pDOI-5

87058™

Description

Clone type: Vector
Host: *Escherichia coli* MC1061; Roche 3943B

Storage Conditions

Product format: Frozen

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

Intact vector size: 7.240
Vector name: pDOI-5 (plasmid)
Type of vector: plasmid
Construction: pKCR
Vector information:
other: beta-globin 3' sequence, →, 1-1200
Cloning sites: BamHI; EcoRI
Markers: ampR
Promoters: Ea
Replicon: pMB1, ←, 3226
Restriction sites: BamHI; EcoRI

Growth Conditions

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

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pDOI-5 (ATCC 87058)

References

References and other information relating to this material are available at

www.atcc.org.

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