Product Sheet



Description

One of several tightly controlled expression vectors (ATCC 87393 - ATCC 87402) regulated by the arabinose operon. Vectors differ in replicon, antibiotic resistance marker, multiple cloning sites and need for translation initiation sequences. Cultures should be grown in minimal media for more reproducible induction of expression. Expression is induced in glycerol containing media by addition of arabinose. Expression is repressed by addition of glucose or other catabolites. Cloned inserts must provide a translation initiation sequence (ATG) and ribosome binding site for expression. Plasmid contains bla (ampR) sequences surrounding the cmLR gene which could promote recombination if this plasmid is used in combination with other compatible ampR plasmids. Recombination can be avoided by the use of recA host strains, or it can be used to advantage to intentionally exchange markers among plasmids. The following primers can be used for sequencing of cloned inserts: 5' primer (27 - 8 bp upstream of the Nhel site) 5' CTGTTTCTCCATACCCGTT 3'; and one of two 3' primers: 3' primer 1 (2-19 bp downstream of the HindIII site) 5' CTCATCCGCCAAAACAG 3'; 3' primer 2 (17-33 bp downstream of the HindIII site) 5' GGCTGAAAATCTTCTCT 3'. Clone type: Vector Shipping information: Escherichia coli containing the plasmid

Storage Conditions

Product format: Frozen Storage conditions: -70°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any

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.

Insert Information

Target gene: arabinose regulator

Vector Information

Construct size (kb): 6.03 Vector name: pBAD18-Cm (phagemid) Type of vector: phagemid Construction: pBAD18, cmlR (pACYC184) Vector information: other: CAP site Markers: araC; cmlR; ampR



Product Sheet

pBAD18-Cm

87396

MCS: Nhel...HindIII Operator: I2 + I1; O1; O2 Promoters: araC; arabinose BAD Regulator: araC Replicon: M13; pMB1 Terminator: rrnB T1 + T2 Transcription terminator: rrnB T1; rrnB T2

Growth Conditions

Medium: ATCC Medium 1675: LB Agar/Broth (1065) w/ 10ug/ml Chloramphenicol Temperature: 37°C

Handling Procedures

Thaw frozen vial. Transfer 100 uL to a test tube containing 5 mL LB+10mg/mL of chloramphenicol. A loopful of culture can also be streaked on an LB + chl agar plate. Incubate cultures at 37⁰ C. Isolate DNA using standard plasmid preparation procedures.

Notes

Restriction digests of the vector gave the following sizes (in kb): EcoRI 3.8, 2.3;HindIII 6.0; PstI 5.0, 1.1.ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pBAD18-Cm (ATCC 87396)



87396

Product Sheet

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 2024-10-25

Contact Information

ATCC 10801 University Boulevard



87396

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

