ATCC

Product Sheet

pGEX-KG (ATCC® 77103™)

Please read this FIRST

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-KG (ATCC® 77103™)

Shipping Information

Distributed: freeze-dried

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

Designation: pGEX-KG
Distribution Host:
Distribution host: *Escherichia coli* HB101 (ATCC 33694)

Propagation

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

Growth Conditions
Temperature: 37.0°C

Vector Information

Size (kb): 5.0000000000000000
DESCRIPTION OF VECTOR:
Intact vector size: 5.000
Type of vector: plasmid
Cloning sites: BamHI SmaI EcoRI XbaI NcoI SalI XhoI SacI HindIII
Polylinker sites: EcoRI XbaI NcoI SalI XhoI SacI HindIII
Construction: pGEX-2T
Host range: Escherichia coli
Features (with orientation and position when available):
marker(s): ampR
promoter: tac
replicon: pMB1
repressor gene: lacIq
Vector: pGEX-KG (plasmid)
Promoters: Promoter tac
Construction: pGEX-2T
Marker(s):ampR
Construct size (kb): 5.0
Features: marker(s): ampR
promoter: tac
replicon: pMB1
repressor gene: lacIq

References

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

Notes

Restriction digests of the clone give the following sizes (kb): HindIII--5.0; BamHI--5.0; EcoRI--5.0; XbaI--5.0. Expression vector permitting production of a fusion protein.
- ATCC staff

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.
- Anal. Biochem. 192: 262-267, 1991

Constructed from pGEX-2T by inserting an oligonucleotide at the EcoRI site which encodes the glycine "kinker" and additional restriction sites to facilitate cloning in all reading frames.
- Anal. Biochem. 192: 262-267, 1991

The order of the major features in this plasmid are: Ptac - GST - thrombin cleavage site - BamHI site - SmaI site - glycine "kinker" - multiple cloning site - ampR - pBR322 ori - lacIq.
- Anal. Biochem. 192: 262-267, 1991

Product Sheet

pGEX-KG (ATCC® 77103™)

Please read this FIRST

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-KG (ATCC® 77103™)

Shipping Information

Distributed: freeze-dried

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 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.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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.

© ATCC 2013. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [02/22]

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