

Product datasheet for **MR218159**

P4ha2 (NM_011031) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P4ha2 (NM_011031) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P4ha2
Synonyms:	AA407196; C76437; P4hl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218159 representing NM_011031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTCCAGGTGTTGGTGTGGTGTGCTGATGTCCTGGTTCGGTGTCTGAGCTGGGTGCAGGCAG
 AATTCTTCACCTCATTGGGCACATGACCGATCTGATTTACGCAGAGAAGGACCTGGTACAGTCTCTGAA
 GGAGTACATCCTTGTGGAGGAAGCCAAGCTCGCCAAGATTAAGAGCTGGGCCAGCAAGATGGAAGCCCTG
 ACCAGCAGATCAGCTGCCGACCCCGAGGGCTACCTGGCTCATCCTGTGAATGCCTACAAGCTGGTGAAGC
 GGTTGAACACAGACTGGCTGCACTGGGGGACCTGTCTTCAGGATGCTTCGGCAGGTTTTGTCGCTAA
 CCTCTCAGTTCAGCGCAATTCTCCCCACTGATGAGGACGAGTCTGGAGCTGCCAGAGCCCTGATGAGA
 CTTCAGGACACGTACAACTGGATCCGGACACGATTTCCAGAGGGGAACCTCCAGGCACAAAGTACCAGG
 CCATGCTGAGTGTGGACGACTGCTTTGGGCTGGGCCGCTCAGCTTACAATGAAGGAGACTATTACCATAC
 TGTGCTGTGGATGGAGCAGGTAAGCAGCTCGATGCTGGGGAGGAGGCCACTGTTACCAAGTCCCTG
 GTGCTGGACTACCTGAGCTATGCTGTCTTCCAACCTGGGTGACCTGCACCGTGTGTGGAACCTCACCCGCC
 GCCTGCTCTCTTGACCAAGCCACGAACGAGCTGGAGGGAATCTGCGGTACTTTGAACGGTTGTTAGA
 GGAAGAAAGAGGGAAATCACTGTCAAATCAGACAGACGCCGACTGGCCACCCAGGAAAACCTGTACGAG
 AGGCCACGGACTACCTGCCTGAGAGGGATGTGTACGAGAGCCTGTGTGAGGGGAGGGCGTGAAACTGA
 CACCCCGAGGCAGAAGAAGCTTTCTGTAGGTACCATCATGAAACAGAGTGCCACAGCTCCTCATCGC
 CCCCTTCAAAGAGGAAGACGAGTGGGACAGCCACACATCGTCAGGTAATGATGTGATGTCCGACGAA
 GAAATCGAGAGGATCAAGGAGATTGCTAAGCCAAACTGCACGAGCCACTGTGCGTGACCCCAAGACAG
 GTGCTCTACTGTTGCCAGCTACAGAGTTTCCAAAAGCTCTGGCTAGAGGAGGATGACGACCCCTGTTGT
 GGCCCGGTCAACCGGCCGATGCAACATATCACCGGGCTAACGGTGAAGACTGCAGAGCTATTGACGGTC
 GCAAACACGGAATGGGGGACAGTACGAACCACACTTTGACTTCTCAAGGAGCGATGAGCAAGATGCTT
 TCAAGCGTTTAGGGACTGGGAACCGTGTGGCCACGTTTCTAAACTACATGAGCGATGTGCAAGCTGGTGG
 TGCCACCGTCTTCTGACTTGGGAGCTGCTATTTGGCCCAAGAAGGGCACAGCTGTATTCTGGTACAAC
 CTTCTTCGAGTGGGGAAGGTGATTATCGGACGAGACATGCAGCCTGCCCTGTGCTTGTGGGCTGCAAGT
 GGGTCTCCAACAAGTGGTCCATGAGCGAGGACAGGAGTCTTAAGACCTTGTGGAACAACGGAAGTTGA
 T

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR218159 representing NM_011031
 Red=Cloning site Green=Tags(s)

MKLQVLVLLMSWFGVLSWVQAEFFTSIGHMTDLIYAEKDLVQSLKEYILVEEAKLAKIKSWASKMEAL
 TSSAADPEGYL AHPVNAYKL VKRLNTDWPALGDLVLQDASAGFVANLSVQRQFFPTDEDESGAARALMR
 LQDITYKLDPDITISRGELPGTKYQAML SVDDCFGLGRSAYNEGDIYHTVLWMEQVLKQLDAGEEATVTKSL
 VLDYLSYAVFQLGDLHRAVELTRRLSLDPSHERAGGNLRYFERLLEEERKSLSNQTDAGLATQENLYE
 RPTDYLPERDVYESLCRGEVKLTPRRQKLFRCRYHHGNRVPQLLIAPFKEEDEWSPHIVRYDVMSE
 EIERIKEIAKPKLARATVRDPKTVLTVASYRVS KSSWLEEDDDPVVARVNRRMQHITGLTVKTAELLQV
 ANYGMGGQYEPHFDFSRSDQDAFKRLGTGNRVATFLNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYN
 LLRSGEGRTRHAACPVLVGCKWVSNKWFHERGQEFRLPCGTTEVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

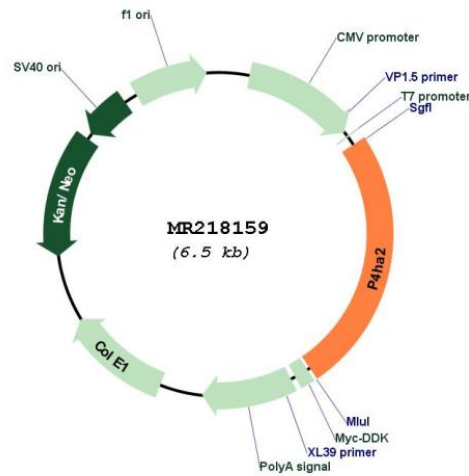
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_011031
ORF Size:	1611 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:	<ol style="list-style-type: none">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_011031.2 , NP_035161.2
RefSeq Size:	2284 bp
RefSeq ORF:	1614 bp
Locus ID:	18452
UniProt ID:	Q60716
Cytogenetics:	11 32.13 cM
MW:	61.5 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]