPAC3G9.03	3	34.5%	: 60S RIBOSOMAL PROTEIN L23: O42867;
RPL23-2, SPCC1322.11	3	34.5%	: 60S RIBOSOMAL PROTEIN L23: O42867;
RPL31, SPAC890.08	5	34.5%	: 60S RIBOSOMAL PROTEIN L31: O14384;Q9URX6;
HSP70, SPCC1739.13	14	31.7%	: HEAT SHOCK PROTEIN 70 FAMILY: O59855;
ACT1, SPBC32H8.12C, CPS8, PI012	5	30.7%	: ACTIN: P10989;Q10288;
RPS29, SPBC1685.09	2	30.4%	: 40S RIBOSOMAL PROTEIN S29: O74329;
RPL25A, SPBC106.18	6	29.8%	: 60S RIBOSOMAL PROTEIN L25: Q10330;
RPL25B, SPBC4F6.04, RPL23A-2	6	29.8%	: 60S RIBOSOMAL PROTEIN L25: O74391;
RPS7, SPAC18G6.14C	3	29.7%	: 40S RIBOSOMAL PROTEIN S7: Q10101;
RPS23, SPAC23C11.02C	3	28.7%	: 40S RIBOSOMAL PROTEIN S23: P79057;
RPS23-2, SPBP4H10.13	3	28.7%	: 40S RIBOSOMAL PROTEIN S23: P79057;
RPL37A-1, SPBC800.04C, RPL43-1	2	28.7%	: 60S RIBOSOMAL PROTEIN L37A/L43A: Q9HGL8;
RPL37A-2, SPBC83.02C, RPL43-2	2	28.7%	: 60S RIBOSOMAL PROTEIN L37A/L43: O13673;O94686;
GPD1, SPBC32F12.11, TDH1	8	28.3%	: GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE: P78958;
RPL35, SPCC613.05C	3	27.9%	: 60S RIBOSOMAL PROTEIN L35: O74904;
DNT1 , SPBC25D12.02C	9	24.2%	: HYPOTHETICAL PROTEIN; SEQUENCE ORPHAN; SERINE- RICH: O74354;
EF1-B, SPBC839.15C	8	23.9%	: ELONGATION FACTOR 1 ALPHA-B: ;NOACC;
TEF1-E, SPCC794.09C, EF1A-E	8	23.9%	: ELONGATION FACTOR 1-ALPHA-E: O59818;P50522;
EF1A-B, SPAC23A1.10, TEF1-B, TEF1-D, EF1A-B,	8	23.9%	: ELONGATION FACTOR 1 ALPHA-B/D: P78764;Q10119;
RPL13, SPAC664.05	2	23.6%	: 60S RIBOSOMAL PROTEIN L13: O74175;
HSP16, SPBC3E7.02C	2	22.4%	: HEAT SHOCK PROTEIN 16: O14368;
SPAC13G7.02C	10	21.0%	: HEAT SHOCK PROTEIN 70 FAMILY: Q10265;
RPS30-1, SPAC19B12.04	2	19.7%	: 40S RIBOSOMAL PROTEIN S30: O14314;O42952;
RPS30-2, SPBC19G7.03C, YSPRS30	2	19.7%	: 40S RIBOSOMAL PROTEIN S30: O14314;O42952;
GPD3, SPBC354.12	4	19.1%	: GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE: O43026;
RPS17-1, SPBC839.05C	2	18.3%	: 40S RIBOSOMAL PROTEIN S17: ;NOACC;
RPL17, SPBC2F12.04	2	18.2%	: 60S RIBOSOMAL PROTEIN L17: O14339;O59794;
RPL26, SPBC29B5.03C	2	17.5%	: 60S RIBOSOMAL PROTEIN L26: P78946;
RPS14-1, SPAC3H5.05C	2	17.3%	: 40S RIBOSOMAL PROTEIN S14: O14150;
RPS14-2,	2	17.3%	: 40S RIBOSOMAL PROTEIN S14: O14150;

SPBC18H10.13			
RPS5, SPAC8C9.08	2	17.2%	: 40S RIBOSOMAL PROTEIN S5: O14277;
RPS5-2, SPAC328.10C	2	17.2%	: 40S RIBOSOMAL PROTEIN S5: Q9P3T6;
RPL28-1, SPBC776.11	3	16.9%	: 60S RIBOSOMAL PROTEIN LL28B 27A: P57728;
RPL28-2, SPCC5E4.07	3	16.9%	: 60S RIBOSOMAL PROTEIN L27A.2/L28A: P36585;
RPS13, SPAC6F6.07C	2	16.6%	: 40S RIBOSOMAL PROTEIN S13: P28189;
RPS18-1, SPBC16D10.11C	2	15.8%	: 40S RIBOSOMAL PROTEIN S18: O94754;
RPS18-2, SPCC1259.01C, SPCC825.06C	2	15.8%	: RIBOSOMAL PROTEIN SUBUNIT S18 40S RIBOSOMAL PROTEIN S18: O94754; Q9USH4;
RPL8-1, SPAC1F7.13C, RPK5A, RPL2-1, SPAC21E1	4	15.0%	: 60S RIBOSOMAL PROTEIN L2A: P08093;P14067;P36593;Q9UU31;
RPL8-3, SPBC839.04, RPK5-B, RPKD4	4	15.0%	: 60S RIBOSOMAL PROTEIN L8: P08093;P14067;P36593;Q9UU31;
RPL8-2, SPBC2F12.07C, RPK37, RPK5B	4	15.0%	: 60S RIBOSOMAL PROTEIN L8 OR L2: P08093;P14067;P36593;Q9UU31;
RPL44, SPAC1687.06C, RPL28	2	14.9%	: 60S RIBOSOMAL PROTEIN L28/L44; NO APPARENT S. CEREVISIAE ORTHOLOG: O14069;P36585;
RAD25, SPAC17A2.13C	3	14.8%	: DNA DAMAGE CHECKPOINT PROTEIN; 14-3-3 PROTEIN; SIMILAR TO S. CEREVISIAE BMH2: P42657;
RPT3, SPCC576.10C	2	8.2%	: 19S PROTEASOME REGULATORY SUBUNIT: O74894;
RPT6, SPBC23G7.12C, LET1	2	7.7%	: 19S PROTEASOME REGULATORY SUBUNIT: P41836;
HSP60, SPAC12G12.04, MCP60	3	7.4%	: PUTATIVE MITOCHONDRIAL CHAPERONIN 60; PUTATIVE SUCCINATE DEHYDROGENASE ASSEMBLY; HEAT SHOCK PROTEIN 60: Q09864;Q10285;
SPBC83.08	2	7.1%	: PUTATIVE 3' TO 5' DNA/RNA HELICASE; POSSIBLY INVOLVED IN RIBOSOMAL RNA PROCESSING; POSSIBLY PROTEIN FOR SNORNA ACCUMULATION; POSSIBLY REQUIRED FOR THE PRODUCTION OF SNORNAS; SIMILAR TO S. CEREVISIAE RVB1: O94692;
SPBC800.13	2	6.7%	: SERINE RICH HYPOTHETICAL POSSIBLY NUCLEAR; SEQUENCE ORPHAN; HAS LOW SIMILAR TO HISTONE LIKE TRANSCRIPTION FACTORS, AND A DEAD BOX HELICASE- BELOW THRESHOLD; SUBCELLULAR LOCALIZATION OF GFP FUSION-NUCLEUS: Q9HGK9;
PMA1, SPAC1071.10C	4	6.5%	: P-TYPE PROTON ATPASE: P09627;
RPT6, SPBC23G7.12C, LET1	2	7.7%	: 19S PROTEASOME REGULATORY SUBUNIT: P41836;
RPT4, SPCC1682.16, SPCC306.01	2	6.4%	: 19S PROTEASOME REGULATORY SUBUNIT: O74445;Q9Y7R2;
SPAC10F6.01C, SPAC4C5.05C	3	4.3%	: PUTATIVE SULPHITE REDUCTASE; POSSIBLY INVOLVED IN SULPHATE ASSIMILATION; CELL WALL ORGANISATION AND BIOGENESIS; SIMILAR TO S. CEREVISIAE MET5 PUTATIVE FERREDOXIN OXIDOREDUCTASE: O14167;
EFT2-1, SPAC513.01C, SPAPYUK71.04C	2	4.3%	: ELONGATION FACTOR 2: O14460;Q9USG7;Q9USZ9;Q9UT64;

EFT2-2, SPCP31B10.07	2	4.3%	: ELONGATION FACTOR 2: O14460;Q9USG7;Q9USZ9;Q9UT64;
URA1, SPAC22G7.06C	5	4.1%	: CONTAINS GLUTAMINE-DEPENDENT CARBAMOYL- PHOSPHATESYNTASE; CONTAINS ASPARTATE CARBAMOYL TRANSFERASE; SIMILAR TO S. CEREVISIAE URA2: Q09794;
TIF33, SPAC1E11.01C, SPAC4A8.16C, SPAC823.0	2	3.1%	: TRANSLATION INTIATION FACTOR EIF-3 SUBUNIT: O13885;O14164;P78791;Q9P6P4;
MTS4, SPBP19A11.03C	2	3.1%	: 26S PROTEASOME REGULATORY SUBUNIT: P87048;Q9HDV7;
SPCC584.01C	2	2.7%	: PUTATIVE SULFITE REDUCTASE: Q09878;
SPCP31B10.06	2	2.1%	: C2 DOMAIN FAMILY PROTEIN; SIMILAR TO S. CEREVISIAE YML072C: Q9USG8;
LSD1, SPAC4A8.11C, FAS2	2	1.7%	: FATTY ACID SYNTHASE, SUBUNIT ALPHA:O14163;P78973;Q10289;Q96WT6; Q96WT7;Q96WT8;

Table S4. List of proteins identified by mass spectrometry co-purifying with Dnt1-3HA-TAP from wild-type cells [Yeast strain used: YDM2460 *h+ dnt1-3HA-TAP leu1-32 ura4-D18 ade6-210*].

Protein Name/Locus	#Unique peptides	Sequence Coverage	Descriptive Name
SPCC1739.13	57	57.3%	ssa2 heat shock protein 70 family Schizosaccharomyces pombe chr3
SPBC25D12.02c	54	51.3%	(dnt1) hypothetical protein Schizosaccharomyces pombe chr 2 Manual
SPBC1709.05	18	48.9%	sks2 hsc1 heat shock protein 70 family (PMID 8973306) Schizosaccharomyces pombe chr 2
SPAC23C11.11	17	47.0%	cka1 orb5 serine/threonine protein kinase Schizosaccharomyces pombe chr1
SPAC1851.03	7	46.3%	ckb1 protein kinase CK2 complex (beta subunit) (regulatory subunit) (PMID 8264625) Schizosaccharomyces pombe chr1
SPBC106.03	13	46.2%	hypothetical protein Schizosaccharomyces pombe chr 2
SPAC664.11	30	45.0%	ssc1 ssp1 heat shock protein 70 family (PMID 2123810) Schizosaccharomyces pombe chr 1
SPCC576.08c	7	44.3%	rps2 40S ribosomal protein S2 Schizosaccharomyces pombe chr 3
SPAC13G7.02c	40	41.9%	ssa1 heat shock protein 70 family Schizosaccharomyces pombe chr 1
SPAC17G8.10c	7	37.1%	dma1 zinc finger protein Schizosaccharomyces pombe chr 1
SPBC16H5.02	27	36.7%	pfk1 6-phosphofructokinase (predicted) Schizosaccharomyces pombe chr 2
SPAC22A12.15c	24	36.2%	bip1 bip BiP (PMID 1373379) Schizosaccharomyces pombe chr 1
SPAC23A1.10	21	35.9%	ef1a-b translation elongation factor (alpha 2 subunit) (PMID 9099890) Schizosaccharomyces pombe chr 1
SPCC794.09c	21	35.9%	ef1a-a translation elongation factor 1 (alpha 1 subunit) (PMID 9099890) Schizosaccharomyces pombe chr 3
SPBC839.15c	21	35.9%	ef1a-c translation elongation factor (alpha 1 subunit) (PMID 9099890) Schizosaccharomyces pombe chr 2
SPBC32F12.11	7	35.7%	gpd1 tdh1 glyceraldehyde 3-phosphate dehydrogenase Schizosaccharomyces pombe chr 2
SPBC11C11.06c	3	35.4%	hypothetical protein Schizosaccharomyces pombe chr 2
SPAC4A8.11c	42	33.6%	lsd1 fas2 fatty acid synthase (subunit alpha) (PMID 9693066) Schizosaccharomyces pombe chr 1
SPBP22H7.08	5	33.3%	rps1002 rps10-2, rps10B 40S ribosomal protein S10 Schizosaccharomyces pombe chr 2
SPBC32H8.12c	12	32.0%	act1 cps8 actin (PMID 1524835) Schizosaccharomyces pombe chr 2
SPCC16A11.10c	2	30.2%	oca8 cytochrome b5 (predicted) Schizosaccharomyces pombe chr 3
SPCC5E4.05c	6	28.8%	abhydrolase family Schizosaccharomyces

			pombe chr 3
SPAC926.09c	40	27.9%	fas1 fatty acid synthase (subunit beta) (predicted) Schizosaccharomyces pombe chr 1
SPBC1815.01	6	26.7%	eno101 eno1 enolase Schizosaccharomyces pombe chr 2
SPCC1906.01	5	26.4%	mannose-1-phosphate guanyltransferase Schizosaccharomyces pombe chr 3
SPBC609.05	7	25.6%	FACT complex component Schizosaccharomyces pombe chr 2
SPBC365.03c	4	25.6%	rpl2101 rpl21, rpl21-1 60S ribosomal protein L21 Schizosaccharomyces pombe chr 2
SPBC16H5.06	3	25.4%	rip1 ubiquinol-cytochrome-c reductase complex (sensu Eukarya) Schizosaccharomyces pombe chr 2
SPBC16G5.14c	5	25.3%	rps3 40S ribosomal protein S3 Schizosaccharomyces pombe chr 2
SPAC3A12.14	2	25.3%	cam1 calmodulin (PMID 3035538) Schizosaccharomyces pombe chr 1
SPAC17C9.09c	2	25.3%	tim13 protein translocase subunit Schizosaccharomyces pombe chr 1
SPAC1F8.06	6	25.2%	glycoprotein (predicted) Schizosaccharomyces pombe chr 1
SPBC3E7.02c	2	25.2%	hsp16 heat shock protein Schizosaccharomyces pombe chr 2
SPAC26F1.06	4	25.1%	gpm1 phosphoglycerate mutase (PMID 8110200) Schizosaccharomyces pombe chr 1
SPAC3H5.12c	6	24.8%	rpl501 rpl5-1, rpl5 60S ribosomal protein L5 Schizosaccharomyces pombe chr 1
SPBC11C11.09c	6	24.8%	rpl502 rpl5-2, rpl5b 60S ribosomal protein L5 Schizosaccharomyces pombe chr 2
SPAC17A2.13c	5	24.8%	rad25 14-3-3 protein Schizosaccharomyces pombe chr 1
SPAC17H9.12c	4	24.8%	NADH-cytochrome reductase (predicted) Schizosaccharomyces pombe chr 1
SPBC530.10c	5	24.5%	anc1 adenine nucleotide carrier (PMID 8675018) Schizosaccharomyces pombe chr 2
SPAC4H3.10c	9	24.4%	pyk1 pyruvate kinase (predicted) Schizosaccharomyces pombe chr 1
SPBC27.08c	7	24.1%	met3 SPBC28F2.01c sulfate adenylyltransferase (predicted) Schizosaccharomyces pombe chr 2
SPBC19F8.08	5	24.0%	rps401 rps4-1, rps4, SPBC25H2.17c 40S ribosomal protein S4A/S4.1 Schizosaccharomyces pombe chr 2
SPBC21B10.10	5	24.0%	rps402 rps4-2 40S ribosomal protein S4 Schizosaccharomyces pombe chr 2
SPAC22H12.04c	5	23.8%	rps102 rps1-2, rps3a-2 40S ribosomal protein S3a Schizosaccharomyces pombe chr 1
SPAC13G6.02c	5	23.8%	rps101 rps1-1, rps3a-1 40S ribosomal protein S3a Schizosaccharomyces pombe chr 1
SPCC18.14c	4	23.7%	rpp0 60S acidic ribosomal protein (predicted) Schizosaccharomyces pombe chr 3
SPBC18E5.04	5	23.5%	rpl1001 rpl10-1 60S ribosomal protein L10 Schizosaccharomyces pombe chr 2
SPAP7G5.05	5	23.5%	rpl1002 rpl10-2 60S ribosomal protein L10 Schizosaccharomyces pombe chr 1

SPCC364.03	7	23.0%	rpl1702 rpl17-2, rpl17 60S ribosomal protein L17 Schizosaccharomyces pombe chr 3
SPCC4G3.13c	2	22.3%	CUE domain protein Schizosaccharomyces pombe chr 3
SPBC29A3.04	8	22.0%	rpl701 rpl7a 60S ribosomal protein L7a (L8) Schizosaccharomyces pombe chr2
SPBC1703.13c	4	21.9%	mitochondrial carrier Schizosaccharomyces pombe chr 2
SPBC4C3.07	4	21.9%	COP9/signalosome complex (subunit 6) (predicted) Schizosaccharomyces pombe chr 2
SPCC584.01c	16	21.8%	sulfite reductase NADPH flavoprotein subunit (predicted) Schizosaccharomyces pombe chr 3
SPBP8B7.06	2	21.8%	rpp201 rpp2, rpp2-1 60S acidic ribosomal protein (P2A subunit) Schizosaccharomyces pombe chr 2
SPCC576.10c	5	21.6%	rpt3 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 3
SPBC2F12.04	5	21.4%	rpl1701 rpl17, rpl17-1 60S ribosomal protein L17 Schizosaccharomyces pombe chr 2
SPAC29A4.04c	7	21.3%	TruB family Schizosaccharomyces pombe chr 1
SPAC30C2.04	7	21.3%	cofactor for methionyl-and glutamyl-tRNA synthetases (predicted) Schizosaccharomyces pombe chr 1
SPBC2D10.08c	4	21.1%	mitochondrial ribosomal protein L4 Schizosaccharomyces pombe chr 2
SPBC28E12.01c	2	20.7%	apc13 SPBC9B6.12c anaphase-promoting complex (APC) (PMID 12477395) Schizosaccharomyces pombe chr 2
SPBC354.12	4	20.6%	gpd3 glyceraldehyde 3-phosphate dehydrogenase Schizosaccharomyces pombe chr 2
SPCC285.17	8	20.6%	spp27 uaf30 transcription factor Schizosaccharomyces pombe chr 3
SPBC20F10.01	3	20.6%	gar1 SPBC25H2.01c ribonucleoprotein (RNP) complex (PMID 8502556) Schizosaccharomyces pombe chr 2
SPBC16G5.11c	2	20.5%	bag101 bag1-a, bag1 BAG-family Schizosaccharomyces pombe chr 2
SPAC1F7.04	2	20.3%	rho1 small GTPase Schizosaccharomyces pombe chr 1
SPAC24C9.12c	6	19.9%	serine hydroxymethyltransferase (predicted) Schizosaccharomyces pombe chr 1
SPAC6B12.12	7	19.7%	tom70 mitochondrial outer membrane translocase complex (predicted) Schizosaccharomyces pombe chr 1
SPAC694.02	24	19.6%	DEAD/DEAH box helicase Schizosaccharomyces pombe chr 1
SPCC306.08c	3	19.6%	malate dehydrogenase (predicted) Schizosaccharomyces pombe chr3
SPAC30C2.02	3	19.5%	mmd1 HEAT repeat Schizosaccharomyces pombe chr 1
SPBC2D10.10c	3	19.3%	fib1 fib fibrillar Schizosaccharomyces pombe chr 2
SPBC336.10c	2	19.1%	tif512 translation initiation factor Schizosaccharomyces pombe chr 2

SPBC1734.11	5	18.9%	chaperone regulator activity (predicted) Schizosaccharomyces pombe chr 2
SPBP19A11.03c	10	18.7%	mts4 rpn1 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 2
SPCC13B11.01	5	18.6%	adh1 adh alcohol dehydrogenase Schizosaccharomyces pombe chr3
SPAC19G12.08	4	18.4%	fatty acid hydroxylase (predicted) Schizosaccharomyces pombe chr 1
SPCC5E4.07	2	18.2%	rpl2802 rpl28-2 60S ribosomal protein L27a.2/L28A Schizosaccharomyces pombe chr 3
SPAC8E11.02c	4	18.1%	rad24 involved in DNA repair Schizosaccharomyces pombe chr 1
SPAC17A5.15c	8	17.9%	glutamate-tRNA ligase (predicted) Schizosaccharomyces pombe chr 1
SPBC29A3.18	3	17.9%	cyt1 cytochrome c1 (predicted) Schizosaccharomyces pombe chr 2
SPBC2G5.06c	5	17.6%	hmt2 cad1 sulfide-quinone oxidoreductase Schizosaccharomyces pombe chr 2
SPAC19G12.06c	2	17.6%	hta2 histone H2A (beta) Schizosaccharomyces pombe chr1
SPCC622.08c	2	17.4%	hta1 histone H2A (alpha) (PMID 3018512) Schizosaccharomyces pombe chr 3
SPAC18G6.12c	3	17.5%	B22918-1 B22918 domain Schizosaccharomyces pombe chr 1
SPBC14F5.03c	11	17.4%	kap123 karyopherin Schizosaccharomyces pombe chr 2
SPBC1718.04	7	17.3%	phosphate acyltransferase (SMART) Schizosaccharomyces pombe chr2
SPCC1281.06c	4	16.9%	acyl-coA desaturase (predicted) Schizosaccharomyces pombe chr3
SPAC3A11.10c	5	16.9%	microsomal dipeptidase (predicted) Schizosaccharomyces pombe chr1
SPAC9.07c	4	16.9%	GTP binding Schizosaccharomyces pombe chr 1
SPBC36B7.07	2	16.9%	tlg1 SNARE Schizosaccharomyces pombe chr 2
SPBC36B7.07	2	16.9%	tlg1 SNARE Schizosaccharomyces pombe chr 2
SPCC16C4.05	2	16.9%	RNase P and RNase MRP subunit (predicted) Schizosaccharomyces pombe chr 3
SPBC26H8.06	2	16.8%	grx5 arsenate reductase (glutaredoxin) activity (predicted) Schizosaccharomyces pombe chr 2
SPAC11E3.03	2	16.7%	pcs1 monopolin complex component (predicted) Schizosaccharomyces pombe chr 1
SPCC970.03	2	16.6%	cytochrome b5 reductase (predicted) Schizosaccharomyces pombe chr3
SPAC227.02c	3	16.6%	conserved eukaryotic protein Schizosaccharomyces pombe chr1
SPAC13A11.02c	4	16.4%	cyp51 cytochrome p45051 (predicted) Schizosaccharomyces pombe chr1
SPAC57A10.12c	6	16.3%	ura3 dihydroorotate dehydrogenase Schizosaccharomyces pombe chr1
SPAC3A11.07	9	16.2%	NADH dehydrogenase (predicted) Schizosaccharomyces pombe chr1

SPBC8D2.17	3	16.0%	galactosyltransferase Schizosaccharomyces pombe chr 2
SPAC23C11.17	4	15.9%	conserved eukaryotic protein Schizosaccharomyces pombe chr 1
SPAPB1A11.02	2	15.9%	esterase/lipase (predicted) Schizosaccharomyces pombe chr 1
SPAC1071.10c	9	15.5%	pma1 P-type proton ATPase (PMID 12707717) Schizosaccharomyces pombe chr 1
SPBC26H8.08c	4	15.3%	GTPase activity (predicted) Schizosaccharomyces pombe chr 2
SPBC31F10.06c	2	15.3%	sar1 GTP binding Schizosaccharomyces pombe chr 2
SPAC1B1.02c	5	15.1%	NAD kinase (predicted) Schizosaccharomyces pombe chr 1
SPAC26F1.07	2	15.0%	aldo/keto reductase Schizosaccharomyces pombe chr 1
SPAC1399.04c	2	15.0%	uracil phosphoribosyltransferase (predicted) Schizosaccharomyces pombe chr 1
SPBC56F2.09c	3	14.9%	arg5 carbamoyl-phosphate synthase (predicted) Schizosaccharomyces pombe chr 2
SPAC644.15	2	14.7%	rpp101 rpp1-1 60S acidic ribosomal protein Schizosaccharomyces pombe chr 1
SPBC3B9.13c	2	14.5%	rpp102 rpp1-2 60S acidic ribosomal protein Schizosaccharomyces pombe chr 2
SPBC16H5.08c	4	14.6%	ATPase Schizosaccharomyces pombe chr 2
SPBC1773.10c	5	14.6%	asparagine-tRNA ligase (predicted) Schizosaccharomyces pombe chr 2
SPAC4F10.14c	2	14.6%	btf3 nascent polypeptide-associated complex (predicted) (PMID 8809106) Schizosaccharomyces pombe chr 1
SPBP4H10.04	4	14.4%	ppb1 serine/threonine protein phosphatase (catalytic subunit) Schizosaccharomyces pombe chr 2
SPAC22G7.06c	20	14.3%	ura1 ATP binding Schizosaccharomyces pombe chr 1
SPAC222.12c	6	14.3%	atp2 F1-ATPase (beta subunit) (PMID 6228552) Schizosaccharomyces pombe chr 1
SPBC2G5.02c	4	14.2%	protein kinase CK2 complex (regulatory subunit) (predicted) Schizosaccharomyces pombe chr 2
SPBC14F5.05c	3	14.1%	sam1 S-adenosylmethionine synthetase (PMID 10620770) Schizosaccharomyces pombe chr 2
SPBC83.08	5	14.0%	AAA family ATPase Schizosaccharomyces pombe chr 2
SPBC776.15c	4	13.7%	dihydrolipoamide S-succinyltransferase (e2 component of oxoglutarate dehydrogenase complex) (predicted) Schizosaccharomyces pombe chr 2
SPAC821.11	4	13.7%	pro1 gamma-glutamyl phosphate reductase (predicted) Schizosaccharomyces pombe chr 1
SPBC13G1.01c	3	13.5%	mitochondrial ribosomal protein S4 Schizosaccharomyces pombe chr 2
SPBC24C6.05	2	13.5%	sec28 coatomer (epsilon subunit) (predicted) Schizosaccharomyces pombe chr 2
SPAC23G3.06	4	13.4%	ribonucleoprotein (RNP) complex (predicted) (PMID 12068309) Schizosaccharomyces

			pombe chr1
SPAC29B12.04	2	13.2%	snz1 involved in pyridoxine metabolism (predicted) Schizosaccharomyces pombe chr 1
SPBC19G7.10c	6	13.0%	topoisomerase associated protein (predicted) Schizosaccharomyces pombe chr 2
SPAC323.02c	2	13.0%	20S proteasome component (alpha 5) Schizosaccharomyces pombe chr1
SPAC19G12.12	2	12.9%	dlp1 coq1 decaprenyl diphosphate synthase (subunit 2) (PMID 14519123) Schizosaccharomyces pombe chr1
SPAC4F10.10c	3	12.8%	mannosyltransferase complex (predicted) Schizosaccharomyces pombe chr 1
SPBC17D1.06	4	12.5%	DEAD/DEAH box helicase Schizosaccharomyces pombe chr2
SPAC1B2.03c	2	12.3%	GNS1/SUR4 family protein Schizosaccharomyces pombe chr1
SPBC16E9.14c	2	12.2%	cation efflux family Schizosaccharomyces pombe chr2
SPBC1A4.05	8	12.1%	hypothetical protein Schizosaccharomyces pombe chr2
SPBP4H10.18c	2	12.1%	hypothetical protein Schizosaccharomyces pombe chr2
SPBC27B12.09c	2	11.9%	transporter Schizosaccharomyces pombe chr 2
SPBC1539.09c	4	11.7%	trp1 anthranilate synthase (component II) Schizosaccharomyces pombe chr2
SPCC794.12c	4	11.7%	mae2 malic enzyme Schizosaccharomyces pombe chr3
SPBC106.06	2	11.6%	cct4 chaperonin-containing T-complex Schizosaccharomyces pombe chr2
SPAC13G6.11c	4	11.6%	mevalonate kinase activity (predicted) Schizosaccharomyces pombe chr 1
SPAC25G10.05c	4	11.6%	his1 ATP phosphoribosyltransferase (PMID 7732725) Schizosaccharomyces pombe chr 1
SPBC19C7.12c	3	11.5%	mannosyltransferase (predicted) Schizosaccharomyces pombe chr2
SPAC2F3.02	2	11.5%	TPR repeat protein Schizosaccharomyces pombe chr1
SPBC18H10.17c	2	11.4%	sequence orphan Schizosaccharomyces pombe chr2
SPBC26H8.07c	2	11.2%	nda3 ben1, alp12 tubulin (beta) (PMID 6094012) Schizosaccharomyces pombe chr 2
SPAC22F3.09c	3	11.1%	mcs1 res2, pct1 transcription factor Schizosaccharomyces pombe chr1
SPAC10F6.01c	10	11.0%	SPAC4C5.05c sulfite reductase (predicted) Schizosaccharomyces pombe chr 1
SPBC1105.02c	3	11.0%	lys4 homocitrate synthase (predicted) Schizosaccharomyces pombe chr2
SPAC4H3.01	4	11.0%	DNAJ domain protein Schizosaccharomyces pombe chr1
SPAC17G6.13	3	10.9%	slt1 involved in response to drug Schizosaccharomyces pombe chr1
SPAC1783.08c	2	10.9%	rpl1502 rpl15-2 60S ribosomal protein L15b Schizosaccharomyces pombe chr1
SPCC576.11	2	10.9%	rpl15 60S ribosomal protein L15

			Schizosaccharomyces pombe chr3
SPAC959.02	2	10.7%	sec17 alpha SNAP Schizosaccharomyces pombe chr1
SPAC637.10c	2	10.7%	pus1 rpn10 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 1
SPBC146.14c	5	10.6%	sec26 SPBC337.01c adaptin Schizosaccharomyces pombe chr 2
SPAC513.01c	5	10.5%	eft201 eft2-1, etf2, SPAPYUK71.04c translation elongation factor 2 (PMID 9099890) Schizosaccharomyces pombe chr1
SPCP31B10.07	5	10.5%	eft202 translation elongation factor 2 (PMID 9099890) Schizosaccharomyces pombe chr 3
SPAC16E8.10c	2	10.4%	mitochondrial ribosomal protein S7 Schizosaccharomyces pombe chr1
SPBC18H10.03	2	10.3%	tif35 translation initiation factor Schizosaccharomyces pombe chr2
SPBC3E7.15c	2	10.2%	SPBC4F6.02c LAG1 domain Schizosaccharomyces pombe chr2
SPAC26A3.16	2	10.2%	dph1 ubiquitin family protein Schizosaccharomyces pombe chr1
SPBC14F5.02	2	10.1%	sequence orphan Schizosaccharomyces pombe chr2
SPBC31A8.01c	2	10.1%	cwl1 rttn1, SPBC651.13c reticulon-like protein Schizosaccharomyces pombe chr 2
SPCC569.06	2	10.0%	similar to S. pombe SPCC61.05 and SPAC26H5.07C Schizosaccharomyces pombe chr 3
SPAC12G12.07c	2	10.0%	hypothetical protein Schizosaccharomyces pombe chr1
SPBP35G2.07	5	9.9%	ilv1 acetolactate synthase subunit (PMID 8299177) Schizosaccharomyces pombe chr 2
SPBC17G9.09	3	9.9%	tif213 translation initiation factor 2 (gamma subunit) Schizosaccharomyces pombe chr 2
SPCC1795.03	2	9.9%	gms1 UDP-galactose transporter Schizosaccharomyces pombe chr3
SPBC17A3.04c	5	9.8%	methionine-tRNA ligase (predicted) Schizosaccharomyces pombe chr2
SPAC1834.11c	5	9.8%	sec18 AAA family ATPase Schizosaccharomyces pombe chr1
SPBC11B10.01	3	9.8%	SPBC32H8.14 glycosyl transferase family 1 Schizosaccharomyces pombe chr 2
SPBC13E7.08c	2	9.8%	proteasome interacting protein (predicted) Schizosaccharomyces pombe chr 2
SPCPB16A4.05c	2	9.8%	urease accessory protein UREG (ISS) Schizosaccharomyces pombe chr3
SPBC12D12.03	4	9.7%	cct1 chaperonin-containing T-complex Schizosaccharomyces pombe chr2
SPAC3H8.02	2	9.7%	sec14 cytosolic factor family Schizosaccharomyces pombe chr1
SPAC20H4.06c	2	9.6%	hypothetical protein Schizosaccharomyces pombe chr1
SPCC1840.03	7	9.5%	sal3 pse1 karyopherin Schizosaccharomyces pombe chr 3
SPBC215.03c	2	9.5%	csn1 COP9/signalosome complex (subunit 1) Schizosaccharomyces pombe chr 2

SPCC757.09c	2	9.5%	rnc1 RNA-binding protein Schizosaccharomyces pombe chr3
SPBC19C2.07	2	9.5%	fba1 fructose-bisphosphate aldolase (PMID 8286404) Schizosaccharomyces pombe chr 2
SPBC1289.06c	3	9.4%	sequence orphan Schizosaccharomyces pombe chr2
SPBC56F2.12	3	9.4%	acetoxyacid reductoisomerase (predicted) Schizosaccharomyces pombe chr 2
SPBP4H10.11c	3	9.3%	long-chain-fatty-acid-CoA ligase activity (predicted) Schizosaccharomyces pombe chr 2
SPAC21E11.08	3	9.3%	lcb2 SPAC2C4.02 serine palmitoyltransferase (PMID 8921873) (predicted) Schizosaccharomyces pombe chr 1
SPBC17G9.05	2	9.3%	cyp6 cyclophilin Schizosaccharomyces pombe chr 2
SPBC19G7.16	3	9.3%	transcription elongation factor complex (predicted) Schizosaccharomyces pombe chr2
SPCC16A11.16c	2	9.3%	glycoprotein (predicted) Schizosaccharomyces pombe chr3
SPAC1851.02	2	9.3%	fatty acyltransferase Schizosaccharomyces pombe chr1
SPBC800.09	2	9.2%	sum2 involved in G2/M transition checkpoint (required) (PMID 9832516) Schizosaccharomyces pombe chr2
SPBC25B2.03	2	9.0%	zinc finger protein Schizosaccharomyces pombe chr2
SPBC18E5.02c	3	9.0%	SPBC29A3.20c serine palmitoyltransferase (subunit) (predicted) Schizosaccharomyces pombe chr 2
SPBC354.02c	3	9.0%	sec61 translocon (alpha subunit) (predicted) (PMID 9427389) Schizosaccharomyces pombe chr2
SPBC32H8.03	2	9.0%	bem46 suppressor of bem1 Schizosaccharomyces pombe chr2
SPAC1F7.05	3	8.9%	cdc22 ribonucleoside reductase Schizosaccharomyces pombe chr1
SPCC417.08	5	8.7%	tef3 EF-3 translation elongation factor activity (TAS) (PMID 9099890) Schizosaccharomyces pombe chr3
SPAC3C7.08c	6	8.5%	elf1 AAA family ATPase Schizosaccharomyces pombe chr1
SPBC17D11.05	4	8.5%	tif32 translation initiation factor Schizosaccharomyces pombe chr2
SPBC16D10.07c	2	8.5%	sir2 transcriptional regulator Schizosaccharomyces pombe chr2
SPBC29B5.04c	3	8.4%	conserved fungal protein Schizosaccharomyces pombe chr2
SPCC1840.08c	3	8.4%	protein disulfide isomerase oxidoreductase family Schizosaccharomyces pombe chr3
SPBC646.11	4	8.4%	cct6 chaperonin-containing T-complex Schizosaccharomyces pombe chr2
SPAC17H9.05	2	8.4%	ebp2 P40-like Schizosaccharomyces pombe chr 1
SPAC922.07c	2	8.3%	aldehyde dehydrogenase (predicted) Schizosaccharomyces pombe chr1
SPAC926.04c	4	8.2%	swo1 hsp90 chaperone activity

			Schizosaccharomyces pombe chr1
SPAC3H1.10	2	8.2%	phytochelatin synthetase (PMID 10368185) (PMID 10369673) Schizosaccharomyces pombe chr1
SPBC4C3.09	2	8.2%	galactosyltransferase family 8 Schizosaccharomyces pombe chr2
SPAC926.08c	2	8.2%	RNA-binding protein Schizosaccharomyces pombe chr1
SPCC1902.01	3	8.1%	gaf1 SPCC417.01c transcription factor (PMID 9714831) Schizosaccharomyces pombe chr 3
SPBC16A3.12c	2	8.1%	triglyceride lipase-cholesterol esterase (predicted) Schizosaccharomyces pombe chr 2
SPBC887.10	2	8.0%	mcs4 mitotic catastrophe suppressor Schizosaccharomyces pombe chr2
SPAC6G9.03c	2	8.0%	hypothetical protein Schizosaccharomyces pombe chr1
SPAP8A3.13c	2	7.9%	hypothetical protein Schizosaccharomyces pombe chr1 Manual
SPBC23G7.12c	2	7.9%	rpt6 let1 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 2
SPBC19C7.06	3	7.8%	proline-tRNA ligase (predicted) Schizosaccharomyces pombe chr2
SPAC3F10.03	3	7.8%	glycine tRNA-ligase Schizosaccharomyces pombe chr1
SPBC646.05c	2	7.8%	erg9 squalene synthase (PMID 8474436) Schizosaccharomyces pombe chr 2
SPBC3B8.03	2	7.8%	saccharopine dehydrogenase [NADP+, l-glutamate forming] (predicted) Schizosaccharomyces pombe chr2
SPAC23G3.11	2	7.8%	rpn6 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 1
SPAC26A3.17c	2	7.8%	SPAC8E11.11 N-methyltransferase (predicted) Schizosaccharomyces pombe chr 1
SPAPB1E7.09	3	7.7%	
SPBC16A3.15c	2	7.7%	nda2 tubulin (alpha 1) Schizosaccharomyces pombe chr2
SPAC1006.07	2	7.7%	translation initiation factor Schizosaccharomyces pombe chr1
SPBC646.09c	2	7.6%	yin6 int6 translation initiation factor Schizosaccharomyces pombe chr2
SPCC1795.11	2	7.5%	sum3 ded1, slh3, moc2 DEAD/DEAH box helicase Schizosaccharomyces pombe chr 3
SPAC1786.03	3	7.5%	cut11 SPAC24C9.01 localization nuclear membrane Schizosaccharomyces pombe chr 1
SPAC23A1.12c	3	7.5%	phenylalanine-tRNA ligase (beta subunit) (predicted) Schizosaccharomyces pombe chr1
SPAC3A11.12c	2	7.5%	rpt5 pam2, tpb1 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 1
SPAC186.02c	2	7.5%	2-hydroxyacid dehydrogenase (predicted) Schizosaccharomyces pombe chr 1
SPBC19G7.13	2	7.4%	Myb family Schizosaccharomyces pombe chr 2
SPCC1259.09c	2	7.2%	pyruvate dehydrogenase protein x component (predicted) Schizosaccharomyces pombe chr3

SPAC139.02c	2	7.2%	MC oxaloacetate transporter (putative) Schizosaccharomyces pombe chr 1
SPAC18G6.05c	13	7.1%	HEAT repeat Schizosaccharomyces pombe chr 1
SPBC30B4.05	4	7.1%	karyopherin (predicted) Schizosaccharomyces pombe chr2
SPBC19F5.05c	3	7.1%	ppp1 SPBC25D12.01c localization nucleolus (predicted) Schizosaccharomyces pombe chr2
SPAC18B11.02c	2	7.1%	DRAP deaminase activity (predicted) Schizosaccharomyces pombe chr 1
SPCC1827.03c	2	7.0%	long-chain fatty acid transporter (predicted) Schizosaccharomyces pombe chr 3
SPAC4D7.05	2	7.0%	sum1 tif34 translation initiation factor Schizosaccharomyces pombe chr 1
SPAC9.09	3	6.9%	homocysteine methyltransferase Schizosaccharomyces pombe ch1
SPBC6B1.09c	2	6.9%	nbs1 FHA domain (phosphopeptide binding) Schizosaccharomyces pombe chr 2
SPAC31A2.12	2	6.9%	arrestin family Schizosaccharomyces pombe chr 1
SPAC4A8.06c	2	6.7%	esterase (predicted) Schizosaccharomyces pombe chr 1
SPAC1F8.07c	3	6.7%	pyruvate decarboxylase (predicted) Schizosaccharomyces pombe chr 1
SPBC2G5.01	2	6.7%	hypothetical protein Schizosaccharomyces pombe chr2
SPAP8A3.09c	2	6.6%	paa1 protein phosphatase regulatory subunit Schizosaccharomyces pombe chr 1
SPCC553.10	2	6.6%	serine-rich protein Schizosaccharomyces pombe chr3
SPAC9E9.12c	4	6.5%	transporter activity Schizosaccharomyces pombe chr 1
SPAC25G10.08	3	6.5%	translation initiation factor Schizosaccharomyces pombe chr 1
SPAC8E11.01c	2	6.5%	SPAC959.01 glycosyl hydrolase family 32 Schizosaccharomyces pombe chr 1
SPAC1420.03	2	6.5%	rpn501 rpn5-a 19S proteasome regulatory subunit (PMID 12783882) Schizosaccharomyces pombe chr 1
SPAPB8E5.02c	2	6.5%	rpn502 rpn5-b 19S proteasome regulatory subunit (PMID 12783882) Schizosaccharomyces pombe chr 1
SPBC25H2.02	3	6.4%	ths1 threonine-tRNA ligase (predicted) Schizosaccharomyces pombe chr 2
SPBP19A11.07c	2	6.4%	SPBP4H10.02c hypothetical protein Schizosaccharomyces pombe chr 2
SPBC17F3.02	2	6.4%	nak1 N-terminal protein kinase Schizosaccharomyces pombe chr2
SPBC1773.01	2	6.4%	WD repeat protein Schizosaccharomyces pombe chr2
SPBC2D10.18	2	6.4%	abc1 coq8 ABC1 family Schizosaccharomyces pombe chr2
SPCC364.06	2	6.4%	involved in nucleosome assembly (predicted) Schizosaccharomyces pombe chr 3
SPAC16.04	2	6.2%	zinc finger protein Schizosaccharomyces pombe chr 1

SPBC119.01	2	6.2%	rpn3 SPBPJ4664.07 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 2
SPBC646.10c	2	6.2%	ribonucleoprotein (RNP) complex (predicted) (PMID 12068309) Schizosaccharomyces pombe chr2
SPCC1682.16	2	6.2%	rpt4 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 3
SPBP4H10.15	4	6.1%	aconitate hydratase (predicted) Schizosaccharomyces pombe chr2
SPAC7D4.11c	2	6.1%	hypothetical protein Schizosaccharomyces pombe chr1
SPCP1E11.11	3	6.1%	RNA-binding protein Schizosaccharomyces pombe chr3
SPCC962.03c	2	6.1%	cut15 karyopherin Schizosaccharomyces pombe chr 3
SPAC14C4.14	2	6.0%	atp1 F1-ATPase (alpha subunit) (PMID 1824697) Schizosaccharomyces pombe chr 1
SPAC56E4.04c	8	5.9%	cut6 acetyl-CoA carboxylase Schizosaccharomyces pombe chr1
SPAC1D4.11c	3	5.9%	lkh1 kic1 dual specificity protein kinase Schizosaccharomyces pombe chr 1
SPAC12B10.16c	2	5.9%	hypothetical protein Schizosaccharomyces pombe chr1
SPAC3H1.05	2	5.9%	CAAX prenyl protease (predicted) Schizosaccharomyces pombe chr1
SPBC646.14c	2	5.9%	orc5 origin recognition complex (subunit 5) Schizosaccharomyces pombe chr 2
SPAC1F12.07	2	5.9%	phosphoserine aminotransferase (predicted) Schizosaccharomyces pombe chr 1
SPCC4G3.18	3	5.8%	hypothetical protein Schizosaccharomyces pombe chr3
SPCC895.07	2	5.8%	alp14 localization spindle pole body Schizosaccharomyces pombe chr3
SPAC9E9.03	3	5.8%	leu2 3-isopropylmalate dehydratase (predicted) Schizosaccharomyces pombe chr 1
SPBP8B7.19	5	5.7%	FACT complex component Schizosaccharomyces pombe chr2
SPCC1259.02c	3	5.7%	6 predicted transmembrane helices Schizosaccharomyces pombe chr3
SPBC428.01c	2	5.7%	nup107 SPBC582.11c nucleoporin (PMID 11309419) Schizosaccharomyces pombe chr 2
SPAC167.05	2	5.7%	SPAC57A7.01 Usp (universal stress protein) domain Schizosaccharomyces pombe chr 1
SPAC1420.01c	2	5.7%	SPAC56E4.08c hypothetical protein Schizosaccharomyces pombe chr1
SPAC56F8.03	3	5.6%	translation initiation factor if-2 (predicted) Schizosaccharomyces pombe chr 1
SPBC21H7.04	2	5.6%	DEAD/DEAH box helicase Schizosaccharomyces pombe chr2
SPBC21C3.15c	2	5.6%	aldehyde-dehydrogenase-like Schizosaccharomyces pombe chr 2
SPBP19A11.06	3	5.5%	lid2 SPBP4H10.01 transcription factor Schizosaccharomyces pombe chr2
SPBC4F6.17c	2	5.5%	AAA family ATPase Schizosaccharomyces pombe chr2

SPBC651.01c	2	5.5%	SPBC725.18c GTPase activity (predicted) Schizosaccharomyces pombe chr 2
SPAC22F8.08	2	5.4%	COPII-coated vesicle component (predicted) Schizosaccharomyces pombe chr 1
SPAC29A4.02c	2	5.4%	translation elongation factor 1 (gamma subunit) (PMID 9099890) Schizosaccharomyces pombe chr1
SPAC26A3.05	6	5.3%	chc1 clathrin heavy chain (predicted) Schizosaccharomyces pombe chr1
SPBC83.16c	3	5.3%	conserved protein Schizosaccharomyces pombe chr2
SPAC1D4.12	2	5.2%	rad15 rhp3 transcription factor TFIIH complex Schizosaccharomyces pombe chr 1
SPBC21.01	2	5.2%	SPBC776.19 hypothetical protein Schizosaccharomyces pombe chr2
SPBPJ4664.06	4	5.1%	gpt1 glycosyl transferase family 8 Schizosaccharomyces pombe chr2
SPBC17G9.11c	3	5.1%	pyr1 pyruvate carboxylase Schizosaccharomyces pombe chr2
SPBC29A3.14c	2	5.1%	trt1 telomerase catalytic subunit (PMID 9774280) Schizosaccharomyces pombe chr 2
SPBC660.08	2	5.1%	sequence orphan Schizosaccharomyces pombe chr2
SPAC1805.17	3	5.0%	crm1 caf2, SPAC1B2.01 chromosome region maintenance protein 1 Schizosaccharomyces pombe chr1
SPBC3D6.13c	2	5.0%	protein disulfide isomerase oxidoreductase family Schizosaccharomyces pombe chr2
SPBC1A4.09	2	5.0%	conserved protein Schizosaccharomyces pombe chr2
SPAC22H10.07	2	5.0%	scd2 ral3 involved in conjugation (regulation) Schizosaccharomyces pombe chr 1
SPBC1105.01	3	4.9%	SPBPB7E8.03 HEAT repeat (ISS) (PMID 14729571) Schizosaccharomyces pombe chr 2
SPBC17D1.07c	2	4.9%	calcium binding protein Schizosaccharomyces pombe chr2
SPCP1E11.06	2	4.9%	apl4 adaptin (predicted) Schizosaccharomyces pombe chr3
SPCC757.04	2	4.8%	transcriptional regulator (predicted) Schizosaccharomyces pombe chr3
SPCC1494.03	2	4.7%	hypothetical protein Schizosaccharomyces pombe chr3
SPAC328.01c	2	4.6%	SPAC3A11.01 importin-beta family Schizosaccharomyces pombe chr1
SPAC1B3.13	2	4.6%	WD repeat protein Schizosaccharomyces pombe chr1
SPAPB8E5.07c	3	4.5%	HEAT repeat Schizosaccharomyces pombe chr 1
SPCC4G3.12c	2	4.5%	zinc finger protein Schizosaccharomyces pombe chr3
SPCC1020.01c	3	4.4%	pma2 SPCC1393.01 P-type proton ATPase (PMID 12707717) Schizosaccharomyces pombe chr3
SPAC24H6.01c	2	4.4%	SPAPB21F2.01 O-acyl transferase (predicted) Schizosaccharomyces pombe chr 1
SPAC23A1.07	1	4.4%	zinc finger protein Schizosaccharomyces pombe chr1

SPAC9G1.10c	2	4.3%	inositol polyphosphate phosphatase (predicted) Schizosaccharomyces pombe chr 1
SPAPB2C8.01	4	4.3%	glycoprotein (predicted) Schizosaccharomyces pombe chr1
SPBC3B8.11	2	4.3%	hypothetical protein Schizosaccharomyces pombe chr2
SPBC19C7.11	2	4.3%	ClC chloride channel (predicted) Schizosaccharomyces pombe chr2
SPBP8B7.20c	2	4.3%	methyltransferase (predicted) Schizosaccharomyces pombe chr2
SPAC20G8.09c	2	4.2%	conserved protein Schizosaccharomyces pombe chr1
SPCC31H12.07	2	4.2%	sec231 sec23a, SPCC5E4.01 GTPase activating protein (ISS) Schizosaccharomyces pombe chr3
SPBC4F6.13c	2	4.2%	WD repeat protein Schizosaccharomyces pombe chr2
SPBC337.08c	1	4.2%	ubi4 ubiquitin family protein Schizosaccharomyces pombe chr2
SPAC6F6.06c	3	4.1%	involved in cell polarity (predicted) Schizosaccharomyces pombe chr1
SPCC550.11	2	4.1%	RanBP7/importin-beta/Cse1p family Schizosaccharomyces pombe chr3
SPBC20F10.05	2	4.1%	sequence orphan Schizosaccharomyces pombe chr2
SPAC29B12.07	3	4.0%	sec16 involved in ER to Golgi transport Schizosaccharomyces pombe chr 1
SPBC17G9.04c	2	4.0%	nup85 nuclear pore complex Schizosaccharomyces pombe chr2
SPBC691.05c	2	4.0%	pi030 SPBP22H7.01c ion channel (predicted) Schizosaccharomyces pombe chr 2
SPBC13A2.04c	2	4.0%	ptr2 PTR family peptide transporter Schizosaccharomyces pombe chr2
SPAC19A8.08	2	3.9%	upf2 involved in mRNA catabolism, nonsense-mediated (required) (PMID 11073994) Schizosaccharomyces pombe chr 1
SPBC25H2.11c	2	3.9%	bromodomain protein Schizosaccharomyces pombe chr2
SPBC25H2.13c	3	3.8%	cdc20 pol2 DNA polymerase epsilon (catalytic subunit a) (PMID 9356477) Schizosaccharomyces pombe chr2
SPBC1105.08	2	3.8%	EMP70 family Schizosaccharomyces pombe chr 2
SPAC19B12.07c	2	3.8%	zinc finger protein Schizosaccharomyces pombe chr1
SPCC962.01	3	3.7%	SPCP31B10.09 C2 domain Schizosaccharomyces pombe chr3
SPBC4.03c	2	3.7%	COPII-coated vesicle component (putative) Schizosaccharomyces pombe chr 2
SPBC21D10.09c	2	3.6%	zinc finger protein Schizosaccharomyces pombe chr2
SPAC2F3.06c	2	3.6%	kap104 karyopherin Schizosaccharomyces pombe chr 1
SPAC4F10.09c	2	3.6%	involved in ribosome biogenesis and assembly (predicted) Schizosaccharomyces pombe chr1
SPCC1223.07c	2	3.6%	aspartate-tRNA ligase (predicted) Schizosaccharomyces pombe chr3

SPAC17A5.14	2	3.5%	exo2 exonuclease II (PMID 8781170) Schizosaccharomyces pombe chr1
SPAC29E6.10c	2	3.5%	SPAC30.14c conserved protein Schizosaccharomyces pombe chr1
SPAC110.04c	2	3.5%	pss1 ssp1, SPAP14E8.01c heat shock protein 70 family Schizosaccharomyces pombe chr1
SPCC63.04	3	3.4%	mok14 a-1,3-glucan synthase Schizosaccharomyces pombe chr3
SPAC57A7.10c	2	3.4%	sec21 adaptin Schizosaccharomyces pombe chr1
SPBC20F10.07	2	3.4%	hypothetical protein Schizosaccharomyces pombe chr2
SPBC947.15c	2	3.3%	NADH dehydrogenase (predicted) Schizosaccharomyces pombe chr2
SPAC4F8.13c	3	3.2%	rng2 IQGAP Schizosaccharomyces pombe chr1
SPAC3G6.01	2	3.2%	hrp3 CHD family Schizosaccharomyces pombe chr1
SPAC1565.08	2	3.2%	cdc48 SPAC6F12.01 AAA family ATPase Schizosaccharomyces pombe chr1
SPCC736.14	2	3.1%	dis1 microtubule-associated protein (PMID 7628693) Schizosaccharomyces pombe chr3
SPAC20G8.06	3	3.0%	CCR4-Not complex (predicted) Schizosaccharomyces pombe chr1
SPAC26F1.13c	2	3.0%	leucine-tRNA ligase (predicted) Schizosaccharomyces pombe chr1
SPAC1834.02	3	2.9%	aro1 pentafunctional aromatic polypeptide Schizosaccharomyces pombe chr1
SPCC18B5.01c	3	2.9%	bfr1 hba2, SPCPJ732.04c ABC transporter family Schizosaccharomyces pombe chr3
SPAPYUK71.03c	2	2.9%	C2 domain Schizosaccharomyces pombe chr1
SPAPB15E9.01c	2	2.9%	SPAPB18E9.06c hypothetical protein Schizosaccharomyces pombe chr1
SPAC2F7.16c	3	2.8%	phospholipase D (predicted) Schizosaccharomyces pombe chr1
SPAC2G11.02	2	2.8%	hypothetical protein Schizosaccharomyces pombe chr1
SPBC36.07	2	2.7%	RNA polymerase II (elongator subunit) (predicted) Schizosaccharomyces pombe chr2
SPAC13G6.01c	2	2.7%	rad8 SPAC5H10.14c zinc finger protein Schizosaccharomyces pombe chr1
SPCC417.07c	3	2.6%	mbo1 involved in microtubule cytoskeleton organization and biogenesis (pers. comm. Sally McFall) Schizosaccharomyces pombe chr3
SPBC11C11.04c	2	2.6%	alp1 tubulin specific chaperone (cofactor D) Schizosaccharomyces pombe chr2
SPBC211.03c	2	2.5%	Sec7 domain Schizosaccharomyces pombe chr2
SPAC15A10.16	3	2.5%	fat1 SPAC15E1.01 actin-binding protein (predicted) Schizosaccharomyces pombe chr1
SPAC1071.02	2	2.4%	involved in DNA repair (predicted) Schizosaccharomyces pombe chr1
SPBC28F2.12	2	2.3%	rpb1 DNA-directed RNA polymerase (II subunit) (large subunit) (PMID 2011520) Schizosaccharomyces pombe chr2

SPAC688.10	2	2.3%	rev3 DNA polymerase zeta (catalytic subunit) Schizosaccharomyces pombe chr 1
SPAC23C4.19	2	2.3%	spt5 involved in transcriptional regulation Schizosaccharomyces pombe chr 1
SPBC16D10.08c	2	2.3%	AAA family ATPase Schizosaccharomyces pombe chr2
SPCC1919.10c	2	2.2%	myo52 myosin (type V) Schizosaccharomyces pombe chr3
SPCC1672.11c	2	2.2%	P-type ATPase (predicted) (PMID 12707717) Schizosaccharomyces pombe chr 3
SPBC17D11.07c	2	2.2%	rpn2 19S proteasome regulatory subunit Schizosaccharomyces pombe chr 2
SPAC1F8.03c	2	2.2%	str3 membrane transporter Schizosaccharomyces pombe chr1
SPAC1F5.04c	2	2.1%	cdc12 formin Schizosaccharomyces pombe chr 1
SPAC6G9.10c	2	2.1%	sen1 DNA2/NAM7 family Schizosaccharomyces pombe chr1
SPAC1782.01	2	2.1%	SPAPYUG7.07 conserved eukaryotic protein Schizosaccharomyces pombe chr 1
SPCC1620.14c	2	2.1%	SPCC830.01c SNF2 family Schizosaccharomyces pombe chr 3
SPCC290.03c	2	2.1%	nucleoporin Schizosaccharomyces pombe chr 3
SPAC31A2.05c	2	2.1%	mis4 adherin Schizosaccharomyces pombe chr 1
SPAC23D3.06c	2	2.1%	nucleoporin Schizosaccharomyces pombe chr 1
SPBC19C7.02	2	2.0%	ubr1 SPBC32F12.14 ubiquitin-protein ligase (E3) Schizosaccharomyces pombe chr 2
SPAP27G11.10c	2	2.0%	nup184 nucleoporin Schizosaccharomyces pombe chr 1
SPBPJ4664.02	3	1.9%	hypothetical protein Schizosaccharomyces pombe chr 2
SPAC19B12.03	2	1.9%	bgs3 1,3-beta-glucan synthase (subunit) (PMID 12582133) Schizosaccharomyces pombe chr 1
SPAPB24D3.09c	2	1.9%	ABC transporter family Schizosaccharomyces pombe chr 1
SPAC1093.06c	5	1.8%	dhc1 SPAC30C2.01c dynein heavy chain (PMID 10855500) Schizosaccharomyces pombe chr 1
SPAPB1E7.07	2	1.8%	glutamate synthase (predicted) Schizosaccharomyces pombe chr 1
SPBC216.05	2	1.6%	rad3 ATR (ATM) checkpoint kinase Schizosaccharomyces pombe chr 2
SPAC3G9.14	1	1.6%	sak1 RFX domain Schizosaccharomyces pombe chr 1
SPCC1281.01	2	1.5%	ags1 mok1, SPCC17A7.01, SPCC338.01c a-1,3-glucan synthase Schizosaccharomyces pombe chr 3
SPBC16C6.02c	3	1.4%	vps1302 vps13b involved in intracellular protein transport (predicted) Schizosaccharomyces pombe chr 2
SPCC23B6.03c	3	1.4%	tel1 phosphatidylinositol kinase Schizosaccharomyces pombe chr 3
SPAC23G3.02c	4	1.2%	peptide synthetase (predicted) Schizosaccharomyces pombe chr 1

SPBP19A11.04c	2	1.1%	mor2 cps12 involved in cellular morphogenesis (required) (PMID 12234926) Schizosaccharomyces pombe chr 2
SPCC737.08	2	0.7%	midasin (predicted) Schizosaccharomyces pombe chr 3