



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](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto: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](http://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



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

visual detection of recombinants, promoters for transcription in vitro, and an extensive polylinker flanked by BssHIII 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**

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.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

© ATCC 2013. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [02/22]

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor