



# pXC47

## 87001™

### 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).

**Organism:** *Bos taurus*, cow

**Clone type:** Vector

**Shipping information:** *Escherichia coli* containing the plasmid

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### Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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### 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.

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### BSL 1

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Insert Information

**Insert size (kb):** 0.6999999999999996

**Type of DNA:** cDNA

**Insert source:** brain

**Insert tissue:** brain

**Gene product:** [14-3-3]

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## Vector Information

**Construct size (kb):** 5.781000137329102

**Vector name:** pXC47 (plasmid)

**Type of vector:** plasmid

**Construction:** pXC24, oligo cassette

**Vector information:** restriction site: 3' sites HindIII...BamHI

restriction site: 5' Swal...NsiI/NdeI sites

spacer sequence: ATTTAA

**Coding sequence:** 14-3-3

**Enhancer:** T7 gene 10

**Initiation codon:** ATG

**Markers:** ampR

**Promoters:** Expression: lambda PL

**Replicon:** ROP copy number control; pMB1

**Restriction sites:** HindIII; EcoRV; NheI; BamHI; SmaI; NsiI/NdeI

**Ribosome-binding site:** Synthetic Shine-Dalgarno

**Terminator:** partially deleted lambda terminator

**Transcription terminator:** partially deleted lambda terminator

**Translational enhancer:** T7 gene 10

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## Growth Conditions

**Medium:**

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

**Temperature:** 37°C

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## Notes

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

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pXC47 (ATCC 87001)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor