

## Supplementary Information

### Influence of long-term agar-slant preservation at 4 °C on the recombinant enzyme activity of the engineered yeast.

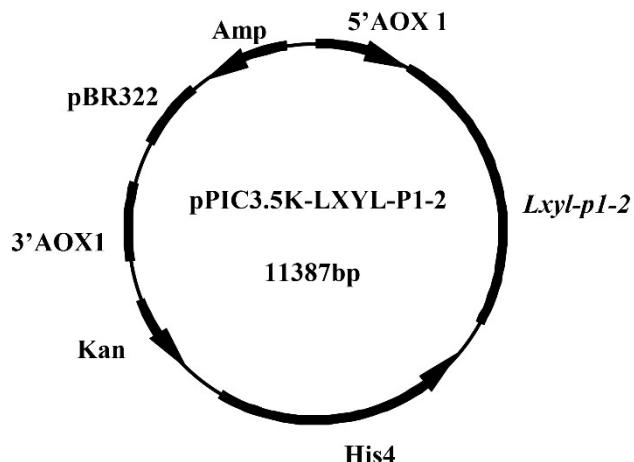
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**Figure S1.** Recombinant plasmid pPIC3.5K harboring *Lxyl-p1-2*.



**Table S1.** Cell growth abilities of the engineered yeast GS115-3.5K-P1-2 of the 24<sup>th</sup> month and 30<sup>th</sup> month groups after cultivation for 250 h.

	24 months			30 months		
	Control (DCW, g/L)	Antibiotic-free YPD agar slant (DCW, g/L)	Antibiotic-containing YPD agar slant (DCW, g/L)	Control (DCW, g/L)	Antibiotic-free YPD agar slant (DCW, g/L)	Antibiotic-containing YPD agar slant (DCW, g/L)
244 h	25.88(±0.34)	25.32(±0.87)	25.72(±0.44)	25.09(±0.26)	23.83(±0.66)	24.31(±0.45)
268 h		26.93(±0.64)	26.85(±0.14)		23.93(±0.36)	24.48(±0.13)
292 h					24.03(±0.53)	24.63(±0.21)

**Table S2.** Biomass enzyme activities of the engineered yeast GS115-3.5K-P1-2 of the 24<sup>th</sup> month and 30<sup>th</sup> month groups after cultivation for 250 h.

	24 months			30 months		
	Control (U/g×10 <sup>5</sup> )	Antibiotic-free YPD agar slant (U/g×10 <sup>5</sup> )	Antibiotic-conta ining YPD agar slant (U/g×10 <sup>5</sup> )	Control (U/g×10 <sup>5</sup> )	Antibiotic-free YPD agar slant (U/g×10 <sup>5</sup> )	Antibiotic-conta ining YPD agar slant (U/g×10 <sup>5</sup> )
244 h	1.291(±0.049)	1.247(±0.061)	1.155(±0.003)	1.308(±0.028 )	1.230(±0.028)	1.290(±0.013)
268 h		1.321(±0.029)	1.291(±0.029)		1.313(±0.032)	1.340(±0.034)
292 h					1.307(±0.016)	1.360(±0.014)