



Product Sheet

pRS413 (ATCC® 87518™)

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: pRS413 (ATCC® 87518™)

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: pRS413

Distribution Host:

Distribution host: *Escherichia coli* DH5alpha

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): 4.97

DESCRIPTION OF VECTOR:

Intact vector size: 4.970

Type of vector: phagemid

Cloning sites: Apal XhoI Sall ClaI EcoRV EcoRI SmaI BamHI SpeI XbaI EagI

NotI SacII SacI NaeI

Polylinker sites: BssHII KpnI Apal XhoI Sall ClaI HindIII EcoRV EcoRI PstI

SmaI BamHI SpeI XbaI EagI NotI BstXI SacII SacI BssHII

Construction: pBluescriptII KS+

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

Features (with orientation and position when available):

marker(s): HIS3, -, 504-1163

replicon: f1, <-, 1473-1879

insert detection: lacZ', <-, 1880-2217

promoter for in vitro transcription: T7, -, 2049-2068

MCS: KpnI...SacI, -, 2076-2183

promoter for in vitro transcription: T3, <-, 2195-2214

promoter: lac, <-, 2283-2312

replicon: pMB1, 2638-2638

marker(s): ampR, <-, 3396-4256

centromere: CEN6, 4398-4514

replicon: ARSH4, 4512-4885

Vector: pRS413 (phagemid)

Promoters: Promoter for in vitro transcription T7

Construction: pBluescriptII KS+

Marker(s): ampR, HIS3

Construct size (kb): 4.97

Features: insert detection: lacZ'

marker(s): HIS3

marker(s): ampR

promoter: lac

promoter for in vitro transcription: T3

promoter for in vitro transcription: T7

replicon: ARSH4

replicon: f1

replicon: pMB1

MCS: KpnI...SacI

centromere: CEN6

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): Pvull--4.55, 0.45; BglI--2.3, 1.7, 1.0; PstI--4.05, 0.95. A YC-type shuttle vector with HIS3 selection in *Saccharomyces cerevisiae*, a beta-galactosidase reporter system for



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visual detection of recombinants, promoters for transcription in vitro, and an extensive polylinker flanked by BssIII sites.

- ATCC staff



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

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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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