# pGIBS-DAP phagemid in *E. coli*

**87486™**

## 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.

## 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.

## 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:** XhoI; NotI
**Vector information:** Excise insert: XhoI+NotI
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 µL to a test tube containing 5 mL LB+ ampicillin (50-100 µg/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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## Revision

This information on this document was last updated on 2024-10-25

## Contact Information

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