

Table S3: List of the plasmids used and constructed in this study

| Plasmid Name | Base | Promoter | Expressed CDS | Yeast selection marker | Yeast integration site |
|-----------------------------|--------|--------------|---------------------------------|------------------------|------------------------|
| JMP1594 | pDONR | | e-YFP | | |
| pARE12 | | | | hph | rDNA |
| pBS-SA-pTEF1-PHO5t | | <i>TEF1</i> | | | |
| pTEF1-eYFP-PHO5t | pARE12 | <i>TEF1</i> | e-YFP | hph | rDNA |
| pTDH3-eYFP-PHO5t | pARE12 | <i>TDH3</i> | e-YFP | hph | rDNA |
| pHSP26-eYFP-PHO5t | pARE12 | <i>HSP26</i> | e-YFP | hph | rDNA |
| pPCK1-eYFP-PHO5t | pARE12 | <i>PCK1</i> | e-YFP | hph | rDNA |
| pTPS1-eYFP-PHO5t | pARE12 | <i>TPS1</i> | e-YFP | hph | rDNA |
| pXYL1-eYFP-PHO5t | pARE12 | <i>XYL1</i> | e-YFP | hph | rDNA |
| pTDH3-eYFP-PHO5t | pBS-SA | <i>TDH3</i> | e-YFP | hph | <i>TDH3</i> |
| pTDH3-V5-ABN1-PHO5t | pBS-SA | <i>TDH3</i> | <i>BrABN1</i> (ARAD1D18216g) | nat | <i>TDH3</i> |
| pTEF1-6xHis-AGU1-PHO5t | pBS-SA | <i>TEF1</i> | <i>BrAGU1</i> (ARAD1D23848g) | hph | <i>AGU1</i> |
| pTDH3-SS-V5-AXH1-Flag-PHO5t | pBS-SA | <i>TDH3</i> | <i>AsAXH1</i> | nat | <i>TDH3</i> |
| pTEF1-SS-AXH1-Flag-PHO5t | pBS-SA | <i>TEF1</i> | <i>AsAXH1</i> | nat | rDNA |