

Product datasheet for **MC221158**

Mmp9 (NM_013599) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp9 (NM_013599) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mmp9
Synonyms:	AW743869; B/MMP; B/MMP9; Clg4; Clg4b; Gel B; MMP-; MMP-9; pro-MMP-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221158 representing NM_013599
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTCCCTGGCAGCCCTGCTCCTGGCTCTCCTGGCTTTCGGTGCAGCTCTGCTGCCCTTACCAGC
 GCCAGCCGACTTTTGTGGTCTTCCCAAAGACCTGAAAACCTCCAACCTCACGGACACCCAGCTGGCAGA
 GGCATACTTGTACCGCTATGTTACACCCGGGCGCCAGATGATGGGAGAGAAGCAGTCTCTACGGCCG
 GCTTTGCTGATGCTTCAAGCAGCTCTCCCTGCCCCAGACTGGTGGAGCTGGACGCCAGACACTAAAGG
 CCATTCGAACACCACGCTGTGGTGTCCCAGACGTGGTTCGATTCCAAACCTTCAAAGGCCTCAAGTGGGA
 CCATCATAACATCACATACTGGATCCAAAACACTCTGAAGACTTGCCGCGAGACATGATCGATGACGCC
 TTCGCGCGCGCTTCGCGGTGTGGGGCAGGTGGCACCCCTCACCTTCACCCGCTGTACGGACCCGAAG
 CGGACATTGTATCCAGTTTGGTGTGCGGAGCACGGAGACGGGTATCCCTTCGACGGCAAGGACGGCT
 TCTGGCACAGCCTTTCCCTGGCGCCGGCTTCAGGGAGATGCCATTTGACGACGACGAGTGTGG
 TCGCTGGCAAAGGCGTGTGATCCCACTTACTATGAAAACCAAATGGTGCCCATGTCACTTTCCCT
 TCACCTTCGAGGGACGCTCCTATTCGGCTGCACCACAGACGGCCGAACGACGGCACGCTTGGTGTAG
 CACAACAGCTGACTACGATAAGGACGGCAAATTTGGTTTCTGCCCTAGTGAGAGACTCTACACGGAGCAC
 GGCAACGGAGAAGGCAAACCTGTGTGTTCCCGTTCATCTTTGAGGGCCGCTCCTACTCTGCCTGCACCA
 CTAAGGGCCGCTCGGATGGTTACCGTGGTGGCCACCACAGCCAATATGACCAGGATAAACTGTATGG
 CTTCTGCCCTACCGAGTGGACGCGACCGTAGTTGGGGCAACTCGGCAGGAGAGCTGTGCGTCTTCCC
 TTCGTCTTCTGGCAAGCAGTACTTCTGTACCAGCGACGGCCGAGGGATGGGCGCTCTGGTGTG
 CGACCACATCGAACTTCGACACTGACAAGAAGTGGGTTTCTGTCCAGACCAAGGTACAGCCTGTCTCT
 GGTGGCAGCGCACGAGTTCGGCCATGCACTGGGCTTAGATCATTCCAGCGTGCCGGAAGCGCTCATGTAC
 CCGCTGTATAGCTACCTCGAGGGCTTCCCTCTGAATAAAGACGACATAGACGGCATCCAGTATCTGTATG
 GTCGTGGCTCTAAGCCTGACCAAGGCCTCCAGCCACCACCACAACCTGAACCACAGCCGACAGCACCTCC
 CACTATGTGTCCCACTATACCTCCACGGCCTATCCACAGTGGGCCCCACGGTTGGCCCTACAGGGCGC
 CCCTCACCTGGCCCCACAAGCAGCCCGTCACTGGCCCTACAGGGCCCCCTCACCTGGCCCTACAGCGC
 CCCCTACTGCGGGCTCTTCTGAGGCCTCTACAGAGTCTTTGAGTCCGGCAGACAATCCTTGAATGTGA
 TGTTTTGATGCTATTGCTGAGATCCAGGGCGCTCTGCATTTCTCAAGGACGGTGGTACTGGAAGTTC
 CTGAATCATAGAGGAAGCCATTACAGGGCCCCCTCCTTACTGCCCGACGTGGCCAGCCCTGCCTGCAA
 CGCTGGACTCCGCTTTGAGGATCCGCAGACCAAGAGGGTTTTCTTCTTCTGACGTCAAATGTGGGT
 GTACACAGGCAAGACCGTGTGGCCCCAGGAGTCTGGATAAGTTGGGTCTAGGCCAGAGGTAACCCAC
 GTCAGCGGGCTTCTCCGCGTCTCTCGGGAAGGCTCTGCTGTTGAGCAAGGGGGTGTCTGGAGATTTCG
 ACTTGAAGTCTCAGAAGGTGGATCCCCAGAGCGTCATTGCGTGGATAAAGGAGTCTCTGGTGTGCCCTG
 GAACTCACACGACATCTCCAGTACCAAGACAAAGCCTATTTCTGCCATGGCAAATCTTCTGGCGTGTG
 AGTTTTCAAATGAGGTGAACAAGGTGGACCATGAGGTGAACCAGGTGGACGACGTGGGCTACGTGACCT
 ACGACCTCTGCAGTGCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013599

Insert Size: 2193 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:	<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_013599.4</u> , <u>NP_038627.1</u>
RefSeq Size:	3189 bp
RefSeq ORF:	2193 bp
Locus ID:	17395
UniProt ID:	<u>P41245</u>
Cytogenetics:	2 85.27 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 degrades collagens of type IV, V and XI, and elastin. Mice lacking the encoded protein exhibit an abnormal pattern of skeletal growth plate vascularization and ossification, reduced keratinocyte hyperproliferation at all neoplastic stages, a decreased incidence of invasive tumors, and resistance to experimental autoimmune encephalomyelitis. [provided by RefSeq, Feb 2016]