

PP2A^{Cdc55}'s role in reductional chromosome segregation during achiasmate meiosis in budding yeast is independent of its FEAR function

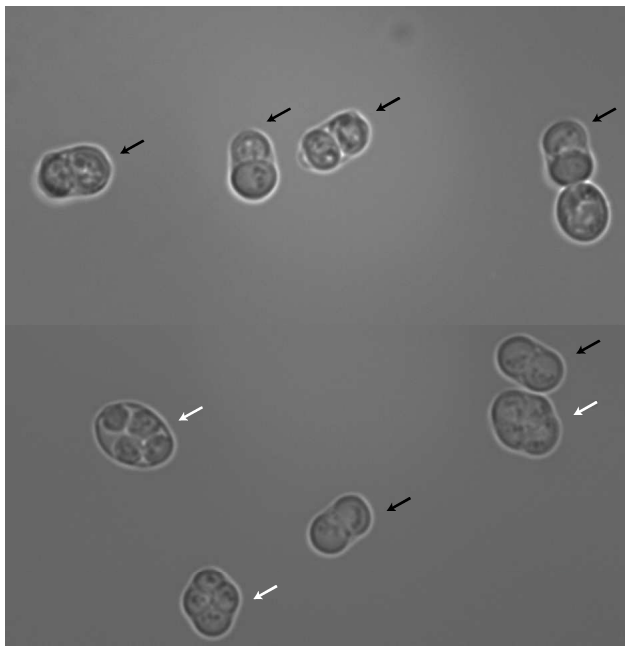
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CDC55 spo11 Δ spo12 Δ

cdc55-T5 spo11 Δ spo12 Δ

Supplementary Figure 1

***cdc55-T5* partially suppresses the dyad phenotype of *spo11 Δ spo12 Δ* cells.**

spo11 Δ spo12 Δ cells containing either *CDC55* or *cdc55-T5* were sporulated and the resulting asci were examined by bright-field microscopy. Tetrads and dyads are indicated by white and dark arrows respectively.

Supplementary Table 1 List of yeast strains used in the paper.

All yeast strains used are derivatives of SK1 and have the following markers, unless otherwise stated. *ho::LYS2/ho::LYS2*, *ura3/ura3*, *leu2::hisG/leu2::hisG*, *trp1::hisG/trp1::hisG*, *his3::hisG/his3::hisG*, *lys2/lys2*. Strains used for experiments described in the figures are listed in the table below. All markers are homozygous in diploid strains unless mentioned otherwise.

Strain name	Genotype	Used in Figure(s)
Y1707	MATa/α <i>cdc55Δ::natMX4 spo11Δ::TRP1 (K. lactis)</i> <i>spo12Δ::KanMX4</i>	2a
Y1905	MATa/α <i>cdc55:: CDC55-hphMX6::natMX4</i> <i>P_{URA3}::tetR::GFP-LEU2, rec8:REC8-ha3::URA3, PDS1-myc18::TRP1(K.lactis) ura3/ura3:tetOx224-URA3</i>	2b
Y1906	MATa/α <i>cdc55:: CDC55-hphMX6::natMX4</i> <i>spo12:KanMX6 P_{URA3}::tetR::GFP-LEU2, rec8:REC8-ha3::URA3, PDS1-myc18::TRP1(K.lactis)</i> <i>ura3/ura3:tetOx224-URA3</i>	2b
Y1907	MATa/α <i>cdc55:: cdc55-T5-hphMX6::natMX4</i> <i>P_{URA3}::tetR::GFP-LEU2 rec8:REC8-ha3::URA3 PDS1-myc18::TRP1(K.lactis) ura3/ura3:tetOx224-URA3</i>	2b
Y1908	MATa/α <i>cdc55:: cdc55-T5-hphMX6::natMX4</i> <i>spo12:KanMX4 P_{URA3}::tetR::GFP-LEU2 rec8:REC8-ha3::URA3 PDS1-myc18::TRP1(K.lactis)</i> <i>ura3/ura3:tetOx224-URA3</i>	2b
Y1994	MATa <i>lte1Δ::HIS3MX6</i>	2c

Y1998	MAT α <i>cdc55::CDC55-hphMX6::natMX4 spo12::KanMX4</i>	2c
Y2000	MAT α <i>cdc55::cdc55-T5-hphMX6::natMX4 spo12Δ::KanMX4</i>	2c
Y1991	MAT α <i>cdc55Δ::natMX4 NET1::ha3:HIS3 cdc20::P_{MET3}⁻ CDC20::TRP1</i>	2d
Y1992	MAT α <i>cdc55::CDC55::natMX4 NET1::ha3:HIS3 cdc20::P_{MET3}⁻-CDC20::TRP1</i>	2d
Y1993	MAT α <i>cdc55::cdc55-T5-hphMX6::natMX4 NET1::ha3- HIS3 cdc20:: P_{MET3}⁻-CDC20::TRP1</i>	2d
Y2154	MAT α/α <i>spo12Δ::KanMX4 cdc55Δ::cdc55-T5- hphMX6::natMX4 net1Δ::his5, NET1--TEVmyc9::TRP1</i>	2e
Y2155	MAT α/α <i>spo12Δ::KanMX4 cdc55Δ:: cdc55-T5- hphMX6::natMX4 net1Δ::his5, net1-6CDK- TEVmyc9::TRP1</i>	2e
Y1018	MAT α/α <i>spo11Δ::TRP1 (K. lactis) spo12Δ::KanMX4</i>	3a and b
Y1019	MAT α/α <i>spo11Δ::TRP1 (K. lactis) spo12Δ::KanMX4 mam1:HIS3MX6</i>	3a and b
Y2152	MAT α/α <i>spo11Δ::TRP1 (K. lactis) spo12Δ::KanMX4 cdc55Δ::CDC55-hphMX6::natMX4</i>	3b and 5
Y2153	MAT α/α <i>spo11Δ::TRP1 (K. lactis) spo12Δ::KanMX4 cdc55Δ:: cdc55-MP-hphMX6 ::natMX4</i>	3b and 5
Y2157	MAT α/α <i>spo11Δ::TRP1 (K. lactis) spo12Δ::KanMX4 cdc55Δ::cdc55-T5-hphMX6::natMX4</i>	3b
Y2424	MAT α/α <i>spo11Δ::TRP1 (K. lactis) spo12Δ::KanMX4 cdc55Δ::cdc55-MP-hphMX6::natMX4 net1Δ::his5 net1-</i>	3b

	<i>6CDK-TEVmyc9::TRP1</i>	
Y1887	<i>MATa/α cdc55:: CDC55-hphMX6::natMX4 spo11:TRP1 spo12: KanMX4 P_{URA3}::tetR::GFP-LEU2 rec8:REC8- ha3::URA3 PDS1-myc18::TRP1(K.lactis) ura3/ura3:tetOx224:URA3</i>	4a
Y1896	<i>MATa/α cdc55:: cdc55-MP-hphMX6::natMX4 spo11:TRP1spo12: KanMX4 P_{URA3}::tetR::GFP-LEU2 rec8:REC8-ha3::URA3 PDS1-myc18::TRP1(K.lactis), ura3/ura3:tetOx224:URA3</i>	4a
Y3153	<i>MATa/α cdc55:: CDC55-hphMX6::natMX4 P_{URA3}::tetR::GFP-LEU2 rec8:REC8-ha3::URA3 PDS1- myc18::TRP1(K.lactis) ura3:tetOx224:URA3</i>	4b
Y3154	<i>MATa/α cdc55:: cdc55-MP-hphMX6::natMX4 P_{URA3}::tetR::GFP-LEU2 rec8:REC8-ha3::URA3 PDS1- myc18::TRP1(K.lactis) ura3:tetOx224:URA3</i>	4b
Y3153	<i>MATa/α cdc55::CDC55-hphMX6::natMX4 P_{URA3}::tetR::GFP::LEU2,rec8:REC8-ha3::URA3, PDS1- myc18::TRP1(K.lactis) ura3/ura3:tetOx224-URA3</i>	4c and d
Y3154	<i>MATa/α cdc55:: cdc55-MP-hphMX6::natMX4 P_{URA3}::tetR::GFP::LEU2,rec8:REC8-ha3::URA3 PDS1- myc18::TRP1(K.lactis) ura3/ura3:tetOx224-URA3</i>	4c and d
Y2421	<i>MATa/α spo11Δ::TRP1 (K. lactis) spo12Δ::KanMX4 cdc55Δ:: cdc55-MP-hphMX6:: natMX4 mad2Δ::HIS3MX6</i>	5
Y2485	<i>MATa/α cdc55::cdc55-MP-hphMX6::natMX4 spo11Δ::TRP1 (K.lactis) spo12Δ::KanMX4</i>	5

	<i>clb3Δ::natMX4</i>	
Y2578	<i>MATa/α spo11Δ::TRP1 (K. lactis) spo12Δ::KanMX4</i> <i>CDC55/ cdc55:: cdc55-MP::hphMX6::natMX4</i>	5