



pRS306 phagemid in *E. coli*

77141™

Description

One of a series of pBluescript-based integrating vectors (ATCC 77138-77141) differing in the yeast selectable marker gene. This is a YI-type (integrating shuttle vector) permitting visual detection of recombinants and production of ssDNA in *E. coli*. It contains promoters for invitro RNA synthesis, priming sites useful for sequencing, and encodes the lacZ alpha (lacZ?) peptide. The pRSS56, base vector was constructed by ligating a PvuI fragment (bp 498-2412) of pBluescript KS+ to a PvuI fragment (bp 2850-730) of pBS(+). It contains the KS MCS from pBluescript KS+ and the unique NdeI and AatII sites between bla and the f1 origin of pBS(+). A fragment (1.112 kb) containing the URA3 gene was inserted into the NdeI site of pRSS56. All ends were blunted. The order of the major features in this plasmid is: URA3 ? f1 ori (NaeI) ? T7 promoter ? lacZ?/MCS ? T3 promoter ? pMB1 ori ? bla.

- Genetics 122: 19-27, 1989.

The distribution host strain for this plasmid is *E. coli* HB101.

- **Clone type:** Vector
- **Shipping information:** *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any



diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Vector Information

Construct size (kb): 4.381

Vector name: pRS306 (phagemid)

Construction: pRSS56 [pBluescript KS+, pBS(+)]

Insert detection: lacZ'

Markers: ampR; URA3

Promoters: lac; T3; T7

Replicon: pMB1; f1

Growth Conditions

Medium:

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

Temperature: 37°C

Notes

Restriction digests of the vector gave the following sizes (in kb): PstI 2.7, 1.65 ;
PvuI 3.9, 0.4 ; EcoRI 4.4 ; HindIII 4.4. ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRS306 phagemid in E. coli (ATCC 77141)

References

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

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