



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

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.

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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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