

Product datasheet for **MR208567**

P4ha2 (NM_001136076) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P4ha2 (NM_001136076) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P4ha2
Synonyms:	AA407196; C76437; P4hl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208567 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTCCAGGTGTTGGTGTGGTGTGCTGATGTCCTGGTTCGGTGTCTGAGCTGGGTGCAGGCAG
 AATTCTTCACCTCCATTGGGCACATGACCGATCTGATTTACGCAGAGAAGGACCTGGTACAGTCTCTGAA
 GGAGTACATCCTTGTGGAGGAAGCCAAGCTCGCCAAGATTAAGAGCTGGGCCAGCAAGATGGAAGCCCTG
 ACCAGCAGATCAGCTGCCGACCCCGAGGGCTACCTGGCTCATCCTGTGAATGCCTACAAGCTGGTGAAGC
 GGTTGAACACAGACTGGCTGCACTGGGGGACCTGTCTTCAGGATGCTTCGGCAGGTTTTGTCGCTAA
 CCTCTCAGTTCAGCGCAATTCTTCCCACTGATGAGGACGAGTCTGGAGCTGCCAGAGCCCTGATGAGA
 CTTCAGGACACGTACAACTGGATCCGGACACGATTTCCAGAGGGGAACCTCCAGGCACAAAGTACCAGG
 CCATGCTGAGTGTGGACGACTGCTTTGGGCTGGGCCGCTCAGCTTACAATGAAGGAGACTATTACCATAC
 TGTGCTGTGGATGGAGCAGTACTGAAGCAGCTCGATGCTGGGGAGGAGGCCACTGTTACCAAGTCCCTG
 GTGCTGGACTACCTGAGCTATGCTGTCTTCCAACCTGGGTGACCTGCACCGTGTGTGGAACCTCACCCGCC
 GCCTGCTCTCTTGGACCAAGCCACGAACGAGCTGGAGGGAATCTGCGGTACTTTGAACGGTTGTTAGA
 GGAAGAAAGAGGGAAATCACTGTCAAATCAGACAGACGCCGACTGGCCACCCAGGAAAACCTGTACGAG
 AGGCCACGGACTACCTGCCTGAGAGGGATGTGTACGAGAGCCTGTGTGAGGGGAGGGCGTGAAACTGA
 CACCCCGGAGGCAGAAGAAGCTTTTCTGTAGGTACCATCATGAAACAGAGTGCCACAGCTCCTCATCGC
 CCCCTTCAAAGAGGAAGACGAGTGGGACAGCCACACATCGTCAGGACTATGATGTGATGTCCGACGAA
 GAAATCGAGAGGATCAAGGAGATTGCTAAGCCAAACTGCACGAGCCACTGTGCGTGACCCCAAGACAG
 GTGTCTCACTGTTGCCAGCTACAGAGTTTCCAAAAGCTCCTGGCTAGAGGAGGATGACGACCCCTGTTGT
 GGCCCGGTCAACCGGCCGATGCAACATATCACCGGGCTAACGGTGAAGACTGCAGAGCTATTGACGGTC
 GCAAACACGGAATGGGGGACAGTACGAACCACACTTTGACTTCTCAAGGCGACCCCTTGACAGCGGCC
 TCAAAACGGAGGCAATAGGTTAGCGACGTTTCTTAACTATATGAGCGATGTCGAAGCTGGTGGTCCAC
 CGTCTTCTGACTTGGGAGCTGCTATTTGGCCAAAGAAGGCACAGCTGATTCTGGTACAACCTTCTT
 CGCAGTGGGAAGGTGATTATCGGACGAGACATGCAGCCTGCCCTGTGCTTGTGGGCTGCAAGTGGGTCT
 CCAACAAGTGGTCCATGAGCGAGGACAGGAGTCTTAAGACCTGTGGAACAACGGAAGTTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208567 protein sequence
 Red=Cloning site Green=Tags(s)

MKLQVLVLLMSWFGVLSWVQAEFFTSIGHMTDLIYAEKDLVQSLKEYILVEEAKLAKIKSWASKMEAL
 TSRSAADPEGYL AHPVNA YKLVKRLNTDWPALGDLVLQDASAGFVANLSVQRQFFPTDEDESGAARALMR
 LQDITYKLDPDTISRGE LPGTKYQAML SVDDCFGLGRSAYNEGYYHTVLWMEQVLKQLDAGEEATVTKSL
 VLDYLSYAVFQLGDLHRAVELTRRLSLDPSHERAGGNLRYFERLLEEERKSLSNQTDAGLATQENLYE
 RPTDYLP ERDVYESLCRGEV KLT PRRQKLF CRYHHGNRVPQLLIAPFKEEWDSPHIVRYDVM SDE
 EIERIKEIAKPKLARATVRDPKTVLTVASYRVSKSSWLEEDDDPVVARVNRRMQHITGLTVKTAELLQV
 ANYGMGGQYEPHFDFSRPFDSGLKTEGNRLATFLNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYNLL
 RSGEGDYRTRHAACPVLVGCKWVSNKWFHERGQEF LRPCGTTEVD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001136076

ORF Size: 1608 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_001136076.2](#), [NP_001129548.1](#)

RefSeq Size: 2278 bp

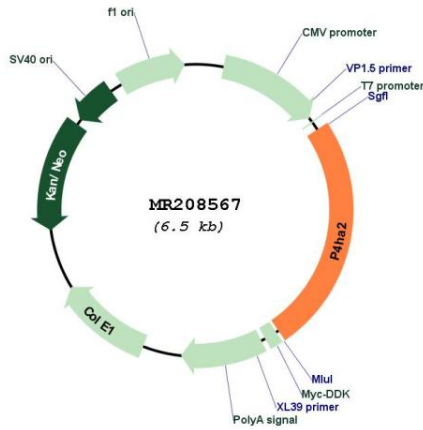
RefSeq ORF: 1608 bp

Locus ID: 18452

UniProt ID: [Q60716](#)

Cytogenetics: 11 32.13 cM
MW: 60.8 kDa
Gene Summary: Catalyzes the post-translational formation of 4-hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208567