

Datasheet for ABIN4918584

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:	1596 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 AGTGGAGACG TTGAAGGAGA TGATTAAGTC TGAATGAAT GTGGCTCGTC TGAAGTTCTC TCATGGAAGT CATGAGTACC ATGCGGAGAC CATCAAGAAT GTGCGCACAG CCACGGAAAG CTTTGCTTCT

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Product Details

GACCCCATCC TCTACCGGCC CGTTGCTGTG GCTCTAGACA CTAAAGGACC TGAGATCCGA
ACTGGGCTCA TCAAGGGCAG CGGCACTGCA GAGGTGGAGC TGAAGAAGGG AGCCACTCTC
AAAATCACGC TGGATAACGC CTACATGGAA AAGTGTGACG AGAACATCCT GTGGCTGGAC
TACAAGAACA TCTGCAAGGT GGTGGAAGTG GGCAGCAAGA TCTACGTGGA TGATGGGCTT
ATTTCTCTCC AGGTGAAGCA GAAAGGTGCC GACTTCCTGG TGACGGAGGT GGAAAATGGT
GGCTCCTTGG GCAGCAAGAA GGGTGTGAAC CTTCTGGGG CTGCTGTGGA CTTGCCTGCT
GTGTCGGAGA AGGACATCCA GGATCTGAAG TTTGGGGTCG AGCAGGATGT TGATATGGT
TTTGCATCAT TCATCCGCAA GGCATCTGAT GTCCATGAAG TTAGGAAGGT CCTGGGAGAG
AAGGGAAAAGA ACATCAAGAT TATCAGCAAA ATCGAGAATC ATGAGGGGGT TCGGAGGTTT
GATGAAATCC TGGAGGCCAG TGATGGGATC ATGGTGGCTC GTGGTGTATCT AGGCATTGAG
ATTCCTGCAG AGAAGGTCTT CTTGCTCAG AAGATGATGA TTGGACGGTG CAACCGAGCT
GGGAAGCCTG TCATCTGTGC TACTCAGATG CTGGAGAGCA TGATCAAGAA GCCCCGCCCC
ACTCGGGCTG AAGGCAGTGA TGTGGCCAAT GCAGTCCTGG ATGGAGCCGA CTGCATCATG
CTGTCTGGAG AACAGCCAA AGGGGACTAT CCTCTGGAGG CTGTGCGCAT GCAGCACCTG
ATAGCTCGTG AGGCTGAGGC AGCCATGTTT CACCGCAAGC TGTTTGAAGA ACTTGTGCGA
GCCTCAAGTC ACTCCACAGA CCTCATGGAA GCCATGGCCA TGGGCAGCGT GGAGGCTTCT
TATAAGTGTT TAGCAGCAGC TTTGATAGTT CTGACGGAGT CTGGCAGGTC TGCTCACCAG
GTGGCCAGAT ACCGCCACG TGCCCCATC ATTGCTGTGA CCCGGAATCC CCAGACAGCT
CGTCAGGCCC ACCTGTACCG TGGCATCTC CCTGTGCTGT GCAAGGACCC AGTCCAGGAG
GCCTGGGCTG AGGACGTGGA CCTCCGGGTG AACTTTGCCA TGAATGTTGG CAAGGCCCGA
GGCTTCTTCA AGAAGGGAGA TGTGGTCATT GTGCTGACCG GATGGCGCCC TGGCTCCGGC
TTCACCAACA CCATGCGTGT TGTTCTGTG CCGTGA

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:	<ul style="list-style-type: none">• 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.

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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 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_182470](#)

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)