Designation: pDMS197
Distribution Host: *Escherichia coli* SM10 lambda pir

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

**Size (kb):** 6.50
**Type of vector:** plasmid
**Cloning sites:** BamHI XbaI KpnI SacI
**Polylinker sites:** BamHI HindIII XbaI KpnI SphI EcoRV SacI Smal EcoRI
**Vector:** pDMS197 (plasmid)
**Construction:** pRE107, tetR (pBR322)
**Host range:** broad host range; *Escherichia coli*

**Features (with orientation and position when available):**
- **MCS:** BamHI...EcoRI, ->
- **marker(s):** sacB1, ->
- **restriction site:** EcoRI HindIII, ->
- **replicon:** conditional R6K ori
- **replicon:** oriT
- **marker(s):** tetR, ->

**References**

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

**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.


Construct is suicide plasmid in any host not expressing pir.


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.


Negative selection for sucrose 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.
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

**ATCC Warranty**

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

**Disclaimers**

This product is intended for laboratory research purposes only. It is not intended for any animal or human therapeutic or diagnostic use.

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: pDMS197 (ATCC® 87694™)

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org).

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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