SUPPLEMENTARY INFORMATION

TABLE 1

S. pombe strains used

		Reference or source
P137	*ade6-M216 leu1-32 ura4-D18 h*$^{+}$	
P1262	*cdt1-YFP::kanMX6 ade6-M210 leu1-32 ura4-D18 h*$^{-}$	(Gregan et al, 2003)
P1424	*cdt1-18myc pat1-114*	
P1451	*nda3-311 cdt1-18myc ura4-D18 leu1-32 h*$^{-}$	
P1452	*nda3-311 cdc18-TAP::kanMX6 leu1-32 ura4-D18 h*$^{-}$	H. Nishitani
P1517	*cdt1-TAP::kanMX6 ade6-M210 ura4-D18 leu1-32 his3-D1 h*$^{+}$	D. Hermand
P1611	*mts3-1 cdt1-TAP::kanMX6 h*$^{-}$	
P1615	*ddb1Δ::kan nda3-311 cdt1-18myc*	S. Linn
P1623	*cds1Δ:: ura4*$^{+}$ *ura4-D18 nda3-311 cdt1-18myc*	
P1630	*rad3Δ::ura4*$^{+}$ *ura4-D18 leu1-32 nda3-311 cdt1-18myc*	
P1636	*mcm4-GFP::kanMX6 nda3-311 ura4-D18 leu1-32*	
P1651	*mcm4-GFP::kanMX6 nda3-311 ddb1Δ::kan cdt1-18myc ade6-210 leu1-32 ura4-D18*	
P1673	*cdt1-TAP::kanMX6 nda3-311 ddb1Δ::kan*	
P1674	*cdt2Δ::ura4*$^{+}$ *cdt1-YFP::kanMX6 ade6-704 leu1-32 ura4-D18 h*$^{-}$	
P1706	*cdt2Δ::ura4*$^{+}$ *ura4-D18 nda3-311 cdt1-18myc*	
P1731	*cdt2Δ::ura4*$^{+}$ *cdt1-TAP::kanMX6 leu1 ade6 ura4 h*$^{+}$	
P1766	*spd1-TAP leu1-32 ura4-D18 ade-704*	T. Carr
P1767	*spd1-TAP ddb1Δ leu1-32 ura4-D18 ade-704*	T. Carr
P1768	*spd1-TAP cdt2Δ leu1-32 ura4-D18 ade-704*	T. Carr
P1769	*ddb1Δ::kan cdt1-YFP::kanMX6*	
P1783	*cdt1-TAP::kanMX6 ade6-M210 ura4-D18 leu1-32 his3-D1 [pREP41X-His6Ub]*	
P1785	*cdt1-TAP::kanMX6 ura4-D18 leu1-32 cdt2Δ:: ura4*$^{+}$ *[pREP41X-His6Ub]*	

SUPPLEMENTARY FIGURE LEGENDS

Fig. S1

Deletion of *ddb1* does not advance the timing of Mcm4 chromatin binding after UV treatment.

A. P1636 (*ddb1*$^{+}$ *nda3-311)* cells were arrested at 20°C, UV treated (100 J/m^2) and then released to 32°C. Timing of Mcm4-GFP chromatin binding was analysed using in situ chromatin binding assay. Detergent-extracted cells are shown. Scale bar: 10μm.

B. Timing of anaphase shown as the mean percentage of cells with 2 nuclei from 3 independent repeats of the experiment shown in panel A.

C. Number of cells with chromatin bound Mcm4 shown as the mean percentage from 3 independent repeats of the experiment shown in A.

D. Chromatin binding of Mcm4-GFP in P1651 (*ddb1Δ nda3-311)* cells treated as in A.

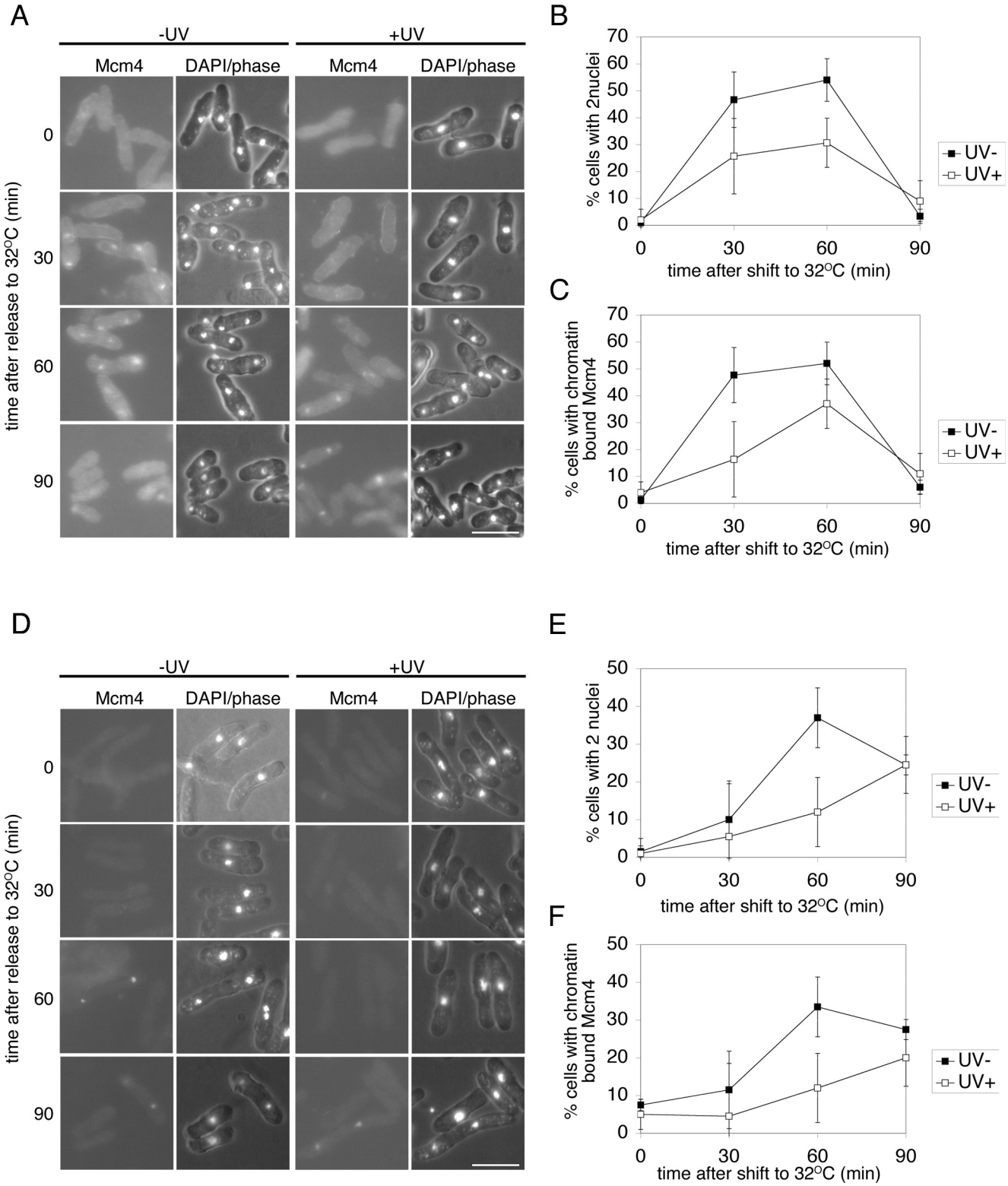
E. Timing of anaphase shown as the mean percentage of cells with 2 nuclei from 2 independent repeats of the experiment shown in panel D.

F. Number of cells with chromatin bound Mcm4 shown as the mean percentage from 2 independent repeats of the experiment shown in D.

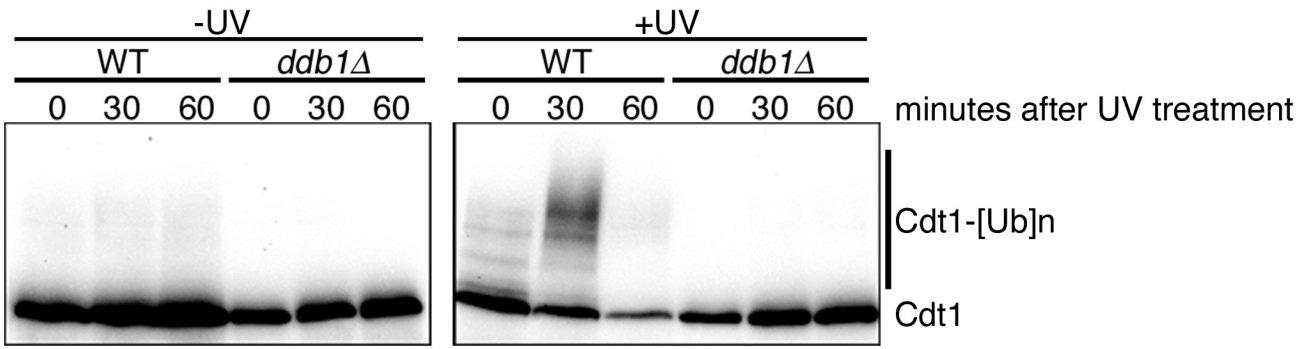
Fig. S2

Appearance of a Cdt1 ladder after UV treatment in wild-type but not *ddb1Δ* cells.

Experimental procedure was as in Fig 3C, using strains P1451 and P1615. The western blot was over exposed to detect the higher molecular weight Cdt1 ladder that probably represents Cdt1-ubiquitin conjugates.


A
-UV
+UV
Mcm4
DAPI/phase
Mcm4
DAPI/phase
time after release to 32°C (min)
0
30
60
90
B
% cells with 2nuclei
time after shift to 32°C (min)
UV-
UV+
C
% cells with chromatin bound Mcm4
time after shift to 32°C (min)
UV-
UV+
D
-UV
+UV
Mcm4
DAPI/phase
Mcm4
DAPI/phase
time after release to 32°C (min)
0
30
60
90
E
% cells with 2 nuclei
time after shift to 32°C (min)
UV-
UV+
F
% cells with chromatin bound Mcm4
time after shift to 32°C (min)
UV-
UV+

Ralph Fig S1


-UV
+UV
WT
ddb1Δ
WT
ddb1Δ
0 30 60 0 30 60
0 30 60 0 30 60
minutes after UV treatment
Cdt1-[Ub]n
Cdt1

Ralph Fig S2