





Product Sheet

pRS414 (ATCC® 87519™)

Please read this FIRST

	Storage Temp. -80°C or colder
	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: (ATCC® 87519™)

Shipping Information

Frozen phagemid 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

This is a YC-type shuttle vector with TRP1 selection in *Saccharomyces cerevisiae*, a beta-galactosidase reporter system for visual detection of recombinants (lacZ), promoters for transcription in vitro, and an extensive polylinker flanked by BssHI sites.

Designation: pRS414

Notes

Restriction digests of the construct gave the following sizes (in kb): PvuII 4.35, 0.45; BglI 3.1, 1.7; HindIII 3.85, 0.95.
ATCC Staff

Vector Information

Size (kb): 4.788
Vector: pRS414 (phagemid)
Promoters: Promoter for in vitro transcription T7
Construction: pBluescriptII KS+
Marker(s): TRP1, ampR
Construct size (kb): 4.788
Features: insert detection: lacZ'
marker(s): TRP1
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

Propagation

1. Open vial according to instructions.
2. Aseptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 μ L to a test tube containing 5 mL LB+ ampicillin (50-100 μ g/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37°C.
3. 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

References

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

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.



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Disclaimers

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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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