

Product datasheet for **MG218159**

P4ha2 (NM_011031) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P4ha2 (NM_011031) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P4ha2
Synonyms:	AA407196; C76437; P4hl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218159 representing NM_011031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTCCAGGTGTTGGTGTGGTGTGCTGATGTCCTGGTTCGGTGTCTGAGCTGGGTGCAGGCAG
 AATTCTTCACCTCATTGGGCACATGACCGATCTGATTTACGCAGAGAAGGACCTGGTACAGTCTCTGAA
 GGAGTACATCCTTGTGGAGGAAGCCAAGCTCGCCAAGATTAAGAGCTGGGCCAGCAAGATGGAAGCCCTG
 ACCAGCAGATCAGCTGCCGACCCCGAGGGCTACCTGGCTCATCCTGTGAATGCCTACAAGCTGGTGAAGC
 GGTTGAACACAGACTGGCTGCACTGGGGGACCTGTCTTCAGGATGCTTCGGCAGGTTTTGTCGCTAA
 CCTCTCAGTTCAGCGCAATTCTCCCCACTGATGAGGACGAGTCTGGAGCTGCCAGAGCCCTGATGAGA
 CTTCAGGACACGTACAACTGGATCCGGACACGATTTCCAGAGGGGAACCTCCAGGCACAAAGTACCAGG
 CCATGCTGAGTGTGGACGACTGCTTTGGGCTGGGCCGCTCAGCTTACAATGAAGGAGACTATTACCATA
 TGTGCTGTGGATGGAGCAGTACTGAAGCAGCTCGATGCTGGGGAGGAGGCCACTGTTACCAAGTCCCTG
 GTGCTGGACTACCTGAGCTATGCTGTCTTCCAACCTGGGTGACCTGCACCTGCTGTGGAACCTCACCCGCC
 GCCTGCTCTCTTGGACCAAGCCACGAACGAGCTGGAGGGAATCTGCGGTACTTTGAACGGTTGTTAGA
 GGAAGAAAGAGGGAAATCACTGTCAAATCAGACAGACGCCGGACTGGCCACCCAGGAAAACCTGTACGAG
 AGGCCACGGACTACCTGCCTGAGAGGGATGTGTACGAGAGCCTGTGTCGAGGGGAGGGCGTGAAACTGA
 CACCCCGGAGGCAGAAGAAGCTTTTCTGTAGGTACCATCATGAAACAGAGTGCCACAGCTCCTCATCGC
 CCCCTTCAAAGAGGAAGACGAGTGGGACAGCCACACATCGTCAGGTACTATGATGTGATGTCCGACGAA
 GAAATCGAGAGGATCAAGGAGATTGCTAAGCCAAACTGCACGAGCCACTGTGCGTGACCCCAAGACAG
 GTGCTCCTACTGTTGCCAGCTACAGAGTTTCCAAAAGCTCCTGGCTAGAGGAGGATGACGACCCCTGTTGT
 GGCCCGGTCAACCGGCCGATGCAACATACACCGGGCTAACGGTGAAGACTGCAGAGCTATTGCAGGTC
 GCAAACACGGAATGGGGGACAGTACGAACCACACTTTGACTTCTCAAGGAGCGATGAGCAAGATGCTT
 TCAAGCGTTTAGGGACTGGGAACCGTGTGGCCACGTTTCTAAACTACATGAGCGATGTCGAAGCTGGTGG
 TGCCACCGTCTTTCTGACTTGGGAGCTGCTATTTGGCCCAAGAAGGGCACAGCTGTATTCTGGTACAAC
 CTTCTTCGAGTGGGGAAGGTGATTATCGGACGAGACATGCAGCCTGCCCTGTGCTTGTGGGCTGCAAGT
 GGGTCTCCAACAAGTGGTCCATGAGCGAGGACAGGAGTCTTAAGACCTTGTGGAACAACGGAAGTTGA
 T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218159 representing NM_011031
 Red=Cloning site Green=Tags(s)

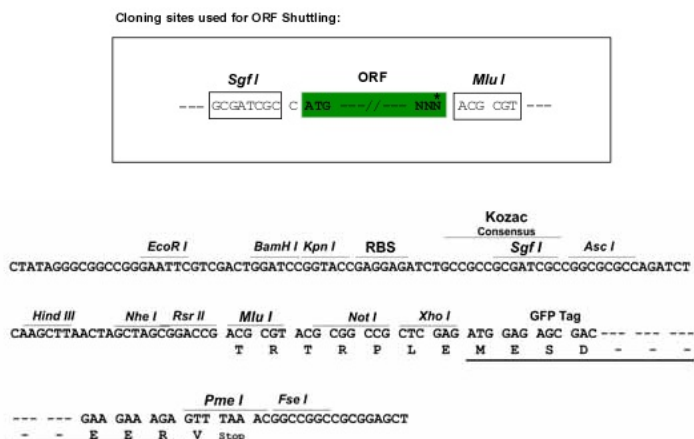
MKLQVLVLLMSWFGVLSWVQAEFFTSIGHMTDLIYAEKDLVQSLKEYILVEEAKLAKIKSWASKMEAL
 TSRSAADPEGYL AHPVNA YKLVKRLNTDWPALGDLVLQDASAGFVANLSVQRQFFPTDEDESGAARALMR
 LQDITYKLDPDTISRGE LPGTKYQAML SVDDCFGLGRSAYNEG DYHTVLWMEQVLKQLDAGEEATVTKSL
 VLDYLSYAVFQLGDLHRAVELTRRLSLDPSHERAGGNLRYFERLLEEERKSLSNQTDAGLATQENLYE
 RPTDYLP ERDVYESLCRGEV KLT PRRQK KLF CRYHHGNRVPQLLIAPFKEE DEWDSPHIVRYDVMSDE
 EIERIKEIAKPKLARATVRDPKTGVLTVASYRVSKSSWLEEDDDPVVARVNRRMQHITGLTVKTAELLQV
 ANYGMGGQYEPHFDFSR SDEQDAFKRLGTGNRVATFLNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYN
 LLRSGEDYRTRHAACPVLVGCKWVSNKWFHERGQEFLRPCGTTEVD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



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:
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

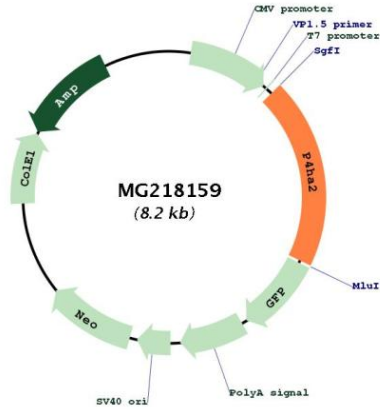
Locus ID: 18452

UniProt ID: [Q60716](#)

Cytogenetics: 11 32.13 cM

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 MG218159