



Product Sheet

pRS411 (ATCC® 87474™)

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: pRS411 (ATCC® 87474™)

Shipping Information

Plasmid in *E. coli*

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: pRS411

Distribution Host: *Escherichia coli* HB101 (ATCC® 33694™)

Propagation

Transfer a loopful to a test tube containing 5 mL LB + 50 µg/mL of ampicillin broth. A loopful of culture can also be streaked on an LB + amp agar plate. Incubate cultures at 37°C. Isolate DNA using standard plasmid preparation procedures.

Growth Conditions

Temperature: 37°C

Medium

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

Vector Information

Intact vector size: 5.407

Type of vector: phagemid

Cloning sites: SacI BstXI SacII EagI NotI SpeI BamHI SmaI PstI ClaI SalI XhoI Apal KpnI

Polylinker sites: SacI BstXI SacII EagI NotI XbaI SpeI BamHI SmaI PstI EcoRI EcoRV ClaI SalI XhoI Apal KpnI

Construction: pRS401, pRS84

Host range: *Saccharomyces cerevisiae*; *Escherichia coli*

Features (with orientation and position when available):

marker(s): MET15, →, 421-1270

replicon: f1, ←, 1860-2316

promoter for in vitro transcription: T7, →, 2486-2505

MCS: KpnI...SacI, →, 2513-2615

promoter for in vitro transcription: T3, ←, 2632-2651

coding sequence: lacZ', ←, 2317-2676

promoter: lac, ←, 2721-2749

replicon: pMB1, 3075-3075

marker(s): ampR, ←, 3833-4693

centromere: CEN6, 4835-4951

replicon: ARS4, 4952-5353

Vector: pRS411 (phagemid)

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): BamHI--5.4; EcoRI--3.7, 1.7; XbaI--3.4, 2.0.
- ATCC staff

MET15, MET17 and MET25 are synonymous.
- SGD

met15 phenotype produces brown colonies when grown on Pb containing media.
- Yeast 14: 115-132, 1998

This vector is useful for gene knockout experiments in hosts with a non-revertable met15 auxotrophic marker gene mutation.
- Yeast 14: 115-132, 1998

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.



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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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