ATCC

Product Sheet

pBAD30 (ATCC® 87401™)

Please read this FIRST

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

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: pBAD30 (ATCC® 87401™)

Shipping Information

Frozen glycerol stock of *E. coli* containing the plasmid.

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 vector is one of several tightly controlled expression vectors (ATCC#87393-87402) regulated by the arabinose operon. Vectors differ in replicon, antibiotic resistance marker, multiple cloning site 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 the addition of arabinose. Expression is repressed by addition of glucose or other catabolites. Plasmid copy number is low due to the p15A replicon. This vector can be used when reduced gene expression is desirable. Plasmid is compatible with pBR-derived plasmids and may be used for coexpression of cloned inserts. Plasmid contains the 3 portion of the cat (cmLR) gene which could promote recombination if this plasmid is used in combination with other compatible cmLR 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 NheI 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.
Designation: pBAD30
Media:
ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Conditions

Temperature: 37.0°C

Vector Information

Size (kb): 4.923
Vector: pBAD30 (phagemid)
Promoters: Promoter araC
Construction: pBAD28
Marker(s):ampR,araC
Construct size (kb): 4.923
Features: marker(s): ampR
marker(s): cmlR
operator: I2 + I1
operator: O1
operator: O2
other: CAP site
promoter: araC
promoter for expression: arabinose BAD
regulator: araC
replicon: M13
replicon: p15A
MCS: NheI...HindIII
transcription terminator: rrnB T1 + T2

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 (in kb): BamHI 5.0 ; PstI 4.0, 1.1; AvaI 2.0, 1.85. 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

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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.

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 insure 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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