**Table S1. Strains, primers and plasmids for construction of progenitor strain YJB9318.**

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| --- | --- | --- |
| Strains | Genotype | Reference |
| SC5314 | wild type | (Gillum *et al.* 1984) |
| CAI4 | *ura3*::imm434/*ura3*::imm434 | (Fonzi and Irwin 1993) |
| RM1000#2 | See CAI4; *his1*::*HisG*/*his1*::*HisG* | (Negredo *et al.* 1997) |
| YJB8742 | See RM1000#2; *gal1*::*URA3*/*GAL1* | This study |
| YJB9318 | See RM1000#2; *gal1*::*URA3*/*GAL1*/*HIS1* | This study |
| primers | Sequence (5’ to 3’) | comments |
| 1672 | attattatgagttgtatatgttgaaaattggtaaaactattttcctttttttttaaaattttggaaggacGttttcccagtcacgacgtt | amplification of URA3 marker from plasmid p1374; forward |
| 1673 | tatttttgttttcgttattacttttgaaaaataaaatgtttgcatgtgatttgttttgaccatatggtaggtggaattgtgagcggata | amplification of URA3 marker from plasmid p1374; reverse |
| 1674 | gaaccaatgtaacctgcaccaccag | diagnostic PCR for *URA3*; forward |
| 1675 | gcaaaactaaatgtgttcattaatg | diagnostic PCR for *URA3*; reverse |
| 728 | gtgtcgccagaatgtgccgttgtgtttgtc | diagnostic PCR for *HIS1*; forward |
| 565 | ctcgagtaccaatatatcggttgc | diagnostic PCR for *HIS1*; reverse |
| Plasmids |  | Reference |
| p1374 | pGEM-URA | (Wilson *et al.* 1999) |
| p1375 | pGEM-HIS | (Wilson *et al.* 1999) |