

## Product datasheet for **RR204827**

### **Pdhb (NM\_001007620) Rat Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Pdhb (NM\_001007620) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Pdhb  
 Synonyms: MGC94149  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR204827 representing NM\_001007620  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCGGTGGCTGGTCTGGTGGGGACCTTTGCGGCAGGCTTCCGGGCTGCTGAAGAGCGTTTCC  
 ACCGCTCGGCGCCCGCGCGGTGACAGTTGACAGTTCGTGAAGCCATTAATCAAGGTATGGATGAAGAACT  
 AGAAAGAGATGAAAGGTTTTCTGCTTGGGAAGAAGTTGCCAGTATGATGGTGCATACAAGGTTAGC  
 AGAGGCCCTGTGGAAGAAATATGGTGACAAGAGGATCATAGATACTCCCATATCGGAGATGGCTTTGCTG  
 GAATTGCTGTTGGTGCAGCTATGGCTGGGCTGCGGCCATCTGTGAATTTATGACCTCAATTTCTCTAT  
 GCAAGCTATTGACCAGGTCATAAATCAGCTGCCAAGACGTAATAATGTCTGCTGGCCTCCAGCCGGTG  
 CCCATAGTGTTCCAGGGGGCCCAACGGCGCCTCAGCGGGCGTGGCTGCTCAGCACTCGCAATGCTTCGCTG  
 CGTGGTATGGGCACTGCCCGGTTTAAAGTGGTCAAGCCCTGGAATCCGAGGATGCGAAAGGACTTAT  
 TAAATCGGCCATTCGTGATGATAATCCAGTGGTGTAGTAGAATGAACTGATGATGGAGTTGCATTT  
 GAACTTCCACAGAAGCTCAATCAAAAGATTTCTGATTCCTATTGAAAAGCCAAAATTGAAAGGCAAG  
 GGACCCACATCACTGTAGTTGCCATTCAGACCAGTGGGCCACTGCCTAGAAGCTGCAGCTGTATTGTC  
 TAAGGAGGGAATTGAATGTGAGGTAATAAATCTGCGGACCATCAGACCAATGGACATTGAAGCTATAGAA  
 GCCAGTGTGATGAAGACAAATCATCTCGTAACTGTGGAAGGAGGCTGGCCACAATTTGGAGTAGGAGCTG  
 AGATTTGTGCGAGAATTATGGAAGGCCCTGCATCAACTTCTTGATGCGCCTGCTGTTGAGTCACTGG  
 TGCTGATGTCCTATGCCTACGCAAAGATTCTAGAAGACAACCTCATACCTCAGGTCAAAGACATCATA  
 TTTGCAATAAAGAAGACTTTGAATATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR204827 representing NM\_001007620  
 Red=Cloning site Green=Tags(s)

MAAVAGLVRGPLRQASGLLKRRFHRSAPAAVQLTVREAINQGMDEELERDEKVFLLGEEVAQYDGAYKVS  
 RGLWKKYGDKRIIDTPISEMGFAGIAVGAAMAGLRPICEFMTFNFSMQAIDQVINSAAKTYMSAGLQPV  
 PIVFRGPNASAGVAAQHSQCFAAWYGHCPGLKVVSPWNSADAKGLIKSAIRDNDNPVVMLENELMYGVAF  
 ELPTEAQSKDFLIPIGKAKIERQGTHTITVVAHSRPVGHCL EAAAVLSKEGIECEVINLRTIRPMDIEAIE  
 ASYMKTNHLVTVEGGWPQFGVGAEICARIMEGPAFNFLDAPAVRVTGADVMPYAKILEDNSIPQVKDII  
 FAIKKTLNI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

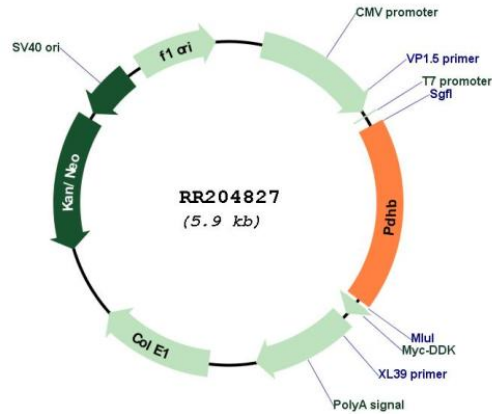
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001007620

<b>ORF Size:</b>	1077 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_001007620.1</a> , <a href="#">NP_001007621.1</a>
<b>RefSeq Size:</b>	1816 bp
<b>RefSeq ORF:</b>	1080 bp
<b>Locus ID:</b>	289950
<b>UniProt ID:</b>	<a href="#">P49432</a>
<b>Cytogenetics:</b>	15p14
<b>MW:</b>	39 kDa
<b>Gene Summary:</b>	The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO <sub>2</sub> , and thereby links the glycolytic pathway to the tricarboxylic cycle. [UniProtKB/Swiss-Prot Function]