

## Product datasheet for **RC234374**

### **PKM2 (PKM) (NM\_001206799) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PKM2 (PKM) (NM_001206799) 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:**

>RC234374 representing NM\_001206799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCTCAGCAGCCATGTCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTAGACCCAGCAGCTGC  
 ACGCAGCCATGGCTGACACATTCCTGGAGCACATGTGCCGCTGGACATTGATTACCACCCATCACAGC  
 CCGGAACACTGGCATCATCTGTACCATTGGCCAGCTTCCCGATCAGTGGAGACGTTGAAGGAGATGATT  
 AAGTCTGGAATGAATGTGGCTCGTCTGAACTTCTCTCATGGAACATGAGTACCATGCGGAGACCATCA  
 AGAATGTGCGCACAGCCACGAAAGCTTTGCTTCTGACCCATCTCTACCGGCCGTTGCTGTGGCTCT  
 AGACACTAAAGGACCTGAGATCCGAACTGGGCTCATCAAGGGCAGCGGCACTGCAGAGGTGGAGCTGAAG  
 AAGGGAGCCACTCTAAAATCACGCTGGATAACGCCTACATGGAAAAGTGTGACGAGAACATCTGTGGC  
 TGGACTACAAGAACATCTGCAAGGTGGTGAAGTGGGCAGCAAGATCTACGTGGATGATGGGCTTATTT  
 TCTCCAGGTGAAGCAGAAAGTGGCGACTTCTGGTGACGGAGGTGAAAATGGTGGCTCCTTGGGCAGC  
 AAGAAGGGTGTGAACCTTCTGGGGCTGCTGTGGACTTGCTGTGTGCGGAGAAGGACATCCAGGATC  
 TGAAGTTTGGGGTCGAGCAGGATGTTGATATGGTGTGGCTCATTTCATCCGCAAGGCATCTGATGTCCA  
 TGAAGTTAGGAAGGTCTGGGAGAGAAGGGAAAGAACAATCAAGATTATCAGCAAAATCGAGAATCATGAG  
 GGGGTTCCGAGGTTTGTGAAATCTGGAGGCCAGTGTGGGATCATGGTGGCTCGTGGTGTGATCTAGGCA  
 TTGAGATTCTGCAGAGAAGGCTTCTTCTGCTCAGAAGATGATGATTGGACGGTGAACCCGAGCTGGGAA  
 GCCTGTGATCTGTGCTACTCAGATGTGGAGAGCATGATCAAGAAGCCCCGCCCACTCGGGCTGAAGGC  
 AGTGTGTGGCCAATGCAGTCTGGATGGAGCCGACTGCATCATGCTGTCTGGAGAAACAGCCAAAGGGG  
 ACTATCTCTGGAGGCTGTGCGCATGCAGCACCTGATAGCTCGTGGAGGCTGAGGCAGCCATGTTCCACCG  
 CAAGCTGTTTGAAGAACTTGTGCGAGCCTCAAGTCACTCCACAGACCTCATGGAAGCCATGGCCATGGGC  
 AGCGTGGAGGCTTCTTATAAGTGTTTAGCAGCAGCTTTGATAGTTCTGACGGAGTCTGGCAGGTCTGCTC  
 ACCAGGTGGCCAGATACCGCCACGTGCCCCATCATTGCTGTGACCCGGAATCCCAGACAGCTCGTCA  
 GGCCACCTGTACCGTGGCATCTCCCTGTGCTGTGCAAGGACCCAGTCCAGGAGGCTGGGCTGAGGAC  
 GTGGACCTCCGGGTGAACCTTGGCCATGAATGTTGGCAAGGCCGAGGCTTCTTCAAGAAGGGAGATGTGG  
 TCATTGTGCTGACCGGATGGCGCCCTGGCTCCGGCTTACCAACACCATGCGTGTGTTCTGTGCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234374 representing NM\_001206799  
 Red=Cloning site Green=Tags(s)

MTSAAMSKPHSEAGTAFIQTLHAAMADTFLEHMCRLDIDSPPIARNTGIICITIGPASRSVETLKEMI  
 KSGMNVARLNFSGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELK  
 KGATLKITLDNAYMEKCDENILWLDYKNICKVVEVSGSKIYVDDGLISLQVKQKGFDFLVTEVENGSLGS  
 KKGVNLPAAVDLPAVSEKDIQDLKFGVEQDVMVFASFIRKASDVHEVRKVLGEKGNIKIISKIENHE  
 GVRRFDEILEASDGMVARGDLGIEIPAIEKVFQAQMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEG  
 SDVANAVLDGADCIMLSGETAKGDYPLEAVRMQHLIAREAEAAMFHRKLFEEVVRASSHSTDLMEAMAMG  
 SVEASYKLAALAILVTESGSAHQVARYRPRAPIIAVTRNPQATARQAHLYRGIFPVLCKDPVQEAWEAD  
 VDLRVNFAAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001206799

**ORF Size:** 1608 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\\_001206799.2](#)

**RefSeq Size:** 2421 bp

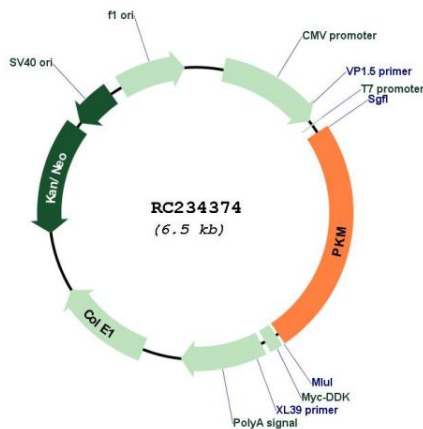
**RefSeq ORF:** 1611 bp

**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>	59 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 RC234374