

Product datasheet for **RG218844**

MASP2 (NM_139208) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MASP2 (NM_139208) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MASP2
Synonyms: MAP-2; MAP19; MASP-2; MASP1P1; sMAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218844 representing NM_139208
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGCTGCTGACCCTCCTGGCCTTCTGTGTGGCTCGGTGGCCACCCCTTGGGCCGAAGTGGCCTG
 AACCTGTGTTCCGGCGCCTGGCATCCCCGGCTTCCAGGGGAGTATGCCAATGACCAGGAGCGCGCTG
 GACCCTGACTGCACCCCGGCTACCGCTGCGCCTCTACTTCACCCACTTCGACCTGGAGCTCTCCCAC
 CTCTGCGAGTACGACTTCGTCAAGCTGAGCTCGGGGCCAAGGTGCTGGCCACGCTGTGCGGCAGGAGA
 GCACAGACACGGAGCGGGCCCTGGCAAGGACACTTTCTACTCGCTGGGCTCCAGCCTGGACATTACCTT
 CCGCTCCGACTACTCCAACGAGAAGCCGTTACCGGGTTCGAGGCCTTCTATGCACCGGAGGACATTGAC
 GAGTGCCAGGTGGCCCCGGGAGAGGCGCCACCTGCGACCACCACTGCCACAACCACCTGGCGGTTTCT
 ACTGCTCTGCCGCGCAGGCTACGTCCTGCACCGTAACAAGCGCACCTGCTCAGAGCAGAGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218844 representing NM_139208
 Red=Cloning site Green=Tags(s)

MRLLTLLGLLCGSVATPLGPKWPEPVFGRLASPGFPGEYANDQERRWTLTAPPGYRLRLYFTHFDLELSH
 LCEYDFVKLSSGAKVLATLCGQESTDTERAPGKDTFYSLGSSLDITFRSDYSNEKPTGFEEAFYAAEDID
 ECQVAPGEAPTCDHHCHNHLGGFYCSCRAGYVLRNKRKTCSEQSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_139208

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:**
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_139208.3](#)

RefSeq Size: 738 bp

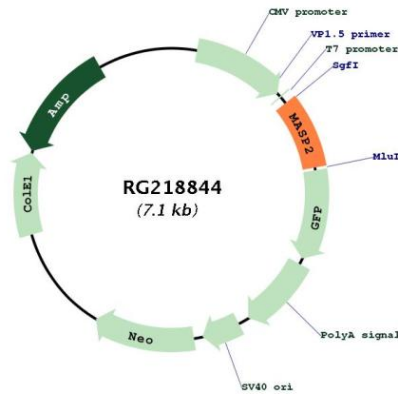
RefSeq ORF: 558 bp

Locus ID: 10747

UniProt ID: [O00187](#)

Cytogenetics:	1p36.22
Domains:	CUB, EGF_CA, EGF
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	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]

Product images:



Circular map for RG218844