

Table S1. Strains used in this study

| Strain                   | CBS accession number | Genotype                                                                                          | Description              | Reference                      |
|--------------------------|----------------------|---------------------------------------------------------------------------------------------------|--------------------------|--------------------------------|
| FP-1132.1<br>(reference) | CBS 141257           | <i>cspA1, pyrG<sup>-</sup>::AOpyrG, kusA::amdS</i>                                                | Restored pyrG in N539.20 | (Alazi <i>et al.</i> , 2016)   |
| $\Delta IraA$            | CBS 141252           | <i>cspA1, pyrG<sup>-</sup>, kusA::amdS, IraA::AOpyrG</i>                                          | $\Delta IraA$ in N539.20 | This study                     |
| $\Delta IraB$            | CBS 141253           | <i>cspA1, pyrG<sup>-</sup>, kusA::amdS, IraB::AOpyrG</i>                                          | $\Delta IraB$ in N539.20 | This study                     |
| $\Delta IraC$            | CBS 141254           | <i>cspA1, pyrG<sup>-</sup>, kusA::amdS, IraC::AOpyrG</i>                                          | $\Delta IraC$ in N539.20 | This study                     |
| $\Delta rhaR$            | CBS 137440           | <i>cspA, <math>\Delta kusA::amdS^+</math>, pyrG<sup>-</sup>, <math>\Delta rhaR::pyrG^+</math></i> | $\Delta rhaR$ in N539.20 | (Gruben <i>et al.</i> , 2014a) |