

Product datasheet for **MC216346**

Mmp1a (NM_032006) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp1a (NM_032006) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mmp1a
Synonyms:	Mco; Mcol-A; Mcola; MMP-1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216346 representing NM_032006
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTAGCCTTCCTTTGCTGTTGCTTCTCTGGGCTGCTAGCTCATAACAGTTTCCCTGTGTTTCACAACG
 GAGACCGCAAAATGTGGAGACAGTCTGGAATACCTGGAAAACACTACAACCTGGGCAAAAACATGCA
 AGCTAAAAACGTGAATGGCAAGGAGATGATGGCTGAAAAGCTGAGGCAAAATGCAGCAGTTATTTGGGCTG
 AAAGTGACTGGAAATTCAGATCCTGAAACCCTGAGAGCTATGAAGAAGCCAGGTGTGGGGTGCCTGATG
 TGGCCCCATATGCCATTACTCACAACAATCCTCGTTGGACCAAAACACATCTGACATACAGCATTTTAA
 CTACACACCATATTTGCCAAAAGCAGTTGTGGAAGATGCCATCGCGAGAGCCTTTAGAGTCTGGAGTGAT
 GTGACACCACTTACGTTCCAAGAGTCTTTGAGGAGGAAGGCGATATTGTCTCCTTCCACAGAGGAG
 ACCATGGTGACAACAACCCATTTGATGGACCTAATAAGCTTGCTCACACTTCCAGCCAGGCCCAGG
 TTTGGGGGTGATGTTTCATTATGACCTTGATGAGACGTGGACCAACAGCAGTGAAAATTTCAACTGTTC
 TATGTTACGGCTCATGAACTGGGTCACCTCCCTGGGCTCACTCATTCTAGTGATATAGGAGCACTAATGT
 TCCCCAGTTACAGTGGTACACTGAAGACTTTGTGCTAAACCAGGATGATTAATCGCATCCAGGACTT
 ATATGGACCTTCCCCAAATCCCATCCAGCCAACAGGTGCAACAACACCACATCCATGTAATGGTGATCTA
 ACCTTTGATGCTATAACTACATTTAGGGGAGAGGTGTTTTTCTTCAAAGGCAGGTTCTACATTCGGGTAA
 ATAGATTCATGCCAGAACCTGAGCTCAATTTAATAGGTATTCTCTGGCCAAATCTCCAGTTAAACTTGA
 CGCTGCTTATGAAGCTAGTATGATAGATCAAGTCCGCTATTTCAAAGGCAGCAAAGTATGGGCTGTTCAA
 GAGCAGAGTGTACTGAGAGGATCCCCAGAGACATCCACAGTTTCTTTGGCTTCCCTAGCAATGTGACAC
 ACATTGATGCTGCTGTTTGTGAGGAAGAGACTGGAAAAACATCTTCTTTGTTGACCACATGATGGAG
 GTATGATGAAAAATACACAGTCTATGGATCCAGTTATCCAGATTAACAGCAGAAGACTTCCCTGGAATT
 GATGATAAAGTTGATGATGTTTTCCAAAAGGAGAAAAATTTCTATTTCTTCCACCAATCAGTTCAACACA
 GATTTAACCTCCAATAAGAAGATTGATGATCCCGTATTCTAGTACATGGTTCAACTGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_032006

Insert Size: 1395 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](#)

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_032006.3](#), [NP_114395.1](#)

RefSeq Size: 2025 bp

RefSeq ORF: 1395 bp

Locus ID: 83995

UniProt ID: [Q9EPL5](#)

Cytogenetics: 9 A1

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 preproprotein undergoes proteolytic processing to generate a mature, zinc-dependent endopeptidase enzyme that degrades collagens. Mice lacking the encoded protein exhibit decreased susceptibility to chemical carcinogen-induced lung tumor development and angiogenesis. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Feb 2016]