



Product Sheet

## pGEX-KG (ATCC® 77103™)

Please read this FIRST



### 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](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

**Designation:** pGEX-KG

**Distribution Host:**

Distribution host: *Escherichia coli* HB101 (ATCC 33694)

### Propagation

**Growth Conditions**

**Temperature:** 37.0°C

**Medium**

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

### 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](http://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.

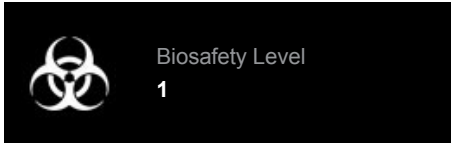
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### Biosafety Level: 1

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

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### Disclaimers

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

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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