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

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): 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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Revision

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