

Product datasheet for **MR208036**

Pdhx (NM_175094) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdhx (NM_175094) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdhx
Synonyms:	A1481367; E3bp; Pdx1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208036 representing NM_175094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCTCCTGGAGGCTTCACTGTAACAGCCGCTGCTTCGGTACCTTCTGGGATTTAGCAGCCGTC
 GAAGCCTGGGACTGGCTCAGGGTCTGCTGCTTGGCCTGTCGACCGTGGAGCAAGTTGGAGGTGGTTTCA
 CAGTACTCAGCTGCTGCAGGCGGATCCTATTAAGGTCCTAATGCCATCACTGTCTCTACGATGGAGCAA
 GGAACATTGTGAAATGGCTGAGAAAGGAAGGTGAAGCTGTGAGTCTGGAGACTCGTTATGTGAAATTG
 AGACGGACAAGGCTGTGGTACCTTAGATGCAAACGATGATGGCATCTTAGCCAAGATAGTGGTTGAGGA
 AGGTGCTAAAAATACAGCTGGGTTCACTCATTGCTTTGATGGTTGAAGAAGGGGAAGATTGGAACAG
 GTGAAATTCCCAAGGATGTCAGTGTCCACCTCCAGTCTCAAACCACAGCTCCTACTCAGCCCTCTC
 CACAGCCGAGATTCTTGTCCCAGGAGGAGCACAAGGGACGGCACGGTTCGGCTTAAGTCCAGC
 TGCCCGCAACATTCTGAAAAACATTTCATTGGACGCCAGCCAGGGCACAGCCACAGGCCCTCGCGGGATC
 TCACTAAAGAAGATGCACTCAAGTTAGTCGAGCTGAAACAGATGGGCAAGATTACTGAATCCAGACCAG
 CCTCAGCTCCTCCACCCTCTCTCTCAGCATCTGTGCCTCCTCAGGCTACAGCCGGGCCATCCTATCTCG
 GCCAATGACCCACCAGTATCCATTCTGGGCAACCGAATGCAGCGGGTACATTCACCGAAATTCCTGCT
 AGCAATATTCGAAGATTATCGCTAAGAGGTTAACTGAATCAAAAAGTACTGTGCCTCATGCCTATGCTA
 CTGCTGACTGTGACCTTGGCGCAGTTCTAAAGGTTAGACGAGATCTGGTCAAAGATGACATTAAGTCTC
 AGTAAATGACTTTATCATCAGAGCAGCAGCTGTTACTCTTAAACAAATGCCTGGGTTAATGTCACTGG
 GATGGAGAAGGCCCAAAGCAGCTGCCCTCTGTTGACATTCAGTGGCTGTGGCAACAGATAAAGGTTTAA
 TTACACCAATCATAAAAGATGCAGCCGCTAAGGGCATTACAGGAGATCGTACTGTAAAGGTTCTGTC
 GAAGAAAAGCACGGGATGGGAAATTGATGCCAGAGGAGTACCAAGGAGGATCTTTTAGTATTCCAACTTG
 GGGATGTTTGGCATCGATGAGTTCGCTGCAAGTATTAACCCGCCTCAGGCTGTATCTTGGCCGTTGGGA
 GATTCCGCCCGTCTGAAGCTGACGGAGGATGAAGAGGGGAACCCTCAACTGCAGCAGCACCAGCTTAT
 AACGGTACAATGTCAAGTACAGCCGAGTGGTTGATGATGAACTAGCTACCAGGTTTCTTGAAACTTTC
 AAAGCAAACCTAGAGAATCCCATGCGACTTGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208036 representing NM_175094
 Red=Cloning site Green=Tags(s)

MAASWRLHCNQPLLRYLLGFSSRRSLGLAQGAAWPVDRGASWRWFHSTQLLQADPIKVLMPSLSPTMEQ
 GNIVKWLKKEGEAVSAGDSLCEIETDKAVVTLDANDDGILAKIVVEEGAKNIQLGSLIALMVEEGEDWKQ
 VEIPKDVSAAPPVSKPPAPTQSPQPQIPCPARKEHKGTARFRLSPAARNILEKHSLDASQGTATGPRGI
 FTKEDALKLVELKQMGKITESRPASAPPSLSASVPPQATAGPSYPRPMTPPVSI PGQPNAAGTFTEIPA
 SNIRRVIAKRLTESKSTVPHAYATADCDLGAVLKVRDLVKDDIKVSVNDFIIRAAAVTLKQMPGVNVTW
 DGEQPKQLPSVDISVAVATDKGLITPIIKDAAAKGIQEIADSVKVL SKKARDGKLMPEEYQGGSFISNL
 GMFGIDEFAAVINPPQACILAVGRFRPVLKLTEDDEEGNPQLQQHQLITVTMSSDSRVVDELATRFLETF
 KANLENPMRLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9045_d05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_175094

ORF Size: 1503 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_175094.5](#), [NP_780303.1](#)

RefSeq Size: 2527 bp

RefSeq ORF: 1506 bp

Locus ID: 27402

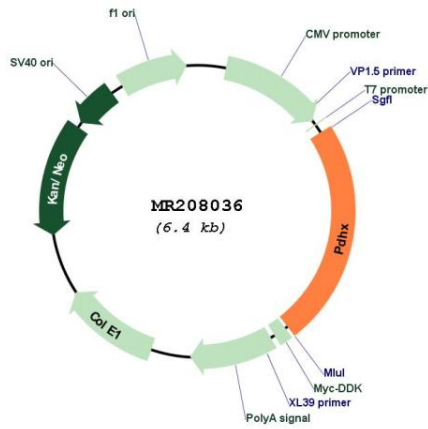
UniProt ID: [Q8BKZ9](#)

Cytogenetics: 2 E2

MW: 54.4 kDa

Gene Summary: Required for anchoring dihydrolipoamide dehydrogenase (E3) to the dihydrolipoamide transacetylase (E2) core of the pyruvate dehydrogenase complexes of eukaryotes. This specific binding is essential for a functional PDH complex (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208036