

## Product datasheet for **MG216806**

### **Rnh1 (NM\_001172100) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rnh1 (NM_001172100) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnh1
Synonyms:	AW546468; C80305; RNH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216806 representing NM\_001172100  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCTTGACATCCAGTGTGAGCAGCTGAGTGTGCCCGTGGACAGAGCTCCTTCTCTGATCCAGC  
 AATACGAAGTGGTCAGGCTGGATGACTGTGGCCTCACTGAAGTGGGTGCAAAGACATCAGCTCAGCAGT  
 CCAAGCCAACCCTGCCCTGACAGAGCTCAGCCTTCGCACCAATGAACTGGGTGATGGCGGTGGGTCTG  
 GTGCTCCAGGGCCTGCAGAATCCCACTTGAAGATCCAGAAGCTGAGCCTTCAGAACTGCGGCTTGACGG  
 AGGCTGGCTGTGGGATCCTGCCTGGCATGCTGCGCTCTTGTCTACCCTGCGTGAGCTACATCTCAATGA  
 TAACCCTATGGGGGACGCAGGCCTGAAGCTGCTGTGAAGGACTTCAGGACCCCACTGCCGTCTTGAG  
 AAGCTTCAGTTGGAATACTGTAACCTCACAGCTACCAGCTGCGAGCCCTGGCTTCAGTGTCCGATTTCTGTGCCA  
 AAGCTGACTTTAAGGAGTAGTATTGAGCAACAACGACCTCCATGAACCTGGTGTCCGATTTCTGTGCCA  
 GGGCCTGAAGGACTCTGCCTGTCAACTGGAGTCACTCAAGCTGGAGAAGTGGTATCACAGCAGCCAAC  
 TGCAAGGATCTGTGCGATGTTGTGGCCTCAAAGCTTCGCTACAGGAACTGGACTTGAGCAGCAACAAGC  
 TAGGTAATGCAGGCATTGCAGCACTGTGCCAGGACTGTGCTTCCCAGCTGTAAGCTCAGGACTCTGTG  
 GCTCTGGGAATGTGATATCACTGCAGAGGGCTGCAAGGACCTGTGCCGTGTCTCAGAGCCAAGCAGAGC  
 CTGAAGGAACTCAGCCTTGCTTCCAATGAGCTGAAGGATGAGGGTGCCCGGCTGTGTGTGAGAGCCTAT  
 TAGAGCCTGGCTGTGAGTGGAGTCACTGTGGATAAAGACCTGTAGCCTCACAGCTGCCTCCTGTCCCTA  
 CTTCTGCTCCGTGTTGACAAAAGCCGTTCTCTGTTGGAGCTGCAATGAGCAGCAACCCACTGGGAGAC  
 GAGGGAGTCCAGGAGCTTTGCAAGGCCCTGAGCCAGCCAGATACAGTGTGCGTGAGCTTTGGTTGGGAG  
 ACTGTGATGTGACAAATAGTGGTTGCAGCAGCCTTGCCAATGTCCTGCTGGCCAACCGCAGCCTGAGGGA  
 ACTGGACCTCAGTAACTGCACTGGGGGCCAGGTGTCTGCAACTGCTGGAGAGCCTCAAACAGCCCC  
 AGCTGCACCCCTCAGCAGCTCGTCTGTATGACATTTACTGGACAAATGAGGTGGAAGAAGCAGCTTCGGG  
 CCCTGGAGGAGGAAAGCCCTTCCCTGAGGATCATTTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216806 representing NM\_001172100  
 Red=Cloning site Green=Tags(s)

MSLDIQCEQLSDARWTELLPLIQYEVVRLDDCGLTEVRCKDISSAVQANPALTELSLRTNELGDGGVGL  
 VLQGLQNPTCKIQKLSLQNCGLTEAGCGILPGMLRSLSTLRELHLNDNPMGDAGLKLCEGLQDPQCRL  
 KLQLEYCNLTATSCEPLASVLRVKADFKELVLSNNDLHEPGVRIILCQGLKDSACQLESKLENCGITAAN  
 CKDLCDVVASKASLQELDLSSNKLGNAGIAALCPGLLLPCKLRTLWLWECIDITAECKDLQVLRVRAKQS  
 LKELSLASNELKDEGARLLCESLLEPGCQLESLEWIKTCSLTAASCPYFCSVLTKSRSLLELQMSNPLGD  
 EGVQELCKALSQPDVLRRELWLGDCDVTNSGSSLANVLLANRSLRELDLNNCMGGPGVQLLESLKQP  
 SCTLQQLVLYDIYWTNEVEEQLRALEEERPSLRIS

**TRTRPLE** - GFP Tag - V

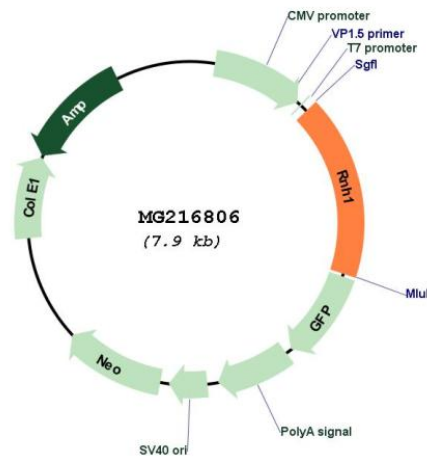
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001172100

ORF Size: 1368 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.

<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>	<u><a href="#">NM_001172100.1</a></u> , <u><a href="#">NP_001165571.1</a></u>
<b>RefSeq Size:</b>	1656 bp
<b>RefSeq ORF:</b>	1371 bp
<b>Locus ID:</b>	107702
<b>UniProt ID:</b>	<u><a href="#">Q91VI7</a></u>
<b>Cytogenetics:</b>	7 F5
<b>Gene Summary:</b>	Ribonuclease inhibitor which inhibits RNASE1, RNASE2 and ANG. May play a role in redox homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]