

Description

One of 12 expression vectors (ATCC 86990-87001) designed to maximize expression from the lambda PL promoter and support cloing 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 lambda R1 terminator is partially deleleted. The order of the major features of the plasmid is : pMB1 ori ? ampR ? EcoRI ? lambda PL promoter ? translational enhancer ? synthetic SD sequence ? 5? cloning site(s) ? cDNA ? 3? cloning sites.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



pXC33b 86995

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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.

Insert Information

Vector Information

Construct size (kb): 5.776000022888184 Vector name: pXC33b (plasmid) Type of vector: plasmid Construction: pXC24, oligo cassette Vector information: restriction site: 5' PacI site spacer sequence: ATTAATTA Coding sequence: 14-3-3 Enhancer: T7 gene 10 Initiation codon: ATG



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Markers: ampR Promoters: Expression: lambda PL Replicon: ROP copy number control; pMB1 Restriction sites: Pacl; HindIII; EcoRV; Nhel; BamHI 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: pXC33b (ATCC 86995)

References

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

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