

Product datasheet for **MG206079**

Pdha1 (BC007142) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdha1 (BC007142) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdha1
Synonyms:	Pdha-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206079 representing BC007142 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAAGATGCTTGCCGCTGTATCCCGCTGTTGGCAGGCTCTGCGCAGAAGCCGGCAAGCCGAGTGC
TGGTTGCTTCCCATAATTTGCAAATGATGCTACATTTGAGATTAAGAAATGTGACCTTCATCGGCTAGA
AGAGGGCCCCCAGTCACCACAGTGCTCACCAGAGAGGATGGGCTCAAGTACTACAGGATGATGCAGACT
GTGCGCCGGATGGAGCTAAAGGCGGATCAGCTGTATAAGCAGAAAATCATTCTGTTTCTGTCACCTGT
GTGATGGTCAGGAAGCCTGCTGCGTGGGCTGGAGGCTGGCATAAACCCACGGACCACCTCATCACTGC
CTATCGAGCACATGGCTTCACTTCACTCGGGCCTGCCTGTGCGAGCAATTCCTGCAGAGCTAACAGGA
CGAAGAGGAGGTTGTGCTAAAGGAAAGGCGGGTCAATGCACATGTACGCCAAGAATTCTATGGAGGCA
ACGGCATCGTTGGAGCTCAGGTGCCCTGGGAGCAGGAATTGCCCTGGCCTGCAAGTACAATGGAAAAGA
TGAGGTCTGTTTGACATTACGGCGATGGTGCTGCTAATCAGGGTCAGATCTTTGAAGCTTACAATATG
GCAGACTGTGAAAATTACCTTGCAATTTTATCTGTGAGAACAACCGCTATGGCATGGGGACGCTGTTG
AGAGAGCAGCAGCCAGCACGGACTACTACAAAAGAGGAGATTTTATTCTGGACTCAGGGTAGATGGAAT
GGATATCTTGCGTCCGAGAGGCAACAAAGTTTGGCGCTGCCTATTGCAGGTCTGGTAAGGGGCCCATC
CTGATGGAGCTCCAGACTTACCCTACCATGGACACAGCATGAGTGACCCCTGGAGTAAGTACCGCACTC
GAGAAGAAATCCAGGAAGTAAGAAGTAAGAGTGACCCTATTATGCTTCTCAAGGATAGAATGGTGAACAG
CAATCTTGCAAGTGTTGAAGAATTAAGGAGATTGATGTGGAAGTGAGGAAAGAAATCGAGGATGCTGCC
CAGTTTGCCACGGCTGATCCTGAGCCCCGTTGGAGGAACTAGGCTATCACATCTACAGCAGTGATCCTC
CCTTTGAAGTGCGTGGTCCCAACAGTGGATCAAGTTTAAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206079 representing BC007142
 Red=Cloning site Green=Tags(s)

MRKMLAAVSRVLAGSAQKPAASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTRDGLKYYRMMQT
 VRRMELKADQLYKQKIIRGFCHLCDGQEAACVGLGAGINPTDHLITAYRAHGFTFTRGLPVRAILAEITG
 RRGGCAKGGKSSMHMYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTYDGAANQGQIFEAYNM
 AALWKLPCIFICENNRYGMGTSVERAAASTDYKRGDFIPGLRVDGMDILCVREATKFAAAYCRSGKGP
 LMELQTYRYHGHMSDPGVSYRTREEIQEVRSKSDPIMLLKDRMVNSNLASVEELKEIDVEVRKEIEDAA
 QFATADPEPPLEELGYHIYSSDPPFEVRGANQWIKFKSVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC007142

ORF Size: 1170 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: [BC007142](#), [AAH07142](#)

RefSeq Size: 2778 bp

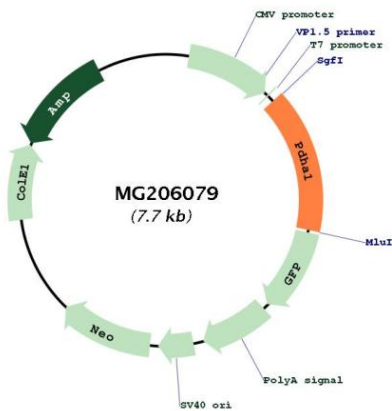
RefSeq ORF: 1172 bp

Locus ID: 18597

Cytogenetics: X 73.95 cM

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 MG206079