

## Product datasheet for **TP319382L**

### **PKM2 (PKM) (NM\_182470) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human pyruvate kinase, muscle (PKM2), transcript variant 2, 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC219382 representing NM_182470 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSKPHSEAGTAFIQTQQQLHAAMADTFLEHMCRLDIDSPITARNTGIICTIGPASRSVETLKEMIKSGMN  
VARLNFSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKSGTAEVELKKGATL  
KITLDNAYMEKCDENILWLDYKNICKVVEVSGKIYVDDGLISLQVKQKGADFLVTEVENGGSLGSKKGVN  
LPGAAVDLPVSEKDIQDLKFGVEQDVMVFASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRRF  
DEILEASDGIMVARGDLGIEIPAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVAN  
AVLDGADCIMLSGETAKGDYPLEAVRMQHIAAREAAMFHRKLFEEVLRASSHSTDLMEAMAMGSVEAS  
YKCLAAALIVLTESGRSAHQVARYRPRAPIIAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRV  
NFAMNVGKARGFFFKGDVVIVLTGWRPGSGFTNTMRVVPV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	57.9 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_872270](#)

Locus ID: 5315

UniProt ID: [P14618](#), [A0A024R5Z9](#)

RefSeq Size: 2674

Cytogenetics: 15q23

RefSeq ORF: 1593

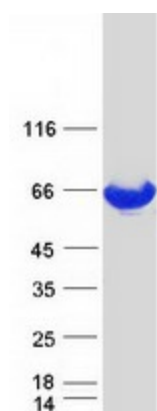
Synonyms: CTHBP; HEL-S-30; OIP3; p58; PK3; PKM2; TCB; THBP1

**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]

**Protein Families:** Druggable Genome

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

### Product images:



Coomassie blue staining of purified PKM protein (Cat# [TP319382]). The protein was produced from HEK293T cells transfected with PKM cDNA clone (Cat# [RC219382]) using MegaTran 2.0 (Cat# [TT210002]).