pAbAi Vector

Catalog No.

(Not sold separately)

Sold as a part of 630491

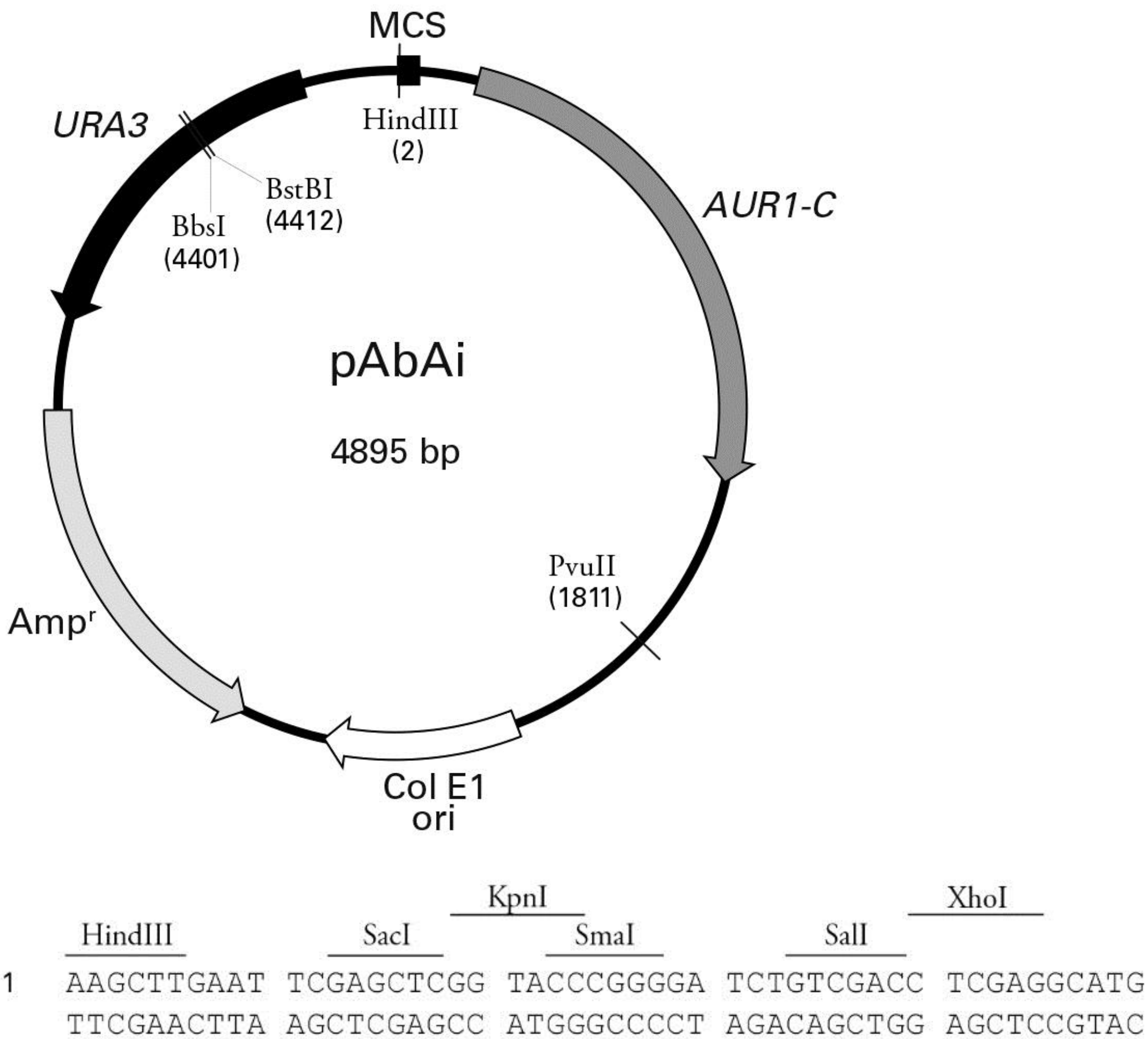

Figure 1. pAbAi Vector map and multiple cloning site (MCS). pAbAi cannot be propagated episomally in yeast; it can only be stably maintained through integration into the host genome. Integration is accomplished via homologous recombination between the vector's *URA3* gene and the *ura3-52* locus of the yeast strain provided in the Matchmaker® Gold Yeast One-Hybrid System. To use pAbAi in a one-hybrid assay, clone one or more copies of a cis-acting element into the MCS. To facilitate recombination of the vector with the host's *ura3-52* locus, linearize the vector with either BbsI or BstBI, then introduce the linearized vector into competent yeast cells using the protocols in the Matchmaker Gold Yeast One-Hybrid Library Screening System User Manual (PT4087-1). Insertion of your target sequence may alter the basal expression of *AUR1-C*. Therefore, before starting a one-hybrid analysis, basal levels of *AUR1-C* should be determined as described in the User Manual.

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Vector Map

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Location of Features

- Multiple cloning site: 1–45
- *AUR1-C* (aureobasidin A resistance gene): 185–1390
- Col E1 origin of replication: 2159–2609
- Amp^R (ampicillin resistance gene): 2806–3666 (complementary)
- *URA3*: 3876–4678 (complementary
- Sequencing primer: 4655–4679
  5'–GTT CCT TAT ATG TAG CTT TCG ACA T–3'

Propagation in *E. coli*

- Suitable host strains: DH5α and other general purpose strains
- Selectable marker: plasmid confers resistance to ampicillin (100 μg/ml) to *E. coli* hosts
- *E. coli* replication origin: Col E1
- Copy number: low

Propagation in *S. Cerevisiae*

- Suitable host strain: Y1HGold
- Selectable marker: *URA3*

NOTE: The vector sequence was compiled from information in the sequence databases, published literature, and other sources, together with partial sequences we obtained. This vector has not been completely sequenced.

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This document has been reviewed and approved by the Quality Department.