

Product datasheet for **RR202548**

Mmp12 (NM_053963) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp12 (NM_053963) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp12
Synonyms:	Mme
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR202548 representing NM_053963
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTGGACTCTGTTGCTGAAAGGAGCTGGCACAATGAAGTTTCTCCTCGTGTGGTGTCTTGTGT
 CCTTACAGGTATCTGCCTGTGGGCTGCTCCCATGAACGAGAGCGAATTTGCTGAATGGTACTTGTCAAG
 ATTTTTGACTATCAAGGGGACAGAATTCGAATGACAAAAACAAAAACCAATAGAAACCTCTAGAAGAA
 AAAGTCCAGGAAATGCAGCAGTTCTTTGGGCTAGAAGTAACTGGGCAACTGGACACCTCAACTCTGAAAA
 TAATGCACACGTCTCGATGTGGAGTGCCTGATGTACAGCATCTTAGAGCAGTGCCCCAGAGGTCAAGATG
 GATGAAGCGGTATCTCACTTACAGGATCTATAATTACACTCCAGACATGAAGCGTGGGATGTAGACTAC
 ATATTTAGAAAGCTTTTCAAGTCTGGAGCGATGTCCTCTAAGATTGAGAAAGATTGATAAGGGC
 AGGCTGACATTACGATACTTTTGCATTTGGAGATCATGGAGACTTCTACGATTTTGTGGCAAAGTGG
 TACCTTAGCCCATGCTTTTTATCCTGGGCCGGTATTCAAGGAGATGCACATTTTGTAGGCGAGAAACC
 TGGACTAAAAGTTTTCAAGGCACAAACCTGTTCTTGTGCTGTTTCATGAGCTTGGCCATTCCTTGGGGC
 TGCCGCATTCCAATAATCCAAAATCAATAATGTACCCTACCTACAGATACCTTACCCCCAACACATTTG
 TCTCTGTGCTGATGACATACACAGCATTAGTCCCTCTACGGAGCCCCAGTGAAAAACCCATCCTTGACA
 AATCCTGGAAGTCCACCATCAACTGTGTGTACCAAAGCTTGAGTTTTGATGCTGTACAAACAGTGGGAG
 ATAAAATCTTTTTCTTTAAAGACTGGTCTTCTGGTGGAGGCTGCCTGGGAGTCCAGCCACCAACATTAC
 TTCAATTTCTCCATGTGGCCAACTATCCCATCTGGTATTCAAGCTGCTTATGAAATTGGAGGCAGAAAT
 CAACTTTTCTTTTAAAGATGAGAAGTACTGGTTAATAAACAACCTGGTACCAGAGCCACACTATCCCA
 GAAGCATACATTCTCTGGGCTTCCCTGCATCTGTAAGAAGATTGATGCAGCTGTCTTTGATCCACTTCG
 CAAAAGGTCTATTTCTTTGTGGATAAAACAATTTGGAGGTACGATGTGAGGCAGGAACTCATGGACGCT
 GCTTACCCCAAGCTGATTTCTACACACTTCCAGGAATCAGGCCAAAAATTGATGCAGTTCTCTATTTCA
 AAAGGCACTACTACATCTTCAAGGAGCCTACCAATTGGAATATGACCCCTTACTGCATCGTGTACACAA
 AACATTGAGCAGTACGAGCTGGTTCGGTTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202548 representing NM_053963
 Red=Cloning site Green=Tags(s)

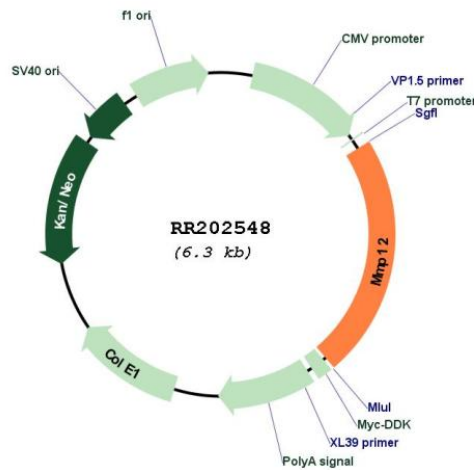
MNWTLLLKGAGTMKFLLVLLVLSLQVSACGAAPMNESEFAEWYLSRFFDYQGDRIPMTKTKTNRNLL
 KLQEMQQFFGLEVTGQLDSTLIMHTSRCVDPVQHLRAVPQRSRWMKRYLTYRIYNYTPDMKRADVDY
 IFQKAFQVWSDVTPLRFRKIHKGEADITILFAFGDHGDFYDFDGKGGTLAHAFYPGPIQGDAHFDEAET
 WTKSFQGTNLFVAVHELGHSLGLPHSNPKSIMYPTRYLHPNTFRLSADDIHSIQSLYGAPVKNPSLT
 NPGSPPSTVCHQSLSFDAVTTVGDKIFFFKDWFVWRLPGSPATNITSISSMWPTIPSGIQAAAYEIGGRN
 QLFLFKDEKYWLINNLVPEPHYPRSIHSLGFPASVKKIDAADFVPLRQKVYFFVDKQYWRVDVRLMDA
 AYPKLISHTFPGIRPKIDAVLYFKRHYIFQGAYQLEYDPLLHRVTKLSSTSWFGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_053963

ORF Size:

1431 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_053963.2](#), [NP_446415.2](#)

RefSeq Size: 1831 bp

RefSeq ORF: 1434 bp

Locus ID: 117033

UniProt ID: [Q63341](#)

Cytogenetics: 8q11

MW: 55 kDa

Gene Summary: a macrophage metalloelastase/matrix metalloproteinase; may have a role in glomerular injury in a crescentic glomerulonephritis [RGD, Feb 2006]