

## Product datasheet for **RR205057**

### **P4ha2 (NM\_001108275) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P4ha2 (NM_001108275) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P4ha2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR205057 representing NM\_001108275  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCTCCAGGTGTTGGTGTGCTGATGTCCTGGTTTGGTGTCTGAGCTGGGTGCAGCGGAATTCT  
 TCACCTCCATTGGGCACATGACCGACCTGATTTATGCAGAGAAGGACCTCGTCCAGTCTCTGAAGGAGTA  
 CATCTGGCAGAGGAAGCCAAGCTCTCCAAGATTAAGAGCTGGGCCAGTAAGATGGAGGCCCTGACCCAGC  
 AAGTCAGCTGCTGACCCCGAGGGCTACCTGGCCATCCTGTGAACGCCTATAAGCTGGTGAAGCGATTGA  
 ACACAGACTGGCCTGCCCTGGGGACCTTGTCTCCAGGACGCGGCTGCAGGTTTTGTGGCTAACCTCTC  
 AGTTCCAGCGGCAGTTCTCCCACTGACGAGGACGAGTCTGGAGCTGCCAGGCCCTGATGCGACTTCAG  
 GACACCTACAACTGGATCCGGACATGATTTCTAGAGGGGAGCTCCAGGAACAAAGTACCAGGCCATGC  
 TGAGTGTGGATGACTGCTTTGGGATGGCCGCTCAGCTTACAACGAAGGAGACTATTACCACACCGTGTT  
 GTGGATGGAGCAGGTGCTGAAGCAGCTGGATGCTGGGGAGGAGGCCACTGTTACCAAATCCCTGGTGTG  
 GACTACCTGAGCTATGCCGTCTCCAGCTGGGTGACCTGCACCGTGCAGTGGAACTACCCGTCGCCCTGC  
 TCTCTTTGACCCGAGCCATGAACGAGCCGGAGGGAACCTGCGGTACTTTGAGCGGCTGTTAGAGGAAGA  
 AAGAGGAAAATCATTGTGCAATCAGACGGACGCTGGACTAGCATCGCAGGAAAATTGTACGAGAGGCCCT  
 GTAGACTACCTGCCCGAGAGGGACGTGTATGAGAGCCTGTGTCGAGGGGAGGGCATCAAAATGACACCCC  
 GGAGGCAGAAGAGGCTTTTCTGTAGATACCACCATGGAACAGAGTGCCACAGCTCCTCATTGCCCCCTT  
 CAAAGAGGAAGACGAGTGGGACAGCCACACATCGTCAGTACTATGATGTGATGTCGGACGAAGAGATC  
 GAGAGGATCAAGGAGATTGCTAAGCCAAAACCGCAGGAGCCACTGTGCGTGATCCCAAGACAGGTGCTC  
 TCACTGTTGTGCTACAGAGTTTCCAAAAGCTCCTGGCTAGAGGAAGACGATGACCCTGTTGTGGCCCG  
 AGTCAACCGCAGGATGCAGCACATCACAGGGCTGACGGTGAAGACTGCAGAGCTATTGCAGTTCGCAAAC  
 TACGGAATGGGGGACAGTACGAACCACACTTTGACTTCTCGAGGAGCGATGAGCGAGATGCTTTCAAGC  
 GTTTAGGGACTGGGAACCGTGTGGCCACATTTCTAAACTACATGAGTGTGTTGAAGCTGGTGGCCAC  
 TGTCTTCCCGACTTGGGAGCTGCGATTTGGCCCAAGAAGGGCACGGCTGATTTTGGTATAACCTTCTT  
 CGGAGCGGGGAAGGCGATTATCGAACGAGGCACGCGCCCTGCCCTGTGCTTGTGGCTGCAAGTGGGTCT  
 CCAATAAGTGGTCCATGAGCGAGGACAGGAGTCTTGAGGCCTGTGGGACAACGGAAGTCGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR205057 representing NM\_001108275  
 Red=Cloning site Green=Tags(s)

MKLQVLVLLMSWFGVLSWVQAEFFTSIGHMTDLIYAEKDLVQSLKEYILAEAKLSKIKSWASKMEALTS  
 KSAADPEGYL AHPVNA YKLVKRLNTDWPALGDLVLDAAAGFVANLSVQRQFFPTDEDESGAARALMRLQ  
 DTYKLDPDMI SRGELPGTKYQAML SVDDCFGMGRSAYNEGDDYHTVLWMEQVLKQLDAGEEATVTKSLVL  
 DYLSYAVFQLGDLHRAVEL TRRLSLDPSHERAGGNLRYFERLLEEERKSLSNQTDAGLASQENLYERP  
 VDYLPERDVYESLCRGEIKMTPRRQKRLF CRYHHGNRVPQLLIAPFKEEDEWDSPHIVRYDDVMSDEEI  
 ERIKEIAKPKLARATVRDPKTGVLTVASRVSKSSWLEEDDPVVARVNRMQHITGLTVKTAELLQVAN  
 YGMGGQYEPHFDFSRSDERDAFKRLGTGNRVATFLNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYNLL  
 RSGEGDYRTRHAACPVLVGCKWVSNKWFHERGQEFRLPCGTTEVD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

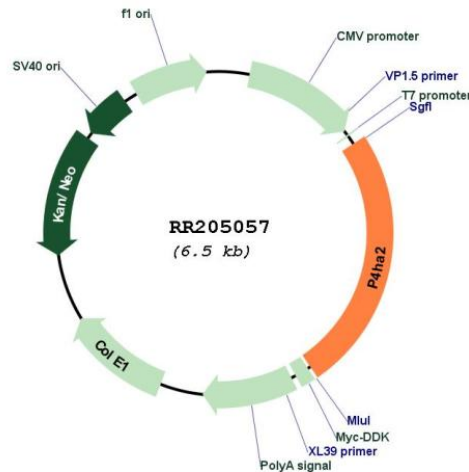
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

Plasmid Map:



ACCN: NM\_001108275

ORF Size: 1605 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\\_001108275.1](#), [NP\\_001101745.1](#)

**RefSeq Size:** 2316 bp

**RefSeq ORF:** 1608 bp

**Locus ID:** 360526

**Cytogenetics:** 10q22

**MW:** 60.9 kDa