# pRE118

87693™

## Description

One of four allelic exchange suicide vectors (ATCC® 87691-87694™) 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 (*sac*B) 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.

## 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:** 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:** XbaI; KpnI; SphI; EcoRV; SacI; SmaI; 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.

## Warranty

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## Revision

This information on this document was last updated on 2024-10-25

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