



pRB374

77374™

Product Sheet

Description

Clone type: Vector

Host: *Escherichia coli* HB101 (ATCC 33694)

Storage Conditions

Product format: Frozen

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): 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; AclI; PstI; SphI; HindIII

Markers: bleR; neoR; ampR

MCS: HindIII...EcoRI

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

Promoters: vegII (*B. subtilis*)

Replicon: pMB1

Terminator: To phage lambda

Transcription terminator: rrnB

Growth Conditions

Medium:

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

Temperature: 37°C

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

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

Material Citation

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

References

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

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