pDMS197

87694™

Description

Clone type: Vector
Host: *Escherichia coli* SM10 lambda pir

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

Target gene: levansucrase

Vector Information

Vector name: pDMS197 (plasmid)
Type of vector: plasmid
Construction: pRE107, tetR (pBR322)
Host range: broad host range
Cloning sites: BamHI; XbaI; KpnI; SacI; SmaI
Markers: sacB; sacB1; tetR
MCS: BamHI...EcoRI, ->
Polylinker sites: BamHI; HindIII; XbaI; KpnI; SphI; EcoRV; SacI; SmaI; EcoRI
Replicon: conditional R6K ori; oriT
Restriction sites: EcoRI; HindIII

Growth Conditions

Medium:
ATCC Medium 1631: LB medium (ATCC medium 1065) with 10 mcg/ml tetracycline
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): XbaI-- 6.55; KpnI-- 6.55; HindIII-- 2.9, 2.2, 1.4.

- ATCC staff

One of four allelic exchange suicide vectors (ATCC 87691 - 87694) that provide both selection for chromosomal integration (ampR, cmLR, kanR or tetR) and counterselection for loss of vector DNA and the wild type allele.
- Gene 207: 149-157, 1998

Construct is suicide plasmid in any host not expressing pir.
- Gene 207: 149-157, 1998

The conditional R6K origin of replication requires that the pi protein be expressed in trans for plasmid maintenance.
- Cell 15: 1199-1208, 1978

Cloned inserts may be integrated into the host chromosome (a single recombination event) following electroporation and appropriate antibiotic selection.
- Gene 207: 149-157, 1998

Negative selection for sucrose sensitivity (sacB) selects for a second recombination event resulting in loss of vector DNA.
- Infect. Immun. 59: 4310-4317, 1991
- Mol. Microbiol. 5: 1447-1457, 1991

The sacB1 allele is a variant of sacB with certain restriction sites removed by site directed mutagenesis. Expression of sacB confers sensitivity to sucrose.
- Mol. Microbiol. 18: 877-889, 1995

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pDMS197 (ATCC 87694)

References

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

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