

Table S4

Relevant genotype	Growth medium	Estimated P_S	Experimental^(Ref)
Wild type	glucose	1.54	Standard
<i>cln3Δ</i>	glucose	–	Increase in cell size and P _S in comparison to wild type ⁽¹⁾
OE-CLN3	glucose	1.26	Decrease in cell size and P _S in comparison to wild type ⁽²⁾
<i>far1Δ</i>	glucose	1.44	Minor, but reproducible decrease in P _S in comparison to wild type (detectable in synchronous cultures) ⁽³⁾
OE-FAR1 2X	glucose	1.63	Minor, but reproducible increase in P _S in comparison to wild type ⁽⁴⁾
<i>whi5Δ</i>	glucose	1.20	Decrease in cell size ⁽⁵⁾
OE-WHI5	glucose	3.31	Increase in cell size ⁽⁶⁾
<i>sic1Δ</i>	glucose	6.57	Larger cells, abnormal morphology ⁽⁷⁾
OE-SIC1	glucose	1.50	Size and morphology similar to wild type ⁽⁸⁾
Wild type	ethanol	1.20	Standard
OE-FAR1 10X	ethanol	1.42	Increase in cell size and P _S in comparison to wild type ⁽⁴⁾

Relevant genotype	Wild type	<i>cln3Δ</i>
“normal” parameters	1.54	–
$k_{35} = 0.01 \text{ min}^{-1}$	1.46	2.02
$k_{48} = 0.1 \text{ min}^{-1}$	1.53	–
$k_{35} = 0.01 \text{ min}^{-1}$ and $k_{48} = 0.1 \text{ min}^{-1}$	1.45	2.00

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