

**Table S1. *U. maydis* strains**

<b>Strain</b>	<b>Genotype</b>	<b>Reference</b>
521	<i>a1 b1</i>	Kämper et al., 2006
BUB7	<i>a1 b3</i>	Basse et al., 2002
FB1	<i>a1 b1</i>	Banuett and Herskowitz, 1989
FB2	<i>a2 b2</i>	Banuett and Herskowitz, 1989
FB1/pMB2-2	<i>a1 b1 Potef-mtGFP-cbx<sup>R,a</sup></i>	Bortfeld et al., 2004
FB2/pMB2-2	<i>a2 b2 Potef-mtGFP-cbx<sup>R</sup></i>	Bortfeld et al., 2004
FB1_mrb1, FB2_mrb1	<i>a1 b1 mrb1::hyg<sup>R</sup>, a2 b2 mrb1::hyg<sup>R</sup></i>	Bortfeld et al., 2004
FB1_mrb1/pMB2-2	<i>a1 b1 mrb1::hyg<sup>R</sup> Potef-mtGFP-cbx<sup>R</sup></i>	Bortfeld et al., 2004
FB2_mrb1/pMB2-2	<i>a2 b2 mrb1::hyg<sup>R</sup> Potef-mtGFP-cbx<sup>R</sup></i>	Bortfeld et al., 2004
FB2_lga2	<i>a2 b2 lga2::hyg<sup>R</sup></i>	Bortfeld et al., 2004
FB2_rga2	<i>a2 b2 rga2::hyg<sup>R</sup></i>	Bortfeld et al., 2004
FB2_lga2_rga2	<i>a2 b2 lga2_rga2::hyg<sup>R</sup></i>	Bortfeld et al., 2004
FB2/pLIGC1	<i>a2 b2 cbx::Potef-lga2-eGFP-cbx<sup>R</sup></i>	Bortfeld et al., 2004
FB2/pMGH1	<i>a2 b2 mrb1-eGFP-hyg<sup>R</sup></i>	Bortfeld et al., 2004
MC2 (FB2/pMB2-2/pCLN1)	<i>a2 b2 Potef-mtGFP-cbx<sup>R</sup> PcrG1-lga2-nat<sup>R,b</sup></i>	Bortfeld et al., 2004
MC2_mrb1	<i>a2 b2 mrb1::hyg<sup>R</sup> Potef-mtGFP-cbx<sup>R</sup> PcrG1-lga2-nat<sup>R</sup></i>	Bortfeld et al., 2004
MC2_dnm1	<i>a2 b2 dnm1::hyg<sup>R</sup> Potef-mtGFP-cbx<sup>R</sup> PcrG1-lga2-nat<sup>R</sup></i>	This study
FB1_dnm1/pMB2-2	<i>a1 b1 dnm1::hyg<sup>R</sup> Potef-mtGFP-cbx<sup>R</sup></i>	This study
FB1_dnm1/pMB2-2/pCud1	<i>a1 b1 dnm1::hyg<sup>R</sup> Potef-mtGFP-cbx<sup>R</sup> PcrG1-dnm1-nat<sup>R</sup></i>	This study
FB2/pMB2-2/pCud1	<i>a2 b2 Potef-mtGFP-cbx<sup>R</sup> PcrG1-dnm1-nat<sup>R</sup></i>	This study
FB2_mrb1_dnm1/ pMB2-2	<i>a2 b2 mrb1::hyg<sup>R</sup> dnm1::nat<sup>R</sup> Potef-mtGFP-cbx<sup>R</sup></i>	This study
FB1/pKS1, 2	<i>a1 b1 PcrG1-mtGFP-cbx<sup>R</sup>, mtRFP-cbx<sup>R</sup></i>	This study
FB2/pKS1	<i>a2 b2 PcrG1-mtGFP-cbx<sup>R</sup></i>	This study
FB1_dnm1/pKS2	<i>a1 b1 dnm1::hyg<sup>R</sup> PcrG1-mtRFP-cbx<sup>R</sup></i>	This study
FB2_dnm1/pKS1	<i>a2 b2 dnm1::hyg<sup>R</sup> PcrG1-mtGFP-cbx<sup>R</sup></i>	This study
FB2_dnm1/pKS1/pCLN1	<i>a2 b2 dnm1::hyg<sup>R</sup> PcrG1-mtGFP-cbx<sup>R</sup> PcrG1-lga2-cbx<sup>R</sup></i>	This study
FB2_lga2/pKS1	<i>a2 b2 lga2::hyg<sup>R</sup> PcrG1-mtGFP-cbx<sup>R</sup></i>	This study
FB2_lga2/pKS1/pCLN1	<i>a2 b2 lga2::hyg<sup>R</sup> PcrG1-mtGFP-cbx<sup>R</sup> PcrG1-lga2-nat<sup>R</sup></i>	This study
FB2_lga2_dnm1/pKS1	<i>a2 b2 lga2::hyg<sup>R</sup> dnm1::nat<sup>R</sup> PcrG1-mtGFP-cbx<sup>R</sup></i>	This study
FB2_rga2/pKS1	<i>a2 b2 rga2::hyg<sup>R</sup> PcrG1-mtGFP-cbx<sup>R</sup></i>	This study
FB2_lga2_rga2/pKS1, 2	<i>a2 b2 lga2_rga2::hyg<sup>R</sup> PcrG1-mtGFP-cbx<sup>R</sup>, mtRFP-cbx<sup>R</sup></i>	This study
BUB7/pKS2	<i>a1 b3 PcrG1-mtRFP-cbx<sup>R</sup></i>	This study
BUB7/pKS2/pCudg1	<i>a1 b3 PcrG1-mtRFP-cbx<sup>R</sup> PcrG1-dnm1-eGFP-nat<sup>R</sup></i>	This study
BUB7_dnm1/pKS2	<i>a1 b3 dnm1::hyg<sup>R</sup> PcrG1-mtRFP-cbx<sup>R</sup></i>	This study
CV2 (FB2_mrb1/pCV14)	<i>a2 b2 mrb1::cbx<sup>R</sup> mrb1 N-myc-hyg<sup>R</sup></i>	This study
CV4 (FB2_mrb1/pCV16)	<i>a2 b2 mrb1::cbx<sup>R</sup> mrb1-myc-hyg<sup>R</sup></i>	This study
CV6	<i>a2 b2 mrb1::cbx<sup>R</sup> lga2::lga2-myc-nat<sup>R</sup></i>	This study
FB2/pCFM1	<i>a2 b2 PcrG1-fzo1-myc-hyg<sup>R</sup></i>	This study
MC2/pCFM1	<i>a2 b2 Potef-mtGFP-cbx<sup>R</sup> PcrG1-lga2-nat<sup>R</sup> PcrG1-fzo1-myc-hyg<sup>R</sup></i>	This study

<sup>a</sup>*Potef*: expression under the constitutive *otef* promoter.

<sup>b</sup>*PcrG1*: expression under the arabinose-inducible *crG1* promoter.