

Product datasheet for RC201230

PDHB (NM_000925) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDHB (NM_000925) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDHB
Synonyms:	PDHBD; PDHE1-B; PDHE1B; PHE1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201230 representing NM_000925 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGTGTCTGGCTTGGTGCAGAGACCCCTTCGGGAGGTCTCCGGCTGCTGAAGAGGCGCTTTC
ACTGGACCGCGCCGGCTGCGCTGCAGGTGACAGTTCGTGATGCTATAAATCAGGGTATGGATGAGGAGCT
GGAAAGAGATGAGAAGGTATTTCTGCTTGGAGAAGAAGTTGCCAGTATGATGGGCATACAAGGTTAGT
CGAGGGCTGTGGAAGAAATATGGAGACAAGAGGATTATTGACACTCCCATATCAGAGATGGGCTTTGCTG
GAATTGCTGTAGGTGCAGCTATGGCTGGTTGCGGCCATTTGTGAATTTATGACCTTCAATTTCTCCAT
GCAAGCCATTGACCAGGTATAAACTCAGCTGCCAAGACCTACTACATGTCTGGTGGCCTTCAGCCTGTG
CCTATAGTCTTCAGGGGGCCCAATGGTGCCTCAGCAGGTGTAGCTGCCAGCACTCACAGTGCTTTGCTG
CCTGGTATGGGCACTGCCAGGCTTAAAGTGGTCACTCCCTGGAATTCAGAGGATGCTAAAGGACTTAT
TAAATCAGCCATTCGGGATAACAATCCAGTGGTGGTGTAGAGAAATGAATTGATGTATGGGGTTCCTTTT
GAATTTCTCCGGAAGCTCAGTCAAAAGATTTCTGATTCCTATTGAAAAAGCCAAAATAGAAAAGCAAG
GAACACATATAACTGTGGTTTCCATTCAAGACCTGTGGCCACTGCTTAGAAGTGCAGCAGTGCATC
TAAAGAAGGAGTTGAATGTGAGGTGATAAATATGCGTACCATTAGACCAATGGACATGGAACCATAGAA
GCCAGTGCATGAAGACAAATCATCTTGAAGTGTGGAAGGAGGCTGGCCACAGTTTGGAGTAGGAGCTG
AAATCTGTGCCAGGATCATGGAAGTCTGCGTTCAATTTCTGGATGCTCCTGCTGTTCTGCTACTGG
TGCTGATGCCCTATGCCTTATGCAAAGATTCTAGAGGACAACCTCTATACCTCAGGTCAAAGACATCATA
TTTGCAATAAAGAAAACATTAATATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC201230 representing NM_000925
 Red=Cloning site Green=Tags(s)

MAAVSGLVRRPLREVSGLLKRRFHWTAPAALQVTVRDAINQGMDEELERDEKVFLLGEEVAQYDGAYKVS
 RGLWKKYGDKRIIDTPISEMGFAGIAVGAAMAGLRPICEFMTFNFSMQAIDQVINSAAKTYMSSGGLQPV
 PIVFRGPNASAGVAAQHSQCFAAWYGHCPGLKVVSPWNSDAGLIKSAIRDNNPVVLENELMYGVPP
 EFPPEAQSKDFLIPIGKAKIERQGTHTITVVSHSRPVGHCLAAAVLSKEGVECEVINMRTIRPMDMETIE
 ASYMKTNHLVTVEGGWPQFGVGAEICARIMEGPAFNFLDAPAVRVTGADVMPMPYAKILEDNSIPQVKDII
 FAIKKTLNI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_000925

ORF Size: 1077 bp

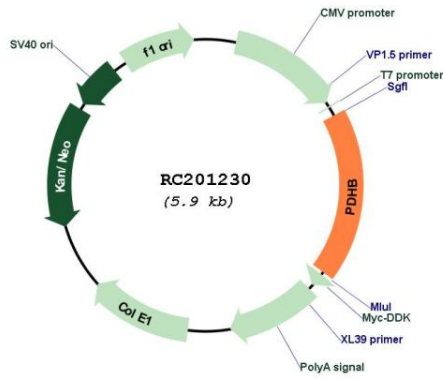
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_000925.3 , NP_000916.2
RefSeq Size:	1544 bp
RefSeq ORF:	1080 bp
Locus ID:	5162
UniProt ID:	P11177
Cytogenetics:	3p14.3
Domains:	transket_pyr, transketolase_C
Protein Pathways:	Butanoate metabolism, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Metabolic pathways, Pyruvate metabolism, Valine, leucine and isoleucine biosynthesis
MW:	39.2 kDa
Gene Summary:	<p>The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and carbon dioxide, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 beta subunit. Mutations in this gene are associated with pyruvate dehydrogenase E1-beta deficiency. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2012]</p>

Product images:



Circular map for RC201230