



pGIKS-BioD

87489TM

Product Sheet

Description

Organism: *Escherichia coli* (Migula) Castellani and Chalmers

Clone type: Clone

Host: *Escherichia coli* DH5

Storage Conditions

Product format: Freeze-dried

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



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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): 0.66000000000000000003

Type of DNA: genomic

Insert information:

DESCRIPTION OF INSERT COMPONENT:

Insert 5' end: Xhol Modification: KpnI linker

Insert 3' end: SmaI Modification: SacI linker

Cross references: DNA Seq. Acc.: J04423

Nucleotides 1-651 of the insert correspond to nucleotides 4947-5597 of J04423.

Insert end (5'): KpnI linker

Insert end (3'): SacI linker

Genome: Escherichia coli

Gene name: dethiobiotin synthetase

Gene product: dethiobiotin synthetase [bioD]

Gene symbol: bioD

Contains complete coding sequence: No

Vector Information

Construct size (kb): 3.56

Intact vector size: 2.961

Vector name: pBluescript II KS+

Type of vector: phagemid

Host range: *Escherichia coli*

Vector end: KpnI; SacI

Vector information:

Excise insert: Xhol+SmaI

Cloning sites: BssHII; KpnI; Apal; Drall; Xhol; HinclI; AccI; Sall; Clal; HindIII; EcoRI; PstI; SmaI; BamHI; XbaI; NotI; EagI; SacI

Insert detection: lacZ'

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Markers: ampR

Polylinker sites: BssHII; KpnI; Apal; Dral; Xhol; Hincll; AccI; SalI; ClaI; HindIII; EcoRI; PstI; SmaI; BamHI; XbaI; NotI; EagI; SacI

Replicon: pMB1; f1

Growth Conditions

Medium:

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

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): SmaI--3.6; SmaI/XbaI--3.0, 0.6; XbaI--3.6.

- ATCC staff

The insert contains the following restriction sites (approximate kb from the 5' end): PstI--0.18; PvuII--0.18; RsaI--0.64.

- GenBank/EMBL/DDBJ

Recommend linearizing the plasmid with the following restriction enzymes for in vitro transcription: T3 = SmaI; T7 = XbaI.

- personal communication

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pGIKS-BioD (ATCC 87489)



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References

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

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