# pRS313

77142™

## 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.

**Clone type:** Vector

**Shipping information:** *Escherichia coli*HB101 containing the phagemid

## 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):** 4.967
**Vector name:** pRS313 (phagemid)
**Construction:** pRSS56 [pBluescript KS+, pBS(+)]
**Centromere:** CEN6
**Insert detection:** lacZ'
**Markers:** HIS3; ampR
**MCS:** SacI...KpnI
**Promoters:** *In vitro* transcription T7; lac
**Replicon:** ARSH4; f1; pMB1

## 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): 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

## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRS313 (ATCC 77142)

## References

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

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## Revision

This information on this document was last updated on 2021-05-19

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