



pXC37

86999™

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. The 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. The insert is expressed as a Met-His fusion protein. The lambda R1 terminator is partially deleted. Restriction digests of the vector gave the following results (in kb): BamHI?5.8 ; EcoRI?5.8 ; HindIII?5.8. -

ATCC staff

Organism: *Bos taurus*, cow

Clone type: Vector

Shipping information: *Escherichia coli* TAP308 containing the plasmid

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Insert Information

Insert size (kb): 0.6999999999999996

Type of DNA: cDNA

Insert source: brain

Insert tissue: brain

Gene product: [14-3-3]

Vector Information

Construct size (kb): 5.781000137329102

Vector name: pXC37 (plasmid)

Type of vector: plasmid

Construction: pXC24, oligo cassette

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

restriction site: 5' NsiI/NdeI site

spacer sequence: AAAAAA

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; NsiI/NdeI; NdeI

Ribosome-binding site: Synthetic Shine-Dalgarno

Terminator: partially deleted lambda terminator

Transcription terminator: partially deleted lambda terminator

Translational enhancer: T7 gene 10

Growth Conditions

Medium:

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

Temperature: 37°C

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pXC37 (ATCC 86999)

References

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

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