



Product Sheet

pPLc24 [PL-A] (ATCC® 31697™)

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: pPLc24 [PL-A] (ATCC® 31697™)

Shipping Information

Distributed: freeze-dried

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: pPLc24 [PL-A]

Distribution Host:

Distribution host: Escherichia coli M5219

Distribution host: Escherichia coli M5219

Propagation

Growth Conditions

Temperature: 28.0°C

Medium

ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Vector Information

Size (kb): 3.1429998874664310

Vector: pPLc24 (plasmid)

Promoters: Promoter lambda PL

Construction: pBR322, MS2, lambda

Marker(s): ampR

Construct size (kb): 3.142999887466431

Features: marker(s): ampR

promoter: lambda PL

replicon: pMB1

enhancer: none

References

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

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--3.1;

PvuI/BamHI--1.7, 1.4; BglI--3.1; PstI--3.1; HindIII--3.1.

- ATCC staff

ATG is in phase with GAT from the BamHI site, AAG from the HindIII site, TTA from the MstII site, CGC from the NruI site and GCT from the EspI site.

- personal communication

Plates equally well at 28C and 42C in E. coli K-12 deltaH1 hosts. This vector is used for expression of fused proteins with MS2 polymerase. The orientation of the PL promoter is clockwise with respect to the plasmid ori. Shows reduced plating efficiency in E. coli M5219 at 42C under antibiotic selection.

Translation from the MS2 replicase is colinear with transcription from the PL promoter and thus is under PL control. The following unique restriction sites are found on this vector separated by (bp)(approx): BglI- 100- BamHI- 900- EcoRI- 600- XhoI- 300- SmaI- 250- HindIII- 1650. This vector was constructed from pPLc28 (ATCC 31696) by inserting a 431 bp EcoRI/BamHI fragment coding for the ribosome binding site and the first 98 amino acids of the MS2 replicase (from pMS2-7) into pPLc28. Escherichia coli M5219 is Escherichia coli K-12 M72 lac(am) trp(am) rpsL lambda cl857 deltaH1 bio252. deltaH1 removes part of cro and all genes to the right of cro. bio252 removes all genes to the left of cII1.

At 42C, N is expressed from the chromosome.

- U.S. Pat. 4,874,702 dated Oct. 17, 1989

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PvuI/BamHI--1.7, 1.4; BglI--3.1; PstI--3.1; HindIII--3.1.

- ATCC staff

ATG is in phase with GAT from the BamHI site, AAG from the HindIII site, TTA



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from the MstII site, CGC from the NruI site and GCT from the EspI site.
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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.

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