



pASK84

87094™

Description

This is an immunoglobulin expression vector allowing cloning of variable region domains and efficient purification of Fab fragments via immobilized metal affinity chromatography. It contains the mouse immunoglobulin heavy chain region, part of the hinge region and the mouse immunoglobulin kappa constant region. The heavy chain and light chain variable regions may be cloned into the PstI-EcoRI-BstEII and SstI-Pml-XhoI multiple cloning sites respectively. The other unique restriction sites (XbaI NcoI HindIII) may be used for subcloning or exchange of immunoglobulin constant regions. Grow at 22⁰ C for expression.

Organism: *Mus musculus*, mouse

Clone type: Vector

Shipping information: *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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.

Insert Information

Insert size (kb): 0.31

Type of DNA: genomic

Gene product: immunoglobulin gamma 1 (Gm marker)(immunoglobulin heavy chain constant region, gamma 1) [IgkC]

Vector Information

Construct size (kb): 4.586999893188477

Vector name: pASK84 (plasmid)

Type of vector: plasmid

Construction: pASK30, pASK37-IgG1

Vector information:

leader peptide: phoA

signal peptide coding region: ompA

epitope tag: hexahistidine sequence (6-His)

Coding sequence: Ig gamma 1 constant region; Ig kappa constant region

Markers: ampR

Promoters: Expression: lacUV5

Replicon: f1; pMB1

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Repressor gene: lacI**Restriction sites:** HindIII; NcoI; XbaI**Terminator:** lpp

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 gave the following sizes (in kb): NcoI/XbaI 4.0, 0.5 ; HindIII/NcoI 4.0, 0.5 ; EcoRI 4.6. ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pASK84 (ATCC 87094)

References

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

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