



pGEX-KN

77332™

Description

Expression vector for rapid purification of fusion proteins that contain no amino terminal extensions after thrombin cleavage. The amino acid after the initiator methionine must be charged. The glutathione S-transferase (GST) fusion protein can be purified by glutathione affinity chromatography, and the desired polypeptide released from the fusion product by thrombin.

Cloning into this vector requires amplification of the gene using oligonucleotides prepared as in the reference and encoding the first 4 amino acids of a thrombin recognition sequence.

Constructed from pGEX-1 by inserting an oligonucleotide at the BamHI site which encodes the glycine ?kinker? and a NotI site. The order of the major features in this plasmid is: pMB1 ori ? lacIV ? lacZ ? tac promoter ? GST ? glycine ?kinker? ? NotI/MCS/EcoRI ? ampR.

Clone type: Vector

Shipping information: *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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): 4.972000122070313

Vector name: pGEX-KN (plasmid)

Type of vector: plasmid

Construction: pGEX-1

Vector information:

other: thrombin cleavage site

epitope tag: GST

Markers: ampR

MCS: NotI BamHI SmaI EcoRI

Promoters: tac

Replicon: pMB1

Repressor gene: lacIq

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): NotI 5.0 ;
EcoRI/PstI 4.0, 1.0 ; BamHI/EcoRV 3.2, 1.8. ATCC
Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pGEX-KN (ATCC 77332)

References

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

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