

## Product datasheet for **RG221839**

### **MASP1 (NM\_139125) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MASP1 (NM_139125) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MASP1
Synonyms:	3MC1; CRARF; CRARF1; MAP-1; MAP1; MAp44; MASP; MASP-3; MASP3; PRSS5; RaRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG221839 representing NM\_139125  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGTGGCTGCTTCTCTATTATGCTCTGTGCTTCTCCCTGTCAAAGGCTTCAGCCACACCGTGGAGC  
 TAAACAATATGTTTGGCCAGATCCAGTCGCCTGGTTATCCAGACTCCTATCCCAGTGATTAGAGGTGAC  
 TTGGAATATCACTGTCCCAGATGGGTTTCGGATCAAGCTTTACTTCATGCACTTCAAATTGGAATCTCC  
 TACCTTTGTGAATATGACTATGTGAAGGTAGAACTGAGGACCAGGTGCTGGCAACCTTCTGTGGCAGGG  
 AGACCACAGACACAGAGCAGACTCCCGCCAGGAGGTGGTCTCTCCCCTGGCTCCTTATGTCCATCAC  
 TTTCCGGTCAGATTTCTCCAATGAGGAGCGTTTCACAGGCTTTGATGCCACTACATGGCTGTGGATGTG  
 GACGAGTGCAAGGAGAGGGAGGACGAGGAGCTGTCTGTGACCACTACTGCCACAACATTGGCGGCT  
 ACTACTGCTCCTGCCGCTTCGGCTACATCTCCACACAGACAACAGGACCTGCCGAGTGGAGTGCAGTGA  
 CAACCTTCTCACTCAAAGGACTGGGGTGATCACCAGCCCTGACTTCCCAAACCTTACCCCAAGAGCTCT  
 GAATGCCTGTATACCATCGAGCTGGAGGAGGGTTTCATGGTCAACCTGCAGTTTGTAGGACATATTTGACA  
 TTGAGGACCATCCTGAGGTGCCCTGCCCTATGACTACATCAAGATCAAAGTTGGTCCAAAAGTTTTGGG  
 GCCTTTCTGTGGAGAGAAAGCCCAAGACCCATCAGCACCCAGAGCCACAGTGTCTCTGATCCTGTTCCAT  
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 CAGCTGTGACACAGGCTACAAGTGTGAAGGATAATGTGGAGATGGACACATCCAGATTGAGTGTCTG  
 AAGGATGGGACGTGGAGTAACAAGATCCCACCTGTAAAATTGTAGACTGTAGAGCCCAGGAGAGCTGG  
 AACACGGGCTGATCACCTTCTCTACAAGGAACAACCTCACCACATAACAAGTCTGAGATCAAATACTCCTG  
 TCAGGAGCCCTATTACAAGATGCTCAACAATAACACAGGTATATATACCTGTTCTGCCCAAGGAGTCTGG  
 ATGAATAAAGTATTGGGAGAAGCCTACCCACCTGCCTTCCAGAGTGTGGTCAGCCCTCCCGCTCCCTGC  
 CAAGCCTGGTCAAGAGGATCATTGGGGCCGAAATGCTGAGCCCGGCTCTTCCCGTGGCAGGCCCTGAT  
 AGTGGTGGAGGACACTTCGAGAGTGCCAAATGACAAGTGGTTTGGGAGTGGGGCCCTGCTCTCTGCGTCC  
 TGGATCCTCACAGCAGCTCATGTGCTGCGCTCCCAGCGTAGAGACACCACGGTGATACCAGTCTCCAAGG  
 AGCATGTACCCGCTACCTGGGCTTGCATGATGTGCGAGACAAATCGGGGCAGTCAACAGCTCAGCTGC  
 CCGAGTGGTGTCCACCCAGACTCAACATCCAAACTACAACCAGGATATAGCTCTGGTGCAGCTGCAG  
 GAGCCTGTGCCCTGGGACCCACGTTATGCCTGTCTGCCTGCCAAGGCTTGAGCCTGAAGGCCCGGCC  
 CCCACATGCTGGCCCTGGTGGCCGGCTGGGGCATCTCCAATCCCAATGTGACAGTGGATGAGATCATCAG  
 CAGTGGCACACGGACCTTGTGAGATGTCCTACAGTATGTCAAGTTACCCGTGGTGCCTCACGCTGAGTGC  
 AAACTAGCTATGAGTCCCGCTCGGGCAATTACAGCGTCACGGAGAACATGTTCTGTGCTGGCTACTACG  
 AGGGCGGCAAAGACACGTGCCTTGGAGATAGCGGTGGGGCCTTTGTATCTTTGATGACTTGAGCCAGCG  
 CTGGGTGGTCAAGGCCTGGTGTCTGGGGGGACCTGAAGAATGCGGCAGCAAGCAGGTCTATGGAGTC  
 TACACAAAGGTCTCCAATTACGTGGACTGGGTGTGGGAGCAGATGGGCTTACCACAAAGTGTGTGGAGC  
 CCCAGGTGGAACGG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG221839 representing NM\_139125  
Red=Cloning site Green=Tags(s)

```
MRWLLLYALCFSLSKASAHTVELNMFQGIQSPGYDPSYPSDSEVTWNITVPDGFRIKLYFMHFNLESS
YLCEYDYVKVETEDQVLATFCGRETTDTEQTPGQEVVLSPGSFMSITFRSDFSNEERFTGFDAHYMAVDV
DECKEREDEELSCDHYCHNYIGGYCSCRFGYILHTDNRTCRCVSDNLFQRTGVITSPDFPNPYPKSS
ECLYTIIELEEGFMVNLQFEDIIDHPEVPCPYDYIKIKVGPVGLGPFCEKAPPEISTQSHSVLILFH
SDNSGENRGWRLSYRAAGNECEPELQPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECL
KDGTSWNSKIPTCKIVDCRAPGELEHGLITFSTRNNLTTYKSEIKYSCQEPYKMLNNTGIYTCSAQGVW
MNVKLGRLPTCLPECGQPSRSLPSLVKRIIGGRNAEPLFPWQALIVVEDTSRVPNDKWFSGALLSAS
WILTAAHVLRQRDRTTIPVSKHEVTYVYGLHDVDRKSGAVNSSAARVVLHPDFNIQNYNHDIALVQLQ
EPVPLGPHVMPVCLPRLEPEGPAPHMLGLVAGWGISNPNTVDEIISGTRTLDVLYQVYKLPVPPHAEAC
KTSYESRSGNYSVTENMFCAGYEGGKDTCLGDSGGAFVIFDDLQSRVWVQGLVSWGGPEECGSKQVYVYG
YTKVSNYVDWVWEQMGLPQSVVEPQVER
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_139125

**ORF Size:** 2184 bp

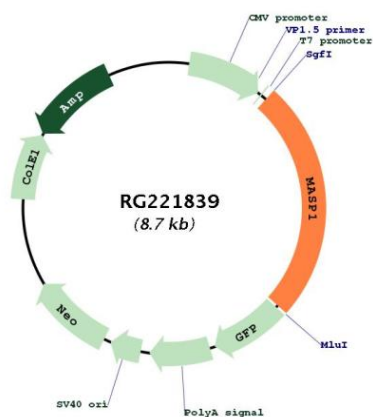
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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_139125.2</a> , <a href="#">NP_624302.1</a>
<b>RefSeq Size:</b>	4137 bp
<b>RefSeq ORF:</b>	2187 bp
<b>Locus ID:</b>	5648
<b>UniProt ID:</b>	<a href="#">P48740</a>
<b>Cytogenetics:</b>	3q27.3
<b>Domains:</b>	CCP, CUB, Tryp_SPc, EGF_CA
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	Complement and coagulation cascades
<b>Gene Summary:</b>	<p>This gene encodes a serine protease that functions as a component of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate and adaptive immune response. The encoded protein is synthesized as a zymogen and is activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. This protein is not directly involved in complement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP-2. The encoded protein is also able to cleave fibrinogen and factor XIII and may may be involved in coagulation. A splice variant of this gene which lacks the serine protease domain functions as an inhibitor of the complement pathway. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]</p>

Product images:



Circular map for RG221839