Table S1 PCR primers used for generating a universal gene insertion module.

Primer sequence	Template
Fragment 1	
1st round 5′-CAGAAGCTT(HindIII)TCAGTACTGACAATAAAAAGATTC-3′ 5′-TAGAGCTC(SacI)GCTAGC(NheI)GGCGCGCCAGATCT(BglII) GAGCTC(SacI)GTTTTCGACAC-3′ **2nd round** 5′-CAGAAGCTT(HindIII)TCAGTACTGACAATAAAAAGATTC-3′ 5′-GGAATTC(EcoRI)ACCAGGT(SexAI)CCGCGG(SacII)TTAATTA A(PacI)TACGTA(SnaBI)GAGCTC(SacI)GCTAG-3′	Template for the first round of PCR: pAG25 (Goldstein and McCusker 1999) To extend the downstream end, the product of the first round of PCR was used as a template for the second round of PCR
Fragment 2	
5′-CCGCTCGAG(XhoI)CTAGC(NheI)CGCGG(SacII)TACGTA(SnaBI) CCAGGT(SexAI)GAGCTC(SacI)GACGGATCCCCGGGTTAA-3′ 5′-CCCAAGCTT(HindIII)GGGATATCGCGTCGAC(SalI)GCACGTC AAGACTGTCAAGG-3′	pAG25 (Goldstein and McCusker 1999)
Fragment 3	
5′-CCGCTCGAG(XhoI)CTTTTCAATTCAATTCATC-3′ 5′-CCCAAGCTT(HindIII)GGGATATCGCGTCGAC(SalI)GGGTAAT AACTGATATAAT-3′	pYOGM057 with the *URA3* sequence derived from pRS316 (Sikorski and Hieter 1989)
Fragment 4	
PCR was not used for this fragment	
Fragment 5	
5′-GAAGGCCT(StuI)GTACGGATTAGAAGCCGCCGAG-3′ 5′-GAAGGCCT(StuI)GACTCGAGTTAGCACTGAGC-3′	pAG416GAL-ccdB-HA (Alberti *et al.* 2007)
HA-less construct	
HAless-HindIII_F 5′-GACTAAGCTT(HindIII)TCAGTACTGACAATAAAAAGATTCTTG-3′ HAless-HindIII_R 5′-GACTAAGCTT(HindIII)TTA(Stop)GCAGCCCATCACCACTTTG-3′	pYOGM081
Construct with the *ADH1* promoter	
ADH1pr_Fwd 5′-TGCGGCCAAGCTCCTGTACAATATGGACTTCCTCTTTTCTG-3′ ADH1pr_Rev 5′-GCTTTTTTGTACAAACTTGTGATTGTATATGAGATAGTTGATTG-3′ ADH1pr_pYOGM081_Fwd 5′-CTATCTCATATACAATCACAAGTTTGTACAAAAAAGCTGAACG-3′ ADH1pr_pYOGM081_Rev 5′-GAGGAAGTCCATATTGTACAGGAGCTTGGCCGCAAATTAAAG-3′	BY4741 genomic DNA pYOGM081
Construct with the *TEF* promoter	
TEFpr_Fwd 5′-TGCGGCCAAGCTCCTGTGACATGGAGGCCCAGAATACCCTC-3′ TEFpr_Rev 5′-GCTTTTTTGTACAAACTTGTGATGGTTGTTTATGTTCGGATGTG-3′ TEFpr_pYOGM081_Fwd 5′-CCGAACATAAACAACCATCACAAGTTTGTACAAAAAAGCTGAAC-3′ TEFpr_pYOGM081_Rev 5′-CTGGGCCTCCATGTCACAGGAGCTTGGCCGCAAATTAAAGCC-3′	pFA6a-kanMX4 (Wach *et al.* 1994) pYOGM081
Construct with the *CUP1* promoter	
CUP1pr_Fwd 5′-GCTTTAATTTGCGGCCAAGCTCCTGTAACTTCAACGATTTCTATGATGC-3′ CUP1pr_Rev 5′-CAGCTTTTTTGTACAAACTTGTGATTTTATGTGATGATTGATTG-3′ CUP1pr_pYOGM081_Fwd 5′-CAATCATCACATAAAATCACAAGTTTGTACAAAAAAGC TGAACGAGAAACG-3′ CUP1pr_pYOGM081_Rev 5′-CATAGAAATCGTTGAAGTTACAGGAGCTTGGCCGCAAA TTAAAGCCTTC-3′	BY4741 genomic DNA pYOGM081