



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](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto: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

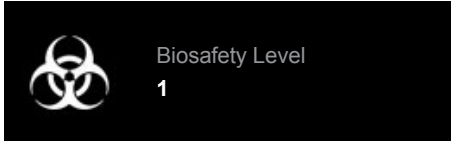
**transcription terminator:** *rrnB*



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™)

### 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](http://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

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

© ATCC 2013. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [11/06]

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor