

Product datasheet for **SC331684**

PKM2 (PKM) (NM_001206797) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PKM2 (PKM) (NM_001206797) Human Untagged Clone
Tag: Tag Free
Symbol: PKM2
Synonyms: CTHBP; HEL-S-30; OIP3; p58; PK3; PKM2; TCB; THBP1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331684 representing NM_001206797.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTCAGACCCAGCAGCTGCACGCAGCCATGGCT
GACACATTCCTGGAGCACATGTGCCGCTGGACATTGATTCACCACCCATCACAGCCCGAACACTGGC
ATCATCTGTACCATTGGCCAGCTTCCCGATCAGTGGAGCTGAAGAAGGGAGCCACTCTCAAATCAGC
CTGGATAACGCCTACATGAAAAGTGTGACGAGAACATCCTGTGGCTGGACTACAAGAACATCTGCAAG
GTGGTGAAGTGGGCAGCAAGATCTACGTGGATGATGGGCTTATTTCTCTCCAGGTGAAGCAGAAAGGT
GCCGACTTCTGGTGACGGAGGTGAAAATGGTGGCTCCTTGGGCAGCAAGAAGGTGTGAACCTTCTT
GGGCTGTCTGGACTTGCCTGTGTGTCGGAGAAGGACATCCAGGATCTGAAGTTTGGGGTCGAGCAG
GATGTTGATATGGTGTTCGTCATTCACCGAAGGCATCTGATGTCCATGAAGTTAGGAAGGTCTCG
GGAGAGAAGGGAAAGAACATCAAGATTATCAGCAAAATCGAGAATCATGAGGGGGTTTCGGAGGTTTGT
GAAATCCTGGAGGCCAGTGATGGGATCATGGTGGCTCGTGGTGTCTAGGCATTGAGATTCTGCAGAG
AAGGTCTTCTTGCTCAGAAGATGATGATTGGACGGTGAACCGAGCTGGGAAGCCTGTCATCTGTGCT
ACTCAGATGCTGGAGAGCATGATCAAGAAGCCCCGCCCACTCGGGCTGAAGGCAGTGATGTGCCAAT
GCAGTCTGGATGGAGCCGACTGCATCATGCTGTCTGGAGAAACAGCCAAAGGGGACTATCCTCTGGAG
GCTGTGCCATGCAGCACCTGATTGCCCGTGAGGCAGAGGCTGCCATCTACCACTTGAATTTATTTGAG
GAACTCCGCCGCTGGCGCCATTACCAGCGACCCACAGAAGCCACCGCGTGGGTGCCGTGGAGGCC
TCTTCAAGTGCTGCAAGTGGGGCCATAATCGTCTCACCAGTCTGGCAGGCTGCTCACCAGGTGGCC
AGATACCGCCACGTGCCCCATCATTGCTGTGACCCGGAATCCCAGACAGCTCGTCAGGCCACCTG
TACCGTGGCATCTTCCCTGTGCTGTGCAAGGACCCAGTCCAGGAGGCTGGGCTGAGGACGTGGACCTC
CGGGTGAACCTTGGCATGAATGTTGGCAAGGCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTC
CTGACCGGATGGCGCCCTGGCTCCGGCTTACCAACACCATGCGTGTTCCTGTGCCGTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001206797
Insert Size: 1374 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001206797.1
RefSeq Size:	2294 bp
RefSeq ORF:	1374 bp
Locus ID:	5315
UniProt ID:	P14618
Cytogenetics:	15q23
Protein Families:	Druggable Genome
Protein Pathways:	Glycolysis / Gluconeogenesis, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus
MW:	49.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and coding sequence, lacks an alternate in-frame segment, and has an alternate in-frame coding exon compared to variant 4. The resulting isoform (d) is shorter at the N-terminus, lacks an alternate internal segment, and has a different internal segment compared to isoform c.</p>