pBluescript II KS(+)/LIC

87047™

Description

Ligation-independent cloning vector for cloning polymerase chain reaction (PCR) products. Preparation of the vector for cloning includes linearization with *Nar*I, gel purification of the linearized vector, and treatment with T4 DNA polymerase in the presence of dATP. Target sequences for cloning are prepared by PCR and do not require restriction enzyme digestion. Annealing the vector and amplification product forms a duplex molecule that can be used directly to transform bacteria without ligation. The forward primer should contain 12 nt complementary to nt 5? to the *Nar*I site of the vector [(5?à3?) (CTGGTTCCGGCG)] followed by 12-15 nt corresponding to the target sequence. The reverse primer should contain 12 nt complementary to nt 3? to the *Nar*I site of the vector [(5?à3?) (CTCGCTCCGGCG)] followed by 12-15 nt complementary to the 3? end of the target sequence. Both primers should contain a dAMP residue near the sequence complementary to the vector to terminate the exonucleolytic activity of the subsequent T4 DNA polymerase treatment. PCR products amplified with these primers are also compatible with the LIC vectors pGEM-7Zf(+)/LIC-F and pGEM-7Zf(+)/LIC-R . - Biotechniques 13: 515-518, 1992

Clone type: Vector

Shipping information: *Escherichia coli* containing the phagemid in glycerol stock

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): 3.0
Vector name: pBluescript II KS(+)/LIC (phagemid)
Construction: pBluescriptIIKS(+)
Insert detection: lacZ
Markers: ampR
MCS: KpnI...SacI
Promoters: T3; T7 (phi10)
Replicon: f1; pMB1

Growth Conditions

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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): BamHI 3.0; KpnI 3.0 ; XbaI 3.0. ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pBluescript II KS(+)/LIC (ATCC 87047)

References

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

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Revision

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