



# pGEX-KT

77331™

## Description

Expression vector for rapid purification of fusion proteins and release of proteins with fewer extraneous N-terminal amino acids. 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. The resulting protein contains two additional amino acids at the amino terminus (Gly-Ser). Constructed from pGEX-1 by inserting an oligonucleotide at the BamHI site which encodes the glycine ?kinker? and thrombin recognition site to enhance cleavage of the fusion protein. The order of the major features in the plasmid is: pMB1 ori ? lacIq ? lacZ ? tac promoter ? GST ? glycine ?kinker? ? thrombin cleavage site ? BamHI/MCS/EcoRI ? ampR.

**Clone type:** Vector

**Shipping information:** *Escherichia coli* containing the plasmid

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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## 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.

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## BSL 1

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Vector Information

**Construct size (kb):** 4.984000205993652

**Vector name:** pGEX-KT (plasmid)

**Type of vector:** plasmid

**Construction:** pGEX-1

**Vector information:**

other: thrombin cleavage site

epitope tag: GST

**Markers:** ampR

**MCS:** BamHI SmaI EcoRI

**Promoters:** tac

**Replicon:** pMB1

**Repressor gene:** lacIq

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## Growth Conditions

**Medium:**

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

**Temperature:** 37°C

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## Notes

Restriction digests of the clone gave the following sizes (in kb): BamHI 5.0 ;  
EcoRI/PstI 4.0, 1.0 ; EcoRI/EcoRV 3.2, 1.8. ATCC Staff

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pGEX-KT (ATCC 77331)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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