

Datasheet for ABIN4925443

## 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:	1551 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGTCACCGG AAGCCCAACC CCAGAGAACC AAAGGACCTC AGCAGCCATG TCGAAGCCCC ATAGTGAAGC CGGGACTGCC TTCATTCAGA CCCAGCAGCT GCACGCAGCC ATGGCTGACA CATTCTGGA GCACATGTGC CGCCTGGACA TTGATTCACC ACCCATCACA GCCCGGAACA CTGGCATCAT CTGTACCATT GTACCATGCG GAGACCATCA AGAATGTGCG CACAGCCACG GAAAGCTTTG CTTCTGACCC CATCCTCTAC CGGCCCGTTG CTGTGGCTCT AGACACTAAA

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## Product Details

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GGACCTGAGA TCCGAAGTGG GCTCATCAAG GGCAGCGGCA CTGCAGAGGT GGAGCTGAAG  
AAGGGAGCCA CTCTCAAAT CACGCTGGAT AACGCCTACA TGGAAAAGTG TGACGAGAAC  
ATCCTGTGGC TGGACTACAA GAACATCTGC AAGGTGGTGG AAGTGGGCAG CAAGATCTAC  
GTGGATGATG GGCTTATTC TCTCCAGGTG AAGCAGAAAG GTGCCGACTT CCTGGTGACC  
GAGGTGGAAA ATGGTGGCTC CTTGGGCAGC AAGAAGGGTG TGAACCTTCC TGGGGCTGCT  
GTGGACTTGC CTGCTGTGTC GGAGAAGGAC ATCCAGGATC TGAAGTTTGG GGTCGAGCAG  
GATGTTGATA TGGTGTTCGTC GTCATTCATC CGCAAGGCAT CTGATGTCCA TGAAGTTAGG  
AAGGTCCTGG GAGAGAAGGG AAAGAACATC AAGATTATCA GCAAATCGA GAATCATGAG  
GGGGTTCGGA GGTTTGTATGA AATCCTGGAG GCCAGTGATG GGATCATGGT GGCTCGTGGT  
GATCTAGGCA TTGAGATTCC TGCAGAGAAG GTCTTCCTTG CTCAGAAGAT GATGATTGGA  
CGGTGCAACC GAGCTGGGAA GCCTGTCATC TGTGCTACTC AGATGCTGGA GAGCATGATC  
AAGAAGCCCC GCCCACTCG GGCTGAAGGC AGTGATGTGG CCAATGCAGT CCTGGATGGA  
GCCGACTGCA TCATGCTGTC TGGAGAAACA GCCAAAGGGG ACTATCCTCT GGAGGCTGTG  
CGCATGCAGC ACCTGATTGC CCGTGAGGCA GAGGCTGCCA TCTACCACTT GCAATTATTT  
GAGGAACTCC GCCGCCTGGC GCCCATTACC AGCGACCCCA CAGAAGCCAC CGCCGTGGGT  
GCCGTGGAGG CCTCCTTCAA GTGCTGCACT GGGGCCATAA TCGTCCTCAC CAAGTCTGGC  
AGGTCTGCTC ACCAGGTGGC CAGATACCGC CCACGTGCCC CCATCATTGC TGTGACCCGG  
AATCCCCAGA CAGCTCGTCA GGCCACCTG TACCGTGGCA TCTTCCCTGT GCTGTGCAAG  
GACCCAGTCC AGGAGGCCTG GGCTGAGGAC GTGGACCTCC GGGTGAAGTCC TGCCATGAAT  
GTTGGCAAGG CCCGAGGCTT CTTCAAGAAG GGAGATGTGG TCATTGTGCT GACCGGATGG  
CGCCCTGGCT CCGGCTTCAC CAACACCATG CGTGTTGTTC CTGTGCCGTG A

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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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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

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## Target Details

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

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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].

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Gene ID: 5315

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NCBI Accession: [NM\\_001206798](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Storage: RT/-20 °C

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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.

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Expiry Date: 12 months

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## Publications

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