

Product datasheet for MR224675

Masp2 (NM_010767) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Masp2 (NM_010767) Mouse 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
ORF Nucleotide Sequence: >MR224675 representing NM_010767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGCTACTCATCTTCTGGGCTGCTGTGGAGTTTGGTGGCCACACTTCTGGGTTCAAAGTGGCCTG
 AACCTGTATTCGGGCGCCTGGTGTCCCCTGGCTTCCCAGAGAAGTATGCTGACCATCAAGATCGATCCTG
 GACTGACTGCACCCCCTGGCTACCGCCTGCGCCTCTACTTCACCCACTTTGACCTGGAACCTCTTTAC
 CGCTGCGAGTATGACTTTGTCAAGTTGAGCTCAGGGACCAAGGTGCTGGCCACACTGTGTGGCAGGAGA
 GTACAGACACTGAGCAGGCACCTGGCAATGACACCTTCTACTCACTGGGTCCCAGCTAAAGGTCACCTT
 CCACTCCGACTACTCCAATGAGAAGCCGTTACAGGGTTTGGGCCTTCTATGCAGCGGAGGATGTGGAT
 GAATGCAGAGTGTCTCTGGGAGACTCAGTCCCTTGTGACCATTATTGCCACAACACTTTGGGCGGCTACT
 ATTGCTCTGCAGAGCGGGCTACGTTCTCCACCAGAACAAGCACACGTGCTCAGAGCAGAGCCTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224675 representing NM_010767
 Red=Cloning site Green=Tags(s)

MRLLI FLGLLWSLVATLLGSKWPEPVFGRLLVSPGFPEKYADHQDRSWTLTAPPGYRLRLYFTHFDLELSY
 RCEYDFVKLSSGKVLATLCGQESTDTEQAPGNDTFYSLGPSLKVTFHSDYSNEKPF TGFEAFYAAEDVD
 ECRVSLGDSVPCDHYCHNYLGGYYCSCRAGYVLHQNKHTCSEQSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

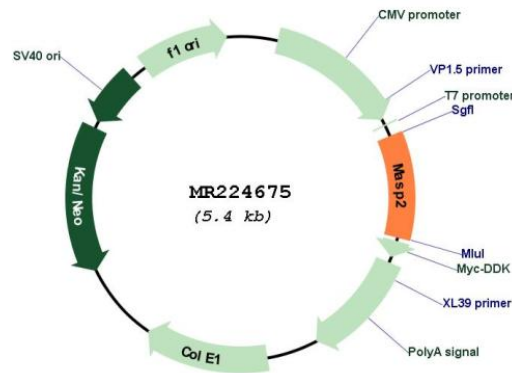
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_010767

ORF Size: 555 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:	<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:	<u>NM_010767.3</u> , <u>NP_034897.1</u>
RefSeq Size:	744 bp
RefSeq ORF:	558 bp
Locus ID:	17175
UniProt ID:	<u>Q91WP0</u>
Cytogenetics:	4 E2
MW:	21.4 kDa
Gene Summary:	Serum protease that plays an important role in the activation of the complement system via mannose-binding lectin. After activation by auto-catalytic cleavage it cleaves C2 and C4, leading to their activation and to the formation of C3 convertase (By similarity). [UniProtKB/Swiss-Prot Function]