

## Product datasheet for **MC220735**

### Masp1 (NM\_008555) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Masp1 (NM_008555) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Masp1
Synonyms:	AW048060; CCP11; Crarf; Masp1/3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220735 representing NM\_008555  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGTTCTGTCTTTCTGGCGCTCCTCCTCTACCACGCTCTGTGCCTCGCCCTGCCGGAGTTTCAG  
 CCCATACCGTGGAGCTAACGAAATGTTTGGTCAGATCCAGTCACCTGGCTATCCAGATTCTATCCAAG  
 TGA CTCTGAGGTGACATGGAATATTACTGTCCCGAGGGGTTTCGAATCAAGCTTTACTTCATGCACTTC  
 AACTTGAATCCTCCTATCTTTGTGAATACGACTATGTGAAGGTAGAAACAGAAGACCAGGTGCTGGCAA  
 CCTTTTGTGGCAGGGAGACCACCATACTGAGCAGACCCCGCCAGGAAGTGGTTCTTTTCGCTGGCAC  
 CTTTATGTCTGCACTTTCCGGTCAGATTTCTCCAATGAGGAACGATTACAGGCTTCGACGCCACTAC  
 ATGGCTGTAGATGGATGAGTGAAGGAGAGGAAGATGAAGAGCTGCTGTGACCACTACTGTCACA  
 ACTACATCGTGGCTACTACTGCTCCTGCCGCTTTGGCTACATCCTCCACACAGACAACAGGACCTGCCG  
 AGTGAATGCAGCGCAATCTCTTTACCCAGAGGACAGGCACAATCACCAGCCCCGATTACCCCAACCTT  
 TATCCCAAGAGCTCAGAAATGTTCTATACCATTGACCTGGAGGAAGGCTTCATGGTCAGCCTGCAGTTTG  
 AGGACATTTTTGACATTGAAGACCATCCTGAGGTGCCCTGTCCCTATGACTACATTAAGATTAAGCTGG  
 TTCAAAGTATGGGGTCCCTTCTGTGGAGAGAAATCCCAGAACCAATCAGCACCCAGACTCACAGTGTG  
 CAGATCCTATCCGACGCGACAACCTCAGGAGAGAACCGAGGCTGGAGGCTCTCCTACAGAGCGGCAGGAA  
 ATGAGTGCCCAAAGCTACAGCCTCCTGTGTACGGGAAAATCGAGCCCTCGCAGGCCGTGATTCTTCAA  
 AGACCAAGTGTCTGTGACACAGGCTACAAAGTCTAAAGGATAACGAGGTGATGGACACATTC  
 CAAATTGAGTGTCTGAAGGACGGTGCATGGAGTAACAAGATCCCCACCTGTAATAATTGTAGACTGGGAG  
 CTCTGTCAGGGCTGAAACATGGGCTAGTAACCTTCTCCACAGAACAACCTCACCACATACAAATCTGA  
 GATAAGGTACTCCTGCCAACAGCCCTATTACAAGATGCTTACAATACCACAGGTGATATACGTGTTCT  
 GCTCATGGGACCTGGACGAACGAAGTGCTCAAGAGAAGCCTGCCACCTGCCCTTCCAGTGTGTGGTGTCC  
 CCAAGTCTCCCGGAAGCAGATCTCCAGGATCTTCAATGGCCGCCAGCCAGAAGGGTACCATGCCATG  
 GATTGCCATGCTGTACACCTGAACGGACAACCCTTCTGTGGGGTAGCCTTTTAGGTTCCAACCTGGGTT  
 TTGACAGTGTCTACTGCCTCCACCAGTCACTTGATCCAGAAGAACAACCCTACACAGCTCATACTTGC  
 TCAGCCCTTCTGACTTCAAATATCATGGGAAAGCACTGGAGACGGCGCTCAGACGAAGACGAGCAGCA  
 CCTGCATGTAAGCGCACACGCTCCACCCACTGTACAACCCAGCACGTTTGAGAACGACCTTGGTCTG  
 GTGGAAGTGTGAGAGAGCCGAGGCTGAACGACTTTGTGATGCCTGTCTGTCTGCCTGAGCAGCCTTCCA  
 CTGAAGGAACCATGGTCACTCGTCACTGAGTGGCTGGGGGAAGCAGTTCTTACAGAGTTTCCAGAGAACCTGAT  
 GGAGATTGAAATCCCAATTGAAACTCTGACACCTGCCAGGAGGCTATACCCCATGGAAGAAGAAAGTG  
 ACCAAGGACATGATCTGTGCCGGAGAAAAGGAAGGGGGGAAAGATGCCTGTGCTGGTACTCTGGAGGCC  
 CTATGGTGACCAAAGATGAGAGAGAGACCAATGGTACCTGGTGGGCGTGGTGTCTGGGGTGAAGATTG  
 CGGGAAGAAGATCGCTATGGAGTCTATTCTTACATCTATCCCAACAAGGACTGGATCCAGAGGATCACT  
 GGGGTGAGGA**ACTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008555

**Insert Size:** 2115 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<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_008555.2</a></u> , <u><a href="#">NP_032581.2</a></u>
<b>RefSeq Size:</b>	2752 bp
<b>RefSeq ORF:</b>	2115 bp
<b>Locus ID:</b>	17174
<b>UniProt ID:</b>	<u><a href="#">P98064</a></u>
<b>Cytogenetics:</b>	16 B1
<b>Gene Summary:</b>	<p>Functions in the lectin pathway of complement, which performs a key role in innate immunity by recognizing pathogens through patterns of sugar moieties and neutralizing them. The lectin pathway is triggered upon binding of mannan-binding lectin (MBL) and ficolins to sugar moieties which leads to activation of the associated proteases MASP1 and MASP2. Functions as an endopeptidase and may activate MASP2 or C2 or directly activate C3 the key component of complement reaction. Isoform 2 may have an inhibitory effect on the activation of the lectin pathway of complement or may cleave IGFBP5. Also plays a role in development. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and has multiple coding region differences, compared to variant 1. The resulting protein (isoform 2) has a distinct C-terminus and is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>