

## Product datasheet for PH321895

### PCB (PC) (NM\_000920) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PC MS Standard C13 and N15-labeled recombinant protein (NP_000911)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221895
Predicted MW:	129.63 kDa
Protein Sequence:	>RC221895 representing NM_000920 Red=Cloning site Green=Tags(s)

MLKFRTVHGGRLLLGIRRTSTAPAASPNVRRLEYKPIKKVMVANRGEIAIRVFRACTELGIRTVAIYSEQ  
DTGQMHRQKADEAYLIGRGLAPVQAYLHPIIDIIKVAKENNVDAVHPGYGFLSERADFAQACQDAGVRFIG  
PSPEVVRKMGDKVEARAI AIAAGVPVPGTDAPITSLHEAHEFSNTYGFPIIFKAA YGGGRGMRVVHSY  
EEL EENYTRAYSEALAAFNGALFVEKFI EKPRHIEVQILGDQYGNILHL YERDCSIQRRHQKVV E IAPA  
AHLDPQLRTRLTSDSVKLAKQVGYENAGTVEFLVDRHGKHYFIEVNSRLQVEHTVTEEITDVLVHAQIH  
VAEGRSLPDLGRQENIRINGCAIQCRVTEDPARSFQPDGTGRIEVFRSGEGMGIRLDNASAFQGA VISP  
HYD SLLVKVIAHGKDHPATAATKMSRALAEFRVRGVKTNIAFLQNLNNQQLAGTVDTQFIDENPEL FQL  
RPAQNRAQKLLHYLGHVMVNGPTTPIPVKASPSPTDPVVPAPVIGPPPAGFRDILLREGPEGFARAVRNH  
PGLLLMDTTFRDAHQSLLATRVRTHDLKKIAPYVAHNF SKLFSMENWGGATFDVAMRFLY ECPWRR LQEL  
RELIPNIPFQMLLRGANAVGYTNYPDNVVFKFCEVAKENGMDVFRVFDLSLNYLPNMLLGMEAAGSAGGVV  
EAAISYTDVADPSRTKYSYLQYYMGLAEELVRAGTHILCIKDMAGLLKPTACTMLVSSLRDRFPDLPLHI  
HTHDTSGAGVAAMLACAQAGADVVDVAADSMGMTSQPSMGALVACTRGTPLDTEVPMERVF DYSEYWEG  
ARGLYAAF DCTATMKS GNSDVYENEIPGGQYTNLHFQAHS MGLGSKFKEVKKAYVEANQMLGDLIKVTPS  
SKI VGD LAQFMVQNGLSRAEAEQA EELSFPRSVVEFLQGYIGVPHGGFPEPFRSKVLKDLPRVEGRPGA  
SLPPLDLQALEKELVDRHGEEVTPEDVLSAAMYPDVFAHFKDF TATFGPLDSL NTRLFLQGPKIAEEFEV  
ELERGKTLHIKALAVSDLN RAGQRQVVFELNGQLRSILVKDTQAMKEMHFHPKALKDVKGQIGAPMPGKV  
IDIKVVAGAKVAKGQPLCVLSAMKMETVVTSPMEGTVRKVHVTKDMTLEGDDLILEIE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

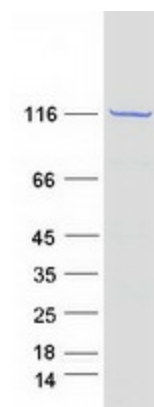
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_000911</a>
<b>RefSeq Size:</b>	4111
<b>RefSeq ORF:</b>	3534
<b>Synonyms:</b>	PCB
<b>Locus ID:</b>	5091
<b>UniProt ID:</b>	<a href="#">P11498</a> , <a href="#">A0A024R5C5</a>
<b>Cytogenetics:</b>	11q13.2
<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# [TP321895]). The protein was produced from HEK293T cells transfected with PC cDNA clone (Cat# [RC221895]) using MegaTran 2.0 (Cat# [TT210002]).