



# pOSEX2

87211™

## Description

**Clone type:** Vector

**Host:** *Escherichia coli* MKH13 (ATCC 47087)

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## Storage Conditions

**Product format:** Freeze-dried

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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

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.

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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):** 5.380000114440918

**Intact vector size:** 5.380

**Vector name:** pOSEX2 (plasmid)

**Type of vector:** plasmid

**Construction:** pUC-BM20, proU (pJL32-3), rrnB (pTrc99A), pBR322

**Host range:** *Escherichia coli*

**Cloning sites:** BamHI; mLul; BfrI; NotI; EclXI; KspI; Asp718; KpnI; ApaI; Sall; XbaI; SacI; SphI; EcoRV; NcoI; HindIII

**Coding sequence:** proV 5' sequence, <-, 4756-5065; proV 5' sequence

**Markers:** ampR; tetR

**MCS:** BamHI...HindIII, <-, 4749-4672

**Polylinker sites:** BamHI; mLul; BfrI; NotI; EclXI; KspI; Asp718; KpnI; ApaI; Sall; XbaI; SacI; PstI; SphI; EcoRV; NcoI; StyI; HindIII

**Promoters:** Expression: proU

**Replicon:** pMB1; rop (copy number control)

**Terminator:** rrnB T2, <-, 4263-4340

**Transcription terminator:** rrnB T2, <-, 4263-4340; rrnB T1, <-, 4422-4465

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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, 1.05; HindIII--4.6, 0.8; PvuII--5.4.

- ATCC staff

This material is being provided with the explicit understanding that it not be used for commercial purposes without prior authorization from the depositor.

- personal communication

Expression vector allowing osmotically controlled expression of cloned inserts directed by the E. coli proU promoter.

- Gene 151: 137-142, 1994

Expression can be induced in cells grown in low osmolarity media by the addition of sodium chloride.

- Gene 151: 137-142, 1994

Vector does not provide a ribosome binding site or initiation codon.

- Gene 151: 137-142, 1994

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pOSEX2 (ATCC 87211)

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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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### **Revision**

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