




## Product Sheet


# REP4X (ATCC® 87604™)

Please read this FIRST



Storage Temp.  
**Store unopened  
freeze dried vial  
at 4° C.**

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Biosafety Level  
**1**

### Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: REP4X (ATCC® 87604™)

### Shipping Information

Freeze dried *E. coli* containing the phagemid

### 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). Designation: REP4X

### Propagation

1. Open vial according to instructions. 2. aseptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100  $\mu$ L to a test tube containing 5 mL LB+ ampicillin (50-100  $\mu$ g/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37° C. 3. Isolate DNA using standard plasmid preparation procedures.

Growth Conditions  
Temperature: 37.0°C  
Medium

ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

### Vector Information

Size (kb): 8.5000000000000000  
Vector: REP4X (phagemid)  
Promoters: Promoter for expression nmt1 (full strength)  
Construction: pUC119  
Marker(s): ampR, ura4+  
Construct size (kb): 8.5  
Features: marker(s): ampR  
marker(s): ura4+  
promoter for expression: nmt1 (full strength)  
replicon: ars1  
replicon: pMB1, f1  
MCS: XhoI...SmaI

### References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

### 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

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

### ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty

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Email: [Tech@atcc.org](mailto:Tech@atcc.org)


Or contact your local distributor



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for viability is no longer valid.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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