

## Product datasheet for **SC313887**

### **PKM2 (PKM) (NM\_182470) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PKM2 (PKM) (NM_182470) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKM2
Synonyms:	CTHBP; HEL-S-30; OIP3; p58; PK3; PKM2; TCB; THBP1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC313887 sequence for NM\_182470 edited (data generated by NextGen Sequencing)

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ATGTCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTCAGACCCAGCAGCTGCACGCA
GCCATGGCTGACACATTCCTGGAGCACATGTGCCGCTGGACATTGATTCACCACCCATC
ACAGCCCAGAACACTGGCATCATCTGTACCATTGGCCAGCTCCCGATCAGTGGAGACG
TTGAAGGAGATGATTAAGTCTGGAATGAATGTGGCTCGTCTGAACTTCTCTCATGGAACT
CATGAGTACCATGCGGAGACCATCAAGAATGTGCGCACAGCCACGGAAAGCTTTGCTTCT
GACCCCATCCTCTACCGGCCGTTGCTGTGGCTCTAGACACTAAAGGACCTGAGATCCGA
ACTGGGCTCATCAAGGGCAGCGGCACTGCAGAGGTGGAGCTGAAGAAGGGAGCCACTCTC
AAAATCACGCTGGATAACGCCTACATGGAAAAGTGTGACGAGAACATCCTGTGGCTGGAC
TACAAGAACATCTGCAAGGTGGTGAAGTGGCAGCAAGATCTACGTGGATGATGGGCTT
ATTTCTCTCCAGGTGAAGCAGAAAGGTGCCGACTTCTGGTGACGGAGGTGGAAAATGGT
GGCTCCTTGGGCAGCAAGAAGGGTGTGAACCTTCTGGGGCTGCTGTGGACTTGCCTGCT
GTGTCGGAGAAGGACATCCAGGATCTGAAGTTTGGGGTCGAGCAGGATGTTGATATGGTG
TTTGCGTCATTCATCCGCAAGGCATCTGATGTCCATGAAGTTAGGAAGGTCTGGGAGAG
AAGGGAAAGAACATCAAGATTATCAGCAAAATCGAGAATCATGAGGGGTTTCGGAGGTTT
GATGAAATCCTGGAGGCCAGTGATGGGATCATGGTGGCTCGTGGTGATCTAGGCATTGAG
ATTCCTGCAGAGAAGGTCTTCTTGCTCAGAAGATGATGATTGGACGGTGAACCCAGCT
GGGAAGCCTGTACTCTGTGCTACTCAGATGCTGGAGAGCATGATCAAGAAGCCCCGCCCC
ACTCGGCTGAAGGCAGTGATGTGGCCAATGCAGTCTGGATGGAGCCGACTGCATCATG
CTGTCTGGAGAAACAGCCAAAGGGGACTATCCTCTGGAGGCTGTGCGCATGCAGCACCTG
ATAGCTCGTGAGGCTGAGGCAGCCATGTTCCACCGCAAGCTGTTTGAAGAACTTGTGCGA
GCCTCAAGTCACTCCACAGACCTCATGGAAGCCATGGCCATGGGCAGCGTGGAGGCTTCT
TATAAGTGTTTAGCAGCAGCTTTGATAGTTCTGACGGAGTCTGGCAGGTCTGCTCACCAG
GTGGCCAGATACCGCCCGTGCCTCCATCATTGCTGTGACCCGGAATCCCAGACAGCT
CGTCAGGCCACCTGTACCGTGGCATCTTCCCTGTGCTGTGCAAGGACCCAGTCCAGGAG
GCCTGGGCTGAGGACGTGGACCTCCGGTGAACCTTGGCCATGAATGTTGGCAAGGCCCGA
GGCTTCTCAAGAAGGGAGATGTGGTATTGTGCTGACCGGATGGCGCCCTGGCTCCGGC
TTCACCAACACCATGCGTGTTCCTGTGCCGTGA

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Clone variation with respect to NM\_182470.2

- Restriction Sites:** Please inquire
- ACCN:** NM\_182470
- Insert Size:** 2300 bp
- 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).
- OTI Annotation:** The ORF is found to be a perfect match to NM\_182470.1.
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_182470.1</a> , <a href="#">NP_872270.1</a>
<b>RefSeq Size:</b>	2674 bp
<b>RefSeq ORF:</b>	1596 bp
<b>Locus ID:</b>	5315
<b>UniProt ID:</b>	<a href="#">P14618</a>
<b>Cytogenetics:</b>	15q23
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycolysis / Gluconeogenesis, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus
<b>Gene Summary:</b>	<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 (2) differs in the 5' UTR and coding sequence compared to variant 4. The resulting isoform (b, also called M1) is shorter at the N-terminus compared to isoform c.</p>