**Product Sheet** 

# Escherichia coli 1046 (pCRE1)

**77368**<sup>™</sup>

#### Description

This *E. coli* contains the pCRE1 plasmid and expresses the Cre recombinase from a lacZ promoter. Insert-containing lambdaMGU2 (77367) cannot grow productively in this RecA- strain, so excised phagemid are recovered as ampR surviviors of phage infection.

Clone type: Clone Host: Escherichia coli 1046

## **Storage Conditions**

Product format: Freeze-dried Storage conditions: 2°C to 8°C

#### 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.

#### 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



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or national agencies.

#### **Certificate of Analysis**

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

#### Insert Information

Insert size (kb): 1.6 Type of DNA: genomic Genome: bacteriophage P1 Target gene: recombinase, site-specific Gene name: recombinase, site-specific Gene product: recombinase, site-specific [cre] Gene symbol: cre Contains complete coding sequence: Unknown Insert end: Pvull

#### Vector Information

Construct size (kb): 5.960 Intact vector size: 4.363 Vector name: pBR322 Type of vector: plasmid Construction: pBR313 Vector information: Cross references: DNA Seq. Acc.: J01749 Cloning sites: EcoRI; ClaI; HindIII; EcoRV; BamHI; SphI; SalI; XmaIII; NruI; BspMI; BsmI; Styl; AvaI; BalI; BspMII; PvuII; Tth111I; NdeI; AfIIII; PpaI; PstI; PvuI; ScaI; SspI; AatII Markers: ampR; tetR Replicon: pMB1



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## **Growth Conditions**

Medium:

ATCC Medium 1273: LB medium (ATCC medium 1065) with 20 mcg/ml tetracycline Temperature: 37°C

## Handling Procedures

- 1. Open vial according to instructions.
- 2. Asceptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 µL to a test tube containing 5 mL of the recommended media. A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37°C.

#### Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--3.9, 2.05; XmnI--3.1, 2.4, 0.45; HindIII--5.2, 0.75; BamHI--4.4, 1.55; EcoRI/PstI--3.5, 1.4, 0.7, 0.35. - ATCC staff

Expresses the Cre recombinase from a lacZ promoter. Insert-containing lambdaMGU2 (ATCC 77367) cannot grow productively in this RecA- strain, so excised phagemid are recovered as ampR survivors of phage infection.

- Gene 120: 135-141, 1992

## **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: Escherichia coli 1046 (pCRE1) (ATCC 77368)

#### References

References and other information relating to this material are available at www.atcc.org.

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#### Revision

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#### **Contact Information**

ATCC 10801 University Boulevard Manassas, VA 20110-2209 USA



US telephone: 800-638-6597 Worldwide telephone: +1-703-365-2700 Email: tech@atcc.org or contact your local distributor

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