pRC2312

77411™

Description

Clone type: Vector
Host: *Escherichia coli* HB101 (ATCC 33694)

Storage Conditions

Product format: Frozen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Vector Information

Construct size (kb): 8.580000877380371
Intact vector size: 8.580
Vector name: pRC2312 (plasmid)
Type of vector: plasmid
Construction: pUC9, URA3, LEU2, CaARS
Host range: *Candida albicans*; *Saccharomyces cerevisiae*; *Candida robusta*; *Escherichia coli*
Cloning sites: SmaI; BamHI; PstI; HindIII
Insert detection: lac
Markers: LEU2; ampR; URA3
Polylinker sites: SmaI; BamHI; PstI; HindIII
Promoters: lac
Replicon: pMB1, CaARS

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--7.2, 1.2, 0.2; HindIII--8.6; BglI--7.0, 1.6; PvuI--6.8, 1.8; PvuII--8.3, 0.3.
- ATCC staff

Shuttle vector maintained at approximately 15 copies per haploid genome in S. cerevisiae and 2-3 copies per genome in C. albicans. Recombinants can be detected using blue/white color selection.

- Mol. Gen. Genet. 235: 453-457, 1992

Transformation of S. cerevisiae AH22 with pRC2312 resulted in replicative transformants at high frequency (1.41(E)5 per ug DNA). Transformants of C. albicans SGY-243 with pRC2312 gave replicative transformants at high frequency
- Mol. Gen. Genet. 235: 453-457, 1992

(5.42(E)3 per ug DNA) and integrative transformants at lower frequency (32 per ug DNA).
- Mol. Gen. Genet. 235: 453-457, 1992

Candida albicans genes LEU2 and URA3 were isolated from plasmids pMK155 and pCARS1 respectively.
- Mol. Gen. Genet. 235: 453-457, 1992

The C. albicans autonomously replicating sequence (CaARS) allows replication in C. albicans and S. cerevisiae.
- Mol. Gen. Genet. 235: 453-457, 1992

The order of the major features in the plasmid is: ampR - pMB1 ori - lacZ/HindIII/MCS/SmaI - URA3 - CaARS - LEU2.
- Mol. Gen. Genet. 235: 453-457, 1992

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRC2312 (ATCC 77411)

References

References and other information relating to this material are available at www.atcc.org.

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