

Datasheet for ABIN4925441

## 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:	1818 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGCAGTGGA GCTCAGAGAG AGGAGAACGG CTCCTCACGC CTGGGGCCTG CTCTTCAGAA GTCCCCAGCG CCGTTCCTTC CAGATCAGGC GGCTCTCCAG GGCACACCGT ATTCAGCTCT GAGCGGTCTT TGCTAGTGAG GCCAAGGAGC CACCCTGAGC CAAAAGGGGA GCATTATGTC ACCGGAAGCC CAACCCCAGA GAACCAAAGG ACCTCAGCAG CCATGTGCGAA GCCCCATAGT GAAGCCGGGA CTGCCTTCAT TCAGACCCAG CAGCTGCACG CAGCCATGGC TGACACATTC

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CTGGAGCACA TGTGCCGCTT GGACATTGAT TCACCACCCA TCACAGCCCG GAACACTGGC  
ATCATCTGTA CCATTGGCCC AGCTTCCCGA TCAGTGGAGA CGTTGAAGGA GATGATTAAG  
TCTGGAATGA ATGTGGCTCG TCTGAACTTC TCTCATGGAA CTCATGAGTA CCATGCGGAG  
ACCATCAAGA ATGTGCGCAC AGCCACGGAA AGCTTTGCTT CTGACCCCAT CCTCTACCGG  
CCCGTTGCTG TGGCTCTAGA CACTAAAGGA CCTGAGATCC GAACTGGGCT CATCAAGGGC  
AGCGGCACTG CAGAGGTGGA GCTGAAGAAG GGAGCCACTC TCAAAATCAC GCTGGATAAC  
GCCTACATGG AAAAGTGTGA CGAGAACATC CTGTGGCTGG ACTACAAGAA CATCTGCAAG  
GTGGTGAAG TGGGCAGCAA GATCTACGTG GATGATGGGC TTATTTCTCT CCAGGTGAAG  
CAGAAAGGTG CCGACTTCCT GGTGACGGAG GTGGAAAATG GTGGCTCCTT GGGCAGCAAG  
AAGGGTGTGA ACCTTCCTGG GGCTGCTGTG GACTTGCTCG CTGTGTGCGA GAAGGACATC  
CAGGATCTGA AGTTTGGGGT CGAGCAGGAT GTTGATATGG TGTTTGCCTC ATTCATCCGC  
AAGGCATCTG ATGTCCATGA AGTTAGGAAG GTCCTGGGAG AGAAGGGAAA GAACATCAAG  
ATTATCAGCA AAATCGAGAA TCATGAGGGG GTTCGGAGGT TTGATGAAAT CCTGGAGGCC  
AGTGATGGGA TCATGGTGGC TCGTGGTGAT CTAGGCATTG AGATTCCTGC AGAGAAGGTC  
TTCCTTGCTC AGAAGATGAT GATTGGACGG TGCAACCGAG CTGGGAAGCC TGTCATCTGT  
GCTACTCAGA TGCTGGAGAG CATGATCAAG AAGCCCCGCC CCACTCGGGC TGAAGGCAGT  
GATGTGGCCA ATGCAGTCCT GGATGGAGCC GACTGCATCA TGCTGTCTGG AGAAACAGCC  
AAAGGGGACT ATCCTCTGGA GGCTGTGCGC ATGCAGCACC TGATAGCTCG TGAGGCTGAG  
GCAGCCATGT TCCACCGCAA GCTGTTTGAA GAACTTGTGC GAGCCTCAAG TCACTCCACA  
GACCTCATGG AAGCCATGGC CATGGGCAGC GTGGAGGCTT CTTATAAGTG TTTAGCAGCA  
GCTTTGATAG TTCTGACGGA GTCTGGCAGG TCTGCTCACC AGGTGGCCAG ATACCGCCCA  
CGTGCCCCCA TCATTGCTGT GACCCGGAAT CCCCAGACAG CTCGTGAGGC CCACCTGTAC  
CGTGGCATCT TCCCTGTGCT GTGCAAGGAC CCACTCCAGG AGGCCTGGGC TGAGGACGTG  
GACCTCCGGG TGAACCTTGC CATGAATGTT GGCAAGGCC GAGGCTTCTT CAAGAAGGGA  
GATGTGGTCA TTGTGCTGAC CGGATGGCGC CCTGGCTCCG GCTTACCAA CACCATGCGT  
GTTGTTCTG TGCCGTGA

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

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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.

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Sequencing Primer: 

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

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Grade: End-sequenced

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## Product Details

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

## Target Details

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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 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\\_001206796](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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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

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