



# p34E-Tp plasmid in *E. coli*

87447™

## 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.

**Organism:** R388

**Clone type:** Vector

**Shipping information:** *Escherichia coli* containing the plasmid in glycerol stock

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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**

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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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### Insert Information

**Insert size (kb):** 0.6179999999999999

**Type of DNA:** cDNA

**Target gene:** dihydrofolate reductase, trimethoprim resistance

**Gene product:** dihydrofolate reductase, trimethoprim resistance [dhfrIIb]

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### Vector Information

**Construct size (kb):** 3.527

**Vector name:** p34E-Tp (plasmid)

**Construction:** pGEM-3, pGEM-4, dhfrIIb (tmpR)

**Markers:** tmpR; ampR

**MCS:** EcoRI...HindIII; HindIII...EcoRI

**Promoters:** Expression: lac; *In vitro*

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### Growth Conditions

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### Medium:

ATCC Medium 2031: LB + 1.5 mg/ml trimethoprim

**Temperature:** 37°C

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### Notes

Restriction digests of the clone gave the following sizes (in kb): Aval 2.9, 0.4, 0.2 ;

BglI 3.5 ; EcoRI 2.9, 0.6.

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: p34E-Tp plasmid in E. coli (ATCC 87447)

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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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