pRE107 plasmid in *E. coli*

87691™

Description

One of 4 allelic exchange suicide vectors (ATCC 87691, ATCC 87692, ATCC 87693, ATCC 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. Construct is a suicide plasmid in any host not expressing *pir*. Cloned inserts may be integrated into the host chromosome (a single recombination event) following electroporation and appropriate antibiotic selection. Negative selection for surcrose sensitivity (sacB) selects for a second recombination event resulting in loss of vector DNA.The sacB1 allele is a variant of sacB with certain restriction sites removed by site directed mutagenesis. Expression of sacB confers sensitivity to sucrose. The R6K origin of replication requires that the pi protein be expressed in trans for plasmid maintenance.

Clone type: Vector

Host: *Escherichia coli* Stbl2

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

Target gene: levansucrase

Vector Information

Construct size (kb): 6.55
Vector name: pRE107 (plasmid)
Construction: pGP704, sacB1 (pUC58)
Markers: sacB; ampR
MCS: PstI...EcoRI
Replicon: conditional R6K ori; oriT
Restriction sites: EcoRI; HindIII

Growth Conditions

Medium:

ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Notes

Restriction digests of the clone gave the following sizes (in kb): BamHI 3.2, 1.7, 1.5; EcoRI 4.0, 2.8; XbaI 6.5.
-ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRE107 plasmid in *E. coli* (ATCC 87691)

References

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

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Revision

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