

## Product datasheet for TP321952

### PCB (PC) (NM\_001040716) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pyruvate carboxylase (PC), nuclear gene encoding mitochondrial protein, transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC221952 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MLKFRTVHGGRLRLGIRRTSTAPAASPNVRRLEYKPIKVMVANRGEIAIRVFRACTELGIRTVAIYSEQ  
DTGQMHRQKADEAYLIGRGLAPVQAYLHIPDIIKVAKENNVDAVHPGYGFLSERADFAQACQDAGVRFIG  
PSPEVVRKMGDKVEARAIAAAGVPVPGTDAPITSLHEAHEFSNTYGFPIIFKAAYGGGGRGMRVVHSY  
EELEENYTRAYSEALAAFNGALFVEKFIKPRHIEVQILGDQYGNILHLYERDCSIQRRHQKVEIAPA  
AHLDPQLRRLTSDSVKLAKQVGYENAGTVEFLVDRHGKHYFIEVNSRLQVEHTVTEEITDVDLVHAQIH  
VAEGRSLPDLGLRQENIRINGCAIQCRVTTEDPARSFQPDGTGRIEVRFRSGEGMGIRLDNASAFQGAVIS  
HYDSSLVKVIAHGKDHPAATKMSRALAEFRVRGVKTNIAFLQNVLNNQQFLAGVTDTQFIDENPELFQL  
RPAQNRAQKLLHYLGHVMVNGPTTPIPVKASPSPTDPVPAVPIGPPPAGFRDILLREGPEGFARAVRNH  
PGLLLMDTTFRDAHQSLLATRVRTHDLKKIAPYVAHNFSKLFSMENWGGATFDVAMRFLYECPWRRLQEL  
RELIPNIPFQMILLRGANAVGYTNYPDNVVFKEVAKENGMDVFRVFDLSNLYLPNMLLGMEAAGSAGGVV  
EAAISYTGDVADPSRTKYSLQYYMGLAEELVRAGTHILCIKDMAGLLKPTACTMLVSSLRDRFPDPLHI  
HTHDTSGAGVAAMLACAQAGADVVDVAADSMSGMTSQPSMGALVACTRGTPLDTEVPMERVFYSEYWEG  
ARGLYAAFDCATMKSGNSDVYENEIPGGQYTNLHFQAHSMLGSKFKEVKKAYVEANQMLGDLIKVTPS  
SKIVGDLAQFMVQNGLSRAEAEAQAELSFPRSVVEFLQGYIGVPHGGFPEPFRSKVLKDLPRVEGRPGA  
SLPPLDLQALEKELVDRHGEEVTPEDVLSAAMYDPVFAHFKDFTATFGPLDSLNTLFLQGPKIAEEFEV  
ELERGKTLHIKALAVSDLNRAGQRQVFFELNGQLRSILVKDTQAMKEMHFHPKALKDVKQGIGAPMPGKV  
IDIKVVAGAKVAKGQPLCVLSAMKMETVVTSPMEGTVRKVHVTKDMTLEGDDLILEIE

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

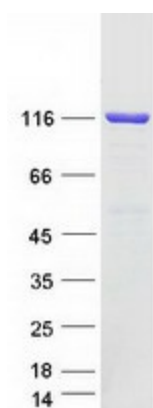
Tag:	C-Myc/DDK
Predicted MW:	127.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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<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.
<b>RefSeq:</b>	<a href="#">NP_001035806</a>
<b>Locus ID:</b>	5091
<b>UniProt ID:</b>	<a href="#">P11498</a> , <a href="#">A0A024R5C5</a>
<b>RefSeq Size:</b>	4192
<b>Cytogenetics:</b>	11q13.2
<b>RefSeq ORF:</b>	3534
<b>Synonyms:</b>	PCB
<b>Summary:</b>	This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyse the carboxylation of pyruvate to oxaloacetate. The active enzyme is a homotetramer arranged in a tetrahedron which is located exclusively in the mitochondrial matrix. Pyruvate carboxylase is involved in gluconeogenesis, lipogenesis, insulin secretion and synthesis of the neurotransmitter glutamate. Mutations in this gene have been associated with pyruvate carboxylase deficiency. Alternatively spliced transcript variants with different 5' UTRs, but encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Citrate cycle (TCA cycle), Metabolic pathways, Pyruvate metabolism

### Product images:



Coomassie blue staining of purified PC protein (Cat# TP321952). The protein was produced from HEK293T cells transfected with PC cDNA clone (Cat# [RC221952]) using MegaTran 2.0 (Cat# [TT210002]).