

## Product datasheet for **RG234154**

### 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:	TurboGFP
Symbol:	PKM2
Synonyms:	CTHBP; HEL-S-30; OIP3; p58; PK3; PKM2; TCB; THBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234154 representing NM\_001206797  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTACAGACCCAGCAGCTGCACGCAGCCATGGCTG  
 ACACATTCCTGGAGCACATGTGCCGCTGGACATTGATTCACCACCCATCACAGCCCGAACACTGGCAT  
 CATCTGTACCATTGGCCAGCTTCCCGATCAGTGGAGCTGAAGAAGGGAGCCACTCTCAAAATCACGCTG  
 GATAACGCCTACATGGAAAAGTGTACGAGAACATCCTGTGGCTGGACTACAAGAACATCTGCAAGGTGG  
 TGGAAAGTGGCAGCAAGATCTACGTGGATGATGGGCTTATTTCTCTCCAGGTGAAGCAGAAAGGTGCCGA  
 CTTCTGGTGACGGAGGTGAAAATGGTGGCTCCTTGGCAGCAAGAAGGGTGTGAACCTTCTGGGGCT  
 GCTGTGGACTTGCTGTGTGTCGGAGAAGGACATCCAGGATCTGAAGTTGGGGTCGAGCAGGATGTTG  
 ATATGGTGTGGTTCATTCATCCGAAGGCATCTGATGTCCATGAAGTTAGGAAGTCTGGGAGAGAA  
 GGGAAAGAACATCAAGATTATCAGCAAAATCGAGAATCATGAGGGGGTTCGGAGGTTTGATGAAATCCTG  
 GAGGCCAGTGATGGGATCATGGTGGCTCGTGGTATCTAGGCATTGAGATTCCTGCAGAGAAGGTCTTCC  
 TTGCTCAGAAGATGATGATTGGACGGTGAACCGAGCTGGGAAGCCTGTCATCTGTGCTACTCAGATGCT  
 GGAGAGCATGATCAAGAAGCCCCGCCCCACTCGGGCTGAAGGCAGTGATGTGGCCATGCAGTCTGGAT  
 GGAGCCGACTGCATCATGCTGTCTGGAGAAACAGCCAAAGGGGACTATCCTCTGGAGGCTGTGCCATGC  
 AGCACCTGATTGCCCGTGAGGCAGAGGCTGCCATCTACCACTTGCATTTTGGAGAACTCCGCCCGCT  
 GGGCCCATACCAGCGACCCACAGAAGCCACCGCCGTTGGTGCCGTGGAGGCTCCTTCAAGTGTGCTG  
 AGTGGGGCCATAATCGTCTCACCAAGTCTGGCAGGCTGCTCACCAGGTGGCCAGATACCGCCACGTC  
 CCCCCATCATTGCTGTGACCCGGAATCCCAGACAGCTCGTCAGGCCACCTGTACCGTGGCATCTCCC  
 TGTGCTGTGCAAGGACCCAGTCCAGGAGCCTGGGCTGAGGACGTGGACCTCCGGGTGAACCTTGGCATG  
 AATGTTGCAAGGCCCGAGGCTTCTTCAAGAAGGAGATGTGGTATTGTGCTGACCGGATGGCGCCCTG  
 GCTCCGGCTTACCAACACCATGCGTGTGTTCTGTGCCG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234154 representing NM\_001206797  
 Red=Cloning site Green=Tags(s)

MSKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSPPIARNTGIICTIGPASRSVELKKGATLKITL  
 DNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKQADFLVTEVENGGSLGSKKGVNLPGA  
 AVDLPAVSEKDIQDLKFGVEQDVMVFAFIRKASDVHEVRKVLGEKGNIKIISKIENHEGVRRFDEIL  
 EASDGIMVARGDLGIEIPAQKVFVLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVANAVLD  
 GADCIMLSGETAKGDYPLEAVRMQHIIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEASFKCC  
 SGAIIVLTKSGRSAHQVARYRPRAPIIAVTRNPQTARQAHLYRGIFFVLCKDPVQEAWAEDVDLRVNFAM  
 NVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVP

**TR**TRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-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](#)

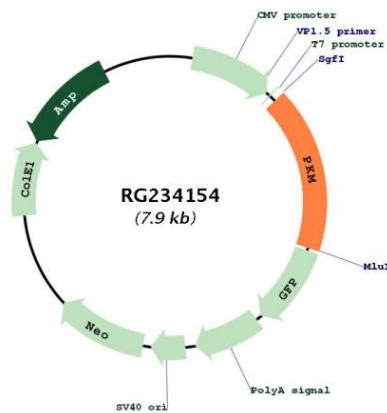
**Cytogenetics:** 15q23

**Protein Families:** Druggable Genome

**Protein Pathways:** Glycolysis / Gluconeogenesis, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus

**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 RG234154