




Product Sheet

pGEX-KN (ATCC® 77332™)

Please read this FIRST



Storage Temp.
**Store unopened
freeze dried vial
at 4°C.**



Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: pGEX-KN (ATCC® 77332™)

Shipping Information

Freeze dried plasmid in *E. coli*

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

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.
Designation: pGEX-KN

Propagation

1. Open vial according to instructions. 2. Aseptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 μ L to a test tube containing 5 mL LB+ ampicillin (50-100 μ g/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37°C. 3. Isolate DNA using standard plasmid preparation procedures.

Growth Conditions

Temperature: 37.0°C

Medium

ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Vector Information

Size (kb): 4.9720001220703130

Vector: pGEX-KN (plasmid)

Promoters: Promoter tac

Construction: pGEX-1

Marker(s): ampR

Construct size (kb): 4.972000122070313

Features: marker(s): ampR

other: thrombin cleavage site

promoter: tac

replicon: pMB1

repressor gene: lacIq

MCS: NotI BamHI SmaI EcoRI

epitope tag: GST

References

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

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty


The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC




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recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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