

87486TM

Description

The insert for this clone is a PCR amplified dap gene fragment from *Bacillus subtilis* including nucleotides 1358-3197 of Genbank L38424, and can be used as an expression control clone for microarrays. An artificial polyA tail was added onto the 3' end of the insert and can be excised using BamHI + NotI. To excise the insert without the polyA tail, use XhoI + BamHI.

Organism: Bacillus subtilis subsp. subtilis (Ehrenberg) Cohn

Clone type: Clone

Host: Escherichia coli DH5

Shipping information: Escherichia coli containing the plasmid

Storage Conditions

Product format: Freeze-dried **Storage conditions:** 2°C to 8°C

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.

BSL₁

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

Insert size (kb): 1.8400000000000001

Insert information:

Gene: dapB,dehydrodipicolinate reductase, jojF, jojG

Source: Bacillus subtilis

Genbank accession: L38424 (Nucleotides 1-1840 of the insert correspond to

nucleotides 1358-3197 of L38424.)

Insert end (5'): XhoI linker

Insert end (3'): BamHI/polyA/NotI linker

Vector Information

Construct size (kb): 4.8 Intact vector size: 2.961

Vector name: pBluescriptII KS-Type of vector: phagemid Vector end: Xhol; NotI

Vector information: Excise insert: Xhol+Notl

Promoter giving the sense strand:T3
Promoter giving the antisense strand: T7

Markers: ampR



Promoters: T3; T7

Growth Conditions

Medium:

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

Temperature: 37°C

Handling Procedures

- 1. Open vial according to instructions.
- 2. Asceptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 μ L to a test tube containing 5 mL LB+ ampicillin (50-100 μ g/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37°C.
- 3. Isolate DNA using standard plasmid preparation procedures.

Notes

Restriction digests of the clone give the following sizes (kb): NotI--5.0; NotI/XhoI--2.9, 2.1; XhoI--5.0.

- ATCC staff

The insert contains the following restriction sites (approximate kb from the 5' end): HindIII--0.48, 1.78; XmnI--0.91; EcoRI--1.13.

- GenBank/EMBL/DDBJ

Material Citation

If use of this material results in a scientific publication, please cite the material in the



following manner: pGIBS-DAP phagemid in E. coli (ATCC 87486)

References

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

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