



Product Sheet

pRC2312 (ATCC® 77411™)

Please read this FIRST



Intended Use

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

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: pRC2312 (ATCC® 77411™)

Shipping Information

Distributed: freeze-dried

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: pRC2312

Distribution Host:

Distribution host: *Escherichia coli* HB101 (ATCC 33694)

Propagation

Growth Conditions

Temperature: 37.0°C

Medium

ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Vector Information

Size (kb): 8.5800008773803710

DESCRIPTION OF VECTOR:

Intact vector size: 8.580

Type of vector: plasmid

Cloning sites: SmaI BamHI PstI HindIII

Polylinker sites: SmaI BamHI PstI HindIII

Construction: pUC9, URA3, LEU2, CaARS

Host range: *Candida albicans*; *Saccharomyces cerevisiae*/*Candida robusta*;

Escherichia coli

Features (with orientation and position when available):

insert detection: lac

marker(s): ampR, URA3, LEU2

promoter: lac

replicon: pMB1, CaARS

Vector: pRC2312 (plasmid)

Promoters: Promoter lac

Construction: pUC9, URA3, LEU2, CaARS

Marker(s): LEU2, URA3, ampR

Construct size (kb): 8.580000877380371

Features: insert detection: lac

marker(s): ampR, URA3, LEU2

promoter: lac

replicon: pMB1, CaARS

References

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

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).

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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/Smal - URA3 - CaARS - LEU2.

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



Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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