

pRE118 87693[™]

Description

One of four allelic exchange suicide vectors (ATCC $^{\circ}$ 87691-87694 $^{\mathsf{TM}}$) that provide both selection for chromosomal integration (ampillicin, chloramphenicol, kanamycin, or tetracycline resistance) and counterselection for the loss of vector DNA and the wild type allele (Gene 207, 1998). Construct is a suicide plasmid in any host not expressing pir. The conditional R6K origin of replication requires the pi protein be expressed in trans for plasmid maintenance (Cell 15, 1978). Cloned inserts may be integrated into the host chromosome (a single recombination event) following electroporation and appropriate antibiotic selection. Negative selection for sucrose sensitivity (sacB) selects for a second recombination event resulting in loss of vector DNA (Infect Immun 59, 1991; Mol Microbiol 5, 1991). DNA was transformed into *Escherichia coli* CC118 lambda pir^+ and provided as a frozen culture.

Clone type: Vector

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.

BSL₁



pRE118 87693

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: pRE118 (plasmid)

Type of vector: plasmid

Construction: pRE107, kanR (pUC71-K)

Vector information:

Selectable Marker: Kanamycin resistant Marker: kanR, sacB1 (Mol Microbiol 18, 1995)

Cloning sites: Xbal; Kpnl; Sphl; EcoRV; Sacl; Smal; EcoRI

Markers: sacB; kanR

Replicon: conditional R6K; oriT

Growth Conditions





Medium:

ATCC Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin

Temperature: 37°C

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRE118 (ATCC 87693)

References

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

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