

Product datasheet for MR215676

Pdha2 (NM_008811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdha2 (NM_008811) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdha2
Synonyms:	Pdhal
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215676 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAAAATGCTGACCGCTGTGCTGTCTCACGTATTTTCGGGAATGGTCCAAAAGCCAGCTCTCAGAG
GACTGCTGTCTCTGAAGTTCTCCAACGACGCCACCTGTGACATTAAGAAATGTGACCTGTACCGGT
GGAGGAGGGCCACCGACCTCCACCGTGTCCACCGAGCCGAGGCCCTCAAGTACTACCGGACCATGCAG
GTAATTCGGCGCATGGAGTTGAAGGCCGACCAGCTGTATAAGCAGAAATTCATCCGTGGTTTCTGTCACC
TGTGTGATGGGCAGGAAGCCTGTGCGTGGGGCTGGAGGCAGGGATAAATCCCACGGATCACGTCATCAC
GTCTACCGGGCTCATGGCTTCTGTACACGCGAGGACTGTCCGTGAAGTCCATTCTCGCCGAGCTGACT
GGACGCAAAGGAGGCTGTGCTAAAGGCAAGGGAGGCTCCATGCACATGTACGGCAAGAATTCTACGGTG
GCAATGGCATTGTTGGGGCCAGGTACCCTGGGAGCTGGTGTGGCTTTTGCCTGTAATAACCTGAAGAA
TGGTCAGGTCTGCTTGGCTTTGTACGGCGATGGTGCAGCAACCAAGGGCAGGTATTCGAAGCATAACAAT
ATGTCAGCCTTGTGAAATACCTGTGTTTTATCTGTGAGAATAACCTCTATGGAATGGGAACCTCCA
ACGAGAGATCAGCAGCCAGTACTGATTACCACAAGAAAGTGTATTATCCCCGACTGAGGGTGAATGG
GATGGATATTCTGTGTTCCGGAGGCAACCAAGTTTGCAGCTGATCACTGCAGATCTGGAAGGGGCC
ATTGTGATGGAGCTGCAGACCTACCGTTATCATGGACACAGTATGAGCGACCCAGGGATCAGTTATCGTT
CAGGAGAAGAAGTTCATAACGTGAGAAGTAAGAGTGATCCTATAATGCTGCTCCGAGAGAGAATTATCAG
CAACAACCTCAGCAATATTGAAGAATTGAAGAAATTGATGCAGATGTGAAGAAAGAGGTGGAGGACGCA
GCTCAGTTTGTACGACTGATCCAGAACCAGCTGTGGAAGATATAGCCAATTACCTCTACCACCAAGATC
CACTTTTGAAGTCCGTGGTGCACATAAGTGGCTCAAGTATAAGTCCCACAGT

ACGGTACGGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215676 protein sequence
Red=Cloning site Green=Tags(s)

MRKMLTAVLSHVFSGMVQKPALRGLLSSLKFSDATCDIKKCDLYRLEEGPPTSTVLTRAEALKYYRTMQ
 VIRRMELKADQLYKQKFIGFCHLCDGQEACCVGLEAGINPTDHVITSYRAHGFCYTRGLSVKSILAELT
 GRKGGCAKGGGSMHMYGKNFYGGNGIVGAQVPLGAGVAFACKYLKNGQVCLALYDGAANQGQVFEAYN
 MSALWKLPCVFIGENNL YMGTSNERSAASTDYHKKGF IIPGLRVNGMDILCVREATKFAADHCRSGKGP
 IVMELQTYRYHGHMSDPGISYRSREEVHNVRKSDPIMLLRERIISNNLSNIEELKEIDADVKEVEDA
 AQFATTDPEPAVEDIANLYHQDPPFEVRGAHKWLKYSKSHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008811

ORF Size: 1176 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_008811.2](#), [NP_032837.1](#)

RefSeq Size: 2352 bp

RefSeq ORF: 1176 bp

Locus ID: 18598

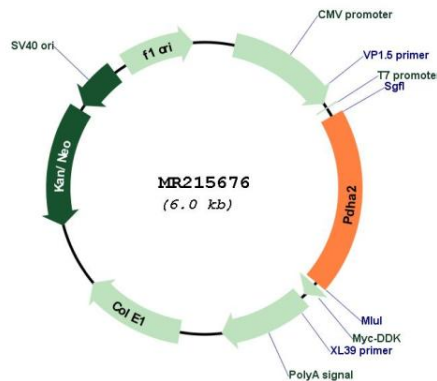
UniProt ID: [P35487](#)

Cytogenetics: 3 H1

MW: 43.4 kDa

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 MR215676