ATCC

Product Sheet

pRS411 (ATCC® 87474™)

Please read this FIRST

Biosafety Level
1

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:
Distribution host: *Escherichia coli* HB101 (ATCC 33694)
Media:
ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Conditions

Temperature: 37.0°C

Vector Information

Size (kb): 5.407
DESCRIPTION OF VECTOR:
Intact vector size: 5.407
Type of vector: phagemid
Cloning sites: SacI BstXI SacII EagI NotI SpeI BamHI SmaI PstI ClaI SalI
XhoI ApaI KpnI
Polylinker sites: SacI BstXI SacII EagI NotI XbaI SpeI BamHI SmaI PstI EcoRI
EcoRV ClaI SalI XhoI ApaI 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)
Promoters: Promoter for in vitro transcription T7
Construction: pRS401, pRS84
Marker(s):ampR,MET15
Construct size (kb): 5.407
Features: marker(s): MET15
marker(s): ampR
promoter: lac
promoter for in vitro transcription: T3
promoter for in vitro transcription: T7
replicon: ARS4
replicon: f1
replicon: pMB1
MCS: KpnI...SacI
centromere: CEN6
coding sequence: lacZ'

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.

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plasmid in *E. coli*

- 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. 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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