

## Product datasheet for **RR210845**

### **Pdha1 (NM\_001004072) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pdha1 (NM\_001004072) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pdha1  
**Synonyms:** MGC94854; MGC114215  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210845 representing NM\_001004072  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGGAAGATGCTTGCCGCTGTGTCCCGCTGTTGGCAGGCGCTGCGCAGAAGCCGGCAAGCAGAGTGC  
TGGTAGCTTCCCCTAATTCGCAAATGATGCTACATTTGAGATTAAGAAATGTGACCTTCATCGTCTAGA  
AGAGGGCCCTCCAGTACCACAGTGTCTACCAGAGAGGATGGGCTCAAGTACTACAGGATGATGCAGACC  
GTGCGCCGGATGGAGCTCAAGGCGGATCAGCTGTATAAGCAGAAAATTATTCGTGGTTTCTGTCACCTGT  
GTGATGGTCAGGAAGCCTGCTGTGTGGCCTGGAGGCTGGCATAAACCCACGGACCATCTCATCTACTGC  
CTATCGAGCCCATGGCTTCACTTCACTCGGGCCTGCCTGTCCGAGCAATTCCTGCAGAATTAACAGGA  
CGAAGAGGAGGCTGTGCTAAGGGGAAAGGCGGATCAATGCACATGTACGCCAAGAATTCTATGGCGGCA  
ACGGTATCGTTGGAGCTCAGGTGCCCTGGGTGCAGGAATTGCTCTGGCCTGCAAGTATAATGGCAAAGA  
TGAGGTCTGTTTGACATTATATGGTGTGGTGTGCTAACCAGGGTCAGATATTTGAAGCTTACAATATG  
GCAGCATTGTGAAATACCTTGTATTTTCATCTGTGAGAATAACCGCTATGGCATGGGCACATCTGTTG  
AGAGAGCAGCAGCCAGCAGGATTACTACAAAAGAGGAGATTTTCATTCTGGACTGAGGGTAGATGGAAT  
GGATATCTTGTGTCCGAGAGGCAACAAAGTTTGCAGCTGCCTACTGCAGGTCTGGTAAGGGCCCTATC  
CTGATGGAGCTACAGACTTACCGCTACCATGGACATAGTATGAGTGACCTGGAGTCAGTTATCGCACTC  
GAGAAGAAATCCAGGAAGTAAGAAGTAAGAGTGACCCTATTATGCTTCTCAAGGATAGAATGGTGAACAG  
CAATCTTGAAGTGTGAAGAATTAAGGAGATTGATGTGGAAGTGAGGAAAGAAATCGAGGATGCTGCC  
CAGTTTGCACGGCTGATCCGGAGCCGCCATTGGAGGAGCTAGGCTATCATATCTACAGCAGTGACCCAC  
CCTTCAAGTGCGTGGTCCCAACCAGTGGATCAAGTTAAGTCAGTCAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210845 representing NM\_001004072  
 Red=Cloning site Green=Tags(s)

MRKMLAAVSRVLAGAAQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTREDGLKYRMMQT  
 VRRMELKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRAHGFTFTRGLPVRAILAELTG  
 RRGGCAKGGKSSMHMYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTYGDGAANQGQIFEAYNM  
 AALWKLPCIFICENNRYGMGTSVERAAAASDYKRGDFIPGLRVDGMDILCVREATKFAAAYCRSGKGP  
 LMELQTYRYHGHMSDPGVSYRTREEIQEVRSKSDPIMLLKDRMVNSNLSVEELKEIDVEVRKEIEDAA  
 QFATADPEPPLEELGYHIYSSDPPFEVRGANQWIKFKSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

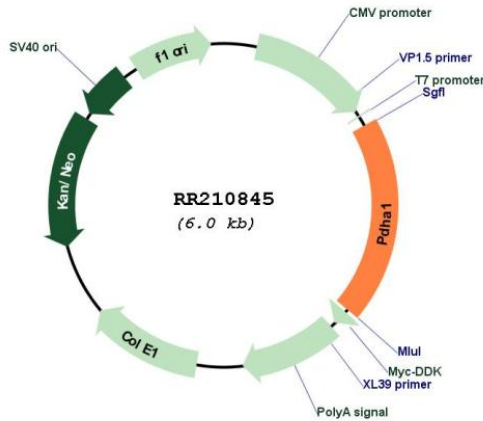
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001004072

<b>ORF Size:</b>	1170 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_001004072.2</a> , <a href="#">NP_001004072.2</a>
<b>RefSeq Size:</b>	2839 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	29554
<b>Cytogenetics:</b>	Xq14
<b>MW:</b>	43.2 kDa
<b>Gene Summary:</b>	catalyzes the interconversion of pyruvate and lipoamide to S-acetyldihydrolipoamide and CO2 [RGD, Feb 2006]