

Product datasheet for **RR207171**

Mmp10 (NM_133514) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp10 (NM_133514) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207171 representing NM_133514
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCACTGGCCATCCTGGTGTCTGTGCTTTCCGATCTGCTCAGCATATCCTCTGCATGGGGCAG
 TGAGACAAGACCACTCAACCATGGATCTTGCTCAGCAATACCTAGAAAAATACTACAACCTTAGAAAAA
 TGAGAAACAATTTTTCAAAGAAAGGACAGTAGTCCTGTTGTCAAAAAAATTGAAGAAATGCAGAAGTTC
 CTTGGGCTGGAGATGACAGGGAAGCTGGACTCGAACACTGTGGAGATGATGCACAAGCCCGGTGTGGTG
 TTCCCACGTTGGTGGCTTCAGTACCTTCCAGGTTACCCAAATGGAGGAAAAACCACATCTCCTACAG
 GATTGTGAATTACACTGGATTACCAAGAGAGAGTGTGGATTCTGCCATTGAGAGAGCTTTGAAGGTC
 TGGGAGGAGGTGACCCCACTCACATTCTCCAGGATCTCTGAAGGAGAGGCTGACATAATGATCTCCTTTG
 CAGTTGGAGAACATGGAGACTTTTACCCTTTTGTGGAGTGGGACAGAGCTTGGCTCATGCCTACCACC
 TGGCCCTGGATTTATGGAGATGCTCATTGATGATGATGAGAAATGGTCACTGGGACCCTCAGGGACC
 AATTTATTCCTGGTTGCTGCGCATGAACTTGGTCACTCCCTGGGTCTTTCACTCAAACAACAAAGAAT
 CTCTGATGATACCCAGTCTACAGTTCTCCACGAGCCAAGCCAACATTTCGCTTTCTCAGGATGATATAGA
 GGGCATTCAATCCCTGTATGGAGCCCGCCCTCCTCTGATGCCACAGTGGTTCTGTGCCCTCTGTCTCT
 CCAAAACCTGAGACCCCACTCAATGTGATCCTGCTTTGTCTTTGATGCAGTACCATGCTGAGAGGGG
 AATTCCTATTCTTTAAAGACAGGCATCTTGGCGTAGAACCCAGTGAATCCCGAGCCTGAATCCATTT
 GATTTGAGCATTGTCCTTCTTCTCAGGCTTAGATGCTGCCTATGAGGCAATAACAAGGACAGA
 GTTCTGATTTTTAAAGGAAGTCAGTCTGGGCAGTCCGAGGAAATGAAGTCCAAGCAGGTTACCCAAAGA
 GGATCCACACTTTGGCTTTCTCCACCGTGAAGAAGATTGATGCAGCTGTTTTTGAAGGAGAGAAGAA
 GAAGACGTATTTCTTTGTAGGTGACAAATACTGGAGATTTGATGAGACAAGACAGCTTATGGATAAAGGC
 TTCCCAGACTGATAACAGATGACTTCCAGGAATTGAGCCACAAGTTGATGCTGTGTTACATGCATTTG
 GGTTTTTTTATTTCTTCTGTGGATCATCACAGTTCGAGTTGACCCCAATGCCAGGACGGTGACACACAC
 ACTGAAGAGCAACAGCTGGCTGTTGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207171 representing NM_133514
 Red=Cloning site Green=Tags(s)

MEPLAILVLLCFPICSAAYPLHGAVRQDHSTMDLAQQYLEKYNNFRKNEKQFFKRKDSPPVVKIEEMQKF
 LGLEMTGKLDNTVEMMHKPRCGVPDVGGFSTFPSPKWRKNHISYRIVNYTLDLPRESVDSAIERALKV
 WEEVTPLTFSRISEGEADIMISFAVGEHGFYPFDVGVQSLAHAYPPGPGFYGDAHFDDEKWSLGPST
 NLFLVAHELGHSLGLFHSNNKESLMYPVYRFSTSQANIRLSQDDIEGIQSLYGARPSDDATVVPVPSVS
 PKPETPVKCDPALSFDAVTMLRGEFLFFKDRHFWRRTQWNPEPEFHLISAFWPSLPSGLDAAEANNKDR
 VLIFKGSQFWAVRGNEVQAGYPKRIHTLGFPTVKKIDAAVFEKEKKTYFFVGDKYWRFDETRQLMDKG
 FPRLITDDFPGIEPQVDAVLHAFGFFYFFCGSSQFEFDPNARTVHTLKSNSWLLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

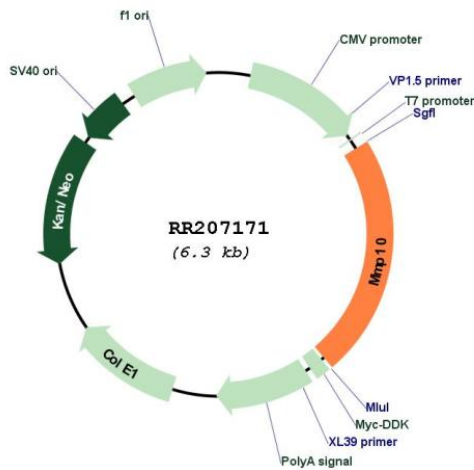
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_133514
 ORF Size: 1428 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_133514.1 , NP_598198.1
RefSeq Size:	1717 bp
RefSeq ORF:	1431 bp
Locus ID:	117061
UniProt ID:	P07152
Cytogenetics:	8q11
MW:	54.2 kDa
Gene Summary:	enzyme and a transformation-associated protein; activates procollagenase and degrades fibronectin and some gelatins [RGD, Feb 2006]