

## Product datasheet for **RR202828**

### **Pdhx (NM\_001044242) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdhx (NM_001044242) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdhx
Synonyms:	Ac1164
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR202828 representing NM\_001044242  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGTTGAAGAAGGTGCTAAAAATATAAAGCTGGGTTGCTCATTGCTTTGATGGTTGAAGAAGGAG  
 AAGACTGGAAACACGTGGAAATCCCAAGGATGTCAGCGCTCCACTCCAGTTCCAAAGCCACCAGCGCC  
 TCCTCAGCCCTCTCCACAGACGCAGACTCCTTGCCCTGCCAGGAAGGAGCGCACAGTAGGGACACCACCA  
 CGGCTCCGCTTAAGTCCAGCTGCCCGCAACATTCTGAAAAACATTTCATTGGACGCCAGCCAGGGCACAG  
 CCACAGGCCCTCGAGGGGTCTTCACTAAAGAGTATGAACTTAGCCCAATAAAGGTACAACAGAGACTGGT  
 CCGATGGGCTGTGACCTGTGAAATCCTCACAGCAGTGTGTGACTCCAGTACTGGTTAGATTGACGGTG  
 GTGCTGGAAGTTTAGGATCTCAGAGTGCAGGTGGCTGGTGTGACAGCCGTTCTGATCAAAGAACAACAG  
 CCCGAGCCACTGTGTCTCTGGAGAAGAGCACAGGCTCAGAGCTGGTGTTCAGATTTACGTTAAGACAGA  
 GGTAGTGTCCAGGTGCATGTTGTACAGAAGCACAGTCATGAAGATGCACTCAGTTAGTCGAGCTGAAA  
 CAGATGGGCAAGATTGCCGAATTCAGACCAGCCCCAGGTCTCCAAGCACTCTCTCAGCACTGTGCCTC  
 CTCAGCCACAGCTGGGCTGTGCTACCCCTCGGCCAATGATCCCACCAGTCTCTATCCCTGGGCAGCCTAA  
 TGCAGCGGTACATTCAGTAAATTCCTGCCAGCAATATTCGAAAAGTTATTGCTAAGAGTTAACTGAA  
 TCAAAAAGTACTGTGCCTCACGCCTATGCTACTGCTAACTGTGACCTTGGAGCAGTTTTAAAGGTTAGAC  
 GAGATCTGGTCAAAGATGACATTAAGTCTCAGTTAATGACTTTATCATCAGAGCAGCAGCTGTTACTCT  
 TAAGCAAATGCCTGGGGTTAATGCACCTGGGATGGAGAAGGCCAAAGCATCTGCCCTCTGTTGACATT  
 TCAGTGGCTGTGGCAACAGATAAAGGTTAATTACACCAATCATAAAAGATGCAGCTGCTAAGGACATAC  
 GGGAGATCGCTGACGCTGTAAGCCACACCTCTTATATTTCTCTGGCCGTGTGCTACTGTTGAGGC  
 CCTCCAGTTGAGGATTATCGAACAGTGGTTCGGTAATAGTTATGATATTTATATGTGTGCTGGTAGACAT  
 GTTCTTTGGCCCTTGAGCAGCATTAGCAGAAGGTTCACTACTAAAATACGCAAACCTAATTGGGACCATGC  
 CGCCTTACAGCAGTGTCTTCTCCCTCTCCAGTATTTCCAAGTGGGCATGTTTGGCATCGATGAGTTCAC  
 TGCAGTGATTAACCCGCCTCAGGCCTGTATCTTGGCAGTTGGAAGATTCCGTCCAGTGTGAACTCACT  
 GAGGATGAAGAGGGGAACCCCAAGTGGCCAGCACCAGCTTATAACTGTACAGTGTCAAGTGACAGCC  
 GAATGGTTGATGATGAAGTACTACCAAGTTTCTGAACTTTCAAAGCAAACCTAGAGAACCCCATGCC  
 ACTTGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR202828 representing NM\_001044242  
 Red=Cloning site Green=Tags(s)

MQVEEGAKNIKLGSLIALMVEEGEDWKHVEIPKDVSAPPPVPPKPPAPPQSPQTQTPCPARKERTVGTTP  
 RLRLSPAARNILEKHSLDASQGTATGPRGVFTKEYELSPIKVQQLRVRAVTCVKSSQCVTPVLVRLTV  
 VLEVLGSQSAGGWCDSDQRTTARATVSLEKSTGSELVFRFHVKTEVVLQVHVQKHSHEALRLVELK  
 QMGKIAEFRPAPGPPSTLSAPVPPQPTAGLSYPRPMIPVSIIPGQPNAAAGTFTEIPASNIRKVIKRLTE  
 SKSTVPHAYATANCDLGAFLKVRDLVKDDIKVSVNDFIIRAAAVTLKQMPGVNVTWDGEGPKHLPVSDI  
 SVAVATDKGLITPIIKDAAAKDIREIADAVKPHLLYFLFWPCVTVEALQLRIEQWFNSYDIYMCAGRH  
 VLWPLSSIAEGSVLKYANLIGTMPPSAVFSPLSSISNLGMFGIDEFTAVINPPQACILAVGRFRPVKLKLT  
 EDEEGNPQVRQHLITVTMSSDSRMVDELATKFLKLETFKANLENPMRLA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

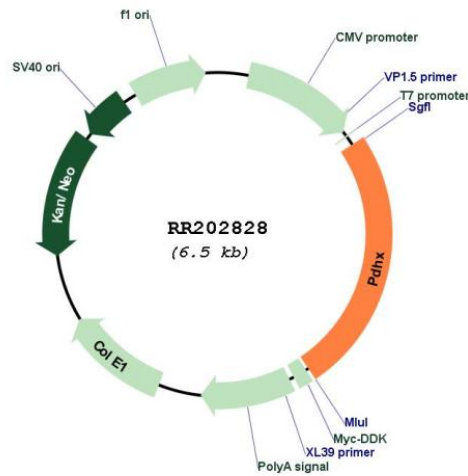
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_001044242
<b>ORF Size:</b>	1617 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001044242.1</a> , <a href="#">NP_001037707.1</a>
<b>RefSeq Size:</b>	1666 bp
<b>RefSeq ORF:</b>	1620 bp
<b>Locus ID:</b>	311254
<b>Cytogenetics:</b>	3q32
<b>MW:</b>	58.8 kDa