

Product datasheet for **RR201294**

Mmp8 (NM_022221) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mmp8 (NM_022221) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mmp8
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201294 representing NM_022221
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCACTGAAGACACTTCCATTTCTGTTCTTCTCCACACACAGCTTGCCACAGCCCTCCCAGTGC
CTCCAGAACACCTGGAAGAGAAAAATATGAAAAGTCTGAGAATTACCTACGAAAATTTACCACCTTACC
AAGCAATCAGTTCGGTCTGCAAGGAATGCCACTATGATTGCCGAGAAGCTTAAGGAGATGCAGCGCTTC
TTCGGCTTGCCCGAGACAGGGAAGCCAGATGCAGCTACAATAGAGATAATGGAAAAGCCTCGCTGTGGAG
TGCCCGACTCTGGTGATTTCTTGCTAACTCCGGGAAGCCCAAGTGGACACACACTAACCTGACCTACAG
GATTATAAACCATACCCACAGATGTCAAAGGCTGAAGTGAAGAACAGAAATCGAGAAAGCTTTAAATC
TGGAGTGTCCATCAACCCTGACCTTCACTGAGACCTTAGAGGGAGAAGCAGACATCAACATTGCTTTTCG
TCTCAAGAGACCATGGTGACAATTTCCATTTGATGGACCCAATGGAATCCTTGCCCATGCCTTTCAACC
AGGCCGGGTATTGGAGGAGATGCACATTTTATTGATCAGAAGAACGTGGACTCAAGACTCCAAGAATTAC
AACCTGTTTCTCGTGGCTGCTCATGAATTTGGACATTCCTGGGACTCTCTCACTCCACTGATCCTGGTG
CCTTGATGTACCCAACTATGCTTACAGAGAACCAGCACCTATTCACCTCAAGATGATATCAATGG
AATTCAGACAATCTATGGACCTTCAGACAACCCTGTCCAACCTACTGGACCCAGCAGCCACAGCCTGT
GACCCCACTGAGATTTGATGTGCCACCACACTCCGTGGGGAGATTTACTTCTTTAAAGACAAGTACT
TCTGGAGACGGCATCCCCAGCTGAGAACAGTTGACCTCAATTTTATATCTCTGTTCTGGCCCTTCTTACC
TAATGGTCTTCAGGCTGCTTATGAAGACTTTGATAGAGACCTAGTTTTCTATTTAAAGGCAGACAGTAC
TGGGCTCTAAGTGCTATGACTTGACAGCAAGGTTACCCAGAGATATATCCAACCTATGGATTTCCAAAGGA
GTGTCCAAGCCATTGATGCAGCTGTTTCTATAACGGGAAGACATACTTCTCGTAAACAACCAATGCTG
GAGATACGACAATCAAAGAAGATCCATGGATCCAGGTTACCCACTAGCATAGCAAGCGTGTTCACAGGA
ATAAAGTGTAGAATTGATGCAGTTTTCCAGCAGGATTCCTTCTCTCTTCTTCACTGGACCACAATAT
TTGCATTTAATCTTGTCAGTCGACAGACTAGAGTTGCAAGAAGCAATTTATGGCTTAACTGTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR201294 representing NM_022221
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MLHLKTLPLFFHTQLATALPVPPEHLEEKNMKTAENYLRFYHLPSNQFRSARNATMIAEKLKEMQRF
 FGLPETGKPDAAIEIMEKPRCGVPDSDGDFLLTPGSPKWTHTNLTYRIINHTPQMSKAEVKTEIEKAFKI
 WSPVSTLTFETLEGEADINIAFVSRDHGDNSPFDGPNGILAHAFQPRGIGGDAHFDSEETWTQDSKNY
 NLFLVAAHEFGHSLGLSHSTDPGALMPNYAYREPSTYSLPQDDINGIQTIIYGPSDNVPVQPTGPSTPTAC
 DPHLRFDAATTLRGEIYFFKDKYFWRHPQLRTVDLNFISLFWPFLPNGLQAAYEDFDRDLVFLFKGRQY
 WAL SAYDLQQGYPRDISNYGFPRSVQAIDAAVSYNGKTYFFVNNQCWRYDNQRRSMDPGYPTSIASVFPG
 INCRIDAVFQQDSFFLFFSGPQYFAFNLVSRRVTRVARSNLWLNCP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

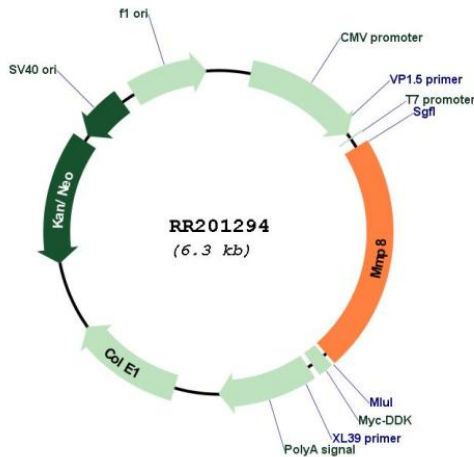
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_022221
ORF Size:	1398 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:	<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_022221.1 , NP_071557.1
RefSeq Size:	1401 bp
RefSeq ORF:	1401 bp
Locus ID:	63849
UniProt ID:	O88766
Cytogenetics:	8q11
MW:	53.3 kDa
Gene Summary:	mouse homolog is a neutral metalloproteinase of the fibrillar collagenase family [RGD, Feb 2006]