OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC202668

Mmp2 (NM_008610) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp2 (NM_008610) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mmp2
Synonyms:	Clg; Clg4a; Ge; GelA; MMP-; MMP-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC070430 sequence for NM_008610
CCAGCCGGCCACATCTGGCGTCTGCCCGCCCTTGTTTCCGCTGCATCCAGACTTCCCTGGTGGCTGGAGG
CTCTGTGTGCATCCAGGAGTTTAGATATACAAAGGGATTGCCAGGACCTGCAAGCACCCGCGGCAGTGGT
GTGTATTGGGACGTGGGACCCCGTTATGAGCTCCTGAGCCCCGAGAAGCAGAGGCAGTAGAGTAAGGGGA
TCGCCGTGCAGGGCAGGCGCCAGCCGGGCGGACCCCAGGGCACAGCCAGAGACCTCAGGGTGACACGCGG
AGCCCGGGAGCGCAACGATGGAGGCACGAGTGGCCTGGGGAGCGCTGGCCGGACCTCTGCGGGTTCTCTG
CGTCCTGTGCTGCCTGTTGGGCCGCGCCATCGCTGCACCATCGCCCATCATCAAGTTCCCCGGCGATGTC
GCCCCTAAAACAGACAAAGAGTTGGCAGTGCAATACCTGAACACTTTCTATGGCTGCCCCAAGGAGAGTT
GCAACCTCTTTGTGCTGAAAGATACCCTCAAGAAGATGCAGAAGTTCTTTGGGCTGCCCCAGACAGGTGA
CCTTGACCAGAACACCATCGAGACCATGCGGAAGCCAAGATGTGGCAACCCAGATGTGGCCAACTACAAC
TTCTTCCCCCGCAAGCCCAAGTGGGACAAGAACCAGATCACATACAGGATCATTGGTTACACACCTGACC
TGGACCCTGAAACCGTGGATGATGCTTTTGCTCGGGCCTTAAAAGTATGGAGCGACGTCACTCCGCTGCG
CTTTTCTCGAATCCATGATGGGGAGGCTGACATCATGATCAACTTTGGACGCTGGGAGCATGGAGATGGA
TACCCATTTGATGGCAAGGATGGACTCCTGGCACATGCCTTTGCCCCGGGCACTGGTGTTGGGGGAGATT
CTCACTTTGATGATGATGAGCTGTGGACCCTGGGAGAAGGACAAGTGGTCCGCGTAAAGTATGGGAACGC
TGATGGCGAGTACTGCAAGTTCCCCTTCCTGTTCAACGGTCGGGAATACAGCAGCTGTACAGACACTGGT
CGCAGTGATGGCTTCCTCTGGTGCTCCACCACATACAACTTTGAGAAGGATGGCAAGTATGGCTTCTGCC
CCCATGAAGCCTTGTTTACCATGGGTGGCAATGCAGATGGACAGCCCTGCAAGTTCCCGTTCCGCTTCCA
GGGCACCTCCTACAACAGCTGTACCACCGAGGGCCGCACCGATGGCTACCGCTGGTGTGGCACCACCGAG
GACTATGACCGGGATAAGAAGTATGGATTCTGTCCCGAGACCGCTATGTCCACTGTGGGTGGAAATTCAG
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CAACGATGGCAAGGTGTGGTGTGCGACCACAACCAACTACGATGATGACCGGAAGTGGGGCTTCTGTCCT
GACCAAGGATATAGCCTATTCCTCGTGGCAGCCCATGAGTTCGGCCATGCCATGGGGCTGGAACACTCTC
AGGACCCTGGAGCTCTGATGGCCCCGATCTACACCTACACCAAGAACTTCCGATTATCCCATGATGACAT
CAAGGGGATCCAGGAGCTCTATGGGCCCTCCCCCGATGCTGATACTGACACTGGTACTGGCCCCACACCA
ACACTGGGACCTGTCACTCCGGAGATCTGCAAACAGGACATTGTCTTTGATGGCATCGCTCAGATCCGTG
GTGAGATCTTCTTCTTCAAGGACCGGTTTATTTGGCGGACAGTGACACCACGTGACAAGCCCACAGGTCC
CTTGCTGGTGGCCACATTCTGGCCTGAGCTCCCAGAAAAGATTGACGCTGTGTATGAGGCCCCACAGGAG
GAGAAGGCTGTGTTCTTCGCAGGGAATGAGTACTGGGTCTATTCTGCTAGTACTCTGGAGCGAGGATACC
CCAAGCCACTGACCAGCCTGGGGTTGCCCCCTGATGTCCAGCAAGTAGATGCTGCCTTTAACTGGAGTAA
GAACAAGAAGACATACATCTTTGCAGGAGACAAGTTCTGGAGATACAATGAAGTGAAGAAGAAAATGGAC
CCCGGTTTCCCTAAGCTCATCGCAGACTCCTGGAATGCCATCCCTGATAACCTGGATGCCGTCGTGGACC
TGCAGGGTGGTGGTCATAGCTACTTCTTCAAGGGTGCTTATTACCTGAAGCTGGAGAACCAAAGTCTCAA
GAGCGTGAAGTTTGGAAGCATCAAATCAGACTGGCTGGGCTGCTGAGCTGGCCCTGTTCCCACGGGCCCT
ATCATCTTCATCGCTGCACACCAGGTGAAGGATGTGAAGCAGCCTGGCGGCTCTGTCCTCCTCTGTAGTT
AACCAGCCTTCTCCTTCACCTGGTGACTTCAGATTTAAGAGGGTGGCTTCTTTTTGTGCCCAAAGAAAGG
TGCTGACTGTACCCTCCCGGGTGCTGCTTCTCCTTCCTGCCCACCCTAGGGGATGCTTGGATATTTGCAA
TGCAGCCCTCCTCTGGGCTGCCCTGGTGCTCCACTCTTCTGGTTCTTCAACATCTATGACCTTTTTATGG
CTTTCAGCACTCTCAGAGTTAATAGAGACTGGCTTAGGAGGGCACTGGTGGCCCTGTTAACAGCCTGGCA
TGGGGCAGTGGGGTACAGGTGTGCCAAGGTGGAAATCAGAGACACCTGGTTTCACCCTTTCTGCTGCCCA
GACACCTGCACCACCTTAACTGTTGCTTTTGTATGCCCTTCGCTCGTTTCCTTCAACCTTTTCAGTTTTC
CACTCCACTGCATTTCCTGCCCAAAGGACTCGGGTTGTCTGACATCGCTGCATGATGCATCTCAGCCCGC
CTAGTGATGGTTCCCCTCCTCACTCTGTGCAGATCATGCCCAGTCACTTCCTCCACTGGATGGAGGAGAA
CCAAGTCAGTGGCTTCCTGCTCAGCCTTCTTGCTTCTCCCTTTAACAGTTCCCCATGGGAAATGGCAAAC
AAGTATAAATAAAGACACCCATTGAGTGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI

ACCN: NM_008610

Insert Size: 1989 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC070430, AAH70430
RefSeq Size:	3070 bp
RefSeq ORF:	1989 bp
Locus ID:	17390
UniProt ID:	P33434
Cytogenetics:	8 44.99 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 preproprotein undergoes proteolytic processing to generate a mature, zinc-dependent endopeptidase enzyme that hydrolyzes collagens, gelatins, laminin, fibronectin and elastin. Mice lacking the encoded protein exhibit suppressed angiogenesis and attenuated features of human multicentric osteolysis with arthritis including abnormal skeletal and craniofacial development. [provided by RefSeq, Feb 2016]