



# pRS305

77140™

## Description

One of a series of pBluescript-based yeast integrating vectors (ATCC# 77138-77141) differing in the yeast selectable marker gene. This YI-type integrating shuttle vector permits 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. A fragment (2.235 kb) containing the LEU2 gene was inserted into the NdeI site of the pRSS56 vector. All ends were blunted. The pRSS56 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 the bla and f1 origin of pBS(+). The following sites in the MCS are no longer unique: KpnI ClaI EcoRV EcoRI and BstXI.

**Clone type:** Vector

**Shipping information:** *Escherichia coli* containing the phagemid

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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## 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.

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## BSL 1

## pRS305

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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.

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### Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### Vector Information

**Construct size (kb):** 5.504000186920166

**Vector name:** pRS305 (phagemid)

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

**Insert detection:** lacZ'

**Markers:** LEU2; ampR

**MCS:** SacI...KpnI

**Promoters:** *In vitro* transcription T7; lac

**Replicon:** f1; pMB1

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### Growth Conditions

**Medium:**

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

**Temperature:** 37°C

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### Notes

Restriction digests of the vector gave the following sizes (in kb): HindIII 5.6 ; PvuII 5.1 , 0.46 ; KpnI 3.8, 1.7 ; EcoRI 3.5, 2.0.

ATCC Staff

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRS305 (ATCC 77140)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

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