

Product datasheet for SC302611

MASP1 (NM_001031849) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MASP1 (NM_001031849) 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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001031849 edited ATGAGGTGGCTGCTTCTCTATTATGCTCTGTGCTTCTCCCTGTCAAAGGCTTCAGCCCAC ACCGTGGAGCTAAACAATATGTTTGGCCAGATCCAGTCGCCTGGTTATCCAGACTCCTAT CCCAGTGATTCAGAGGTGACTTGAATATCACTGTCCCAGATGGGTTTCGGATCAAGCTT TACTTCATGCACTTCAACTTGAATCCTCCTACCTTTGTGAATATGACTATGTGAAGGTA GAAACTGAGGACCAGGTGCTGGCAACCTTCTGTGGCAGGGAGACCACAGACACAGAGCAG ACTCCCGGCCAGGAGGTGGTCTCTCCCTGGCTCCTTCATGTCCATCACTTTCCGGTCA GATTTCTCCAATGAGGAGCGTTTACAGGCTTTGATGCCCACTACATGGCTGTGGATGTG GACGAGTGCAAGGAGAGGGAGGACGAGGAGCTGTCTGTGACCACTACTGCCACAACACTAC ATTGGCGGCTACTACTGCTCCTGCCGCTTCGGCTACATCCTCCACACAGACAACAGGACC TGCCGAGTGGAGTGCAGTGACAACCTCTTCACTCAAAGGACTGGGGTGATCACCAGCCCT GACTTCCCAAACCTTACCCCAAGAGCTCTGAATGCCTGTATACCATCGAGCTGGAGGAG GGTTTCATGGTCAACCTGCAATTTGAGGACATATTTGACATTGAGGACCATCCTGAGGTG CCCTGCCCTATGACTACATCAAGATCAAAGTTGGTCCAAAAGTTTTGGGGCCTTTCTGT GGAGAGAAAGCCCAGAACCCATCAGCACCCAGAGCCACAGTGTCTGATCCTGTTCAT AGTGACAACCTCGGGAGAGAACCAGGGGCTGGAGGCTCTCATACAGGGCTGCAGGAAATGAG TGCCCAGAGCTACAGCCTCCTGTCCATGGGAAAATCGAGCCCTCCAAGCCAAGTATTTCT TTCAAAGACCAAGTGTCTGTGACAGGCTACAAGTGTGAAGGATAATGTG GAGATGGACACATTCCAGATTGAGTGTCTGAAGGATGGGACGTGGAGTAACAAGATTCCT ACCTGTAAAAAATGAAATCGATCTGGAGAGCGAACTCAAGTCAGAGCAAGTGACAGAG TGA
Restriction Sites:	Please inquire
ACCN:	NM_001031849
Insert Size:	1300 bp



[View online »](#)

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_001031849.1 , NP_001027019.1
RefSeq Size:	2072 bp
RefSeq ORF:	1143 bp
Locus ID:	5648
UniProt ID:	P48740
Cytogenetics:	3q27.3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	<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 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> <p>Transcript Variant: This variant (3) differs in the 3' UTR and 3' coding region, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1. This isoform (3) is referred to as MAp44 or MAP1 in the literature.</p>