



# 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 containing 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

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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

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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):** 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

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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): 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

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## Material Citation

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

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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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