

## Product datasheet for **MG208564**

### **P4ha1 (NM\_011030) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	P4ha1 (NM_011030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P4ha1
Synonyms:	AL022634; P4ha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208564 representing NM\_011030  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGATCTGGGTTGTTTTAATGATGGCGATTCTACTTCCTCAGTCTTAGCCCATCCAGGTTTTTTACGT  
 CAATTGGTCAGATGACTGACTTGATCCATAATGAGAAAGACCTGGTGACATCACTAAAAGATTATATTAA  
 AGCAGAAGAGGACAAGTTAGAGCAAATCAAAAAATGGGCAGAGAAGTTAGACCGCTAACGAGTACAGCA  
 AAAAAAGACCCAGAGGGTTTGTGGGCATCCTGTAAACGCATTCAAGTTAATGAAACGTCTGAACACTG  
 AGTGGAGTGAGTTGGAGAATCTGATCCTCAAGGACATGTCGGATGGCTTCATCTTAACCTAACCTTCA  
 GAGGCAGTACTCCCTAATGATGAAGATCAGGTTGGAGCTGCTAAAGCTCTGTTTCGGCTGCAAGACACC  
 TACAATCTGGACAAAAACCATCTCAAAGGGGAATCTCCAGGAGTGAACATAAGTCTTTCCTGACAG  
 CCGAGGACTGCTTTGAGCTGGGCAAAGTGGCCTATACAGAGGCAGATTATTACCACACAGAACTGGGAT  
 GGAGCAGGCTCTGACGCAGCTGGAGGAGGAGCTGTCTACTGTAGATAAAGTCTCTGTTCTGGATTAC  
 CTGAGCTATGCGGTGTACCAGCAGGGAGACCTGGATAAAGCGCTTCTCCTACCAAGAAGCTTCTTGAGC  
 TAGATCCTGAACATCAGAGAGCTAATGGTAACTTAGTATATTTTGAATATATAATGAGTAAAGAAAAAGA  
 TGCCAATAAGTCAGCGTCGGGCGACCAATCTGATCAGAAAAGTGCACCAAGAAAAAGGGATAGCTGTG  
 GATTACCTGCCAGAGAGACAGAAGTACGAAATGCTGTGCCGTGGGGAGGGTATCAAAATGACTCCCCGGA  
 GACAGAAAAGACTGTTCTGCCGTACCATGATGGGAACCGGAATCCTAAGTTCATCCTGGCCCCAGCCAA  
 GCAGGAGGACGAGTGGGACAAGCCCCGATTATCCGTTTCCATGACATCATCTCTGACCGGAGATTGAG  
 ATGTCAAAGACTTAGCAAAACCAAGGCTGAGGCGAGCCACCATTCAAACCCAGTAAACAGGAGCCTTGG  
 AGACGGTACATTACAGAATTAGCAAAAGTGTGGCTGTCTGGCTACGAAGACCCTGTGGTATCCCGAAT  
 TAATATGAGAATAACAAGATCTCACAGGACTGGATGTTTCTACGGCCGAGGAGTTACAGGTAGCAAAATAC  
 GGAGTTGGAGGACAGTATGAGCCCCATTTTACTTTGCAAGGAAAGATGAGCCGGATGCCTTTAGAGAGC  
 TTGGGACAGGAAATAGGATTGCCACGTGGCTGTTCTATATGAGCGATGTGTCTGCTGGAGGAGCTACTGT  
 TTTTCTGAAGTGGGAGCCAGTGTGGCCAAAAAGGCACTGCTGTCTCTGGTATAATCTGTTTGCC  
 AGTGGGGAAGGAGATTACAGTACACGGCATGCAGCCTGTCCCGTCTAGTTGAAACAAATGGGTATCCA  
 ACAAATGGCTCCATGAACGTGGACAAGAATTCGAAGGCCGTGCACCCTGTCAGAATTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208564 representing NM\_011030  
 Red=Cloning site Green=Tags(s)

MIWVVLMMAILLPQSLAHPGFFTSIGQMTDLIHNEKDLVTSKLDYIKAEEDKLEQIKKWAEKLDRLTSTA  
 TKDPEGFVGHVNAFKLMKRLNTEWSELENLILKDMSDGFISNLTIQRQYFPNDEDQVGAALKALFRLQDT  
 YNLDTNTISKGNLPGVQHSFLTAEDCFELGKVAYTEADYYHTELWMEQALTQLEEGELSTVDKVSVDY  
 LSYAVYQQGDLKALLLTKLLELDPEHQRANGNLVYFEYIMSKEKDANKSASGDQSDQKTAPKKKGIIV  
 DYLPERQKYEMLCRGEIKMTPRRQKRLF CRYHDGNRNPKFILAPAKQEDEWDKPRIIRFHDIISDAEIE  
 IVKDLAKPRLRRATISNPVTGALETVHYRISKSAWLSGYEDPVVSRINMRIQDLTGLDVSTAEELQVANY  
 GVGQYEPHFDFARKDEPDARELGTGNRIATWLFYMSDVSAGGATVFPVGVASVWPKKGTAVFWYNLFA  
 SGEGDYSTRHAACPVLVGNKWSNKWLHERGQEFRRPCTLSELE

TRTRPLE - GFP Tag - V

**Restriction Sites:**

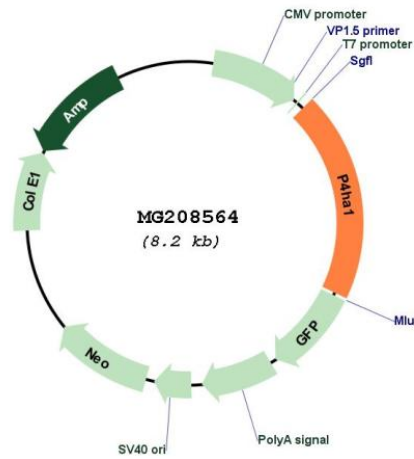
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_011030
<b>ORF Size:</b>	1602 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011030.2</a> , <a href="#">NP_035160.1</a>
<b>RefSeq Size:</b>	3006 bp
<b>RefSeq ORF:</b>	1605 bp
<b>Locus ID:</b>	18451
<b>UniProt ID:</b>	<a href="#">Q60715</a>
<b>Cytogenetics:</b>	10 B4
<b>Gene Summary:</b>	Catalyzes the post-translational formation of 4-hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins.[UniProtKB/Swiss-Prot Function]