



Escherichia coli 1046 (pCRE1)

77368™

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 survivors 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

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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: PvuII

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;

StyI; Aval; Ball; BspMII; PvuII; Tth111I; NdeI; AflIII; PpaI; PstI; PvuI; Scal; SspI; AatII

Markers: ampR; tetR

Replicon: pMB1

***Escherichia coli* 1046 (pCRE1)**

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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. Aseptically 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 amp^R 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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