

Product datasheet for **RR213700**

Masp2 (NM_172043) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Masp2 (NM_172043) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Masp2
Synonyms:	MAp19; MASP-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR213700 representing NM_172043
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTACTGATCGTCTGGGTCTGCTTTGGAGTTTGGTGGCCACACTTTTGGCTCCAAGTGGCCTG
 AGCCTGTATTCGGGCGCCTGGTGTCCCCTGGCTTCCCAGAGAAGTATGGCAACCATCAGGATCGATCCTG
 GACGCTGACTGCACCCCCTGGCTTCCGCTGCGCCTCTACTTCACCCACTTCAACCTGGAACCTCTTTAC
 CGCTGCGAGTATGACTTTGTCAAGTTGACCTCAGGGACCAAGGTGCTAGCCACGCTGTGTGGGCAGGAGA
 GTACAGATACTGAGCGGGCACCTGGCAATGACACCTTCTACTCACTGGTCCCAGCCTAAAGGTCACCTT
 CCACTCCGACTACTCCAATGAGAAGCCATTACAGGATTTGAGGCCTTCTATGCAGCGGAGGATGTGGAT
 GAATGCAGAACATCCCTGGGAGACTCAGTCCCTTGTGACCATTATTGCCACAACCTACCTGGGCGGCTACT
 ACTGCTCCTGCCAGTGGGTACATTCTGCACCAGAACAAGCATACCTGCTCAGCCCTTTGTTCAAGCCA
 GGTGTTCACTGGGAGGTCTGGCTTCTCAGTAGCCCTGAGTACCCACAGCCATACCCCAAACCTCCAGC
 TGGCCTACAACATCCGCTGGAGGAAGGCTTCAATATCACCTGGACTTCGTGGAGTCCCTTTGATGTGG
 AGATGCACCTGAAGCCAGTGGCCCTACGACTCCCTCAAGATCAAACAGACAAGAGGGAATACGGCCC
 GTTTTGTGGGAAGACGCTGCCCCAGGATTGAACTGACAGCAACAAGGTGACCATTACCTTTACCACC
 GACGAGTCAGGGAACACACAGGCTGGAAGATACACTACACAAGCACAGCACAGCCCTGCCCTGATCCAA
 CGGCGCCACCTAATGGTCAATTCACCTGTGCAAGCCACGTATGTCCTGAAGGACAGCTTTTCTGTCTT
 CTGCAAGACTGGCTTCGAGCTTCTGCAAGTTCCTGCCCCTGAAGTCACTGCTGTCTGTGAGAAA
 GATGGATCTTGGGACCGCCGATACCAGAGTGCAGCATTATTGACTGTGGCCCTCCCGATGACCTACCCA
 ATGGCCACGTGGACTATATCACAGGCCCTGAAGTGACCACCTACAAAGCTGTGATTCAGTACAGCTGTGA
 AGAGACTTCTACACAATGAGCAGCAATGGTAAATATGTGTGTGAGGCTGATGGATTCTGGACGAGCTCC
 AAAGGAGAAAAATCCCTCCCGTTTGAAGCCTGTCTGTGGACTGTCCACACACACTTCAGGAGGCCGTA
 TAATTGGAGGACAGCCTGCAAAGCCTGGTACTTTCCTTGGCAAGTCTTGTACTGGGTGAAACTACAGC
 AGCAGGTGCTCTTATACATGACGACTGGTCTAACAGCGGCTCATGCTGTATATGGGAAAAACAGAGGCG
 ATGTCCTCCCTGGACATCCGCATGGGCATCCTCAAAGGCTCTCCCTCATTACACTCAAGCCTGGCCAG
 AGGCTGTCTTTATCCATGAAGGCTACACTCACGGAGCTGGTTTTGACAATGATATAGCACTGATTAAC
 CAAGAACAAGTCAATCAACAGAAACATCATGCCGATTTGTCTACCAAGAAAAGAAGTGCATCCTTA
 ATGAAAACAGACTTCGTTGGAAGTGTGGCTGGCTGGGGTTAACCAGAAGGGTTTCTTGTAGAAACC
 TAATGTTTGTGGACATACCAATTGTTGACCACCAAAAATGTGCTACTGCGTATACAAAGCAGCCCTACCC
 AGGAGCAAAAGTACTGTTAACATGCTCTGTGCTGGCCTAGACGCGGTTGCAAGGACAGCTGCAGAGGT
 GACAGCGGAGGGGATTAGTGTCTTAGACAATGAAACACAGAGATGGTTTGTGGGAGGAATAGTTTCTT
 GGGTTTCTAATACTGTGGGGGTGAGAACAGTATGGGGTCTACACGAAAGTACGAACTATATCCCTG
 GATTGAGAACATAATAAATAATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213700 representing NM_172043
 Red=Cloning site Green=Tags(s)

MRLLIIVLGLLWSLVATLLGSKWPEPVFGRLLVSPGFPEKYGNHQDRSWTLTAPPGFRLRLYFTHFNLELSY
 RCEYDFVKLTSGTKVLATLCGQESTDTERAPGNDTFYSLGPSLKVTFHSDYSNEKPFTGFEAFYAAEDVD
 ECRTSLGDSVPCDHYCHNYLGGYYCSCRVGVIILHQNKHTCSALCSGQVFTGRSGFLSSPEYQPYPKLS
 CAYNIRLEEGFSITLDFVESFDVEMHPEAQCPYDSLKIQTDKREYGPFCGKTLPPRIETDSNKVITFTT
 DESGNHTGWKIHYTSTAQPDPPTAPPNGHISPVQATYVLKDSFSVFCCKTFELLQGSVPLKSFTAVCQK
 DGSWDRPIPECSIIDCGPPDDLPNGHVDYITGPEVTTYKAVIQYSCEETFYTMSSNGKYVCEADGFWTSS
 KGEKSLPVCKPVCGLSTHTSGGRIIGGQPAKPGDFPWQVLLLGETTAAGALIHDDWVLTAAHAVYKTEA
 MSSLDIRMGILKRLSPHYTQAWPEAVFIEGYTHGAGFDNDIALIKLKNKVTINRNIMPICLPRKEAASL
 MKTDFVGTAVGWLTQKGF LARNLMFVDIPIVDHQKCATAYTKQYPYPAKVTVNMLCAGLDAGGKDCRGR
 DSGGALVFLDNETQRWFVGGIVSWGSIKCGGSEQYGVYTKVTNYIPWIENIINN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

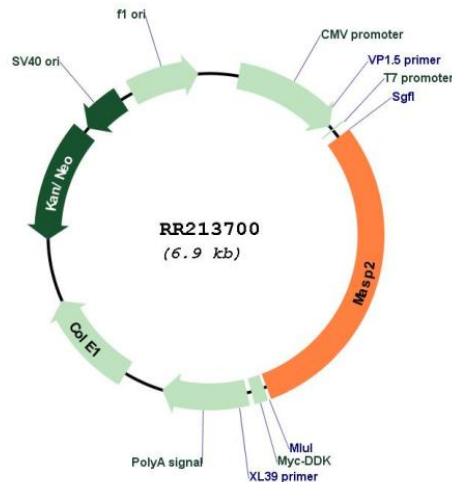
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172043

ORF Size: 2055 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.

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_172043.1](#), [NP_742040.1](#)

RefSeq Size: 2095 bp

RefSeq ORF: 2058 bp

Locus ID: 64459

UniProt ID: [Q9JJS8](#)

Cytogenetics: 5q36

MW: 75.6 kDa

Gene Summary: member of the MBL/MASPs/Map19 complex of the mannan binding lectin pathway of complement activation; catalyzes the cleavage of complement component C4 [RGD, Feb 2006]