ATCC

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 cI857 deltaH1 bio252. deltaH1 removes part of cro and all genes to the right of cro. bio252 removes all genes to the left of cIII.
At 42C, N is expressed from the chromosome.
- U.S. Pat. 4,874,702 dated Oct. 17, 1989

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

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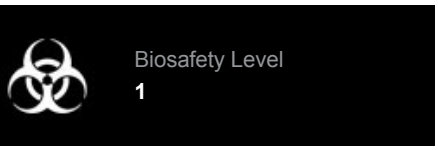

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Biosafety Level: 1

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

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

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