

# **Product datasheet for PH303138**

## OriGene Technologies, Inc.

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### PDHX (NM\_003477) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** PDHX MS Standard C13 and N15-labeled recombinant protein (NP\_003468)

Species:HumanExpression Host:HEK293

Expression cDNA Clone or AA Sequence:

NA Clone RC203138

Predicted MW:

54.1 kDa

Protein Sequence: >RC203138 protein sequence

Red=Cloning site Green=Tags(s)

MAASWRLGCDPRLLRYLVGFPGRRSVGLVKGALGWSVSRGANWRWFHSTQWLRGDPIKILMPSLSPTMEE GNIVKWLKKEGEAVSAGDALCEIETDKAVVTLDASDDGILAKIVVEEGSKNIRLGSLIGLIVEEGEDWKH VEIPKDVGPPPPVSKPSEPRPSPEPQISIPVKKEHIPGTLRFRLSPAARNILEKHSLDASQGTATGPRGI FTKEDALKLVQLKQTGKITESRPTPAPTATPTAPSPLQATAGPSYPRPVIPPVSTPGQPNAVGTFTEIPA SNIRRVIAKRLTESKSTVPHAYATADCDLGAVLKVRQDLVKDDIKVSVNDFIIKAAAVTLKQMPDVNVSW DGEGPKQLPFIDISVAVATVKGLLTPIIKDAAAKGIQEIADSVKALSKKARDGKLLPEEYQGGSFSISNL GMFGIDEFTAVINPPQACILAVGRFRPVLKLTEDEEGNAKLQQRQLITVTMSSDSRVVDDELATRFLKSF

KANLENPIRLA

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

**Stability:** Stable for 3 months from receipt of products under proper storage and handling conditions.

**RefSeq:** NP 003468

RefSeq Size: 2991 RefSeq ORF: 1503





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**Synonyms:** DLDBP; E3BP; OPDX; PDHXD; PDX1; proX

 Locus ID:
 8050

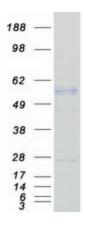
 UniProt ID:
 000330

 Cytogenetics:
 11p13

Summary: The pyruvate dehydrogenase (PDH) complex is located in the mitochondrial matrix and

catalyzes the conversion of pyruvate to acetyl coenzyme A. The PDH complex thereby links glycolysis to Krebs cycle. The PDH complex contains three catalytic subunits, E1, E2, and E3, two regulatory subunits, E1 kinase and E1 phosphatase, and a non-catalytic subunit, E3 binding protein (E3BP). This gene encodes the E3 binding protein subunit; also known as component X of the pyruvate dehydrogenase complex. This protein tethers E3 dimers to the E2 core of the PDH complex. Defects in this gene are a cause of pyruvate dehydrogenase deficiency which results in neurological dysfunction and lactic acidosis in infancy and early childhood. This protein is also a minor antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95% of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC eventually leads to cirrhosis and liver failure. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2009]

## **Product images:**



Coomassie blue staining of purified PDHX protein (Cat# [TP303138]). The protein was produced from HEK293T cells transfected with PDHX cDNA clone (Cat# [RC203138]) using MegaTran 2.0 (Cat# [TT210002]).