pGIBS-TRP phagemid in *E. coli*

87485™

Description

The insert for this clone is a PCR amplified trp gene fragment from *Bacillus subtilis* including nucleotides 1883-4400 of Genbank K01391, 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): 2.5
Insert information:
Gene: trpCDEF
Source: Bacillus subtilis
Genbank accession: K01391 (Nucleotides 1-2518 of the insert correspond to nucleotides 1883-4400 of K01391.)
Insert end (5'): XhoI linker
Insert end (3'): BamHI/polyA/NotI linker

Vector Information

Construct size (kb): 5.4
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--5.6; NotI/XhoI--3.0, 2.8; XhoI--5.6. Recommendation for verification: XhoI; NotI: XhoI/NotI; PstI; XbaI.
- ATCC staff

The insert contains the following restriction sites (approximate kb from the 5' end): BglII--1.25; PstI--2.06; XbaI--2.25.
- GenBank/EMBL/DDBJ

PCR amplified B. subtilis trp gene fragment (KO1391 from 1883->4400), added artificial polyA tail and inserted into XhoI->NotI pBluescript II KS+.
- personal communication

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pGIBS-TRP phagemid in *E. coli* (ATCC 87485)

References

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

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