

Table S1. Yeast strains

Strain	Genotype
TBR2065	<i>MATa leu2-3, 112 his4-260 ura3-1 ade2-1 thr1-4 trp1-289 lys2</i> ----- <i>MATa leu2-3, 112 his4-260 ura3-1 ade2-1 thr1-4 trp1-289 lys2</i>
TBR4246	TBR2065 but homozygous <i>ecm11::KAN</i>
TBR4327	TBR2065 but homozygous <i>gmc2::NAT</i>
TBR309	TBR2065 but homozygous <i>spo11::ADE2</i>
TBR5150	TBR2065 but homozygous <i>spo11::ADE2 ecm11::KAN</i>
TBR5148	TBR2065 but homozygous <i>spo11::ADE2 gmc2::NAT</i>
TBR2288 ^a	<i>MATa leu2-3, 112 his4-260 ura3-1 ade2-1 thr1-4 trp1-289 lys2</i> ----- <i>MATa his4-260 ura3-1 ade2-1 thr1-4 trp1-289 lys2 cup1Δ leu2::CUP1 arg4-8 TRP1</i>
TBR4282 ^a	TBR2288 but homozygous <i>ecm11::clonNAT</i>
TBR4326 ^a	TBR2288 but homozygous <i>gmc2::clonNAT</i>
TBR4757	TBR2065 but homozygous <i>ecm11::KAN gmc2::clonNAT</i>
TBR5296	TBR2065 but homozygous <i>ECM11-13myc-KAN ndt80::LEU2</i>
TBR6014	TBR2065 but homozygous <i>3myc-GMC2 ndt80::LEU2</i>
TBR5773	<i>MATa ho::hisG leu2::hisG ura3(delta Sma-Pst) HIS4::LEU2-(NBam)</i> <i>ECM11-13Myc-KAN</i>

MATa ho::hisG leu2::hisG ura3(delta Sma-Pst) his4X::LEU2-(NBam)-URA3 ECM11-13Myc-KAN

- TBR5850 TBR2065 but homozygous *ECM11-13myc-KAN SMT3-3FLAG-TRP1 ndt80::LEU2*
- TBR4321 TBR2065 but homozygous *ECM11-13myc-KAN*
- TBR5632 TBR2065 but homozygous *ecm11_K5R-13myc-KAN*
- TBR5634 TBR2065 but homozygous *ecm11_K101R-13myc-KAN*
- TBR5511 TBR2065 but homozygous *ecm11_K5R_K101R-13myc-KAN*
- TBR6085 TBR2065 but homozygous *ECM11-13myc-KAN gmc2::clonNAT ndt80::LEU2*
- TBR5311 TBR2065 but homozygous *ECM11-13myc-KAN spo11::ADE2 ndt80::LEU2*
- TBR6090 TBR2065 but homozygous *ECM11-13myc-KAN zip1::LEU2 ndt80::LEU2*
- TBR6088 TBR2065 but homozygous *ECM11-13myc-KAN zip3::URA3 ndt80::LEU2*
- TBR5848 TBR2065 but homozygous *ECM11-13myc-KAN spo16::NAT ndt80::LEU2*
- TBR5734 TBR2065 but homozygous *ECM11-13myc-KAN zip2::LEU2 ndt80::LEU2*
- TBR5736 TBR2065 but homozygous *ECM11-13myc-KAN zip4::URA3 ndt80::LEU2*
- TBR5495 TBR2065 but homozygous *ECM11-3FLAG-KAN 3myc-GMC2*
- TBR4648 TBR2065 but homozygous *3myc-GMC2*
- TBR5977 TBR2065 but homozygous *ECM11-3FLAG-KAN ZIP3-3myc*

PJ69-4A *MATa trp1-901 leu2-3,112 ura3-52 his3-200 gal4Δ gal8Δ LYS2::GAL1-HIS3 GAL2-ADE2 met2::GAL7-lacZ*

TBR6549 TBR2065 but homozygous *ECM11-3FLAG-KAN 3myc-GMC2 ndt80::LEU2*

TBR6595 TBR2065 but homozygous *ECM11-3FLAG-KAN ndt80::LEU2*

TBR5305 TBR2065 but homozygous *ECM11-13myc-KAN gmc2::clonNAT*

TBR5309 TBR2065 but homozygous *3myc-GMC2 ecm11::KAN*

TBR6570 TBR2065 but homozygous *ECM11-3FLAG-KAN 3myc-GMC2 zip1::LEU2 ndt80::LEU2*

TBR6548 TBR2065 but homozygous *ECM11-3FLAG-KAN ZIP3-3myc zip1::LEU2 ndt80::LEU2*

TBR6070 TBR2065 but homozygous *ECM11-13myc-KAN zip1::LEU2*

TBR6078 TBR2065 but homozygous *ECM11-13myc-KAN zip3::URA3*

TBR5994 TBR2065 but homozygous *ECM11-13myc-KAN zip4::URA3*

TBR7313 TBR2065 but homozygous *ECM11-13myc-KAN zip1::LEU2 zip3::URA3*

TBR7314 TBR2065 but homozygous *ECM11-13myc-KAN zip1::LEU2 zip4::URA3*

TBR6306 TBR2065 but homozygous *ecm11_K5R 3myc-GMC2*

TBR6304 TBR2065 but homozygous *ecm11_K101R 3myc-GMC2*

TBR6305 TBR2065 but homozygous *ecm11_K5R_K101R 3myc-GMC2*

TBR4637 TBR2065 but homozygous *CTF19-13myc-KAN spo11::ADE2 ndt80::LEU2*

TBR4733 TBR2065 but homozygous *CTF19-13myc-KAN spo11::ADE2 ndt80::LEU2 ecm11::clonNAT*

TBR5756 TBR2065 but homozygous *CTF19-13myc::KAN ndt80::LEU2 spo11::ADE2 gmc2::cloNAT*

TBR6140 TBR2065 but homozygous *CTF19-13myc::KAN spo11::ADE2 ndt80::LEU2 zip1::LEU2*

TBR7302 TBR2065 but homozygous *CTF19-13myc::KAN spo11::ADE2 ECM11-3FLAG-KAN*

TBR5631 TBR2065 but homozygous *ecm11_K5N-13myc-KAN*

TBR5507 TBR2065 but homozygous *ecm11_K101N-13myc-KAN*

TBR5504 TBR2065 but homozygous *ecm11_K5N_K101N-13myc-KAN*

TBR5913 TBR2065 but homozygous *3myc-GMC2 zip3::URA3*

TBR5998 TBR2065 but homozygous *3myc-GMC2 zip4::URA3*

^aOne of chromosome III is circular [42]. All the strains except TBR5773 and PJ69-4A are isogenic with BR1919-8B [39]. TBR5773 is SK1 strain [41]. PJ69-4A was described previously [40].