



Product Sheet

pRB374 (ATCC® 77374™)

Please read this FIRST



Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: (ATCC® 77374™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: pRB374

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

Distributed In

Escherichia coli HB101 (ATCC 33694)

Vector Information

Intact vector size: 5.900

Type of vector: plasmid

Cloning sites: EcoRI SacI KpnI SmaI BamHI XbaI Sall AccI PstI SphI HindIII

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

Construction: pUB110, pBR322, vegII

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

Features (with orientation and position when available):

terminator: To phage lambda

promoter: vegII (*B. subtilis*)

MCS: HindIII...EcoRI

transcription terminator: *rrnB*

marker(s): *ampR*

replicon: *pMB1*

replicon: *pUB110*

marker(s): *neoR*

marker(s): *bleR*

Vector: pRB374 (plasmid)

Promoters: Promoter vegII (*B. subtilis*)

Construction: *pUB110*, *pBR322*, *vegII*

Marker(s): *ampR*, *bleR*, *neoR*

Construct size (kb): 5.900

Features: marker(s): *ampR*

marker(s): *bleR*

marker(s): *neoR*

promoter: vegII (*B. subtilis*)

replicon: *pMB1*

replicon: *pUB110*

MCS: HindIII...EcoRI

terminator: To phage lambda

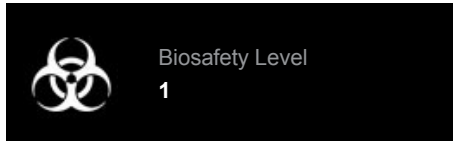
transcription terminator: *rrnB*



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Propagation

Growth Conditions

Temperature: 37°C

Medium

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

References

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

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Disclaimers

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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