

Product datasheet for **MG207673**

Mmp3 (NM_010809) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp3 (NM_010809) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmp3
Synonyms:	EMS-2; MMP-3; S; SL; SL-1; SLN-1; SLN1; St; Stmy; Stmy1; STR; STR-1; Str1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207673 representing NM_010809
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAATGAAGGCTCTCCGGTCTGCTGTGGCTGTGTGGTTGTGTGCTCATCTACCCATTGCATG
 ACAGTGAAGGGATGATGATGCTGGTATGGAGCTTCTGCAGAAATACCTAGAAAACACTACTATGGCCTTGC
 AAAAGATGTGAAGCAATTTATTAAAGAAAAGGACAGTAGTCTTATTGTCAAAAAAATCAAGAAATGCAG
 AAGTTCCTCGGGTTGGAGATGACAGGGAAGCTGGACTCCAACACTATGGAGCTGATGCATAAGCCCAGGT
 GTGGTGTCTGATGTTGGTGGCTTCACTACCTCCAGGTTCCGCAAAATGGAGGAAATCCCACATCAC
 CTACAGGATTGTGAATTACACCGGATTTGCCAAGACAGAGTGTGGATTCTGCCATTGAAAAAGCTTTG
 AAGGTCTGGGAGGAGTGACCCCACTCACTTTCTCCAGGATCTCTGAAGGAGAGGCTGACATAATGATCT
 CCTTTGCAGTTGGAGAACATGGAGACTTTGTCCCTTTTGTAGGGCTGGAACAGTCTTGGCTCATGCCTA
 TGCACCTGGACCAGGGATTAATGGAGATGCTCACTTTGACGATGATGAACGATGGACAGAGGATGCTACT
 GGTACCAACCTATTCTCGTGTGCTGCTCATGAACCTGGCCACTCCCTGGGACTCTACCACTCAGCCAAGG
 CTGAAGCTCTGATGTACCCAGTCTACAAGTCTCCACAGACTTGTCCCGTTTCCATCTCTCTCAAGATGA
 TGTAGATGGTATTCACTCCCTCTATGGAACCTCCACAGCATCCCCTGATGTCTCGTGGTACCCACCAAG
 TCTAACTCTCTGGAACCTGAGACATACCAATGTGCAGCTCTACTTTGTTCTTTGATGCAGTCAGCACCC
 TCCGGGGAGAAGTCTGTTTTTAAAGACAGGCACTTTTGGCGCAAACTCTCAGGACTCCTGAGCCTGA
 ATTTTATTTGATCTCTTCATTTTGGCCATCTCTCCATCCAACATGGATGCTGCATATGAGGTTACTAAC
 AGAGACACTGTTTTCACTTTTAAAGGAAATCAGTCTGGGCTATACGAGGGCACGAGGAGCTAGCAGGTT
 ATCCTAAAAGCATTACACCCCTGGTCTCCCTGCAACCGTGAAGAAGATCGATGCTGCCATTTCTAATAA
 AGAGAAAAGGAAGACCTACTTCTTTGTAGAGGACAAATACTGGAGGTTTGTATGAGAAGAAACAATCCATG
 GAGCCAGGATTTCCAGGAAGATAGCTGAGGACTTTCCAGGTGTTGACTCAAGGGTGGATGCTGTCTTTG
 AAGCATTTGGGTTTCTACTTCTTCACTGATGCTTTCGCAAGTTGGAATTTGACCCAAATGCCAAAAAAGT
 GACCCACATATTGAAGAGCAATAGCTGGTTAATTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207673 representing NM_010809
 Red=Cloning site Green=Tags(s)

MKMKGLPVLLWL CVVVCSSYPLHDSARDDAGMELLQKYLENYYGLAKDVKQFIKKKSSLI VKKIQEMQ
 KFLGLEMTGKLD SNTMELMHKPRCGVPDVGGFSTFPSPKWRKSHITYRIVNYTPDLPRQSVDSAIEKAL
 KWVEEVTPLTFSRI SEGEADIMISFAVGEHGDVFPFDGPGTVLAHAYAPGPGINGDAHFD DDERWTE DVT
 GTNLFLVA AHELGHSLGLYHSAKAEALMYPVYKSSDLSRFHLSQDDVDGIQSLYGTPTASPDVLV VPTK
 SNSLEPETSPMCSSTLFFDAVSTLRGEVLFKDRHFWRKSLRTPPEFYLISSFWPSLP SNMDAA YEVTN
 RDTVFIKGNQFWAIRGHEELAGYPKSIHTLGLPATVKKIDAAI SNKEKRKYFFVEDKYWR FDEKKQSM
 EPGFPRKIAEDFPVDSRVDVAFEAFLYFFSGSSQLEFPNAKKVTHILKSNSWFNC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_010809

ORF Size: 1437 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

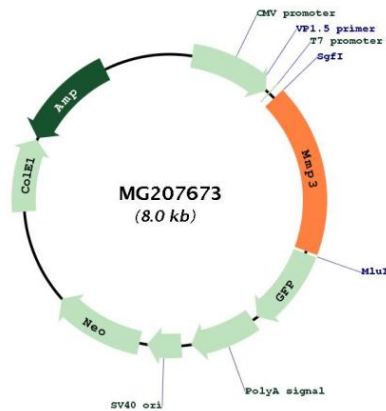
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_010809.2](#)
 RefSeq Size: 1858 bp
 RefSeq ORF: 1440 bp
 Locus ID: 17392
 UniProt ID: [P28862](#)
 Cytogenetics: 9 2.46 cM

Gene Summary: This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, wound repair, progression of atherosclerosis and tumor invasion. The encoded protein is activated by the removal of an N-terminal activation peptide to generate a zinc-dependent endopeptidase with a broad range of substrates such as proteoglycans, laminin, fibronectin, elastin, and collagens. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Feb 2016]

Product images:



Circular map for MG207673