pGIKS Dap5

87827™

Description

This item is one of a set of 11 cloned bacterial and phage genes (1) (set = ATCC No. 87840). *Esherichia coli* DH5a containing pGIKS-Dap5 is provided as a frozen glycerol aliquot. Nucleotides 1316 to 1981 of the gene *dapB* for the putative product dihydropicolinate reductase were directionally cloned from *Bacillus subtilis* genomic DNA into the *Xho* I - *Not* I (5?-3?) regions of the pBluescript II KS+ phagemid. The phagemid allows for either the production of an antisense transcript from the T7 promoter or a sense transcript from the T3 promoter. A 720 nucleotide transcript is produced from the T7 promoter when the construct is linearized with *Xho* I.

Organism: *Escherichia coli* (Migula) Castellani and Chalmers
Clone type: Clone
Deposited As: human

Storage Conditions

Product format: Frozen
Storage conditions: -80°C or colder

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): 0.71999999999999997
Type of DNA: cDNA
Gene product: [DapB]

Vector Information

Construct size (kb): 3.599999904632568

Growth Conditions

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

Handling Procedures

The phagemid construct within the *E. coli* DH5a host can be grown in LB + amp (50 mg/mL) at 37°C and then isolated using standard plasmid preparation procedures (2).

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pGIKS Dap5 (ATCC 87827)

References

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

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