

Product datasheet for **RC234154**

PKM2 (PKM) (NM_001206797) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKM2 (PKM) (NM_001206797) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>RC234154 representing NM_001206797
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTACAGCCAGCAGCTGCACGCAGCCATGGCTG
 ACACATTCCTGGAGCACATGTGCCGCTGGACATTGATTACACCCCATCACAGCCCGGAACACTGGCAT
 CATCTGTACCATTTGGCCAGCTTCCCGATCAGTGGAGCTGAAGAAGGGAGCCACTCTCAAAATCACGCTG
 GATAACGCCTACATGAAAAGTGTGACGAGAACATCCTGTGGCTGGACTACAAGAACATCTGCAAGGTGG
 TGGAAAGTGGCAGCAAGATCTACGTGGATGATGGGCTTATTTCTCTCCAGGTGAAGCAGAAAGGTGCCGA
 CTTCTGGTGACGGAGGTGAAAATGGTGGCTCCTTGGGCAGCAAGAAGGTGTGAACCTTCTGGGGCT
 GCTGTGGACTTGCTGTGTGTCGGAAGGACATCCAGGATCTGAAGTTTGGGGTCGAGCAGGATGTTG
 ATATGGTGTGTCGTCATTCATCCGAAGGCATCTGATGTCCATGAAGTTAGGAAGGTCTGGGAGAGAA
 GGGAAAGAACATCAAGATTATCAGCAAAATCGAGAATCATGAGGGGGTTCGGAGGTTTGATGAAATCCTG
 GAGGCCAGTGATGGGATCATGGTGGCTCGTGGTGATCTAGGCATTGAGATTCTGCAGAGAAGGTCTTCC
 TTGCTCAGAAGATGATGATTGGACGGTGAACCGAGCTGGGAAGCCTGTCATCTGTGCTACTCAGATGCT
 GGAGAGCATGATCAAGAAGCCCCGCCCCACTCGGGCTGAAGGCAGTGATGTGGCCATGCAGTCTGGAT
 GGAGCCGACTGCATCATGCTGTCTGGAGAAACAGCCAAAGGGGACTATCCTCTGGAGGCTGTGCGCATGC
 AGCACCTGATTGCCCCTGAGGCAGAGGCTGCCATCTACCACTTGCAATTATTTGAGGAACTCCGCCGCT
 GGCGCCCATACCAGCGACCCACAGAAGCCACCGCGTGGGTGCCGTGGAGGCTCCTTCAAGTGCTGC
 AGTGGGGCCATAATCGTCCTACCAAGTCTGGCAGGTCTGCTCACCAGGTGGCCAGATACCGCCACGTG
 CCCCCATCATTGCTGTGACCCGGAATCCCAGACAGCTCGTCAGGCCACCTGTACCGTGGCATCTTCCC
 TGTGCTGTGCAAGGACCCAGTCCAGGAGCCTGGGCTGAGGACGTGGACCTCCGGGTGAACCTTGCCATG
 AATGTTGGCAAGGCCGAGGCTTCTTCAAGAAGGAGATGTGGTCATTGTGCTGACCGGATGGCGCCCTG
 GCTCCGGCTTACCAACACCATGCGTGTGTTCTCTGTGCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234154 representing NM_001206797
 Red=Cloning site Green=Tags(s)

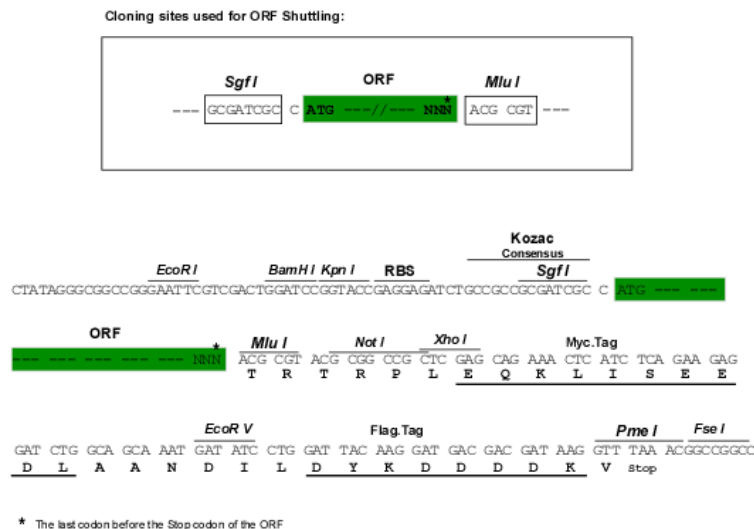
MSKPHSEAGTAFIQQLHAAMADTFLEHMCRLDIDSPPIARNTGIICTIGPASRSVELKKGATLKITL
 DNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGSLGSKKGVNLP
 AVDLPAVSEKDIQDLKFGVEQDVMVFASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRRFDEIL
 EASDGIMVARGDLGIEIPAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVANAVLD
 GADCIMLSGETAKGDYPLEAVRMOHLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEASF
 SGAIIVLTKSGRSAHQVARYRPRAPIIAVTRNPQTARQAHLRYGIFPVLCKDPVQEAWEAEDVLRVNFAM
 NVKGARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001206797

ORF Size: 1371 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_001206797.2](#)

RefSeq Size: 2294 bp

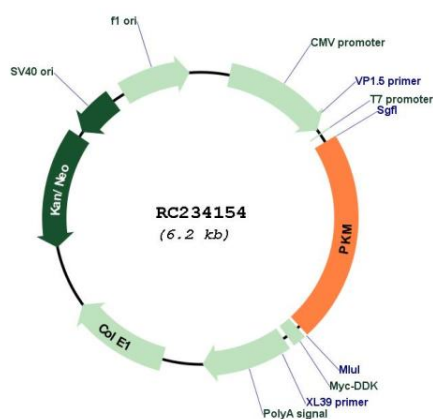
RefSeq ORF: 1374 bp

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:	50.3 kDa
Gene Summary:	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 RC234154