

**Table S1.** *U. maydis* strains used in this study

Strain	Relevant genotype	Reference
FB1	<i>a1 b1</i>	Banuett and Herskowitz, 1989
FB2	<i>a2 b2</i>	Banuett and Herskowitz, 1989
FBD11	<i>a1a2 b1b2</i>	Banuett and Herskowitz, 1989
AB31	<i>a2 P<sub>crg1</sub>:bW2 P<sub>crg1</sub>:bE1</i>	Brachmann <i>et al</i> , 2001
FB1P <sub>crg1</sub> :fuz7DD	<i>a1 b1 P<sub>crg1</sub>:fuz7<sup>DD</sup></i>	Müller <i>et al</i> , 2003
SONU78d	<i>a1 a2 b1b2 cdk5 Δcdk5</i>	This work
SONU80d	<i>a1 a2 b1b2 cdk5 cdk5-myc</i>	This work
SONU99	<i>a1 b1 cdk5<sup>ts</sup></i>	This work
SONU107	<i>a2 b2 cdk5<sup>ts</sup></i>	This work
UMP57	<i>a1 b1 P<sub>crg1</sub>:wee1</i>	This work
UMP58	<i>a1 b1 cdk5<sup>ts</sup> P<sub>crg1</sub>:wee1</i>	This work
UMP65	<i>a1 b1 myo5-GFP</i>	This work
UMP66	<i>a1 b1 cdk5<sup>ts</sup> myo5-GFP</i>	This work
UMP67	<i>a1 b1 cdk5<sup>ts</sup> P<sub>crg1</sub>:fuz7<sup>DD</sup></i>	This work
UMP71	<i>a1 b1 fim1-GFP</i>	This work
UMP72	<i>a1 b1 cdk5<sup>ts</sup> fim1-GFP</i>	This work
UMP73	<i>a1 b1 P<sub>crg1</sub>:T7rac1</i>	This work
UMP74	<i>a1 b1 P<sub>crg1</sub>:T7rac1<sup>QL</sup></i>	This work
UMP75	<i>a1 b1 cdk5<sup>ts</sup> P<sub>crg1</sub>:T7rac1</i>	This work
UMP76	<i>a1 b1 cdk5<sup>ts</sup> P<sub>crg1</sub>:T7rac1<sup>QL</sup></i>	This work
UMP80	<i>a1 b1 P<sub>crg1</sub>:cdc24</i>	This work
UMP82	<i>a1 b1 cdk5<sup>ts</sup> P<sub>crg1</sub>:cdc24</i>	This work
UMP86	<i>a2 P<sub>crg1</sub>:bW2 P<sub>crg1</sub>:bE1 cdk5<sup>ts</sup></i>	This work
UMI29	<i>a1 b1 cdc24-GFP</i>	This work
UMI30	<i>a1 b1 cdk5<sup>ts</sup> cdc24-GFP</i>	This work
UMI72	<i>a1 b1 cdk5-GFP</i>	This work
UMI74	<i>a1 b1 cdk5<sup>ts</sup> myo5-GFP P<sub>crg1</sub>:cdc24</i>	This work