



## Product Sheet

# p34E-Tp plasmid in *E. coli* (ATCC® 87447™)

Please read this **FIRST**



Storage Temp.  
**Store frozen vial  
at -80° 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: p34E-Tp plasmid in *E. coli* (ATCC® 87447™)

### Shipping Information

Frozen glycerol stock of *E. coli* containing the plasmid

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

This plasmid contains a trimethoprim resistance cassette which is useful as a selectable marker, for cassette mutagenesis of cloned genes, and for the construction of new cloning vectors. The cassette insert was amplified using primers that allowed incorporation of two EcoRI sites, resulting in 3 bp mismatches with respect to the portion of the GenBank record J01774 described below. This vector was constructed by inserting a trimethoprim resistance cassette into the pGEM-3/4 vector. The insert and vector components are described below under insert component and vector component, respectively.

Designation: p34E-Tp plasmid in *E. coli*

### Propagation

Transfer a loopful to a test tube containing 5 mL LB+ 1.5 mg/mL of trimethoprim broth. A loopful of culture can also be streaked on an LB + tmp agar plate. Incubate cultures at 37°C. Isolate DNA using standard plasmid preparation procedures.

#### Growth Conditions

Temperature: 37.0°C

#### Medium

ATCC® Medium 2031: LB + 1.5 mg/ml trimethoprim

### Vector Information

Vector: p34E-Tp (plasmid)

Promoters: Promoter for in vitro transcription SP6

Construction: pGEM-3, pGEM-4, dhfrIIIb (tmpR)

Marker(s): ampR, tmpR

Construct size (kb): 3.527

Features: marker(s): ampR

marker(s): tmpR

promoter for expression: lac

promoter for in vitro transcription: SP6

promoter for in vitro transcription: T7

MCS: EcoRI...HindIII

MCS: HindIII...EcoRI

### 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): Aval 2.9, 0.4, 0.2 ; BglII 3.5 ; EcoRI 2.9, 0.6. 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 for viability is no longer valid.



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### 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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