pOSEX5B

87215™

Description

Expression vector allowing osmotically controlled expression of cloned inserts directed by E. coli proU promoter. Expression can be induced in cells grown in low osmolarity media by the addition of sodium chloride. Absence of a stop codon between the proV? sequence and the ATG start codon allows production of a fusion protein between ProV and the cloned insert. Insertion of a stop codon at this junction may reduce the yield of recombinant protein. Gene 151: 137-142, 1994One of three vectors (ATCC 87214 ? 87216) differing only in the reading frame of the multiple cloning site. Vector constructed from pOSEX3 (ATCC 87212) by replacement of the multiple cloning site with a ribosome binding site, initiation codon and multiple cloing site from pTrc99B. Gene 151: 137-142, 1994

Clone type: Vector

Shipping information: *Escherichia coli* 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

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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.

Vector Information

Construct size (kb): 4.443999767303467
Vector name: pOSEX5B (plasmid)
Type of vector: plasmid
Construction: pOSEX3
Coding sequence: proV 5' sequence
Initiation codon: ATG
Markers: ampR
MCS: NcoI...HindIII
Promoters: Expression: proU
Replicon: pMB1; rop (copy number control)
Terminator: rrnB T1
Transcription terminator: rrnB T1; rrnB T2

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Notes

Restriction digests of the clone five the following sizes (kb): BamHI 4.4; PvuII 4.4; HindIII 4.4. ---ATCC staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pOSEX5B (ATCC 87215)

References

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

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Revision

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