



Product Sheet

pBAD30 (ATCC® 87401™)

Please read this FIRST



Storage Temp.
**Store frozen vial
at -80° 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 CTGTTTCTCCATACCGTT- 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

Propagation

Transfer a loopful to a test tube containing 5 mL LB+50mg/mL of ampicillin broth. A loopful of culture can also be streaked on an LB + amp agar plate. Incubate cultures at 37°C. Isolate DNA using standard plasmid preparation procedures.

Growth Conditions

Temperature: 37.0°C

Medium

ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

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): cmIR

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; Aval 2.0, 1.85.

ATCC Staff

Biosafety Level: 1



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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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