

Product datasheet for **RR201328**

Mmp3 (NM_133523) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp3 (NM_133523) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR201328 representing NM_133523
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGGGCTCCAGTCTGTGGCTGTGTACGGCTGTGTGCTCATCCTACCCATTGCATGGCAGTG
 AAGAAGATGCTGGCATGGAGTTCTGCAGAAATACCTAGAAAACACTATGGTCTTGAAAAGGATGTGAA
 GCAGTTTACTAAGAAAAAGGACAGTAGCCCTGTTGTCAAAAAAATCAAGAAATGCAGAAGTTCCTTGGG
 CTGAAGATGACAGGGAAGCTGGACTCGAACACTATGGAGCTGATGCACAAGCCCCGGTGTGGTGTCCCG
 ACGTCGGTGGCTTCACTACCTTTCCAGGTTACCCAAAATGGAGGAAAAACCACATCTCCTACAGGATTGT
 GAATTATACACTGGATTTACCAAGAGAGAGTGTGGATTCTGCCATTGAGAGAGCTTTGAAGGTCTGGGAG
 GAGGTGACCCCACTCACATTCTCCAGGATCTCTGAAGGAGAGGCTGACATAATGATCTCCTTTCAGTTG
 AAGAACATGGAGACTTTATCCCTTTTATGGCCCTGGAATGGTCTTGGCTCATGCCTATGCCCTGGACC
 AGGGATTAATGGAGATGCTCACTTTGATGATGATGAACGATGGACAGATGATGTCACAGGTACCAACCTA
 TTCCTGGTTGCTGCTCATGAACCTGGCCACTCCCTGGGTCTCTTCACTCAGCCAATGCTGAAGCTTTGA
 TGTACCCAGTCTACAAGTCTCCACAGACCTGGCCCGTTCCATCTCTCAAGATGATGTAGATGGTAT
 TCAATCCCTCTATGGACCTCCCACAGAATCCCCTGATGTCCTCGTGGTACCCACCAAATCTAACTCTCTG
 GACCCTGAGACCTTACCAATGTGTAGCTCTGCTTTGTCCTTCGATGCAGTCAGCACCCCTGCGGGGAGAAG
 TCTTGTCTTTAAAGACAGGCACCTTTGGCGAAAATCTCTCAGGACCCCTGAGCCTGGCTTTTATTTGAT
 CTCTTCATTTTGGCCGTCTTCCATCCAACATGGATGCTGCATATGAAGTTACTAACAGAGACTGTT
 TTCATTCTAAAGGAAATCAGATCTGGGCTATCCGAGGTCATGAAGAGCTAGCAGGTTATCTAAAAGCA
 TTCACACTCTGGCCCTCCCTGAAACCGTCCAGAAGATCGATGCAGCCATTTCTTTAAAGGACAAAAGAA
 GACGTACTTCTTTGTAGAGGACAAATCTGGAGATTTGATGAGAAGAAACAATCCATGGATCCAGGATTT
 CCCAGGAAAATAGCTGAGAACTTTCCAGGCATTGGCACAAAGGTGGATGCTGTCTTTGAAGCATTGGGT
 TTCTTTACTTCTCAGCGGATCTTACAGTTGGAGTTTATCCAATGCAGGAAAAGTGACCCACATATT
 GAAGAGCAACAGCTGGTTAATTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201328 representing NM_133523
 Red=Cloning site Green=Tags(s)

MKGLPVLLWLCTAVCSSYPLHGSEEDAGMEVLQKYLENYYLEKDVKQFTKKKSSPVVKKIQEMQKFLG
 LKMTGKLDNTELMHKPRCGVPDVGGFSTFPSPKWRKNHISYRIVNYTLDLPRESVDSAIERALKVWE
 EVTPLTFSRISEGEADIMISFAVEEHGDFIPFDGPGMVLAHAYAPGPGINGDAHFDDEWTDVDTGTLN
 FLVAHELGHSLGLFHSANAEALMYPVYKSSDLARFHLSDQDDVDGIQSLYGPPTESPDVLPVPTKSNL
 DPETLPMCSSALSFDAVSTLRGEVLFKDRHFWRKSLRTPPEPGFYLISSFWPSLPSNMDDAAYEVNTRDTV
 F.I.L.K.G.N.Q.I.W.A.I.R.G.H.E.E.L.A.G.Y.P.K.S.I.H.T.L.G.L.P.E.T.V.Q.K.I.D.A.A.I.S.L.K.D.Q.K.K.T.Y.F.F.V.E.D.K.F.W.R.F.D.E.K.K.Q.S.M.D.P.G.F
 P.R.K.I.A.E.N.F.P.G.I.G.T.K.V.D.A.V.F.E.A.F.G.F.L.Y.F.F.S.G.S.S.Q.L.E.F.D.P.N.A.G.K.V.T.H.I.L.K.S.N.S.W.F.N.C

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

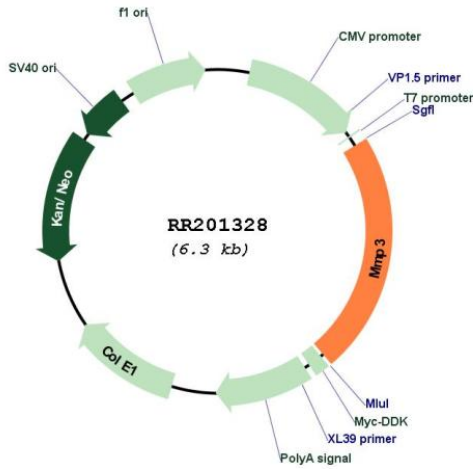
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_133523
 ORF Size: 1425 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:

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_133523.3](#), [NP_598207.2](#)

RefSeq Size: 1827 bp

RefSeq ORF: 1428 bp

Locus ID: 171045

Cytogenetics: 8q11

MW: 53.4 kDa

Gene Summary: endopeptidase that degrades extracellular matrix proteins [RGD, Feb 2006]