



# REP4X

87604™

## Description

This is a *Schizosaccharomyces pombe* expression vector distributed in *Escherichia coli*. It contains the full strength nmt1 promoter. This vector was constructed by deleting the ATG in the polylinker of the original REP4 plasmid and an XhoI linker was cloned into the blunted Ball-Sall cut REP4 plasmid. The Sall site was preserved. REP3X (ATCC#87603) also contains the full strength nmt1 promoter whereas REP41X (ATCC#87605) and REP42X (ATCC#87607) have a medium strength promoter (nmt1\*) and REP81X (ATCC#87606) and REP82X (ATCC#87608) have a low strength (nmt1\*\*) promoter due to a mutation in the TATA box (Gene 123: 131-136, 1993). REP3X and REP4X differ in that REP3X contains LEU2 (2.2 kb) and REP4X contains ura4+ (1.8 kb).

**Clone type:** Vector

**Shipping information:** *Escherichia coli* containing the phagemid

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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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

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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):** 8.5

**Vector name:** REP4X (phagemid)

**Type of vector:** phagemid

**Construction:** pUC119

**Markers:** ampR; ura4+

**MCS:** XhoI...SmaI

**Promoters:** Expression: nmt1 (full strength)

**Replicon:** ars1; pMB1, f1

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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 gave the following sizes (in kb): EcoRI 7.1, 1.4 ; XhoI

8.5 ; HindIII 5.5, 1.9, 1.1.

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: REP4X (ATCC 87604)

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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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