p3PK

77314™

Description

Organism: *Gallus gallus*, chicken
Clone type: Vector
Host: *Escherichia coli* DH5alpha

Storage Conditions

Product format: Freeze-dried

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): 1.3999999999999999
Type of DNA: unknown
Genome: chicken
Target gene: pyruvate kinase, muscle
Gene name: pyruvate kinase, muscle
Gene product: pyruvate kinase, muscle [PKM2]
Gene symbol: PKM2
Contains complete coding sequence: Unknown

Vector Information

Construct size (kb): 4.900000095367432
Intact vector size: 3.500
Vector name: pJ3omega
Type of vector: plasmid
Construction: pBR322, SV40; pJ3omega, PKM2
Host range: mammalian cells
Vector information:
other: SV40 t IVS, ->
Cloning sites: HindIII; PvuI; SalI; XbaI; BamHI; SmaI; SstI; EcoRI; ClaI; KpnI; BglII
Markers: ampR
MCS: HindIII...BglII, ->
Polylinker sites: HindIII; PvuI; SalI; XbaI; BamHI; SmaI; SstI; EcoRI; ClaI; KpnI; BglII
Promoters: SV40 early
Replicon: pMB1; SV40
Terminator: SV40, ->

Growth Conditions

Medium:
ATCC Medium 1946: Terrific broth (ATCC medium 1743) with 100 mcg/ml ampicillin
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--4.9; BglII--4.9; XbaI--4.9; BamHI--4.9; EcoRI/HindIII--3.4, 1.5; EcoRI/BglII--3.4, 1.5.
- ATCC staff

A shuttle expression vector permitting rapid cloning of putative intracellular targeting sequences as N-terminal, C-terminal, and/or internal fusions with the normally cytosolic chicken muscle pyruvate kinase (PKM2). Permits one step subcloning into any of the pJ(X)omega mammalian expression vectors (ATCC 37719-37724) for versatile promoter control, and into the pGE(X) bacterial fusion protein purification system. The PKM2 sequence encodes amino acids 17-476. The order of the major features in the plasmid is: pMB1 ori - SV40 ori - SV40 early promoter - HindIII - Kozak/ translation start sequence - BglII - PKM2 sequences - translation stop - BamHI - XbaI - EcoRI - ClaI - SV40 polyadenylation - ampR. The PKM2 coding region contains a unique SalI site. The BamHI site consists of 2 engineered codons added to the end of the PKM2 sequence and immediately followed by an in-frame TGA stop codon. The other 3' sites are outside the reading frame.
- personal communication

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: p3PK (ATCC 77314)

References

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

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