

## Product datasheet for **TP304758L**

### **PCK1 (NM\_002591) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human phosphoenolpyruvate carboxykinase 1 (soluble) (PCK1), 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC204758 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPPQLQNGLNLSAKVVQGSLDSLPAQVREFLENNALCQPDHIIHICDGSEEENGRLLGQMEEEGILRRLK  
KYDNCWLALDPRDVARIESKTIVITQEQRDTPVIPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRMTY  
VIPFSMGPLGSPLSKIGIELTDSPIYVASMIRIMTRMGTPVLEALGDGEFVKCLHSVGCPPLQKPLVNNW  
PCNPELTIAHLPDRREIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLVLGITNPEGEKKYL  
AAAFPSACGKTNLAMMNPSPGKWKVECVGDDIAWMKFDAQGHRLRAINPENGGFVAPGTSVKTNPNAIKT  
IQKNTIFTNVAETSDGGVYWEGIDEPLASGVTITSWKNKEWSSEDGEPCAHPNSRFCTPASQCPIIDAAW  
ESPEGVPIEGIIIFGGRRPAGVPLVYEALSWQHGVFVGAAMRSEATAAAEHKGIIMHDPFAMRPFPGYNF  
GKYLAHWLSMAQHPAAKLPKIFHVNWFRKDKGKFLWPGFGENSRVLEWMFNRIDGKASTKLTPIGYIPK  
EDALNLKGLGHINMMELFSISKEFWEKEVEDIEKYLEQVNADLPCEIEREILALKQRISQM

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

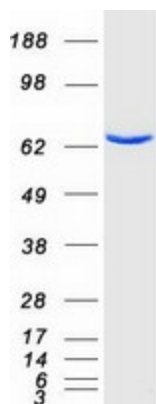
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	69 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein 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.



[View online »](#)

<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.
<b>RefSeq:</b>	<a href="#">NP_002582</a>
<b>Locus ID:</b>	5105
<b>UniProt ID:</b>	<a href="#">P35558</a>
<b>RefSeq Size:</b>	2692
<b>Cytogenetics:</b>	20q13.31
<b>RefSeq ORF:</b>	1866
<b>Synonyms:</b>	PCKDC; PEPCK-C; PEPCK1; PEPCKC
<b>Summary:</b>	This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme encoded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of this gene can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protein also has been characterized. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism

### Product images:



Coomassie blue staining of purified PCK1 protein (Cat# [TP304758]). The protein was produced from HEK293T cells transfected with PCK1 cDNA clone (Cat# [RC204758]) using MegaTran 2.0 (Cat# [TT210002]).