ATCC

Product Sheet

pXC47 (ATCC® 87001™)

Please read this FIRST

Storage Temp.
Store unopened vial at 4^0 C.

Biosafety Level
1

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: pXC47 (ATCC® 87001™)

Shipping Information

Freeze dried *E. coli* containing the plasmid

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

One of 12 expression vectors (ATCC# 86990-87001) designed to maximize expression from the lambda PL promoter and support cloning of PCR products. The vectors differ in cloning sites and in translational enhancer and initiation sequences.This vector contains a 0.7 kb bovine cDNA that can be excised using the 5 and 3 cloning sites and be replaced by a gene of interest. The bovine insert may be used a a positive control for expression. An insert is expressed as a Met-His fusion protein. Sequences cloned into the NsiI/NdeI site are expressed as a Met-His fusion protein, while sequences cloned into the SwaI site can be expressed as an unfused protein (ATG must be in the cloned insert).
Designation: pXC47
Media:
ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Conditions

Temperature: 37.0°C

Vector Information

Size (kb): 5.7810001373291020
Vector: pXC47 (plasmid)
Promoters: Promoter for expression lambda PL
Construction: pXC24, oligo cassette
Marker(s):ampR
Construct size (kb): 5.781000137329102
Features: initiation codon: ATG
marker(s): ampR
marker(s): tetR
promoter for expression: lambda PL
replicon: ROP copy number control
replicon: pMB1
restriction site: 3' sites HindIII...BamHI
restriction site: 5' SwaI...NsiI/NdeI sites
ribosome-binding site: synthetic Shine-Dalgarno
spacer sequence: ATTTAA
transcription terminator: partially deleted lambda terminator
translational enhancer: T7 gene 10
coding sequence: 14-3-3

References

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

Notes

Restriction digests of the clone gave the following sizes (in kb): BamHI 5.8 ; EcoRI 5.8, HindIII 5.8. ATCC staff

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

ATCC

Product Sheet

pXC47 (ATCC® 87001™)

Please read this FIRST

Storage Temp.
Store unopened vial at 4^0 C.

Biosafety Level
1

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: pXC47 (ATCC® 87001™)

Shipping Information

Freeze dried *E. coli* containing the plasmid 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

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

© ATCC 2013. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [02/06]

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