ATCC

Product Sheet

pRS313 (ATCC® 77142™)

Please read this FIRST

Storage Temp.
Store unopened freeze dried vial at 4°C.

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: pRS313 (ATCC® 77142™)

Shipping Information

Freeze dried phagemid in *E. coli* HB101

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

One of a series of pBluescript-based centromere vectors (ATCC#77142-77145, 77157-77158) differing in the yeast selectable marker gene. A YC-type centromere vector permitting visual detection of recombinants and production of ssDNA in *E. coli*. It contains promoters for in vitro RNA synthesis, priming sites useful for sequencing, and encodes the lacZ alpha (lacZ) peptide. pRSS56, constructed by ligating a PvuI fragment (bp 498-2412) of pBluescript KS+ to a PvuI fragment (bp 2850-730) of pBS(+), contains the KS MCS from pBluescript KS+ and the unique NdeI and AatII sites between bla and f1 origin of pBS(+). A fragment (1.184 kb) containing the HIS3 gene was inserted into the NdeI site and a cassette contiaing CEN6 and the ARS associated with histone 4 (ARSH4) was inserted into the AatII site of pRSS56. All ends were blunted.
Designation: pRS313

Propagation

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

Growth Conditions
Temperature: 37.0°C

Propagation Procedure
1. Open vial according to instructions.2. Asceptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 *u*L to a test tube containing 5 mL LB+ ampicillin (50-100 ug/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.

Vector Information

Size (kb): 4.967
Vector: pRS313 (phagemid)
Promoters: Promoter for in vitro transcription T7
Construction: pRSS56 [pBluescript KS+, pBS(+)]
Marker(s):ampR,HIS3
Construct size (kb): 4.967
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: SacI...KpnI
centromere: CEN6

References

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

Notes

Restriction digests of the vector gave the following sizes (in kb): EcoRI 5.0 ; HindIII 3.6, 1.2, 0.25 ; KpnI 3.8, 1.1 ; PstI 4.0, 0.98 ; SalI 5.0. 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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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 ensure 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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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