pHSG-cre

87075™

Description

Organism: *Staphylococcus aureus* subsp.*aureus* bacteriophage P1
Clone type: Vector
Host: *Escherichia coli* JM109 (ATCC 53323)

Storage Conditions

Product format: Frozen

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 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): 1.3
Type of DNA: genomic
Insert information:
Insert 5' end: EcoRI
Insert 3' end: SalI
Cross references: DNA Seq. Acc.: X03453
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: Yes

Vector Information

Construct size (kb): 4.0
Intact vector size: 2.676
Vector name: pHSG298
Type of vector: plasmid
Construction: pHSG1339; pHSG298, lambdaKC
Host range: *Escherichia coli*
Vector end: EcoRI; SalI
Vector information:
Other unique sites: ClaI
other: cre
Cloning sites: EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; SalI; PstI; SphI
Insert detection: lacZ', <-
Markers: kanR
MCS: HindIII...EcoRI, ->
Polylinker sites: EcoRI; SacI; KpnI; SmaI; BamHI; XbaI; SalI; PstI; SphI; HindIII

Promoters: lac
Replicon: pSC101; pMB1

Growth Conditions

Medium:
ATCC Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI/SalI--2.6, 1.4; EcoRI--4.0; PstI--2.6, 1.4.
- ATCC staff

The cre gene contains the following restriction sites (approximate kb from the 5' end): BamHI--0.84; ClaI--1.29.
- GenBank/EMBL/DDBJ

Constructed by ligating a 1.3 kb cre-containing fragment from lambdaKC to pHSG298 digested with EcoRI+SalI.
- Biotechniques 16: 1060-1064, 1994

A plasmid useful for generating novel lambda/plasmid hybrid vectors by using cre-lox recombination to exchange new plasmids for plasmids already in lambda/plasmid hybrids.
- Biotechniques 16: 1060-1064, 1994

The lambda/plasmid hybrid vectors can then be used for automatic subcloning; that is, the cre-mediated excision of plasmid constructs.
- Biotechniques 16: 1060-1064, 1994

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pHSG-cre (ATCC 87075)

References

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

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