

## Product datasheet for **SC124235**

### MASP2 (NM\_006610) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MASP2 (NM_006610) Human Untagged Clone
Tag:	Tag Free
Symbol:	MASP2
Synonyms:	MAP-2; MAP19; MASP-2; MASP1P1; sMAP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006610, the custom clone sequence may differ by one or more nucleotides

```
ATGAGGCTGCTGACCCTCTGGGCCTTCTGTGTGGCTCGGTGGCCACCCCTTGGGCCGAAGTGGCCTG
AACCTGTGTTTCGGGCGCCTGGCATCCCCGGCTTCCAGGGGAGTATGCCAATGACCAGGAGCGGCGCTG
GACCCTGACTGCACCCCGGCTACCGCTGCGCCTCTACTTCACCCACTTCGACCTGGAGCTCTCCAC
CTCTGCGAGTACGACTTCGTCAAGCTGAGCTCGGGGGCCAAGGTGCTGGCCACGCTGTGCGGGCAGGAGA
GCACAGACACGGAGCGGGCCCTGGCAAGGACACTTTCTACTCGTGGGTCCAGCCTGGACATTACCTT
CCGCTCCGACTACTCCAACGAGAAGCCGTTACGGGGTTCGAGGCCTTCTATGCAGCCGAGGACATTGAC
GAGTGCCAGGTGGCCCCGGGAGAGGCGCCACCTGCGACCACCTGCCACAACCACCTGGGCGGTTTCT
ACTGCTCTGCCGCGCAGGCTACGTCTGCACCGTAACAAGCGCACCTGCTCAGCCCTGTGCTCCGGCCA
GGTCTTACCCAGAGGTCTGGGGAGCTCAGCAGCCCTGAATACCCACGGCCGTATCCAAACTCTCCAGT
TGCACTTACAGCATCAGCCTGGAGGAGGGTTCAGTGTCATTCTGGACTTTGTGGAGTCTTCGATGTGG
AGACACACCCTGAAACCCTGTGTCCCTACGACTTCTCAAGATTCAAACAGACAGAGAAGAACATGGCCC
ATTCTGTGGGAAGACATTGCCCCACAGGATTGAAACAAAAGCAACACGGTGACCATCACCTTTGTGACA
GATGAATCAGGAGACCACACAGGCTGGAAGATCCACTACAGGACACAGCGCAGCCTTGCCCTTATCCGA
TGGCGCCACCTAATGGCCACGTTTACCTGTGCAAGCCAAATACATCCTGAAAGACAGCTTCTCCATCTT
TTGCGGAGACTGGCTATGAGCTTCTGCAAGGTCACTTGCCCTGAAATCCTTTACTGCAGTTTGTGAGAAA
GATGGATCTTGGGACCGGCAATGCCCGCGTGCAGCATTGTTGACTGTGGCCCTCCTGATGATCTACCCA
GTGGCCGAGTGGAGTACATCACAGGTCTGGAGTGACCACCTACAAAGCTGTGATTACGTACAGCTGTGA
AGAGACCTTACACAATGAAAGTGAATGATGGTAAATATGTGTGTGAGGCTGATGGATTCTGGACGAGC
TCCAAAGGAGAAAAATCACTCCAGTCTGTGAGCCTGTTTGTGGACTATCAGCCCGACAACAGGAGGGC
GTATATATGGAGGGCAAAGGCCAAAACCTGGTGATTTTCCCTTGGCAAGTCCTGATATTAGGTGGAACAC
AGCAGCAGGTGCACTTTTATATGACAACCTGGGTCTAACAGCTGCTCATGCCGTCTATGAGCAAAAACAT
GATGCATCCGCCCTGGACATTGCAATGGGCACCCTGAAAAGACTATCACCTCATTATACACAAGCCTGGT
CTGAAGCTGTTTTTATACATGAAGGTTATACTCATGATGCTGGCTTTGACAATGACATAGCACTGATTAA
ATTGAATAACAAAGTTGTAATCAATAGCAACATCACGCCATTTTGTCTGCCAAGAAAAGAAGCTGAATCC
TTTATGAGGACAGATGACATTGGAAGTGCATCTGGATGGGGATTAACCCAAAGGGGTTTTCTTGCTAGAA
ATCTAATGTATGTCGACATACCGATTGTTGACCATCAAAAATGTACTGCTGCATATGAAAAGCCACCCTA
TCCAAGGGGAAGTGAAGTGAACATGCTTTGTGCTGGCTTAGAAAAGTGGGGCAAGGACAGCTGCAGA
GGTGACAGCGGAGGGGCACTGGTGTCTAGATAGTGAACAGAGAGGTGGTTTTGTGGGAGGAATAGTGT
CCTGGGGTTCCATGAATTGTGGGAAGCAGGTCAGTATGGAGTCTACACAAAAGTTATTAACATATATTCC
CTGGATCGAGAACATAATTAGTGATTTTTAA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006610 unedited  
 GGGGGNNGGGGGCCNNNNNNNNNNNGCTTGTTACATTTGTATACGACTCACTAT  
 AGGCGGCCCGAAATCGGCACCAGGCCAGGCCAGCTGGACGGGCACACCATGAGGCTGCT  
 GACCTCTGGGCCTTCTGTGTGGCTCGGTGGCCACCCCTTGGGCCCGAAGTGGCTGA  
 ACCTGTGTTGGGGCCCTGGCATCCCCGGCTTCCAGGGGAGTATGCCAATGACCAGGA  
 GCGGCGCTGGACCCTGACTGCACCCCGGCTACCGCTGCGCCTCTACTTCACCCACT  
 CGACCTGGAGCTCTCCACCTCTGCGAGTACGACTTCGTCAGCTGAGCTCGGGGCCAA  
 GGTGCTGGCCACGCTGTGCGGGCAGGAGAGCACAGACACGGAGCGGGCCCTGGCAAGGA  
 CACTTTCTACTCGCTGGCTCCAGCCTGGACATTACCTCCGCTCCGGCTACTCCAAACGA  
 GAAGCCGTTACGGGGTTCGAGGCTTCTATGCAGCCGAGGACATTGACGAGTGCCAGGT  
 GGCCCCGGGAGAGGCCCCACCTGCGACCACCACTGCCACAACCACCTGNGCGGTTTCTA  
 CTGCTCTGCCGCGCAGGCTACGTCTGCACCGTAACAAGCGCACCTGCTCAGCCCTGTG  
 CTCGGCCAGGTCTTACCCAGAGGTCTGGGGAGCTCAGCAGCCCTGAATACCCACGGCC  
 GTATCCAAAACCTNACGTTGCACTTACAGCATCAGCCTGGAGGAAGGGTTCAGTGCAT  
 TCTGGACTTTGTGGATCCTTCGATGTGGAGACACCCCTGAAACCCTGTGTCCTACGAC  
 TTNTCTCAGATCAAACAGACAGAGAAGACATGCCCCATTCTGNGGGAAGACATTGCCCCA  
 CG

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_006610 unedited  
 ANCATGGNACAGGNNCAGTTTACAGNAAATGCCAACAGCCAGTATGAAAAGAGACTGGCT  
 TTTTAAGGTAATGAAATGTAATTTGAGCAGTGACATTACACTGGGTGGGCAAAGGTGACT  
 GTCCTCTCGTGGTTTATGTCCCCTTGAGTCAATGGGTAAGGCTGGAATTAACCTGGCAA  
 GTGGAGAAATGACAGCAGCCTCAGCTGGAGTCTGTTTTTTGGGTGGAGCAACAACCTGCC  
 ATGTCCACAGTAATGATGAATGCTTCTCGAGCCACGTCGCTGCCAAGGTCTTACAGGCA  
 TTTCTAAAAATGAAGAATCCTTGACTGCAGACACGCAAGTTAAAAATCACTAATTATGTT  
 CTCGATCCAGGGAATATAGTTAATAACTTTTGTGTAGACTCCATACTGACCTGCTTCCCC  
 ACAATTCATGGAACCCAGGACACTATTCCTCCCAAAACCACCTCTCTGTTTCACTATC  
 TAGAAACACCAGTGCCCTCCGCTGTACCTCTGCAGCTGTCCTTGCCCCACTTTCTAA  
 GCCAGCACAAAGCATGTTAGCAGTTACACTTCCCCTTGGATAGGGTGGCTTTTTCATATGC  
 AGCAGTACATTTTTGATGGTCAACAATCGGTATGTCGACATACATTAGATTCTAGCAAG  
 GAAACCCCTTTGGGTTAATCCCCATCCAGATGCAGTTCCCATGTCATCTGTCTCATAAAA  
 AGATTCAGCTTCTTTTCTGGCAGACAAAAGGCGTGATGTTGCTATTGATTACAACCTTG  
 GTATTCAATTTACCAGGGCTATGTCCTTTGCCAAAGCCGCATCCAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006610

**Insert Size:**

2500 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).

<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>NM_006610.2</u> , <u>NP_006601.2</u>
<b>RefSeq Size:</b>	2460 bp
<b>RefSeq ORF:</b>	2061 bp
<b>Locus ID:</b>	10747
<b>UniProt ID:</b>	<u>O00187</u>
<b>Cytogenetics:</b>	1p36.22
<b>Domains:</b>	CCP, CUB, Tryp_SPc, EGF_CA, EGF
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>Protein Pathways:</b>	Complement and coagulation cascades
<b>Gene Summary:</b>	<p>This gene encodes a member of the peptidase S1 family of serine proteases. The encoded preproprotein is proteolytically processed to generate A and B chains that heterodimerize to form the mature protease. This protease cleaves complement components C2 and C4 in order to generate C3 convertase in the lectin pathway of the complement system. The encoded protease also plays a role in the coagulation cascade through cleavage of prothrombin to form thrombin. Myocardial infarction and acute stroke patients exhibit reduced serum concentrations of the encoded protein. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (1) is the longer transcript and encodes isoform 1 which activates complement component 4.</p>