

Datasheet for ABIN4925442

Human PKM ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	PKM
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human PKM with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1374 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGTCGAAGC CCCATAGTGA AGCCGGGACT GCCTTCATTC AGACCCAGCA GCTGCACGCA GCCATGGCTG ACACATTCTT GGAGCACATG TGCCGCCTGG ACATTGATTC ACCACCCATC ACAGCCCGGA AACTGGCAT CATCTGTACC ATTGGCCCAG CTTCCCGATC AGTGGAGCTG AAGAAGGGAG CCACTCTCAA AATCACGCTG GATAACGCCT ACATGGAAAA GTGTGACGAG AACATCCTGT GGCTGGACTA CAAGAACATC TGCAAGGTGG TGGAAGTGGG CAGCAAGATC

Order at www.genomics-online.com

USA & Canada: +1 877 302 8632 | support@antibodies-online.com

Product Details

TACGTGGATG ATGGGCTTAT TTCTCTCCAG GTGAAGCAGA AAGGTGCCGA CTTCTGGTG
ACGGAGGTGG AAAATGGTGG CTCCTTGGGC AGCAAGAAGG GTGTGAACCT TCCTGGGGCT
GCTGTGGACT TGCCTGCTGT GTCGGAGAAG GACATCCAGG ATCTGAAGTT TGGGGTCGAG
CAGGATGTTG ATATGGTGTG TGCGTCATTC ATCCGCAAGG CATCTGATGT CCATGAAGTT
AGGAAGGTCC TGGGAGAGAA GGGAAAGAAC ATCAAGATTA TCAGCAAAAT CGAGAATCAT
GAGGGGGTTC GGAGGTTTGA TGAAATCCTG GAGGCCAGTG ATGGGATCAT GGTGGCTCGT
GGTGATCTAG GCATTGAGAT TCCTGCAGAG AAGGTCTTCC TTGCTCAGAA GATGATGATT
GGACGGTGCA ACCGAGCTGG GAAGCCTGTC ATCTGTGCTA CTCAGATGCT GGAGAGCATG
ATCAAGAAGC CCCGCCCCAC TCGGGCTGAA GGCAGTGATG TGGCCAATGC AGTCCTGGAT
GGAGCCGACT GCATCATGCT GTCTGGAGAA ACAGCCAAAG GGGACTATCC TCTGGAGGCT
GTGCGCATGC AGCACCTGAT TGCCCGTGAG GCAGAGGCTG CCATCTACCA CTTGCAATTA
TTTGAGGAAC TCCGCCGCCT GCGGCCATT ACCAGCGACC CCACAGAAGC CACCGCCGTG
GGTGCCGTGG AGGCCTCCTT CAAGTGCTGC AGTGGGGCCA TAATCGTCCT CACCAAGTCT
GGCAGGTCTG CTCACCAGGT GGCCAGATAC CGCCACGTG CCCCCATCAT TGCTGTGACC
CGGAATCCCC AGACAGCTCG TCAGGCCAC CTGTACCGTG GCATCTTCCC TGTGCTGTGC
AAGGACCCAG TCCAGGAGGC CTGGGCTGAG GACGTGGACC TCCGGGTGAA CTTTGCCATG
AATGTTGGCA AGGCCGAGG CTTCTTCAAG AAGGGAGATG TGGTCATTGT GCTGACCGGA
TGGCGCCCTG GCTCCGGCTT CACCAACACC ATGCGTGTTG TTCCTGTGCC GTGA

Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

Sequencing Primer:

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

Grade: End-sequenced

Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene: PKM

Alternative Name: PKM ([PKM Products](#))

Background: This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating

Order at www.genomics-online.com

USA & Canada: +1 877 302 8632 | support@antibodies-online.com

Page 2/3 | Product datasheet for ABIN4925442 | 09/13/2023 | Copyright antibodies-online. All rights reserved.

Target Details

ATP and pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Several alternatively spliced transcript variants encoding a few distinct isoforms have been reported. [provided by RefSeq, May 2011].

Gene ID: 5315

NCBI Accession: [NM_001206797](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)