pK19mobsacB plasmid in E. coli SCS110

87098™

Description
This is a cloning vector that allows mobilization into a wide range of Gram- and Gram+ bacteria. After mobilization, the plasmid can be maintained by integration into the host chromosome via homologous recombination. Excision of the intervening plasmid sequence by a double cross-over event can be facilitated by selection on medium containing 10% sucrose. The sacB gene has been modified to eliminate the HindIII and EcoRI sites in the coding region. This vector differs from pK18mobsacB (ATCC# 87097) only in the orientation of the polylinker.


Organism: Bacillus subtilis subsp. subtilis (Ehrenberg) Cohn
Clone type: Vector
Host: Escherichia coli SM10 lambda pir

Storage Conditions
Product format: Frozen
Storage conditions: -80°C or colder

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):** 1.8999999999999999

**Vector Information**

**Construct size (kb):** 5.66

**Vector name:** pK19mob

**Type of vector:** plasmid

**Construction:** pK19, pSUP102 (RP4 mob) sacB; the sacB gene was inserted into the pK19mob vector.

**Vector information:**

Insert: sacB

Genome: *Bacillus subtilis*

Gene name: levansucrase

Insert end: Ecl136II

Other: oriT

Other: oriV

**Cloning sites:** HindIII; SphI; PstI; Sall; XbaI; BamHI; SmaI; EcoRI

**Insert detection:** lacZ’
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**Markers:** sacB; kanR

**MCS:** HindIII….EcoRI

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**Growth Conditions**

**Temperature:** 37°C

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**Notes**

Restriction digests of the clone gave the following sizes (in kb): EcoRI 5.6; HindIII 5.6; PstI 5.6.

-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: pK19mobsacB plasmid in *E. coli* SCS110 (ATCC 87098)

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**References**

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

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