ATCC

Product Sheet

pDOI-5 (ATCC® 87058™)

Please read this FIRST

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: pDOI-5 (ATCC® 87058™)

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

Designation: pDOI-5
Distribution Host: *Escherichia coli* MC1061; Roche 3943B

Propagation

Growth Conditions
Temperature: 37°C
Medium
ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Vector Information

Intact vector size: 7.240
Type of vector: plasmid
Cloning sites: BamHI EcoRI
Construction: pKCR
Host range: *Escherichia coli*; mouse

Features (with orientation and position when available):
promoter: Ea, →, 5046-7240
restriction site: BamHI, 1
other: beta-globin 3' sequence, →, 1-1200
restriction site: EcoRI, 638
replicon: pMB1, ←, 3226
marker(s): ampR, ←, 3984-4847
Vector: pDOI-5 (plasmid)
Promoters: Promoter Ea

References

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

Notes

Restriction digests of the clone give the following sizes (kb): BamHI--7.0; EcoRI--7.0; XbaI--7.0.
- ATCC staff

Shuttle expression vector used to target expression of a cloned gene to murine cells which normally display MHC class II molecules.
- J. Immunol. Methods 166: 287-291, 1993

The promoter is followed by a portion of the rabbit beta-globin gene, which provides a splice and a polyadenylation signal and is thought to provide a nuclear export signal.
- J. Immunol. Methods 166: 287-291, 1993

The BamHI cloning site may be prone to problems with cryptic splice donors leading to truncated transcripts.
- J. Immunol. Methods 166: 287-291, 1993

Elimination of non-essential plasmid sequence before microinjection of a recombinant vector may increase expression efficiency in the mouse.
- J. Immunol. Methods 166: 287-291, 1993

After insertion of the target gene, the pBR322 portion of the vector can be digested with one of the following enzymes to provide a linear molecule for microinjection: AatII, BglI, XbaI, NruI or HhaI.
- J. Immunol. Methods 166: 287-291, 1993

The order of the major features in the plasmid is: Ea promoter - BamHI -

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beta-globin sequence/EcoRI - XhoI - pMB1 ori - ampR - XbaI.
- J. Immunol. Methods 166: 287-291, 1993

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 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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