

## Product datasheet for **MR226378**

### Masp1 (NM\_008555) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Masp1 (NM_008555) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR226378 representing NM\_008555  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGTTCTGTCTTTCTGGCGCTCCTCCTCTACCACGCTCTGTGCCTCGCCCTGCCGGAGTTTCAG  
 CCCATACCGTGGAGCTAACGAAATGTTTGGTCAGATCCAGTACCTGGCTATCCAGATTCTATCCAAG  
 TGA CTCTGAGGTGACATGGAATATTACTGTCCCGAGGGGTTTCGAATCAAGCTTTACTTCATGCACTTC  
 AACTTGAATCCTCCTATCTTTGTGAATACGACTATGTGAAGGTAGAAACAGAAGACCAGGTGCTGGCAA  
 CCTTTTGTGGCAGGGAGACCACCATACTGAGCAGACCCCGCCAGGAAGTGGTCTTTTCGCTGGCAC  
 CTTTATGTCTGTCACTTTCCGGTCAGATTTCTCCAATGAGGAACGATTACAGGCTTCGACGCCACTAC  
 ATGGCTGTAGATGGATGAGTGAAGGAGAGGAAGATGAAGAGCTGTCTGTGACCACTACTGTCACA  
 ACTACATCGTGGCTACTACTGCTCCTGCCGCTTTGGCTACATCCTCCACACAGACAACAGGACCTGCCG  
 AGTGAATGCAGCGCAATCTTTTACCAGAGGACAGGCACAATCACCAGCCCCGATTACCCCAACCTT  
 TATCCCAAGAGCTCAGAAATGTTCTATACCATTGACCTGGAGGAAGGCTTCATGGTCAGCCTGCAGTTT  
 AGGACATTTTTGACATTGAAGACCATCCTGAGGTGCCCTGTCCCTATGACTACATTAAGATTAAGCTGG  
 TTCAAAGTATGGGGTCCCTTCTGTGGAGAGAAATCCCAGAACCAATCAGCACCCAGACTCACAGTGT  
 CAGATCCTATTCGCAGCGACAACCTCAGGAGAGAACCGAGGCTGGAGGCTCTCCTACAGAGCGGCAGGAA  
 ATGAGTGCCTAAAGCTACAGCCTCCTGTGTACGGGAAAATCGAGCCCTCGCAGGCCGTGATTCTTCAA  
 AGACCAAGTGTCTGTGACACAGGCTACAAAGTGTAAAGGATAACGAGGTGATGGACACATTC  
 CAAATTGAGTGTCTGAAGGACGGTGCATGGAGTAACAAGATCCCCACCTGTAATAATTGTAGACTGTGGAG  
 CTCTGTCAGGGCTGAAACATGGGCTAGTAACCTTCTCCACGAGAAACAACCTCACCACATACAAATCTGA  
 GATAAGGTACTCCTGCCAACAGCCCTATTACAAGATGCTTCAACAATACCACAGGTGATATACGTGTTCT  
 GCTCATGGGACCTGGACGAACGAAGTGCTCAAGAGAAGCCTGCCACCTGCCCTTCCAGTGTGTGGTGTCC  
 CCAAGTCTCCCGGAAGCAGATCTCCAGGATCTTCAATGGCCGCCAGCCAGAAGGGTACCATGCCATG  
 GATTGCCATGCTGTACACCTGAACGGACAACCCTTCTGTGGGGTAGCCTTTTAGGTTCCAACCTGGGTT  
 TTGACAGCTGCTCACTGCCTCCACCAGTCACTTGATCCAGAAGAACAACCCTACACAGCTCATACTTGC  
 TCAGCCCTTCTGACTTCAAATATCATGGGAAAGCACTGGAGACGGCGCTCAGACGAAGACGAGCAGCA  
 CCTGCATGTAAGCGCACACGCTCCACCCTGTACAACCCAGCACGTTTGAGAACGACCTTGGTCTG  
 GTGGAAGTGTGAGAGAGCCGAGGCTGAACGACTTTGTGATGCCTGTCTGTCTGCCTGAGCAGCCTCCA  
 CTGAAGGAACCATGGTATCGTCACTGAGTGGCTGGGGGAAGCAGTTCTTACAGAGTTTCCAGAGAACCTGAT  
 GGAGATTGAAATCCCAATTGAAACTCTGACACCTGCCAGGAGGCTATACCCCATTTGAAGAAGAAAGTG  
 ACCAAGGACATGATCTGTGCCGGAGAAAAGGAAGGGGGGAAAGATGCCTGTGCTGGTGACTCTGGAGGCC  
 CTATGGTGACCAAGATGCAGAGAGAGACCAATGGTACCTGGTGGCGTGGTGTCTGGGGTGAAGATTG  
 CGGGAAGAAGATCGCTATGGAGTCTATTCTTACATCTATCCCAACAAGGACTGGATCCAGAGGATCACT  
 GGGGTGAGGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226378 representing NM\_008555  
 Red=Cloning site Green=Tags(s)

MRFLSFWRLLLYHALCLALPEVSAHTVELNEMFGQIQSPGYPDSYPSDSEVTWNIIVPEGFRIKLYFMHF  
 NLESSYLCEYDYVKVETEDQVLATFCGRETTDTEQTPGQEVVLSPGTFMSVTFRSDFSNEERFTGFDAHY  
 MAVDVDECKEREDEELSCDHYCHNYIGGYCSCRFGYILHTDNRTCVRVCSGNLFTQRTGTITSPDYPNP  
 YPKSSECSYITIDLEEGFMVSLQFEDIIDIEDHPEVPCPYDYIKIKAGSKVWGPFCGEKSPEPISTQTHSV  
 QILFRSDNSGENRGWRLSYRAAGNECPKLQPPVYGKIEPSQAVYSFKDQVLVSCDTGYKVLKDNEMVMTF  
 QIECLKDGAWSNKIPTCKIVDCGAPAGLKHGLVTFSTRNNLTYYKSEIRYSCQPYYKMLHNTTGVTCS  
 AHGTWTNEVLKRSLPTCLPVCVGPVKFSRKQISRIFNGRPAQKGTMPWIAMLSHLNGQPFCCGSLGNSWV  
 LTAACHLHQSLDPEEPTLHSSYLLSPSDFKIIMGKHWRRSDEDEQHLHVKRTTLHPLYNPSTFENDLGL  
 VELSESPRLNDFVMPVCLPEQPSTEGTMVIVSWGKQFLQRFPENLMEIEIPIVNSDTCQEAYTPLKKKV  
 TKDMICAGEKEGKDACAGDSGGPMVTKDAERDQWYLVGVVSWGEDCGKKDRYGVYSYIYPNKDWIQRIT  
 GVRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9048\\_e09.zip](https://cdn.origene.com/chromatograms/mm9048_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008555

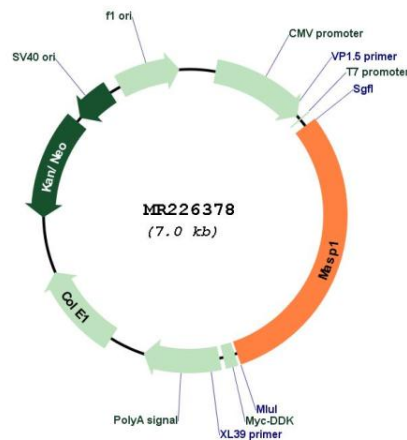
**ORF Size:** 2112 bp

**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.

<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>	<a href="#">NM_008555.3</a>
<b>RefSeq Size:</b>	2752 bp
<b>RefSeq ORF:</b>	2115 bp
<b>Locus ID:</b>	17174
<b>UniProt ID:</b>	<a href="#">P98064</a>
<b>Cytogenetics:</b>	16 B1
<b>MW:</b>	80.4 kDa
<b>Gene Summary:</b>	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]

## Product images:



Circular map for MR226378