

## Product datasheet for **RG205416**

### PDHA2 (NM\_005390) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PDHA2 (NM_005390) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDHA2
Synonyms:	PDHAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205416 representing NM_005390 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGCCGCTTCATCTCCCGGTGTTGAGGCGAGTTGCCAGAAATCAGCTCGCAGAGTGCTGGTGG  
CATCCCGTAACCTCAAATGACGCTACATTTGAAATTAAGAAATGTGATCTTTATCTGTTGGAAGAGGG  
TCCCCCTGCTACTACAGTGCTCACTAGGCGGAGGGCTTAAATACTACAGGATGATGCTGACTGTTCCG  
CGCATGGAATTGAAGCAGATCAGCTGTACAAACAGAAATTCATTCGCGTTTCTGTACCTGTGCGATG  
GTCAGGAAGCTTGTTCGTTGGCCTTGGGCGGCATAAACCCTCGGATCACGTCATTACATCCTATAG  
GGCTCATGGTGTGTGCTATACTCGGGACTTTCTGTCCGATCCATTCTCGCAGAGCTGACGGGAAGAAGA  
GGAGGTTGTGCTAAAGGAAAAGGAGGATCGATGCATATGTATAACCAAGAACTTCTATGGGGCAATGGCA  
TCGTCGGTGCACAGGGCCCCCTGGGCGCTGGCATTGCTCTGGCCTGTAATAATAAGGAAACGATGAGAT  
CTGTTTGACTTTATATGGGGATGGCGCTGCGAATCAGGGGCAGATAGCCGAAGCTTTCAATATGGCAGCT  
TTATGGAAATTACCTTGTGTTTTATCTGTGAGAATAACCTATATGGAATGGGAACATCTACTGAGAGAG  
CAGCAGCCAGCCCTGATTACTACAAGAGGGCAATTTTATCCCTGGGCTAAAGGTCGATGGAATGGATGT  
TCTGTGTGTTTCGTGAGGCAACAAAATTTGCAGCTAACTACTGTAGATCTGGAAGGGGCCCATCTGATG  
GAGCTGCAAACCTACCGTTATCATGGACACAGTATGAGTGATCCTGGAGTCAGTTATCGTACACGAGAAG  
AAATTCAGGAAGTAAGAAGTAAGAGGGATCCTATAATAATTCTCCAAGATAGAATGGTAAACAGCAAGCT  
CGCCACTGTGGAAGAATTAAGGAAATTTGGGGCTGAGGTGAGGAAAGAAATTTGATGATGCTGCCAGTTT  
GCTACCACTGATCCTGAGCCACATTTGGAAGAATTAGGCCATCACATCTACAGCAGTGATTATCTTTTG  
AAGTTCGTGGTGCAAAATCCATGGATCAAGTTTAAGTCCGTCAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205416 representing NM\_005390  
 Red=Cloning site Green=Tags(s)

MLAAFISRVLRRVAQKSARRVLVASRNSSNDATFEIKKCDLYLLEEGPPVTTVLTRA EGLKYRMMLTVR  
 RMELKADQLYKQKFI RGFCHLCDGQ EACCVGLEAGINPSDHVITSYRAHGVCYTRGLSVRSILAELTGRR  
 GGC AKGKGGSMHMYTKNFYGGNGIVGAQGPLGAGIALACKYKGNDEICLTLYGDGAANQGQIAEAFNMAA  
 LWKLPCVFCENNL YGMGTSTERAAA SPDYYKRGNFIPGLKVDGMDVLCVREATKFAANYCRSGKGPILM  
 ELQTYRYHGHMSDPGVSYRTREEIQEVRSKRDP I I I L QDRMVNSKLATVEELKEIGA E VRKEIDDA AQF  
 ATTDPEPHLEELGH HIYSSDSSFEVRGANPWIKFKSVS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005390

**ORF Size:** 1164 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:**

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\\_005390.5](#)

**RefSeq Size:** 1387 bp

**RefSeq ORF:** 1167 bp

**Locus ID:** 5161

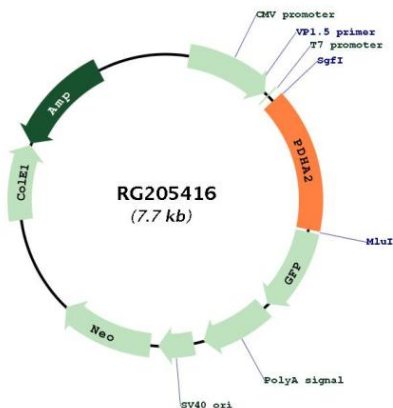
**UniProt ID:** [P29803](#)

**Cytogenetics:** 4q22.3

**Protein Pathways:** Butanoate metabolism, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Metabolic pathways, Pyruvate metabolism, Valine, leucine and isoleucine biosynthesis

**Gene Summary:** The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links the glycolytic pathway to the tricarboxylic cycle. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG205416