



# pRB374

77374™

## Description

**Clone type:** Vector

**Host:** *Escherichia coli* HB101 (ATCC 33694)

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## Storage Conditions

**Product format:** Frozen

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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

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):** 5.900

**Intact vector size:** 5.900

**Vector name:** pRB374 (plasmid)

**Type of vector:** plasmid

**Construction:** pUB110, pBR322, vegII

**Host range:** *Bacillus subtilis*; *Escherichia coli*

**Cloning sites:** EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; Sall; Accl; PstI; SphI; HindIII

**Markers:** bleR; neoR; ampR

**MCS:** HindIII...EcoRI

**Polylinker sites:** EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; Sall; Accl; PstI; SphI; HindIII

**Promoters:** vegII (*B. subtilis*)

**Replicon:** pMB1

**Terminator:** To phage lambda

**Transcription terminator:** rrnB

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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 clone give the following sizes (kb): EcoRI--5.9;

BamHI--5.9; BglI/BglII--3.5, 2.4.

- ATCC staff

Neo confers resistance to neomycin and kanamycin and ble confers resistance to

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bleomycin and phleomycin.

- Gene 122: 187-192, 1992

The Bacillus subtilis promoter vegII initiates transcription in both B. subtilis and E. coli.

- Gene 122: 187-192, 1992

Structural stability of the plasmid in B. subtilis can be affected by high levels of protein production. Under these conditions, cell growth and stability may be improved by reducing the antibiotic concentration in the media.

- Gene 122: 187-192, 1992

May not be suitable for cloning very strong expression signals.

- Gene 122: 187-192, 1992

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### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRB374 (ATCC 77374)

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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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