

Product datasheet for **MR209364**

Mmp16 (NM_019724) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp16 (NM_019724) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp16
Synonyms:	MT-MMP 3; MT3-MMP; Mt3mmp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209364 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCTTACTCGCATTAGCTCTGGAAGAAGGTTGGATTCGTGCATCGTTCGGGTGTGTTTTCTTGC
 AAACCTTGCTTTGGATTTTATGTGCTACAGTCTCGGAAACGGAGCAGATTTCAATGTGGAGGTTGGTT
 ACAAAAATACGGCTACCTTCCACCGACTGACCCAGAATGTCAGTGTGCGCTCTGCAGAGACCATGCAG
 TCAGCTCTAGCTGCCATGCAGCAGTTCTATGGCATTAAACATGACAGGAAAAGTGGACAGAAAACAATCG
 ACTGGATGAAGAAGCCTCGATGCGGTGTACCAGACCAGACAAGAGGCAGCTCTAAATTCAACATTCGTCG
 AAAGCGCTACGCATTAAGTGGACAGAAATGGCAACACAAACATATCACTTACAGTATAAAGAACGTAAC
 CCAAAAGTTGGAGATCCTGAGACCCGGAGAGCAATTCGCCGTGCCTTTGATGTGTGGCAGAATGTAAC
 CTCTAACGTTTGAAGAAGTTCCCTACAGTGAAGTGAAGAACGGCAACAGTGTGGATATAACCATCAT
 TTTTGCTTCTGGTTTTTCATGGAGACAGTCCCCATTTGATGGGGAGGGAGGATTTTGGCACATGCTTAT
 TTCCCTGGACCCGGAATTTGGAGGCGACACCCATTTTATTCTGATGAGCCATGGACACTGGGAAATCCCA
 ATCATGATGGAACGATTTATTTCTGTAGCAGTCCATGAGCTGGGACATGCTCTAGGACTGGAACATTC
 CAACGACCCACCGCTATCATGGCCCCATTTTATCAGTACATGGAACAGACAACCTCAAGCTTCCCTAAT
 GATGATTTACAGGGCATCCAGAAGATAATGGTCCACCTGACAAGATCCCTCCACCTACAAGACCTCTAC
 CGACAGTGCCCCCGACCGATCTGTTCCCTCCAGCAGACCCAAGGAGACATGACAGGCCAAAACCTCCTCG
 GCCTCCCACTGGCAGACCCTCCTATCCAGGAGCCAAACCAACATCTGTGATGGGAACTTCAACACTCTA
 GCTATTTCTCGAAGGGAGATGTTGTTTTCAAGGACCAGTGGTTTTGGCGAGTGAAGAAACAGGGTGA
 TGGATGGATACCCAATGCAAATTAATTACTTCTGGCGGGCCTCCTCCAGTATTGATGCAGTTTATGA
 AAACAGTGACGGAAATTCGTCTTCTTTAAAGGCAACAAATACTGGGTGTTCAAAGACACAACCTTCAA
 CCTGGTTACCCTCATGACTTGATTACCCTTGGGAATGGAATCCCCCTCATGGTATTGATTCTGCCATAT
 GGTGGGAAGATGTTGGCAAAACCTATTTCTTCAAAGGTGACAGGTATTGGAGATAGTGAAGAAATGAA
 AACCATGGACCCTGGTTACCCCAAGCCATCACCATCTGGAAGGGGATCCCTGAATCACCTCAGGGAGCT
 TTCGTCCACAAAGAAAATGGCTTACCTATTTCTACAAAGGAAAGGAGTATTGGAAATTCACAATCAGA
 TACTCAAAGTAGAACCTGGTTATCCAAGATCCATCCTCAAGGACTTTATGGGCTGTGATGGACCAACAGA
 CCGAGATAAAGAAGGACTCAGCCACCAGATGATGTAGACATTGCATCAAACCTGGACAACACAGCCAGC
 ACTGTGAAAGCCATAGCTATTGTCAATCCCTGCATCTTGGCCTTATGCCTCCTTGTATTGGTTTACTG
 TGTTCCAGTTCAGAGGAAAGGAACACCCCGCCACATACTGTACTGTAACGCTCTATGCAAGAGTGGGT
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209364 protein sequence
 Red=Cloning site Green=Tags(s)

MILLAFSSGRRLDFVHRSGVFFLQTLWLILCATVCGEQYFNVEVWLQKYGYLPPTDPRMSVLRSAETMQ
 SALAAMQQFYGINMTGKVDNRNTIDWMKKPRCGVPDQTRGSSKFNIRRKRYALTGQKWQHKHITYSIKNVT
 PKVGDPETRRAIRRAFDVWQNVPLTFEEVPYSELENGKRDVDITIIIFASGFHGDSPFDGEGGFLAHAY
 FPGPGIGGDTHFDSDEPWTLGNPNHDGNDLFLVAVHELGHALGLEHSNDPTAIMAPFYQYMETDNFKLPN
 DDLQGIQKIYGPDPKIPPPTRPLTPVPHRSVPPADPRRHDRPKPPRPPTGRPSYPGAKPNICDGNFNTL
 AILRREMFVFKDQWFWVRNRRVMDGYPMQITYFWRGLPPSIDAVYENSNGNFVFKGNKYWVFKDITLQ
 PGYPHDLITLNGIIPPHGIDSAIWWEDVGKTYFFKGDYWRYSSEEMKMDPGYPKPIITWKGIPESPQGA
 FVHKENGFTYFYKKEYWKFNNQILKVEPGYPRILKDFMGCDGPTDRDKEGLSPDDVDIVIKLDNTAS
 TVKAIIVIPCILALCLLVVYTVFQFKRKGTPRHILYCKRSMQEWV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019724

ORF Size: 1824 bp

OTI Disclaimer: 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_019724.5](#)

RefSeq Size: 4576 bp

RefSeq ORF: 1824 bp

Locus ID: 17389

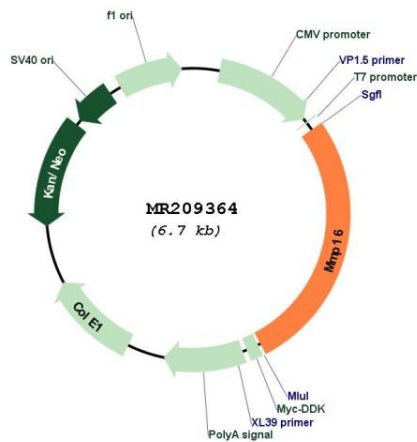
UniProt ID: [Q9WTR0](#)

Cytogenetics: 4 7.08 cM

MW: 69.6 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. Mice lacking the encoded protein exhibit retarded growth of the skeleton, especially in the cranium and long bones. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Circular map for MR209364