




Product Sheet


## pXC47 (ATCC® 87001™)

Please read this FIRST



Storage Temp.  
**Store unopened vial at 4° C.**

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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](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

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 as 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 Swal site can be expressed as an unfused protein (ATG must be in the cloned insert).

Designation: pXC47

### Propagation

1. Open vial according to instructions. 2. aseptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100  $\mu$ L to a test tube containing 5 mL of the recommended media. A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37° C. 3. Isolate DNA using standard plasmid preparation procedures.

### Growth Conditions

Temperature: 37.0° C

### Medium

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

### 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' Swal...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](http://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



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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).

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