

Product datasheet for **RR211766**

Mmp2 (NM_031054) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp2 (NM_031054) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR211766 representing NM_031054
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCACGATTGGTCTGGGAGTGCTCGTCCGCCCTCTGCGGTTCTCTGCGTCTGTGCTGCCTGC
 TGGGCCACGCCATCGCTGCACCGTCGCCCATCATCAAGTTCCTCCCGCGATGTCTCCCCAAAACAGACAA
 AGAGTTGGCAGTGCAATACCTGAACACTTTCTATGGCTGCCCAAGGAGAGTTGCAACCTCTTTGTGCTG
 AAGGACACCTCAAGAAGATGCAGAAGTTCTTTGGGCTGCCCCAGACAGGTGACCTTGACCAGAACACCA
 TCGAGACCATGCGGAAACCAAGATGTGGCAACCCAGATGTGGCAACTACAACCTCTTTCCCGCAAGCC
 CAAGTGGGACAAGAATCAGATCACATACAGGATCATTGGTTACACACCTGACCTGGACCTGAGACAGTG
 GATGATGCCTTTGCTCGGGCCTAAAAGTATGGAGCGACGTAACCTCCACTACGCTTTTCTCGAATCCATG
 ATGGGGAAGCTGACATCATGATCAACTTTGGTCGATGGGAGCATGGAGATGGATACCCATTTGACGGCAA
 GGACGGACTCCTGGCACATGCCTTTGCCCGGGCACTGGTGTGGGGGAGATTCTCACTTTGATGACGAT
 GAGCTGTGGACTTAGGAGAAGGACAAGTGGTCCGAGTAAAGTATGGGAACGCTGATGGCGAGTACTGCA
 AGTTCCCTTCTTGTAAATGGTCGGGAATACAGCAGCTGCACAGACACTGGCCGGAGTGACGGCTTCTCT
 CTGGTGTCCACCACGTACAACCTTTGAGAAGGACGGCAAATATGGCTTCTGTCCCCACGAAGCCTTGTTT
 ACCATGGGTGGCAATGGAGATGGACAGCCCTGCAAGTTCCTCGTTCAGGGCACCTTTACAACA
 GCTGTACCACCGAGGGCCGTACAGACGGCTACCGCTGGTGTGGCACCACCGAGGATTATGACCGGGATA
 GAAGTATGGATTCTGCCAGAGACTGCTATGTCCACTGTGGGTGGAAATCAGAAGGTGCCCCATGTGTC
 TTCCCTTCACTTTTCTGGGCAACAAGTATGAGAGCTGCACCAGCGCTGGCCGAAGCGATGGCAAGGTGT
 GGTGTGCAACCACAACCAACTACGATGATGACCGGAAGTGGGGCTTCTGTCCCGACCAAGGATATAGCCT
 ATTCTTTGTGGCAGCCCATGAGTTCGGCCATGCCATGGGGCTGGAACACTCACAGGACCTGGAGCTTTG
 ATGGCCCTATCTACACCTACACCAAGAAGTTCGACTATCCAATGATGACATCAAGGGGATCCAGGAGC
 TCTATGGGCCCTCCCCTGATGCTGATACTGACACTGGTACTGGACCCACGCTTCACTGGGACCTGTAC
 TCCCGAGATCTGCAAGCAAGACATTGTCTTTGATGGCATTGCTCAGATCCGTGGTGAGATCTTCTTCTC
 AAGGATCGGTTTATTTGGCGGACAGTGACACCAGTGACAAGCCACAGGTCCCTTGCTGGTGGCCACAT
 TCTGGCCTGAGCTCCCGAAAAGATTGATGCCGTGTACGAGGCCCCACAGGAAGAGAAGGCTGTGTTCTT
 CGCAGGGAATGAGTACTGGTCTATTCTGCCAGCACTTTGGAAAGAGGATACCCCAAGCCACTGACCAGC
 CTGGGTTTACCCCTGATGTCCAGCAAGTAGACGCTGCCTTTAACTGGAGTAAGAACAAGAAGACATACA
 TCTTTTCTGGGGACAAGTTCTGGAGATAAATGAAGTAAAGAAGAAAATGGACCCCGTTTCCCGAAGCT
 CATCGCAGACTCCTGGAATGCCATCCCTGATAACCTGGATGCAAGTTCGTTGGACCTGCAAGGTTGGTGT
 AGCTATTTCTTCAAGGTGCTTATTACCTGAAGTTGGAGAACCAAGTCTGAAGAGTGTGAAGTTTGGAA
 GCATCAAATCGGACTGGCTGGGCTGC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211766 representing NM_031054
 Red=Cloning site Green=Tags(s)

MEARLVWGVLVGPLRVLCVLCCLLGHAI AAPSPIIKFPGDVSPKTDKELAVQYLNTFYGCPKESCNLFVL
 KDTLKKMQKFFGLPQTGDL DQNTIETMRKPRCGNPDVANYNFFPRKPKWDKNQIT YRIIGYTPDLDPETV
 DDAFARALKVWSDVTP LRF SRIHDGEADIMINFGREHGDGYPFDGKDGLLAHAFAPGTGVGGDSHFDDD
 ELWTLGEGQVVRV KYGNADGEYCKFPFLFNGREYSSCTDTGRSDGFLWCSTTYNFEKDGKYGFCPEALF
 TMGGNGDQPCPKF PFRFQGT SYN SCTTEGRTDGYRWC GTTEDYDRDKKYGFCPETAMSTVGGNSEGAPCV
 FPFTFLGNKYESCT SAGRS DGK VWCATTTNYDDDRK WGF CPDQGYSLFLVAAHEFGHAMGLEHSQDPGAL
 MAPIYTYTKNFRL SNDDIKGIQELYGSPDADTDTGTGPTPTLGPVTPEICKQDIVFDGIAQIRGEIFFF
 KDRFIWRTVTPRDKPTG PLLVATFWPELPEKIDAVYEAPQEEKAVFFAGNEYWVYSASTLERYGPKPLTS
 LGLPPDVQQVDAAFNWSKNKTYIFSGDKFWRYNEVKKKMDPGF PKLIADSWNAIPDNLDAVVDLQGGGH
 SYFFKGAYYLKLENQSLKSVKFGSIKSDWLGC

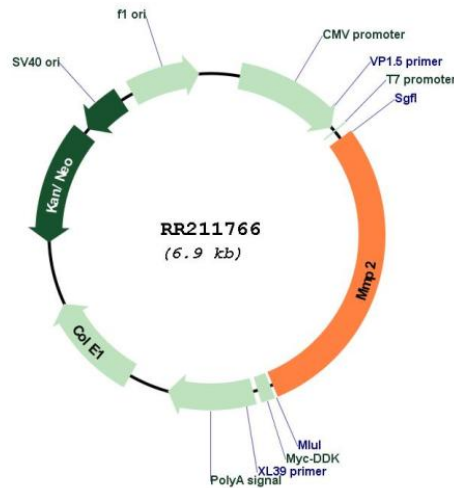
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_031054

ORF Size: 1986 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_031054.2](#), [NP_112316.2](#)
RefSeq Size: 3053 bp
RefSeq ORF: 1989 bp
Locus ID: 81686
UniProt ID: [P33436](#)
Cytogenetics: 19p11
MW: 74.1 kDa
Gene Summary: plays important roles in wound healing, angiogenesis, platelet aggregation, and tumor metastasis; mediates the response of the intrinsic glomerular mesangial cell to inflammatory stimuli [RGD, Feb 2006]