

Product datasheet for **RR210363**

Mmp16 (NM_080776) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp16 (NM_080776) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp16
Synonyms:	Mt3-mmp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210363 representing NM_080776
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCTTACTCGCATTAGCTCTGGAAGAAGTTGGATTCGTGCATCGTTCGGGGTGTTTTTCTTCC
 AAACCTTGCTTTGGATTTATGTGCTACAGTCTGCGGAACGGAGCAGATTTCAATGTGGAGTTTGGTT
 ACAGAAATACGGCTACCTTCCACCGACTGACCCAGAATGTCTGTGCTGCGCTCTGCAGAGACCATGCAG
 TCAGCCTTAGCTGCCATGCAGCAGTTCTATGGCATTAAACATGACAGGAAAAGTGGACAGAAAACAATTG
 ACTGGATGAAGAAGCCTCGATGTGGTGTACCAGACCAAACAAGAGGCAGCTCTAAATTCAACATCCGACG
 AAAGCGCTATGCATTAAGTGGCAGAAGTGGCAACACAAGCATATCACTTACAGTATAAAGAACGTAAC
 CCCAAGTTGGAGATCCTGAGACCCGGAGAGCAATTCGCCGTGCCTTTGATGTGTGGCAGAATGTAACAC
 CTCTAACGTTTGAAGAAGTCCCTACAGTGAAGTGAAGAAATGGCAAACGTGATGTGGATATAACCATCAT
 TTTTGCTTCTGGTTTCCATGGAGACAGATCCCCCTTTGATGGGGAGGGAGGATTTTGGCCCATGCTTAT
 TTCCCTGGGCCAGGAATGGAGGCGATACTCATTTTGATTCTGATGAGCCATGGACACTGGGAAATCCCA
 ATCATGATGGAATGATTTATTTCTGTAGCAGTCCATGAGCTGGGACATGCTCTAGGGCTGGAGCATTC
 CAACGACCAACAGCTATCATGGCACCATTTACCAGTACATGGAAACAGACAACCTCAAGCTTCTTAAT
 GATGATTTGCAAGGCATCCAGAAGATAATGGTCCACCTGACAAGATCCCTCCACCTACAAGACCTCTAC
 CGACAGTGCCCTCACCGATCTGTCCCTCCGGCCGACCAAGGAAAAATGACAGGCCAAAACCTCCTCG
 ACCTCCCACTGGCAGACCTTCTATCCAGGAGCCAAACCAACATCTGTGATGGGAACCTCAACACTCTA
 GCTATTTCTGAAGGGAGATGTTGTTTTCAAGGACCAGTGGTTTTGGCGAGTGAGAAACAACAGGGTGA
 TGGATGGATACCCATGCAAATTACTTACTTCTGGCGGGCCTCCTCCAGTATTGATGCAGTTTATGA
 AAACAGTGATGGAAATTTGCTCTTTAAAGGTAACAAATACTGGGTGTTCAAAGACACAACACTCTTCAA
 CCTGGATACCCTCATGACTTGATTACCCTTGGAAATGGAATCCCCCTCATGGTATTGATTCTGCCATAT
 GGTGGGAAGATGTTGGCAAAACCTATTTCTTCAAAGGCGACCGGTATTGGAGATAGTGAAGAAATGAA
 AACCATGGACCCTGGCTATCCCAAGCCATCACCATCTGGAAAGGAATCCCTGAATCACCTCAGGGAGCT
 TTCGTCCACAAGGAAAATGGCTTACCTATTTCTACAAAGGAAAGGAGTATTGAAATTCACAACCCAGA
 TACTCAAAGTAGAACCTGGGTATCCAAGATCCATCCTCAAGGACTTTATGGGCTGTGATGGACCAACAGA
 CCGAGATAAAGAAGGTCTCAGCCACCACCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210363 representing NM_080776
 Red=Cloning site Green=Tags(s)

MILLAFSSGRRLDFVHRSGVFFQTLWILCATVCGETEQYFNVEVWLQKYGYLPPTDPRMSVLRSAETMQ
 SALAAMQQFYGINMTGKVDNRNTIDWMKKPRCGVPDQTRGSSKFNIRRKRYALTGQKWQHKHITYSIKNVT
 PKVGDPETRRAIRRAFVWQNVPLTFEEVPYSELENGKRDVDITIIIFASGFHGD RSPFDGEGFLAHAY
 FPGPGIGGDTHFDSDEPWTGNPNHDGNDLFLVAVHELGHALGLEHSNDPTAIMAPFYQYMETDNFKLPN
 DDLQGIQKIYGPDPKIPPPTRPLTPVPHRSVPPADPRKNDPRKPPRPPTGRPSYPGAKPNICDGNFNTL
 AILRREMFVFKDQWFWVRNRRVMDGYPMQITYFWRGLPPSIDAVYENS DGNFVFFKGNKYWVFKDITLQ
 PGYPHDLITLNGIPPHGIDSAIWWEDVGKTYFFKGDYWRYS EEMKTMDPGYPKPITIIWKGIPESPOGA
 FVHKENGFTYFYKKEYWKFNNQILKVEPGYPR SILKDFMGCDGPTDRDKEGLSPPP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_080776

ORF Size: 1641 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_080776.1](#), [NP_542954.1](#)

RefSeq Size: 3519 bp

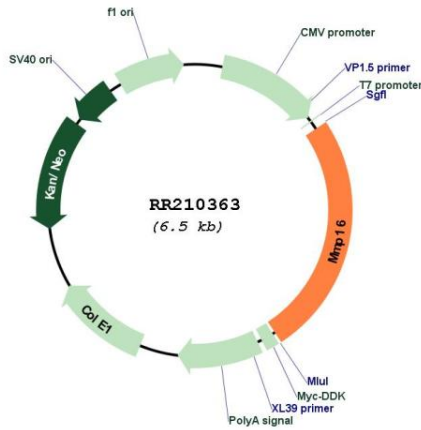
RefSeq ORF: 1644 bp

Locus ID: 65205

UniProt ID: [O35548](#)

Cytogenetics: 5q13
MW: 62.8 kDa
Gene Summary: membrane type matrix metalloproteinase; may be involved in matrix remodeling of blood vessels [RGD, Feb 2006]

Product images:



Circular map for RR210363