

Product datasheet for **MG224675**

Masp2 (NM_010767) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Masp2 (NM_010767) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Masp2
Synonyms: MAp19; MASP-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224675 representing NM_010767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGCTACTCATCTTCTGGGTCTGCTGTGGAGTTGGTGGCCACACTTCTGGGTTCAAAGTGGCCTG
 AACCTGTATTCGGGCGCCTGGTGTCCCCTGGCTTCCCAGAGAAGTATGCTGACCATCAAGATCGATCCTG
 GACTGACTGCACCCCTGGCTACCGCTGCGCCTCTACTTCACCCACTTTGACCTGGAACCTCTTTAC
 CGCTGCGAGTATGACTTTGTCAAGTTGAGCTCAGGGACCAAGGTCTGGCCACACTGTGTGGGCAGGAGA
 GTACAGACTGAGCAGGCACCTGGCAATGACACCTTCTACTACTGGTCCCAGCCTAAAGGTCACCTT
 CCACTCCGACTACTCCAATGAGAAGCCGTTACAGGGTTTGGAGCCTTCTATGCAGCGGAGGATGTGGAT
 GAATGCAGAGTGTCTCTGGGAGACTCAGTCCCTTGTGACCATTATTGCCCAACTACTTGGGCGGCTACT
 ATTGCTCTGCAGAGCGGGCTACGTTCTCCACCAGAACAAGCACACGTGCTCAGAGCAGAGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224675 representing NM_010767
 Red=Cloning site Green=Tags(s)

MRLLIIFLGLLWSLVATLLGSKWPEPVFGRLLVSPGFPEKYADHQDRSWTLTAPPGYRLRLYFTHFDLELSY
 RCEYDFVKLSSGKVLATLCGQESTDTEQAPGNDTFYSLGPSLKVTFHSDYSNEKPFTEAFYAAEDVD
 ECRVSLGDSVPCDHYCHNYLGGYYCSCRAGYVLHQNKHTCSEQSL

TRTRPLE - GFP Tag - V

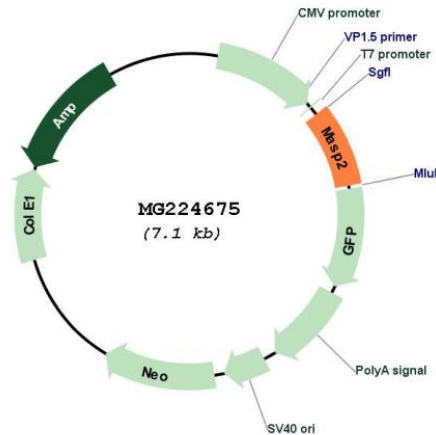
Restriction Sites: SgfI-MluI



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>Q91WPO</u>
Cytogenetics:	4 E2
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]