

Product datasheet for **RG229907**

PDHB (NM_001173468) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PDHB (NM_001173468) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PDHB
Synonyms: PDHBD; PDHE1-B; PDHE1B; PHE1B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229907 representing NM_001173468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGGTGTCTGGCTTGGTGCAGAGACCCCTTCGGGAGGTCTCCGGCTGCTGAAGAGGCGCTTTC
 ACTGGACCGCGCCGGCTGCGCTGCAGGTGACAGTTCGTGATGCTATAAATCAGGGTATGGATGAGGAGCT
 GGAAAGAGATGAGAAGGTATTTCTGCTTGGAGAAGAAGTTGCCAGTATGATGGGCATACAAGGTTAGT
 CGAGGGCTGTGGAAGAAATATGGAGACAAGAGGATTATTGACACTCCCATATCAGAGATGGGCTTTGCTG
 GAATTGCTGTAGGTGCAGCTATGGCTGGTTGCGGCCATTTGTGAATTTATGACCTTCAATTTCTCCAT
 GCAAGCCATTGACCAGGTTATAAATCAGCTGCCAAGACCTACTACATGTCTGGTGTAGCTGCCAGCAC
 TCACAGTGCTTTGCTGCCTGGTATGGGCACTGCCAGGCTTAAAGGTGGTCAATCCCTGGAATTCAGAGG
 ATGCTAAAGGACTTATTAATACGCCATTCGGGATAACAATCCAGTGGTGGTGTAGAGAATGAATTGAT
 GTATGGGGTTCCTTTGAATTTCTCCGGAAGCTCAGTCAAAGATTTTCTGATTCCTATTGGAAAAGCC
 AAAATAGAAAAGCAAGGAACACATAAATGTGGTTTCCATTCAAGACCTGTGGCCACTGCTTAGAAG
 CTGCAGCAGTGCATCTAAAGAAGGAGTTGAATGTGAGGTGATAAATATGCGTACCATTAGACCAATGGA
 CATGGAAACCATAGAAGCCAGTGCATGAAGACAAATCATCTTGAATGTGGAAGGAGGCTGGCCACAG
 TTTGGAGTAGGAGCTGAAATCTGTGCCAGGATCATGGAAGTCCCTGCCTCAATTTCTGGATGCTCCTG
 CTGTTCTGTCAGTGGTCTGATGTCCTATGCCTTATGCAAAGATTCTAGAGGACAACCTATACCTCA
 GGTCAAAGACATCATATTTGCAATAAAGAAAACATTAATATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229907 representing NM_001173468
Red=Cloning site Green=Tags(s)

MAAVSGLVRRPLREVSGLLKRRFHWTAPAALQVTVRDAINQGMDEELERDEKVFLLGEEVAQYDGAYKVS
 RGLWKYGDKRIIDTPISEMGFAGIAVGAAMAGLRPICEFMTFNFSMQAIDQVINSAAKTYMMSGVAAQH
 SQCFAAWYGHCPLKVVSPWNSEDAKGLIKSAIRDNNPVVLENELMYGVPFEPPEAQSKDFLIPIGKA
 KIERQGTHITVSHSRPVGHCLAAAVLSKEGVECEVINMRTIRPMDMETIEASVMKTNHLVTVEGGWPO
 FGVGAEICARIMEGPAFNFLDAPAVRVTGADVMPYAKILEDNSIPQVKDIIFAIKKTLNI

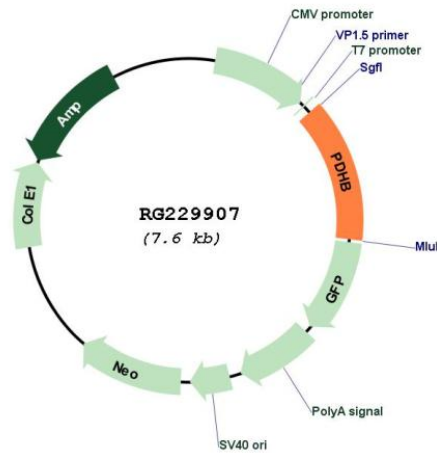
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001173468

ORF Size: 1023 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_001173468.1 , NP_001166939.1
RefSeq Size:	1490 bp
RefSeq ORF:	1026 bp
Locus ID:	5162
UniProt ID:	P11177
Cytogenetics:	3p14.3
Protein Pathways:	Butanoate metabolism, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Metabolic pathways, Pyruvate metabolism, Valine, leucine and isoleucine biosynthesis
Gene Summary:	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]