

Table S1 Strains used in this work

| Strain | Parent(s) | Genotype | Source |
|---------------|-------------------|---|---------------|
| Q31.4 | | | NCYC |
| Q32.3 | | | NCYC |
| Q59.1 | | | NCYC |
| Q62.5 | | | NCYC |
| Q69.8 | | | NCYC |
| Q74.4 | | | NCYC |
| Q89.8 | | | NCYC |
| Q95.3 | | | NCYC |
| S36.7 | | | NCYC |
| T21.4 | | | NCYC |
| W7 | | | NCYC |
| Y6.5 | | | NCYC |
| Y7 | | | NCYC |
| Y8.1 | | | NCYC |
| Y8.5 | | | NCYC |
| Y9.6 | | | NCYC |
| Z1 | | | NCYC |
| Z1.1 | | | NCYC |
| N-17 | | | NCYC |
| CBS432 | | | NCYC |
| CBS5829 | | | NCYC |
| DBVPG4650 | | | NCYC |
| KPN3828 | | | NCYC |
| KPN3829 | | | NCYC |
| YJR66 | Q31.4 X Z1 | | this work |
| YJR44 | W7 X Z1 | | this work |
| YJR119 | CBS432 X Z1 | | this work |
| YJR78 | CBS5829 X Z1 | | this work |
| YJR45 | KPN3828 X Z1 | | this work |
| YJR39 | KPN3829 X Z1 | | this work |
| YJR65 | DBVPG4650 X Z1 | | this work |
| YJR46 | W7 X KPN828 | | this work |
| YJR129 | KPN3829 X W7 | | this work |
| YJR130 | CBS5829 X KPN3828 | | this work |
| YJR91 | W7 | $\Delta FLO9::kanMX/\Delta FLO9::kanMX$ | this work |
| YJR123 | KPN3829 | $\Delta FLO9::kanMX/\Delta FLO9::kanMX$ | this work |
| YJR125 | CBS5829 | $\Delta FLO9::kanMX/\Delta FLO9::kanMX$ | this work |
| YJR60 | W7 | $\Delta FLO11::kanMX/\Delta FLO11::kanMX$ | this work |
| YJR59 | KPN3829 | $\Delta FLO11::kanMX/\Delta FLO11::kanMX$ | this work |
| YJR127 | CBS5829 | $\Delta FLO11::kanMX/\Delta FLO11::kanMX$ | this work |
| YJR67 | W7 | $\Delta flo1::kanMX/\Delta flo1::kanMX$ | this work |
| YJR68 | W7 | $\Delta flo5::kanMX/\Delta flo5::kanMX$ | this work |
| YJR69 | W7 | $\Delta flo10::kanMX/\Delta flo10::kanMX$ | this work |
| YJR97 | YJR66 | $\Delta IRA1::kanMX/IRA1$ (Q31.4) | this work |
| YJR98 | YJR66 | $\Delta IRA1::kanMX/IRA1$ (Z1) | this work |
| YJR58 | YJR44 | $\Delta IRA1::kanMX/IRA1$ (W7) | this work |
| YJR57 | YJR44 | $\Delta IRA1::kanMX/IRA1$ (Z1) | this work |
| YJR120 | YJR39 | $\Delta IRA1::kanMX/IRA1$ (KPN3829) | this work |
| YJR121 | YJR39 | $\Delta IRA1::kanMX/IRA1$ (Z1) | this work |
| YJR117 | YJR65 | $\Delta IRA1::kanMX/IRA1$ (DBVPG4650) | this work |
| YJR118 | YJR65 | $\Delta IRA1::kanMX/IRA1$ (Z1) | this work |
| YJR105 | YJR78 | $\Delta IRA2::kanMX/IRA2$ (CBS5829) | this work |
| YJR106 | YJR78 | $\Delta IRA2::kanMX/IRA2$ (Z1) | this work |
| YJR134 | YJR45 | $\Delta IRA2::kanMX/IRA2$ (KPN3828) | this work |

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|---------------|-------|----------------------------------|---------------|
| YJR135 | YJR45 | <i>ΔIRA2::kanMX/IRA2</i> (Z1) | this work |
| YJR100 | Z1 | <i>ΔIRA2::kanMX/ΔIRA2::kanMX</i> | this work |
| YJR101 | Z1 | <i>ΔIRA1::kanMX/ΔIRA1::kanMX</i> | this work |
| Q31.4(OI) | | | V. Koufopanou |
| W7(OI) | | | V. Koufopanou |
| KPN3828(OI) | | | G. Liti |
| CBS5829(OI) | | | G. Liti |
| DBVPG4650(OI) | | | G. Liti |
| KPN3829(OI) | | | G. Liti |

OI, Original isolate.