ATCC

Product Sheet

pAL-F (ATCC® 87563™)

Please read this FIRST

Storage Temp.
Store unopened frozen vial at -80^0 C.

Biosafety Level
1

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: pAL-F (ATCC® 87563™)

Shipping Information

Frozen glycerol stock of *Escherichia coli* containing the cosmid.

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

This is a cosmid cloning vector useful for sequencing genomic DNA inserts by generation of an ordered set of deletion subclones. To obtain ordered deletions of a genomic fragment, the DNA of interest is cloned into the BamHI site, followed by digestion of the plasmid with one of 4 restriction endonucleases (KpnI, SalI, XhoI, SacI) and subsequent religation to obtain a set of subclones. IS1-promoted deletions can be selected by plating each subclone on deoxygalactose-containing media. Appropriate deletion clones should be Gal- and StrS. Sequencing of the cloned inserts can be performed using the -23 IS1 primer (5 AAA ACA CCA TCA TAC ACT AA 3) published in Methods in Enzymology 155: 177-204, 1987.
Designation: pAL-F

Propagation

Medium
ATCC Medium 1065 (see below) plus ampicillin (100 ug/ml) plus kanamycin (50 ug/ml) ATCC Medium 1065: Tryptone (Difco 0123), 10.0 g Yeast Extract (Difco 0127), 5.0 g NaCl, 10.0 g Distilled water, 1.0 L

Growth Conditions
Temperature: 37.0°C

Propagation Procedure
Transfer a loopful to a test tube containing 5 mL LB+ 100 mg/mL of ampicillin and 50 ug/mL kanamycin broth. A loopful of culture can also be streaked on an LB + amp + kan agar plate. Incubate cultures at 37^{0}C. Isolate DNA using standard plasmid preparation procedures.

Vector Information

Size (kb): 8.8400001525878910
Vector: pAL-F (cosmid)
Marker(s):ampR,kanR,strS
Construct size (kb): 8.84000015258789
Features: insert detection: lacZalpha
marker(s): ampR
marker(s): kanR
marker(s): strS
other: IS1 transposable element
other: lambda cos site
replicon: pMB1
replicon: rop (copy number control)
MCS: EcoRI...HindIII
coding sequence: galK

References

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

Notes

Restriction digests of the vector gave the following sizes (kb): HindIII 8.8; BamHI 8.8; EcoRI 8.8.
------ATCC staff

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

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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.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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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