pBend3 plasmid in E. coli

87121™

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 pBluescipt SK- at the EcoRI-HindIII sites, followed by destruction of the Bluescript XbaI and SalI 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

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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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