

Product datasheet for **SC123994**

MASP1 (NM_001879) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MASP1 (NM_001879) Human Untagged Clone
Tag:	Tag Free
Symbol:	MASP1
Synonyms:	3MC1; CRARF; CRARF1; MAP-1; MAP1; MAp44; MASP; MASP-3; MASP3; PRSS5; RaRF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC123994 sequence for NM_001879 edited (data generated by NextGen Sequencing)

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ATGAGGTGGCTGCTTCTATTATGCTCTGTGCTTCTCCCTGTCAAAGGCTTCAGCCCAC
ACCGTGGAGCTAAACAATATGTTTGGCCAGATCCAGTCGCTGGTTATCCAGACTCCTAT
CCCAGTGATTCAGAGGTGACTTGAATATCACTGTCCAGATGGGTTTCGGATCAAGCTT
TACTTCATGCACCTCAACTTGAATCCTCCTACCTTTGTGAATATGACTATGTGAAGGTA
GAAACTGAGGACCAGGTGCTGGCAACCTTCTGTGGCAGGAGACCACAGACACAGAGCAG
ACTCCCGGCCAGGAGGTGCTCCTCCTCCCTGGCTCCTTCATGTCCATCACTTCCGGTCA
GATTTCTCCAATGAGGAGCGTTTCACAGGCTTTGATGCCCACTACATGGCTGTGGATGTG
GACGAGTGCAAGGAGAGGGAGGACGAGGAGCTGCTGTGACCACTACTGCCACAACACTAC
ATTGGCGGCTACTACTGCTCCTGCCGTTTCGGCTACATCCTCCACACAGACAACAGGACC
TGCCGAGTGGAGTGCAGTGACAACCTTCTCACTCAAAGGACTGGGGTGATCACCAGCCCT
GACTTCCCAAACCCTTACCCCAAGAGCTCTGAATGCCTGTATACCATCGAGCTGGAGGAG
GGTTTCATGGTCAACCTGCAGTTTGAGGACATATTTGACATTGAGGACCATCCTGAGGTG
CCCTGCCCTATGACTACATCAAGATCAAAGTTGGTCCAAAAGTTTTGGGGCCTTTCTGT
GGAGAGAAAGCCCAGAACCATCAGCACCCAGAGCCACAGTGTCTGATCCTGTTCAT
AGTGACAACCTCGGGAGAGAACCAGGGCTGGAGGCTCTCATACAGGGCTGCAGGAAATGAG
TGCCCAAGACTACAGCCTCCTGTCCATGGGAAAATCGAGCCCTCCCAAGCCAAGTATTTT
TTCAAAGACCAAGTGCTCGTCAGCTGTGACACAGGCTACAAAGTGTGAAGGATAATGTG
GAGATGGACACATTCCAGATTGAGTGTCTGAAGGATGGGACGTGGAGTAACAAGATTTCC
ACCTGTAAAATTTAGACTGTAGAGCCCCAGGAGAGCTGGAACACGGGCTGATCACCTTC
TCTACAAGGAACAACCTACCACATAACAAGTCTGAGATCAAATACTCCTGTCAGGAGCCC
TATTACAAGATGCTCAACAATAACACAGGTATATATACCTGTTCTGCCAAGGAGTCTGG
ATGAATAAAGTATTGGGGAGAAGCCTACCCACCTGCCTTCCAGTGTGTGGGCTCCCCAAG
TTCTCCCGGAAGCTGATGGCCAGGATCTTCAATGGACGCCAGCCAGCCAGAAAGGCACCACT
CCCTGGATTGCCATGCTGTACACCTGAATGGGCAGCCCTTCTGCGGAGGCTCCCTTCTA
GGCTCCAGCTGGATCGTGACCGCCGACACTGCCTCCACCAGTCACTCGATCCGGAAGAT
CCGACCCTACGTGATTGACTTGTCTAGCCCTTCTGACTTCAAATCATCCTGGGCAAG
CATTGGAGGCTCCGGTCAGATGAAAATGAACAGCATCTCGGCGTCAAACACCACTCTC
CACCCCAAGTATGATCCCAACACATTGAGAATGACGTGGCTCTGGTGGAGCTGTTGGAG
AGCCCAGTGTGAATGCCTTCGTGATGCCATCTGTCTGCCTGAGGGACCCAGCAGGAA
GGAGCCATGGTCAATCGTCAGCGGCTGGGGGAAGCAGTTCTTGCAAAGTTCCAGAGACC
CTGATGGAGATTGAAATCCCGATTGTTGACCACAGCACCTGCCAGAAGGCTTATGCCCCG
CTGAAGAAGAAAGTGACCAGGGACATGATCTGTGCTGGGGAGAAGGAAGGGGAAAGGAC
GCCTGTGCGGGTACTCTGGAGGCCCATGGTGACCTGAATAGAGAAAGAGGCCAGTGG
TACCTGGTGGGCACTGTGCTCCTGGGGTGTGACTGTGGGAAGAAGGACCCTACGGAGTA
TACTCTTACATCCACCACAACAAGGACTGGATCCAGAGGGTACCAGGAGTGAAGAACTGA

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Clone variation with respect to NM_001879.5

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001879 unedited</p> <pre> CCAAATTTTGTAAACGACTCACTATAGGGCGGCNCGCGATTTCGGCACGAGACCGGGGCAC GAGCTCACAGGCAAGTCAAGCTGGGAGGACCAAGGCCGGGAGCCGGGAGCACCCAAGGC AGGAAAATGAGGTGGCTGCTTCTCTATTATGCTCTGTGCTTCTCCCTGTCAAAGGCTTCA GCCCACACCGTGGAGCTAAACAATATGTTTGGCCAGATCCAGTCGCCTGGTTATCCAGAC TCCTATCCCAGTGATTCAGAGGTGACTTGAATATCACTGTCCCAGATGGGTTTCGGATC AAGCTTTACTTTCATGCACTTCAACTTGGAAATCCTCTACCTTTTGTGAATATGACTATGTG AAGGTAGAAACTGAGGACCAGGTGCTGGCAACCTTCTGTGGCAGGAGACCACAGACACA GAGCAGACTCCCCGGCCAGGAGGTGGTCCTCTCCCTGACTCCTTTCATGTCCATCACTTTC CGGTCCAGATTTCTCCAATGAGGAGCGTTTACAGGCTTTGATGCCCACTACATGGCTGTG GATGTGGACGAGTGCAAGGAGAGGGAGGACGAGGAGCTGTCTGTGACCCCTACTGCCAC AACTACATTGGCGGGCTACTACTGCTCCTGCCGCTTCGGCTACATTCTCCAACAGAAC ACAAGACCTGCCAAGTGGATGCCATGGCAACCCTCTCACTTCAAGGACTGGGGTGGAT CACAGCCCTGACTTCCCAAACCTAACCCAAAAGCCTTGAATCCTTGTACCCTCAAG CTGAGGGAGGTTTCAGGGGCAAACCGGAAGTGTAGAAAATTTTTGACATTGGAGGCACAC CCGGAGGGGCCCCGGCCGAGGAAATCTTAAGATCAAAAGTTGGGCCAAAATTTGGGGCCC TTTTTTGGGAAAAAACCTAAACACATCAGCACATAAACCAGGTTCT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001879 unedited</p> <pre> TCCGGGCCAGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGG AAACAGCTATGACCGCGCCGAATCTAGAGCCGAGTTTTTTTTTTTTTTTTTTTGTCTGT TTTACTTTTTTAGGGATGAGGGTGAAGATTGATGTTGGGCAAGTTGCACGGTGGCAAAAA AGCATACAGCATTAAAGGCAGATGGAGATGGTCAAGTTGAGGGGAGAGGTGTGTCACT GATCAATGCTAAGACCCAGGCAGGGTTTGAAGAGAGCTTCGTCTGCCTGGTAGACACA TCGACCTTCTGCTAAGGTGCATTTATTGAAAACAGTGTATGCTATGCACTCTGTTAAGTG CTATGCATCTATTAGTTAATCTTTTCTCATCAGACTTTTACGAGGTAGGTAAGGTATAG CGTTTCCATCTTATGAAGAACTGAAGTTCGAAGAGATGAAGTCACTGCCAGCACTGC AACTAGTAAGTGATAGAGCCTGGATTCGGCCTGTGTTCTGACCACTCTCTTGTGCATC TCTTTAAAGAGAGTGGAAAGGGGTGAAGATACCTGCTCTATTGCCAGTAATGGATAGG CCCAAGGAGGGTGAATGGGAGGAAAGAAAGTGAAACTACGTGCTGCCCGAGGGGAGCC ACCAACGGAGAATGGCCGCACCACCTGGGGCACTTGGGCCCAAGAACCCTGTGCTTTG GTAGCTACATAATAAAGCG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001879
Insert Size:	3000 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).
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:

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: [NM_001879.4](#), [NP_001870.3](#)

RefSeq Size: 4353 bp

RefSeq ORF: 2100 bp

Locus ID: 5648

UniProt ID: [P48740](#)

Cytogenetics: 3q27.3

Protein Families: Druggable Genome, Protease

Protein Pathways: Complement and coagulation cascades

Gene Summary: 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 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1. This isoform (1) is referred to as MASP1 in the literature.