

## Product datasheet for **MG208036**

### **Pdhx (NM\_175094) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdhx (NM_175094) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdhx
Synonyms:	AI481367; E3bp; Pdx1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208036 representing NM\_175094  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCTCCTGGAGGCTTCACTGTAACAGCCGCTGCTTCGGTACCTTCTGGGATTTAGCAGCCGTC  
 GAAGCCTGGGACTGGCTCAGGGTCTGCTGCTTGGCCTGTCGACCGTGGAGCAAGTTGGAGTGTTTCA  
 CAGTACTCAGCTGCTGCAGGCGGATCCTATTAAGTCTAATGCCATCACTGTCTCTACGATGGAGCAA  
 GGAACATTGTGAAATGGCTGAGAAAGGAAGGTGAAGCTGTGAGTCTGGAGACTCGTTATGTGAAATTG  
 AGACGGACAAGGCTGTGGTCACTTAGATGCAAACGATGATGGCATCTTAGCCAAGATAGTGGTTGAGGA  
 AGGTGCTAAAAATACAGCTGGGTTCACTCATTGCTTTGATGGTTGAAGAAGGGGAAGATTGGAAACAG  
 GTGAAATTTCCAAGGATGTCAGTGTCCACCTCCAGTCTCAAACCACCAGCTCCTACTCAGCCCTCTC  
 CACAGCCGAGATTCTTGTCCCAGGAGGAGCACAAGGGACGGCACGGTTCGGCTTAAGTCCAGC  
 TGCCCGCAACATTCTGGAAAACATTCACTGGACGCCAGCCAGGGCACAGCCACAGGCCCTCGGGGATC  
 TCACTAAAGAAGATGCACTCAAGTTAGTCGAGCTGAAACAGATGGGCAAGATTACTGAATCCAGACCAG  
 CCTCAGCTCCTCCACCCTCTCTCAGCATCTGTGCCTCCTCAGGCTACAGCCGGGCCATCCTATCCTCG  
 GCCAATGACCCACCAGTATCCATTCTGGGCAACCGAATGCAGCGGGTACATTCACCGAAATTCCTGCT  
 AGCAATATTCGAAGATTATCGCTAAGAGGTTAACTGAATCAAAAAGTACTGTGCCTCATGCCTATGCTA  
 CTGCTGACTGTGACCTTGGCGCAGTTCTAAAGGTTAGACGAGATCTGGTCAAAGATGACATTAAGTCTC  
 AGTAAATGACTTTATCATCAGAGCAGCAGCTGTTACTCTTAAACAAATGCCTGGGTTAATGTCACTGG  
 GATGGAGAAGGCCCAAAGCAGCTGCCCTCTGTTGACATTCAGTGGCTGTGGCAACAGATAAAGGTTTAA  
 TTACACCAATCATAAAAGATGCAGCCGCTAAGGGCATTACAGGAGATCGTACTCTGTAAGGTTCTGTC  
 GAAGAAAAGCACGGGATGGGAAATTGATGCCAGAGGAGTACCAAGGAGGATCTTTTAGTATTCCAACCTG  
 GGGATGTTTGGCATCGATGAGTTCGCTGCAAGTATTAACCCGCCTCAGGCTGTATCTTGGCCGTTGGGA  
 GATTCCGCCCGTCTGAAGCTGACGGAGGATGAAGAGGGGAACCCTCAACTGCAGCAGCACCAGCTTAT  
 AACGGTACAATGTCAAGTACAGCCGAGTGGTTGATGATGAACTAGCTACCAGGTTTCTTGAACCTTTC  
 AAAGCAAACCTAGAGAATCCCATGCGACTTGGG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208036 representing NM\_175094  
 Red=Cloning site Green=Tags(s)

MAASWRLHCNQPLLRYLLGFSSRRSLGLAQGAAWPVDRGASWRWFHSTQLLQADPIKVLMPSSLPTMEQ  
 GNIVKWLKKEGEAVSAGDSLCEIETDKAVVTLANDDGLAKIVVEEGAKNIQLGSLIALMVEEGEDWKQ  
 VEIPKDVSAAPPVSKPPAPTQSPQPQIPPCARKEHKGTAARFRLSPAARNILEKHSLDASQGTATGPRGI  
 FTKEDALKLVELKQMGKITESRPASAPPPSLASVPPQATAGPSYPRPMTPPVSIQPNAAAGTFTEIPA  
 SNIRRVIAKRLTESKSTVPHAYATADCDLGAFLKVRDLVKDDIKVSVNDFIIRAAAVTLKQMPGVNVTW  
 DGEQPKQLPSVDISVAVATDKGLITPIIKDAAAKGIQEIADSVKVL SKKARDGKLMPEEYQGGFSISNL  
 GMFGIDEFAAVINPPQACILAVGRFRPVLKLTEDDEGNPQLQHQHLITVTMSSDSRVVDELATRFLFET  
 KANLENPMRLG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**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

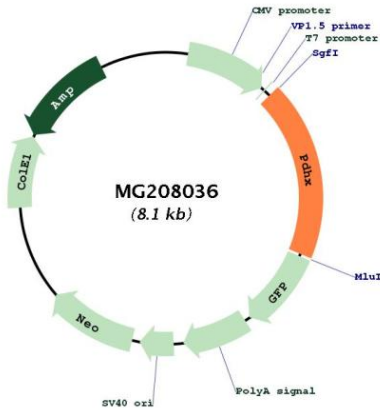
**UniProt ID:** [Q8BKZ9](#)

**Cytogenetics:** 2 E2

**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 MG208036