



Product Sheet

## pDMS197 (ATCC® 87694™)

Please read this FIRST



### Intended Use

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

### Citation of Strain

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

### Shipping Information

Distributed: freeze-dried

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

**Designation:** pDMS197

**Distribution Host:**

Distribution host: *Escherichia coli* SM10 lambda pir

### Propagation

**Growth Conditions**

**Temperature:** 37.0°C

**Medium**

ATCC® Medium 1631: LB medium (ATCC medium 1065) with 10 mcg/ml tetracycline

### Vector Information

Size (kb): 6.5000000000000000

DESCRIPTION OF VECTOR:

Intact vector size: 6.500

Type of vector: plasmid

Cloning sites: BamHI XbaI KpnI SacI SmaI

Polylinker sites: BamHI HindIII XbaI KpnI SphI EcoRV SacI SmaI EcoRI

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, ->

Vector: pDMS197 (plasmid)

Construction: pRE107, tetR (pBR322)

Marker(s): sacB, tetR

Construct size (kb): 6.5

Features: marker(s): sacB1

marker(s): tetR

replicon: conditional R6K ori

replicon: oriT

MCS: BamHI...EcoRI

restriction site: EcoRI HindIII

### 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.

- 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



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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



### Biosafety Level: 1

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 use in humans.

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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](http://www.atcc.org).

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