



# pOSEX5A

## 87214™

### 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, 1994 One 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 cloning site from pTrc99A.

Gene 151: 137-142, 1994

**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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## Vector Information

**Construct size (kb):** 4.442999839782715

**Vector name:** pOSEX5A (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

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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 give the following sizes (kb): BamHI 4.4; PvuII 4.4; HindIII 4.4. —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: pOSEX5A (ATCC 87214)

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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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