pGEX-KG

77103™

Description

Clone type: Vector
Host: *Escherichia coli* HB101 (ATCC 33694)

Storage Conditions

Product format: Frozen

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.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Vector Information

Construct size (kb): 5.0
Intact vector size: 5.000
Vector name: pGEX-KG (plasmid)
Type of vector: plasmid
Construction: pGEX-2T
Host range: *Escherichia coli*
Cloning sites: BamHI; SmaI; EcoRI; XbaI; NcoI; SalI; XhoI; SacI; HindIII
Markers: strR; kanR; ampR
Polylinker sites: EcoRI; XbaI; NcoI; SalI; XhoI; SacI; HindIII
Promoters: tac
Replicon: pMB1
Repressor gene: lacIq

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pGEX-KG (ATCC 77103)

References

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

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Revision

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