

## Product datasheet for **RC234328**

### **PKM2 (PKM) (NM\_001206798) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PKM2 (PKM) (NM_001206798) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKM2
Synonyms:	CTHBP; HEL-S-30; OIP3; p58; PK3; PKM2; TCB; THBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234328 representing NM\_001206798  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCACCGGAAGCCCAACCCAGAGAACCAAAGGACCTCAGCAGCCATGTCGAAGCCCCATAGTGAAGC  
 CGGACTGCCTTCATTCAGACCCAGCAGCTGCACGCAGCCATGGCTGACACATTCCTGGAGCACATGTGC  
 CGCCTGGACATTGATTCACCACCATCACAGCCCGGAACACTGGCATCATCTGTACCATTGTACCATGCG  
 GAGACCATCAAGAATGTGCGCACAGCCAGGAAAGCTTTGCTTCTGACCCCATCCTCTACCGGCCGTTG  
 CTGTGGCTCTAGACACTAAAGGACCTGAGATCCGAACTGGGCTCATCAAGGGCAGCGGCACTGCAGAGGT  
 GGAGCTGAAGAAGGGAGCCACTCTCAAAATCACGCTGGATAACGCCTACATGGAAAAGTGTGACGAGAAC  
 ATCCTGTGGCTGGACTACAAGAACATCTGCAAGGTGGTGAAGTGGCAGCAAGATCTACGTGGATGATG  
 GGCTTATTTCTCCAGGTGAAGCAGAAAGGTGCCGACTTCTGGTGACGGAGGTGGAAAATGGTGGCTC  
 CTTGGGCAGCAAGAAGGGTGTGAACCTTCTGGGGCTGCTGTGGACTTGCCTGCTGTGTCGGAGAAGGAC  
 ATCCAGGATCTGAAGTTGGGGTTCGAGCAGGATGTTGATATGGTGTGGTTCATCCGCAAGGCAT  
 CTGATGTCATGAAGTTAGGAAGTCTGGGAGAGAAGGAAAGAACATCAAGATTATCAGCAAAAATCGA  
 GAATCATGAGGGGTTCCGGAGTTTGTGAAATCCTGGAGGCCAGTGATGGGATCATGGTGGCTCGTGGT  
 GATCTAGGCATTGAGATTCCTGCAGAGAAGTCTTCTTGGCTCAGAAGATGATGATTGGACGGTGAACCC  
 GAGCTGGGAAGCCTGTACTCTGTGCTACTCAGATGCTGGAGAGCATGATCAAGAAGCCCCGCCCCACTCG  
 GGCTGAAGGCAGTGATGTGGCAATGCAGTCTGGATGGAGCCGACTGCATCATGCTGTCTGGAGAAACA  
 GCCAAGGGGACTATCCTCTGGAGGCTGTGCGCATGCAGCACCTGATTGCCGTGAGGCAGAGGCTGCCA  
 TCTACCATTGCAATTATTTGAGGAACCTCCGCCCTGGCGCCATTACCAGCAGCCACGAGAAGCCAC  
 CGCCGTGGGTGCCGTGGAGCCCTCTCAAGTGTGCAAGTGGGGCCATAATCGTCTCACCAAGTCTGGC  
 AGGTCTGCTCACCAGGTGGCCAGATACCGCCACGTGCCCCATCATTGCTGTGACCCGGAATCCCCAGA  
 CAGCTCGTCAGGCCACCTGTACCGTGGCATCTTCCCTGTGCTGTGCAAGGACCCAGTCCAGGAGCCTG  
 GGCTGAGGACGTGGACCTCCGGGTGAACTTGCCATGAATGTTGGCAAGGCCCGAGGCTTCTTCAAGAAG  
 GGAGATGTGGTATTGTGCTGACCGGATGGCGCCTGGCTCCGGCTTACCAACACCATGCGTGTGTTCC  
 CTGTGCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234328 representing NM\_001206798  
 Red=Cloning site Green=Tags(s)

MSPEAQPQRTKGPQQPCRSPIVKPLPSFRPSSCTQPWLTHSWSTCAAWTLIHHPSPQGLASSVPLYHA  
 ETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATLKITLDNAYMEKCDEN  
 ILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKADFLVTEVENGGSLGSKKGVNLPGAAVDLPVASEKD  
 IQDLKFGVEQDVMVFASFIRKASDVHEVRKVLGEKGNKIKIISKIENHEGVRRFDEILEASDGIMVARG  
 DLGIEIPAELVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVANAVLDGADCIMLSGET  
 AKGDYPLEAVRMQHLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEASFKCCSGAIIVLTKSG  
 RSAHQVARYRPRAPIIAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRVNFAMNVGKARGFFKK  
 GDVVIVLTDGWRPQSGFTNTMRVVPVP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001206798

**ORF Size:** 1548 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**
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\\_001206798.2](#)

**RefSeq Size:** 2541 bp

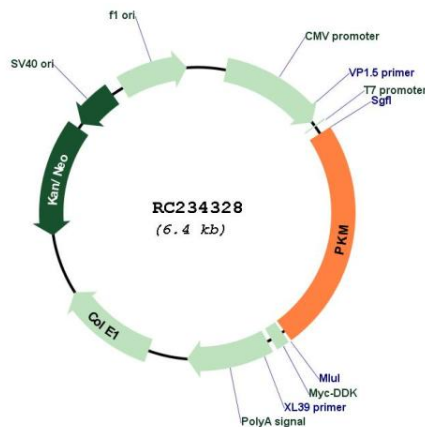
**RefSeq ORF:** 1551 bp

**Locus ID:** 5315

**UniProt ID:** [P14618](#)

<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>MW:</b>	56.7 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RC234328