

Product datasheet for **MG208567**

P4ha2 (BC018411) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P4ha2 (BC018411) 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:

>MG208567 representing BC018411
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTCCAGGTGTTGGTGTGGTGTGCTGATGTCCTGGTTCGGTGTCTGAGCTGGGTGCAGGCAG
 AATTCTTCACCTCCATTGGGCACATGACCGATCTGATTTACGCAGAGAAGGACCTGGTACAGTCTCTGAA
 GGAGTACATCCTTGTGGAGGAAGCCAAGCTCGCCAAGATTAAGAGCTGGGCCAGCAAGATGGAAGCCCTG
 ACCAGCAGATCAGCTGCCGACCCGAGGGCTACCTGGCTCATCCTGTGAATGCCTACAAGCTGGTGAAGC
 GGTTGAACACAGACTGGCTGCACTGGGGGACCTGTCTTCAGGATGCTTCGGCAGTTTTGTCGCTAA
 CCTCTCAGTTCAGCGCAATTCTTCCCCTACTGATGAGGACGAGTCTGGAGCTGCCAGAGCCCTGATGAGA
 CTTCAGGACACGTACAACTGGATCCGGACACGATTTCCAGAGGGGAACCTCCAGGCACAAAGTACCAGG
 CCATGCTGAGTGTGGACGACTGCTTTGGGCTGGGCCGCTCAGCTTACAATGAAGGAGACTATTACCATAC
 TGTGCTGTGGATGGAGCAGGTAAGCAGCTCGATGCTGGGGAGGAGGCCACTGTTACCAAGTCCCTG
 GTGCTGGACTACCTGAGCTATGCTGTCTTCCAACCTGGGTGACCTGCACCGTGTGTGGAACCTCACCCGCC
 GCCTGCTCTCTTGGACCAAGCCACGAACGAGCTGGAGGGAATCTGCGGTACTTTGAACGGTTGTTAGA
 GGAAGAAAGAGGGAAATCACTGTCAAATCAGACAGACGCCGACTGGCCACCCAGGAAAACCTGTACGAG
 AGGCCACGGACTACCTGCCTGAGAGGGATGTGTACGAGAGCCTGTGTGAGGGGAGGGCGTGAAACTGA
 CACCCCGGAGGCAGAAGAAGCTTTCTGTAGGTACCATCATGAAACAGAGTGCCACAGCTCCTCATCGC
 CCCCTTCAAAGAGGAAGACGAGTGGGACAGCCACACATCGTCAGGTAATGATGTGATGTCCGACGAA
 GAAATCGAGAGGATCAAGGAGATTGCTAAGCCAAACTGCACGAGCCACTGTGCGTGACCCCAAGACAG
 GTGTCTCACTGTTGCCAGCTACAGAGTTTCCAAAAGCTCCTGGCTAGAGGAGGATGACGACCCCTGTTGT
 GGCCCGGTCAACCGGCCGATGCAACATATCACCGGGCTAACGGTGAAGACTGCAGAGCTATTGCAGGTC
 GCAAACACGGAATGGGGGACAGTACGAACCACACTTTGACTTCTCAAGGCGACCCCTTGGACAGCGGCC
 TCAAACGGAGGGCAATAGGTTAGCGACGTTTCTTAACATATGAGCGATGTCGAAGCTGGTGGTCCAC
 CGTCTTCTGACTTGGGAGCTGCTATTTGGCCCAAGAAGGGCACAGCTGTATTCTGGTACAACCTTCTT
 CGCAGTGGGAAGGTGATTATCGGACGAGACATGCAGCCTGCCCTGTGCTTGTGGGCTGCAAGTGGGTCT
 CCAACAAGTGGTCCATGAGCGAGGACAGGAGTCTTAAGACCTGTGGAACAACGGAAGTTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208567 representing BC018411
 Red=Cloning site Green=Tags(s)
 MKLQVLVLLMSWFGVLSWVQAEFFTSIGHMTDLIYAEKDLVQSLKEYILVEEAKLAKIKSWASKMEAL
 TSRSAADPEGYL AHPVNAKLVKRLNTDWPALGDLVLQDASAGFVANLSVQRQFFPTDEDESGAARALMR
 LQDTYKLDPDTISRGE L PGTKYQAMLSVDDCFGLGRSAYNEGDIYHTVLWMEQVLKQLDAGEEATVTKSL
 VLDYLSYAVFQLGDLHRAVELTRRLSLDPSHERAGGNLRYFERLLEEERKSLSNQTDAGLATQENLYE
 RPTDYLP ERDVYESLCRGEVKLTPRRQKFLCRYHHGNRVPQLLIAPFKEEDEWDSPHIVRYDVM SDE
 EIERIKEIAKPKLARATVRDPKTVLTVASYRVSKSSWLEEDDPVVARVNRRMQHITGLTVKTAELLQV
 ANYGMGGQYEPHFDFSRPFDSGLKTEGNRLATFLNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYNLL
 RSGEGDYRTRHAACPVLVGCKWVSNKWFHERGQEF LRPCGTTEVD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	BC018411
ORF Size:	1607 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:	BC018411 , AAH18411
RefSeq Size:	2202 bp
RefSeq ORF:	1607 bp
Locus ID:	18452
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]