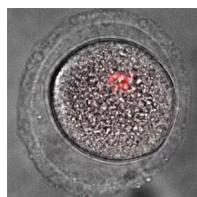
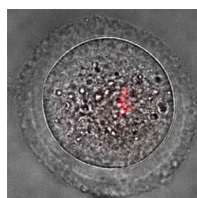


Supplemental material

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Video 1. **Progression through meiosis I in control oocyte.** A *Ccnb3*^{-/-} oocyte incubated with SiR-DNA to visualize chromosomes. Acquisitions were started at GVBD + 6:30 (hours:minutes). 11 z-sections with 3- μ m steps were taken to follow chromosome movements, and shown are overlays of the stack. Acquisitions of the far-red and DIC channel were done every 20 min; 21 time points are shown. Related to Fig. 2 A. This is a representative video from 42 oocytes from six independent experiments.



Video 2. **Progression through meiosis I in *Ccnb3*^{-/-} oocyte.** A *Ccnb3*^{-/-} oocyte incubated with SiR-DNA to visualize chromosomes. Acquisitions were started at GVBD + 6:30 (hours:minutes). 11 z-sections with 3- μ m steps were taken to follow chromosome movements, and shown are overlays of the stack. Acquisitions of the far-red and DIC channel were done every 20 min; 21 time points are shown. Related to Fig. 2 A. This is a representative video from 63 oocytes from six independent experiments.

Table S1. Primers used for cloning expression plasmids

Primer ID	Primer (5'-3')	Primers used to generate the plasmid indicated
p20	ATCTGAATTCGGATCCGCCACCATGCCACCACCACTACTACCC	pRN3-eRFP-cyclin B3
p21	AGGAGGTCATGGATCCGTGGAATAATGCACAATTCAAAAGATTCTC	
p30	CTTTACTGCGCCTTGAGTTGAAG	pRN3-eRFP-cyclin B3 Δ dbx
p31	GCATCTCATAGTCAATGTGTCCAG	
p37	GAACTCACCAGTGATGCGGCAGCCATTGCTGTGGACTGGTTGGTG	pRN3-eRFP-cyclin B3 MRL
p38	CACCAACCAGTCCACAGCAATGGCTGCCGCATCACTGGTGAGTTC	
p92	CGCGGGCCCGGGATCCATGATGCCTTCTCTTCGTCCATCTC	pRN3-eGFP- <i>X.laevis</i> cyclin B3
p93	TAGATCCGGTGGATCCTTAGCTCTGAAGGGCCTCTGTAAG	
p100	CGCGGGCCCGGGATCCATGCCGTTTTCAAAGGAAAAAGCCC	pRN3-eGFP- <i>D. rerio</i> cyclin B3
p101	TAGATCCGGTGGATCCTCACTTCAAAGCCCTTCAAGCTTCTC	
p104	CGCGGGCCCGGGATCCATGGCGCCCAAAAAGCAACAAC	pRN3-eGFP- <i>D. melanogaster</i> cyclin B3
p105	TAGATCCGGTGGATCCCTACGACAGATTGCTTTTCGTTTCAGGTC	
p47	TACTTCCAATCCAATATTATGCCACCACCACTACTACCC	pFastBacI-MBP6His-cyclin B3 or cyclin B3 MRL
p48	TTATCCAATCCAATATTTCAAGTGAATAATGCACAATTCAAAAG	