

Product datasheet for **RR210763**

Pdha2 (NM_053994) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdha2 (NM_053994) Rat 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:	>RR210763 representing NM_053994 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAGGAAAAATGCTGGCCACTGTGCTGTCTCAAGTATTTTCAGGAATGGTCCAGAAGCCAGCTCTCAGGG
GACTGCTGTCACTCTTAAGTTCTCCAACGACGCCACCTGTGACATCAAGAAATGCGACTGTACCTGTT
GGAACAGGGCCCCCACCTCCACTGTGCTCACCAGAGAGGAGGCCCTGAAATACTACCGGAACATGCAG
GTAATTCGGCGCATGGAGTTGAAGGCCGACCAGCTGTATAAGCAGAAATTCATCCGTGGTTTCTGTCACC
TGTGTGATGGGCAGGAAGCCTGCAATGTGGGGCTGGAGGCAGGGATAAATCCACAGACCACATCATCAC
GTCCTACAGAGCTCATGGCTTGTGTACACGAGGGGACTGTCAAGTCCATTCTCGCAGAGCTGACT
GGACGCAAAGGAGGCTGTGCTAAAGGCAAGGGAGGCTCTATGCACATGTACGCCAAGAACTTCTATGGGG
GCAATGGCATTGTTGGGGCACAGGTACCCTGGGAGCTGGTGTGGCTCTCGCCTGTAAATACCTGAAGAA
TGGTCAGATCTGCTTGGCTTTGTATGGCGATGGTGCAGGTAACCAAGGGCAGGTATTTGAAGCTTACAAT
ATGTCAGCCTTGTGAAATTACCCTGTGTTTCATCTGTGAGAATAACCGCTATGGAATGGGAACAGCTA
TTGAGAGATCAGCAGCCAGTACTGATTACCACAAGAAAGGCTTTGTTATCCCTGGACTGAGGGTGAATGG
GATGGATATTCTCAGTGTTCTGTAGGCGACCAAGTTTGCAGCTGATCACTGCAGATCCGGAAGGGGCC
ATTGTGATGGAGTTGCAGACATACCGTTATCATGGACACAGTATGAGCGATCCAGGGATCAGTTATCGTA
CAGGAGAAGAAGTTCAGAACGTGAGGAGTAAGAGTGATCCAATAATGCTTCTCCGAGAGAGAATGATAAG
CAACAACCTCAGCAGTGTGAAGAATTGAAGAAATTGATGCAGATGTGAAGAAAGAGTCGAGGAAGCA
GCTCAGTTTGCTACAACGATCCAGAACCACCTCTGGAAGATTTAGCCAATTACCTCTACCACAAAATC
CACCATTGAAGTCCGTGGTGCACATAAATGGCTGAAGTTTAAGTCTGTCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RR210763 representing NM_053994
Red=Cloning site Green=Tags(s)

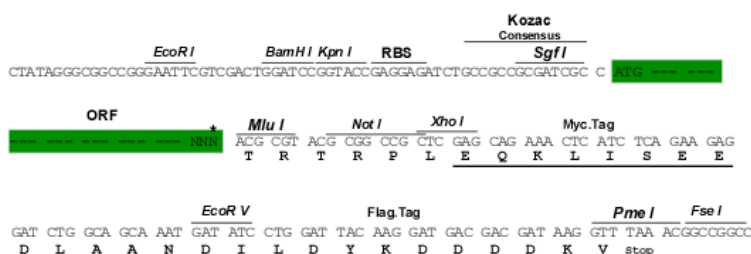
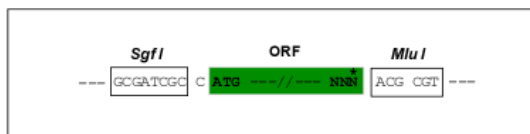
MRKMLATVLSQVFSGMVQKPALRGLLSSLKFSNDATCDIKKCDLYLLEQGPPSTVLITREEALKYYRNMQ
VIRRMELKADQLYKQKFIIRGFCHLCDGQAEACNVGLEAGINPTDHIITSYRAHGLCYTRGLSVKSILAEIT
GRKGGCAKGGKSGSMHMYAKNFYGGNGIVGAQVPLGAGVALACKYLKNGQICLALYDGAANGQGVFEAYN
MSALWKLPCVFIGENNRYMGMTAIERSAASTDYHKKGFIPLGRVNGMDILSVREATKFAADHCRSGKGP
IVMELQTPYRHHGMSMDPGISYRTREEVQNRVSKSDPIMLLRERMISSNLSVEELKEIDADVKEVEEA
AQFATTDPERPLEDLANYLHYONPFFVEVRGAHKWLKFKSVLS

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 053994

ORF Size: 1173 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_053994.2, NP_446446.1

RefSeq Size: 1574 bp

RefSeq ORF: 1176 bp

Locus ID: 117098

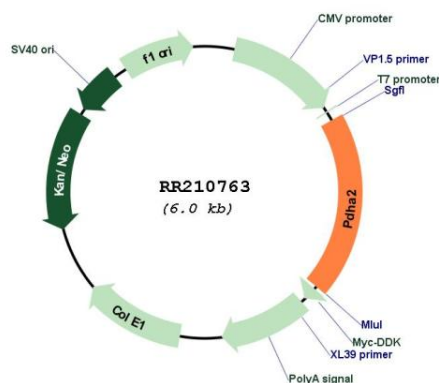
UniProt ID: Q06437

Cytogenetics: 2q44

MW: 43.4 kDa

Gene Summary: mouse homolog codes for one of two E1 alpha subunits for pyruvate dehydrogenase (Pdh)
[RGD, Feb 2006]

Product images:



Circular map for RR210763