Supplemental Figure legends

Figure S1. Meiotic gene expression in WT, $cdh1\Delta$ and $mnd2\Delta$ strains. (A) Wild-type (RSY695), and $cdh1\Delta$ (RSY1210) strains were induced to enter meiosis and samples taken at the times indicated (in hrs). Total RNA was prepared and the transcription profiles of IME2, CDC20, SPS4 and SPS100 were analyzed by Northern blot analysis. Ethidium bromide-stained rRNA is shown as a loading control. (B) The experiment described in (A) was repeated with the $mnd2\Delta$ (KCY440) mutant strain.

Figure S2. Ama1p does not target Cdc20p for destruction via Db2 or KEN motifs. (A) Wild-type cells harboring the Cdc20p-18myc expression plasmids indicated on the left were induced to enter meiosis and samples taken for Western analysis at the timepoints indicated. The blots were stripped and reprobed for Tub1p as loading control. MI and MII indicate the approximate times of meiosis I (MI) and meiosis II (MII) as determined by DAPI analysis. (B) As in (A) but showing the later timepoints only. (C) Quantitation of the degradation kinetics of wild type and the mutated alleles of Cdc20p-18myc from Fig. 5B. Each experiment was repeated 3 times. (D) Quantitation of the degradation kinetics from the experiments described in Fig. 5C.

Figure S3. Ama1p and Cdc20p associate only when co-expressed in the same cell. An *ama1*Δ mutant (RSY562) harboring either Ama1p^{CBΔ/IRΔ} (pKC3048), Cdc20p (pMSC8), vector (pRS426 - lane 1), or both Ama1p^{CBΔ/IRΔ} (pKC3048) and Cdc20p^{CBΔ/IRΔ} (pKC5022) were induced to enter meiosis and cells harvested for analysis at 9 hours when both *AMA1* and *CDC20* are expressed (Cooper *et al.*, 2000). Extracts were prepared as described in Material and methods except equal amounts of extracts containing either vector and Ama1p^{CBΔ/IRΔ} (lane 1) or Cdc20p and Ama1p^{CBΔ/IRΔ} (lane 2) were mixed before immunoprecipitation and Western blot analysis. The top and middle panels control for protein expression. The bottom panel assays co-immunoprecipitation.

Supplemental Table 1

Strain	Genotype	Source		
RSY10	MAT $lpha$ ade2 ade6 can1-100 his3-11,15 leu2-3,112 trp1-1 ura3-1	(Cooper <i>et al.</i> , 1997)		
RSY335	cyh2 ^r -z ho::LYS2 leu2::hisG lys2 trp1::hisG ura3	(Cooper et al., 1997)		
RSY562*	ama1::KANMX4	(Cooper et al.)		
RSY695*	CDC20-18MYC::TRP1/CDC20	This study		
RSY696*	CDC16-6MYC::URA3/CDC16	(Cooper <i>et al.</i>)		
RSY809	cdc20-1	(Mallory <i>et al.</i> , 2007)		
RSY853*	ama1::KANMX4 CDC20-18myc::TRP1/CDC20	This study		
RSY1055	Cdc16::TAP/CDC16	(Mallory et al., 2007)		
RSY1210*	cdh1::LEU2 CDC20-18myc::TRP1/CDC20	This study		
KCY224*	TUB4-GFP::URA3/TUB4	This study		
KCY225*	ama1::KANMX4 TUB4-GFP::URA3/TUB4	This study		
KCY440*	mnd2::KANMX4 CDC20-18myc::TRP1/CDC20	This study		
CMY15	$MATa/MAT\alpha$ ho::LYS2 leu2::hisG trp1::hisG lys2/lys2 ura3 ama1::KANMX4 SMK1-HA	(McDonald <i>et al.</i> , 2005)		

Yeast Strains used in this study. Strains marked with an asterisk are isogenic to RSY335. All strains are diploids (except RSY10, RSY1270 and RSY1055) and the alleles in diploid strains are homozygous unless indicated.

Supplemental Table 2

Name	Gene Target	Mutation Created	Oligonucleotide
Db1	CDC20	RXXL-AXXA	GCAATTAGCGGTAACGCGTCTGTAGCTTCTATTGCGTCC
Db2	CDC20	RXXL-AXXA	AACATTAGAAACTCCAAAGCGCCCAGTGCACAGGCC TCT GCCAATTCTATT
KEN	CDC20	KEN-AAA	GGTTGTCGAACAAATGATGCGGCCGCTCGTTCCAAAAAT TCG
GXEN	CDC20	GXEN-GXAN	GCCACAGTGGGAGGAGATGCAAACTTAAAATTT
CB	CDC20	DRYIPIL-∆	GCAATTTACAGTAGCTGCCCAAGGAGCTTCGCAAAAC
IR	CDC20	IR-Δ	AGTACCAGCCAATATTTGTGATAAAATAAAAAAAAAAATAAAAG TTCATGTCA
CB	AMA1	DRFIPKS-∆	GCGGAAATTCTACAGAGGTTGTTTCGAGAAATGC
IR	AMA1	IR-∆	GGTATCGAAACAACATAACAAACGTTAATATAAAAAAA GGATATTCATTGC

Oligonucleotides used in this study with their accompanying mutation identified.

Supplemental Table 3

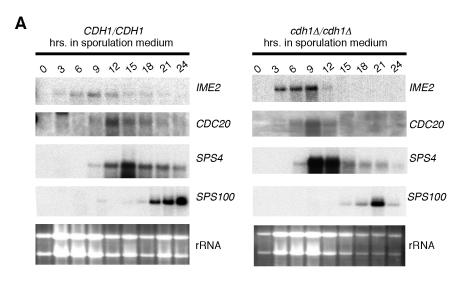
Mutation	Gene	Epitope Tag	Plasmid Name	Promotor	2μ or CEN	Reference
WT	CDC20	18 myc	pMSC7	CDC20	CEN	This study
Db1	CDC20	18 myc	pKC5030	CDC20	CEN	This study
Db2	CDC20	18 myc	pKC5031	CDC20	CEN	This study
Db1/Db2	CDC20	18 myc	pKC5047	CDC20	CEN	This study
KEN	CDC20	18 myc	pKC5029	CDC20	CEN	This study
Db1/Db2/KEN	CDC20	18 myc	pKC5034	CDC20	CEN	This study
GXEN	CDC20	18 myc	pKC5043	CDC20	CEN	This study
Db1/GxEN	CDC20	18 myc	pKC5045	CDC20	CEN	This study
CB/IR	CDC20	18 myc	pKC5065	CDC20	CEN	This study
WT	CDC20	24 myc	pUS995	GAL1	CEN	(Goh <i>et al.</i> ,
						2000)
Db1	CDC20	24 myc	pKC5006	GAL1	CEN	This study
GXEN	CDC20	24 myc	pKC5009	GAL1	CEN	This study
Db1/GxEN	CDC20	24 myc	pKC5016	GAL1	CEN	This study
KEN	CDC20	24 myc	pKC5007	GAL1	CEN	This study
WT	CDC20	18 myc	pMSC8	CDC20	2μ	(Mallory <i>et al.</i> , 2007)
СВ	CDC20	18 myc	pKC5020	CDC20	2μ	This study
IR	CDC20	18 myc	pKC5021	CDC20	2µ	This study
CB/IR	CDC20	18 myc	pKC5022	CDC20	2µ	This study
Db1	CDC20	18 myc	pKC5023	CDC20	2µ	This study
Db1/GxEN	CDC20	18 myc	pKC5046	CDC20	2μ	This study
WT	CDC20	No Tag	pKC5069	AMA1	ĊEN	This study
Db1/GxEN	CDC20	No Tag	pKC5070	AMA1	CEN	This study

WT	CDC20	No Tag	pKC5071	AMA1	2μ	This study
Db1/GxEN	CDC20	No Tag	pKC5072	AMA1	2μ	This study
WT (<i>TRP1</i>)	AMA1	1 T7	pKC3036	AMA1	2μ	This study
CB	AMA1	1 T7	pKC3045	AMA1	2μ	This study
IR	AMA1	1 T7	pKC3046	AMA1	2μ	This study
CB/IR (TRP1)	AMA1	1 T7	pKC3048	AMA1	2µ	This study
WT (<i>URA3</i>)	AMA1	1 T7	pKC3056	AMA1	2µ	This study
CB/IR (URA3)	AMA1	1 T7	pKC3057	AMA1	2µ	This study
201-596	AMA1	1 T7	pKC3084	AMA1	2µ	This study
-	GST		pQYAC-GST	ADH1	CEN	This study
-	GST		pEGKT	GAL1 *	2μ	(Burton and
			•		•	Solomon,
						2001)
1-200	GST-AMA1	none	pKC3113	GAL1*	2μ	This study
WT	CDH1	3 HA	pKC3078	AMA1	2μ	This study
1-200 of Ama1p	AMA1-CDH1	1 T7	pKC3077	AMA1	2μ	This study
234-566 of Cdh1p					r	, , ,
WT	TUB4	GFP	pMDE785	TUB4	int.	V. Guacci
WT	SMK1	3 HA	p			(McDonald et
•••	······	•				al., 2005)
WT	CLB1	3НА	pKC430	CLB1	CEN	This study
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Plasmids used in this study.

^{*} CYC1 promotor driven by GAL1 UAS

Figure S1



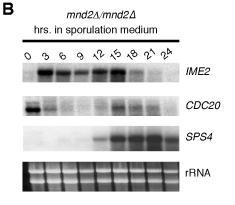


Figure S2

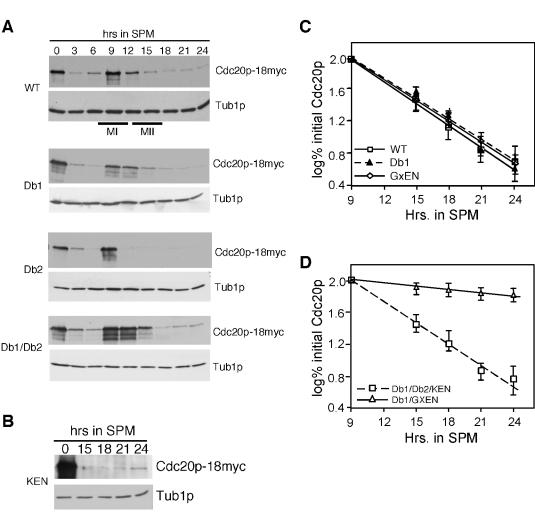
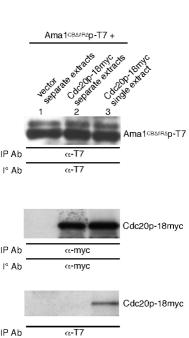


Fig. S3



α-myc

I° Ab