

Product datasheet for **MR226712**

Mmp9 (NM_013599) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp9 (NM_013599) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide
Sequence:**

>MR226712 representing NM_013599
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTCCCTGGCAGCCCTGCTCCTGGCTCTCCTGGCTTTCGGTGCAGCTCTGCTGCCCTTACCAGC
 GCCAGCCGACTTTTGTGGTCTTCCCAAAGACCTGAAAACCTCCAACCTACGGACACCCAGCTGGCAGA
 GGCATACTTGTACCGCTATGTTACACCCGGGCGCCAGATGATGGGAGAGAAGCAGTCTCTACGGCCG
 GCTTTGCTGATGCTTCAGAAGCAGCTCTCCCTGCCCCAGACTGGTGGAGCTGGACGCCAGACACTAAAGG
 CCATTCGAACACCACGCTGTGGTGTCCAGACGTGGGTCGATTCCAAACCTTCAAAGGCCTCAAGTGGGA
 CCATCATAACATCACATACTGGATCCAAAACACTCTGAAGACTTGCCGCGAGACATGATCGATGACGCC
 TTCGCGCGCGCTTCGCGGTGTGGGGCAGGTGGCACCCCTCACCTTACCCGCGTGTACGGACCCGAAG
 CGGACATTGTATCCAGTTTGGTGTGCGGAGCACGGAGACGGGTATCCCTTCGACGGCAAGGACGGCCT
 TCTGGCACAGCCTTTCCCTTGGCGCCGGCGTTCAAGGAGATGCCATTTGACGACGACGAGTTGTGG
 TCGCTGGGCAAAGGCGTGTGATCCCACTTACTATGAAAACCTCAAATGGTGCCCATGTCACTTTCCCT
 TCACCTTCGAGGGACGCTCCTATTCGGCTGCACCACAGACGGCCGAACGACGGCACGCTTGGTGTAG
 CACAACAGCTGACTACGATAAGGACGGCAAATTTGGTTTCTGCCCTAGTGAGAGACTCTACACGGAGCAC
 GGCAACGGAGAAGGCAAACCTGTGTGTTCCCGTTCATCTTTGAGGGCCGCTCCTACTCTGCCTGCACCA
 CTAAAGGCCGCTCGGATGGTTACCGTGGTGGCCACCACAGCCAATATGACCAGGATAAACTGTATGG
 CTTCTGCCCTACCCGAGTGGACGCGACCGTAGTTGGGGCAACTCGGCAGGAGAGCTGTGCGTCTTCCCT
 TTCGTCTTCTGGCAAGCAGTACTCTTCTGTACCAGCGACGGCCGAGGGATGGGCGCCTCTGGTGTG
 CGACCACATCGAACTTCGACACTGACAAGAAGTGGGTTTCTGTCCAGACCAAGGTACAGCCTGTTCCT
 GGTGGCAGCGCACGAGTTCGGCCATGCACTGGGCTTAGATCATTCCAGCGTGCCGGAAGCGCTCATGTAC
 CCGCTGTATAGCTACCTCGAGGGCTTCCCTCTGAATAAAGACGACATAGACGGCATCCAGTATCTGTATG
 GTCGTGGCTCTAAGCCTGACCAAGGCCTCCAGCCACCACCACAACCTGAACCACAGCCGACAGCACCTCC
 CACTATGTGTCCACTATACCTCCACGGCCTATCCACAGTGGGCCCCACGGTTGGCCCTACAGGGCGC
 CCCTCACCTGGCCCCACAAGCAGCCCGTCACTGGCCCTACAGGGCCCCCTCACCTGGCCCTACAGCGC
 CCCCTACTGCGGGCTCTTCTGAGGCCTCTACAGAGTCTTTGAGTCCGGCAGACAATCCTTGCAATGTGGA
 TGTTTTTGATGCTATTGCTGAGATCCAGGGCGCTCTGCATTTCTCAAGGACGGTTGGTACTGGAAGTTC
 CTGAATCATAGAGGAAGCCATTACAGGGCCCCCTCCTTACTGCCCGCACGTGGCCAGCCCTGCCTGCAA
 CGCTGGACTCCGCTTTGAGGATCCGCAGACCAAGAGGGTTTTCTTCTTCTGACGTCAAATGTGGGT
 GTACACAGGCAAGACCGTGTGGCCCCAGGAGTCTGGATAAGTTGGGTCTAGGCCCAGAGGTAACCCAC
 GTCAGCGGGCTTCTCCCGCTGCTCTCGGGAAGGCTCTGCTGTTGAGCAAGGGGGTGTCTGGAGATTTCG
 ACTTGAAGTCTCAGAAGGTGGATCCCCAGAGCGTCATTGCGTGGATAAAGGAGTTCTCTGGTGTGCCCTG
 GAACTCACACGACATCTCCAGTACCAAGACAAAGCCTATTTCTGCCATGGCAAATCTTCTGGCGTGTG
 AGTTTTCAAATGAGGTGAACAAGGTGGACCATGAGGTGAACCAGGTGGACGACGTGGGCTACGTGACCT
 ACGACCTCTGCAGTGCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226712 representing NM_013599
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MSPWQPLLLALLAFGCSSAAPYQRQPTFVVFPKDLKTSNLTDTQLAEAYLYRYGYTRAAQMMGEKQSLRP
 ALLMLQKQLSLPQTGELDSQTLKAI RTPRCGVPDVGRFQTFKGLKWDHNNITYWIQNYSEDLPRDMIDDA
 FARAFVWGEVAPLTFTRVYGP EADIVIQFGVAEHGDGYPFDGKDGLLAHAFPPGAGVQGDHFDDELW
 SLGKGVVIPITYYNGSNGAPCHFPTFEGRSYSACTTDGRNDGTPWCSTTADYDKDKGFGFCPSERLYTEH
 GNGEGKPCVFPFIFEGRSYSACTTKGRSDGYRWCA TTANYDQDKLYGFCPTRVDATVVGNSAGELCVFP
 FVFLGKQYSSCTSDGRRDGR LWCATTSNFDTDKKWGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMY
 PLYSYLEGFPLNKDDIDGIQYLYGRGSKPDRPPATTTTTPQPTAPPTMCPTIPPTAYPTVGPTVGPTGA
 PSPGPTSSPSGPTGAPSPGPTAPPTAGSSEASTE S LSPADNPCNVDFDAIAEIQGALHFFKDGWYWKF
 LNHRSPLQGPFLTARTWPALPATLDSAFEDPQTKRVFFFSGRQMWVYTGKTVLGPRLDKLGLGPEVTH
 VSGLLPRRLGKALLFSKGRVWRFDLKSQKVD PQSVIRVDKEFSGVPWN SHDIFQYQDKAYFCHGKFFWRV
 SFQNEVNKVDHEVNQVDDVGYVTDLLQCP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_e02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



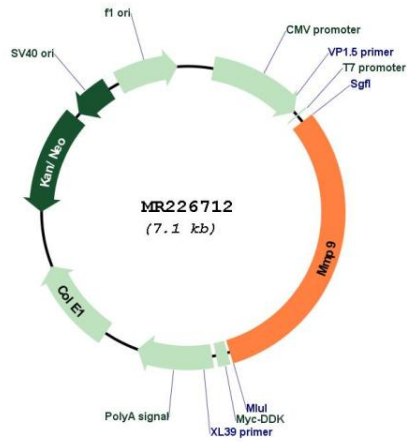
* The last codon before the Stop codon of the ORF

ACCN: NM_013599

ORF Size: 2190 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:	<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:	NM_013599.4 , NP_038627.1
RefSeq Size:	3185 bp
RefSeq ORF:	2193 bp
Locus ID:	17395
UniProt ID:	P41245
Cytogenetics:	2 85.27 cM
MW:	81 kDa
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]

Product images:



Circular map for MR226712