



pGIBS-LYS phagemid in *E. coli*

87482™

Description

This clone contains nucleotides 329-1345 of Genbank X17013, the *lysA* gene from *Bacillus subtilis*, 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

Insert information:

Gene: lysA, diaminopimelate decarboxylase

Source: *Bacillus subtilis*

Genbank accession: X17013 (Nucleotides 1-1016 of the insert correspond to nucleotides 329-1345 of X17013.)

Insert end (5'): XhoI linker

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

Vector Information

Construct size (kb): 3.9

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. Aseptically 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.
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Notes

Restriction digests of the clone give the following sizes (kb): NotI—4.0;

NotI/XhoI—3.0, 1.1; XhoI—4.0.

- ATCC staff

The insert contains the following restriction sites (approximate kb from the 5' end): HindIII—0.16; PstI—0.18; ClaI—0.47; BglI—0.54.

- GenBank/EMBL/DDBJ

An artificial polyA tail was added onto the 3' end of the insert and can be excised using BamHI + NotI. XhoI + BamHI will excise insert without the polyA tail.

Material Citation

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

following manner: pGIBS-LYS phagemid in *E. coli* (ATCC 87482)

References

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

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Contact Information

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Product Sheet

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