



pMOB3

77282™

Description

Organism: *Bacillus subtilis* subsp. *subtilis* (Ehrenberg) Cohn

Clone type: Clone

Host: *Escherichia coli* DH5alphaF'

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): 5

Type of DNA: genomic

Genome: *Bacillus subtilis*; *Bacillus subtilis*; pCU1

Gene name: levansucrase; sucrase, levansucrase regulator; (IncN) origin of transfer replication

Gene product: (IncN) origin of transfer replication [oriT]

Gene symbol: sacB; sacR; oriT

Contains complete coding sequence: Unknown

Insert end: EcoRI; Sall

Vector Information

Construct size (kb): 8.100000381469727

Vector name: pHSS21

Type of vector: plasmid

Construction: pUC19

Host range: *Escherichia coli*

Vector end: EcoRI; XhoI

Cloning sites: HindIII; SphI; Sall; XbaI; BamHI; XhoI; KpnI; SacI; EcoRI

Markers: cmlR; sacB; kanR

Polylinker sites: HindIII; SphI; PstI; Sall; XbaI; BamHI; XhoI; KpnI; SacI; EcoRI

Promoters: lac

Replicon: pMB1

Growth Conditions

Medium:

ATCC Medium 7155: LB Medium, Miller with 50µg/mL Kanamycin and 25µg/mL Chloramphenicol

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): NotI--5.6, 2.4; EcoRI/HindIII--2.8, 1.5, 1.15, 0.9, 0.7, 0.55, 0.2; HindIII--4.2, 1.8, 0.9, 0.8.

- ATCC staff

Available for research purposes only.

- personal communication

Plasmid containing an oriT/cmLR/sacBR mobilization cassette that can be inserted into a general purpose vector (ATCC 77278, 77279) for conjugal transfer of cloned inserts into the chromosome of *P. aeruginosa*.

- Mol. Microbiol. 6: 1195-1204, 1992

Expression of sacB confers sensitivity to sucrose (no growth on LB medium containing 5% sucrose).

- Mol. Microbiol. 6: 1195-1204, 1992

Constructed by inserting a 0.9 kb BamHI fragment containing cmLR into the BamHI site of pMOB2 (ATCC 77281). The NotI digest excises a fragment of approximately 5.4 kb that includes short segments of the pHSS21 sequence.

- Mol. Microbiol. 6: 1195-1204, 1992

The NotI cassette includes these features: pHSS21 sequence - EcoRI - oriT - PstI

- BamHI - HindIII - cmLR - HindIII - BamHI - XbaI - Sall - PstI -

sacBR/HindIII/EcoRI/XbaI/Sall - PstI - SphI - HindIII - pHSS21 sequence.

- Mol. Microbiol. 6: 1195-1204, 1992

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pMOB3 (ATCC 77282)

References

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

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