



pBend3 plasmid in *E. coli*

87121™

Product Sheet

Description

One of three vectors (ATCC 87121-87123) designed for studying the amount of bending induced at a DNA binding site due to DNA-protein interactions. The three vectors differ only in the available cloning sites. This vector was constructed by insertion of the pBend2 polylinker into pBluescript SK- at the EcoRI-HindIII sites, followed by destruction of the Bluescript XbaI and Sall sites. Target DNA binding sites can be cloned into the vector and an array of fragments can be generated (by restriction digestion with different enzymes) that are equal in length, but differ in the position of the DNA binding fragment. The reduced mobility of different protein-fragment complexes can then be analyzed by gel electrophoresis to determine the degree of bending induced by protein binding.

Clone type: Vector

Shipping information: *Escherichia coli* HB101 containing the plasmid

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.

Vector Information

Construct size (kb): 3.19

Vector name: pBend3 (plasmid)

Type of vector: plasmid

Construction: pBluescriptSK-

Markers: ampR

MCS: HindIII...EcoRI

Promoters: T7 (phi10)

Replicon: pMB1

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 gave the following sizes (in kb): BglI 1.6, 1.3, 0.32, 0.24 ; EcoRI/HindIII 3.0, 0.29 ; XbaI 3.2.

ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pBend3 plasmid in E. coli (ATCC 87121)

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 2021-05-19

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