

## Product datasheet for **RR206083**

### **P4ha1 (NM\_172062) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P4ha1 (NM_172062) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P4ha1
Synonyms:	PHalpha1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR206083 representing NM\_172062  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATCTGGGGTGTATTAATGATGGGGATTCTACTTCCTCAGTGTTCAGCCCATCCAGGCTTTTTACTT  
 CAATTGGTCAGATGACTGACTTGATCCATAATGAGAAAGACCTGGTGACGTCCTAAAAGATTACATTAA  
 AGCAGAAGAGGACAAGTTAGAGCAAATCAAAAAATGGGCAGAGAAGTTAGACCGCTAACAGTACAGCA  
 AAAAAAGATCCAGAAGGGTTTGTGCGACACCCTGTAATGCATTCAAGTTAATGAAACGCTGAACACCG  
 AGTGGAGTGAGTTGGAGAATCTGATCCTCAAGGATATGTCAGATGGCTTCATCTTAACCTGACCATTCA  
 GAGGCAGTACTTCCTAACGACGAAGACCAGGTTGGGGCTGCAAAAGCTTTGTTTCGTCGCAAGACACC  
 TACAACCTAGACACGAATACCATCTCGAAGGGCAATCTCCAGGAGTGAAACACAAGTCTTTTCTAACAG  
 CTGAGGACTGCTTTGAGTTGGGCAAAGTGGCCTATACAGAAGCAGATTATTACCACACAGAACTCTGGAT  
 GGAGCAGGCTCTGATGCAGCTGGAGGAGGAGAGATGTCTACTGTAGACAAAGTCTCGTTCCTAGATTAT  
 TTGAGCTATGCAGTGTACCAGCAGGGTGACCTGGATAAGGCACTTCTGCTTACAAAGAACTTCTTGAAC  
 TAGATCCTGAACACCAGAGACCAATGGTAACCTAGTATATTTGAGTATAAATGAGTAAAGAAAAAGA  
 TGCCAATAAGTCTGCTTCGGGTGACCAGTCTGATCAGAAAACACACAAAGAAAAAGGGGATTGCTGTG  
 GACTACCTGCCAGAGAGACAGAAGTACGAAATGCTGTGCCGTGGGGAGGGTATCAAAATGACTCCTCGGA  
 GACAAAAAAGGCTGTTCTGCCGTACCATGATGAAAACCGGAATCCTAAATTTATCCTGGCCCCAGCCAA  
 GCAGGAGGATGAGTGGGACAAGCCTCGCATCATTGTTTCCATGACATCATCTCAGATGCCGAGATTGAG  
 ATCGTCAAAGATTTAGCAAAGCCAGGCTGAGCCGAGCTACAGTACATGACCCTGAGACTGGGAAATGGA  
 CCACAGCACAGTACAGAGTATCTAAGAGTCTGGCTGCTGGCTATGAAGATCCTGTGGTCTCGAAT  
 TAATATGAGAATACAAGATCTCACAGGACTGGATGTTTCCACGGCAGAGGAATTACAGGTAGCAAATTA  
 GGAGTTGGAGGACAGTATGAACCCATTTTGACTTTGCCAGGAAAGACGAGCCGGATGCTTTTAGAGAGC  
 TTGGGACAGGAAATAGGATTGCCACGTGGCTCTTCTACATGAGTGATGTGTCTGCTGGAGGCGCTACTGT  
 TTTTCTGAAGTGGGAGCCAGTGTGGCCAAAAAGGCACTGCTGTCTTCTGGTACAATCTGTTTGCC  
 AGTGGAGAAGGAGATTACAGTACACGGCACGCAGCCTGTCTGTGCTAGTGGGAAACAAATGGGTATCCA  
 ACAAATGGCTCCATGAACGTGGACAGGAATTTCAAGGCCGTGTACCCTGTCAGAATTGGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206083 representing NM\_172062  
 Red=Cloning site Green=Tags(s)

MIWGVLMMGILLPQCSAHPGFFTSIQMTDLIHNEKDLVTSKDYIKAEEKLEQIKKWAELDRLTSTA  
 TKDPEGFVGHVNAFKLMKRLNTEWSELENLILKDMSDGFI SNLTIQRQYFPNDEDQVGAALKFRLQDT  
 YNLDNTISKGNLPGVKHKSFLTAEDCFELGKVAYTEADYYHTELWMEQALMQLEEGEMSTVDKVSVLDY  
 LSYAVYQQGDLKALLLTKLLELDPEHQRANGNLVYFEYIMSKEKDANKSASGDQSDQKTPKKKGIAV  
 DYLPERQKYEMLCRGEIKMTPRRQKRLFCRYHDGMRNPKFILAPAKQEDEWDKPRIIRFHDIISDAEIE  
 IVKDLAKPRLSRATVHDPETGKLTAAQYRVSKSAWLSGYEDPVVSRINMRIQDLTGLDVSTAEELQVANY  
 GVGQYEPHFDFARKDEPDAFRELGTGNRIATWLFYMSDVSAGGATVFPEVGASVWPKKGTAVFWYNLFA  
 SGEGDYSTRHAACPVLVGNKWSNKWLHERGQEFRRPCTLSELE

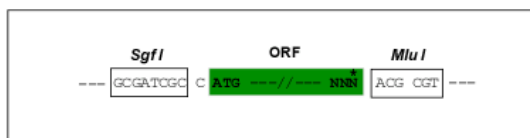
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_172062

**ORF Size:** 1602 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\\_172062.2](#), [NP\\_742059.2](#)
**RefSeq Size:** 2145 bp

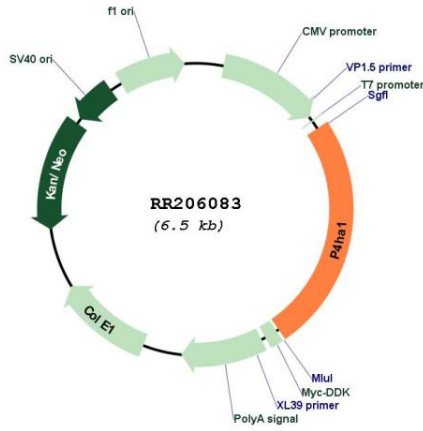
**RefSeq ORF:** 1605 bp

**Locus ID:** 64475

**UniProt ID:** [P54001](#)

**Cytogenetics:** 20q11  
**MW:** 60.9 kDa  
**Gene Summary:** catalyzes the hydroxylation of -X-Pro-Gly- triplets to form hydroxyproline [RGD, Feb 2006]

**Product images:**



Circular map for RR206083