pOSEX4

87213™

Description

This is an expression vector allowing osmotically controlled expression of cloned inserts directed by the *E. coli* proU promoter. Expression can be induced in cells grown in low osmolarity media by the addition of sodium chloride. The vector does not provide a ribosome binding site or initiation codon.This vector was constructed from pOSEX2 (ATCC#87211) by deletion of a portion of the pBR322 backbone, including the copy control region.This material is being provided with the explicit understanding that it not be used for commercial purposes without prior authorization from the depositor.

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

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.

Vector Information

Construct size (kb): 3.34
Vector name: pOSEX4 (plasmid)
Type of vector: plasmid
Construction: pOSEX2
Coding sequence: proV 5' sequence
Markers: ampR
MCS: BamHI...HindIII
Promoters: Expression: proU
Replicon: pMB1
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 gave the following sizes (in kb): BamHI 3.3 ; BglI 1.9, 1.4 ; HindIII 3.3.ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pOSEX4 (ATCC 87213)

References

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

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