

Table S1: Yeast strains used in this study

Yeast strains	Phenotype	Reference
<i>Apiotrichum siamense</i> L8in5 (CLIB 3781)	WT	This study
<i>B. raffinosifermentans</i> LS3	WT	Wartmann et al. ; 1995, Thomas et al. ; 2019
<i>B. raffinosifermentans</i> CBS 8335	WT	Thomas et al.; 2019
<i>B. yvelinesensis nomen nudum</i> L1-24 (CLIB 3782)	WT	This study
<i>B. yvelinesensis nomen nudum</i> L2-36 (CLIB 3783)	WT	This study
<i>B. illinoisensis</i> YB-1343	WT	Kurtzman et al. ; 2007
<i>B. malaysiensis</i> Y-6417	WT	Kurtzman et al. ; 2007
<i>B. mokoensis</i> Y-27120	WT	Ravn et al.; 2021
CBS8335+rDNA::pTEF1-eYFP-PHO5t::rDNA	hp4d- <i>hph</i>	This study
CBS8335+rDNA::pTDH3-eYFP-PHO5t::rDNA	hp4d- <i>hph</i>	This study
CBS8335+rDNA::pHSP26-eYFP-PHO5t::rDNA	hp4d- <i>hph</i>	This study
CBS8335+rDNA::pPCK1-eYFP-PHO5t::rDNA	hp4d- <i>hph</i>	This study
CBS8335+rDNA::pTPS1-eYFP-PHO5t::rDNA	hp4d- <i>hph</i>	This study
CBS8335+rDNA::pXYL1-eYFP-PHO5t::rDNA	hp4d- <i>hph</i>	This study
CBS8335+TDH3::pTDH3-eYFP-PHO5t	hp4d- <i>hph</i>	This study
CBS8335+TDH3::pTDH3-ABN1-PHO5t	pYITEF1- <i>nat</i>	This study
CBS8335+AGU1::pTEF1-AGU1-PHO5t	hp4d- <i>hph</i>	This study

CLIB numbers refer to the French CIRM-levures <https://cirm-levures.bio-aware.com>