pFD666

77286™

Description

A cosmid shuttle vector for actinomycetes or *E. coli* that can be used for production of ssDNA and has promoters for in vitro RNA synthesis. The order of the major features in this plasmid is: rrnC terminator - SP6 -SphI/MCS/HindIII - T7 - trpA terminator - neo - synthetic promoter - pMB1 ori -cos - M13 ori - pJV1 ori.Terminators flanking the polylinker protect the vector from transcripts originating in cloned inserts. - Gene 111: 115-118, 1992The pJV1 ori from *Streptomyces phaeochromogenes* is compatible with plasmids derived from pIJ101. This vector can be used for complementation studies using multiple cloned genes in one host. - Gene 111: 115-118, 1992M13K07 helper phage improves the yield of ssDNA in E. coli with this vector. M13mp18 may also be used. - Gene 111: 115-118, 1992

Clone type: Vector

Shipping information: *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

Intended Use

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

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Vector Information

Construct size (kb): 5.25
Vector name: pFD666 (cosmid)
Construction: pIBI76, Lorist6, pUC118, pCOS2EMBL, pWOR126
Markers: kanR
Promoters: SP6; T7
Replicon: pMB1; M13; pJV1
Terminator: rrnC, trpA

Growth Conditions

Medium:
ATCC Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin
Temperature: 30°C

Notes

Restriction digests of the vector gave the following sizes (kb): BamHI--5.4;PstI--5.4;PvuII--3.7, 1.7; SacI--4.5, 0.9.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pFD666 (ATCC 77286)

References

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

Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

Disclaimers

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use. Any proposed commercial use is prohibited without a license from ATCC.

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 or complete and the customer bears the sole responsibility of confirming the accuracy and completeness of any such information.

This product is sent on the condition that the customer is responsible for and assumes all risk and responsibility in connection with the receipt, handling, storage, disposal, and use of the ATCC product including without limitation taking all appropriate safety and handling precautions to minimize health or environmental risk. As a condition of receiving the material, the customer agrees that any activity undertaken with the ATCC product and any progeny or modifications will be conducted in compliance with all applicable laws, regulations, and guidelines. This product is provided 'AS IS' with no representations or warranties whatsoever except as expressly set forth herein and in no event shall ATCC, its parents, subsidiaries, directors, officers, agents, employees, assigns, successors, and affiliates be liable for indirect, special, incidental, or consequential damages of any kind in connection with or arising out of the customer's use of the product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.

Please see the material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at www.atcc.org.

Copyright and Trademark Information

© ATCC 2023. All rights reserved.
ATCC is a registered trademark of the American Type Culture Collection.

Revision

This information on this document was last updated on 2025-09-09

Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor