

Product datasheet for **RR204885**

Mmp11 (NM_012980) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp11 (NM_012980) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp11
Synonyms:	ST3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204885 representing NM_012980
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACGGGCCCTGTCTCCTCCGCGGATCTCGCGGCCCTCCTGCTCCCGCTTCTCTGCTGCTCC
 TGTTGCTGCTTCTCCTGCCGCCGAGCTGATGGCCCGGGCCAGGCCACCGAGAATCACCGTCACCGCCC
 TGTGAAGAGAGTGCCTCAGCTCCTGCCCGAGCTCTGCCTAATAGCTTGGCGTCTGTCCCGCCTCCCAT
 TGGGTCCCTGGTCTGCTAGTAGCTCCAGACCTTACGATGTGGTGTGCCTGACCCGCCGGATGACTGA
 ATGCCCGAAACCGCAGAAGCGCTTCGACTGTGGGAGGGCGCTGGGAGAAGACAGACCTCACTTATAG
 GATCCTCCGTTCCCATGGCACTTGTAAAGGAGCAGGTGCGGCAGACGGTGGCAGAGGCCCTCCGGGTA
 TGGAGTGAGGTGACTCCGCTCACTTTCACCGAGGTGCACGAGGGACGCGTGCATCATGATTGACTTCA
 CCAGTACTGGCATGGGACAACCTGCCATTTCGATGGGCTGGGGCATCCTGGCCCATGCCTTCTTCCC
 TAAGACCACCGAGAAGGGGATGTACACTTTGACTATGACGAGACTTGGACTATTGGGACAAGGGCACA
 GACCTGTACAAGTGGCAGCTCATGAATTTGGTTCATGTTCTGGGCTGCAACACACCACAGCAGCTAAGG
 CCCTCATGTCCCTTTTACACCTTCCGCTACCCTCTGAGCCTTAGCCAGATGACCCGAGGGGCATCCA
 GCACCTCTATGGCCGGCCCCAGCTGACCCACCTCCCAACCCCAACCTTGAGCTCCCAGGCTGGGACA
 GATACCAATGAGATTGCACTGCAGGAGCCGAAGTCCCTCCAGAAGTCTGTGAGACCTCCTTTGACGCAG
 TTTCCACCATCCGAGGCGAGCTCTTCTTCAAGGCGGGCTTTGTGGAGGCTGCGCAGTGGGCAACT
 GCAGCTGGGTATCCTGCTCTGGCCTCTCGGACTGGCAGGGACTACCCAGTCTGTGGATGCAGCTTTT
 GAGGATGCCAGGGCCAGATTTGGTCTTCCAAGGTGCTCAGTACTGGTATATGACGGTGAAGCCAG
 TCCTAGGCCCGCACCACTCTCCAAGCTGGGCTGCAGGGTCCCGGTCATGCTGCTTGGTCTGGGG
 TCTTGAGAAGAACAAGATCTACTTCTCCGAGGTGGAGACTATTGGCGTTTCCACCCAGAACCCACCA
 GTGGACAATCCGCTGCCCGACGTACCCTGACTGGCGGGGGTACCTTCTGAGATTGATGCTGCTTTCC
 AGGATGCTGAGGGCTATGCCTACTTCTTCGTGGCCATCTCTACTGGAAGTTTGACCCTGTGAAGGTGAA
 AGTCTGGAAAGTTTCCCTCGACCCATAGGTCCCGACTTCTTTGACTGTGCAGAGCCCGCCAACACTTTC
 CGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204885 representing NM_012980
 Red=Cloning site Green=Tags(s)

MARAACLRAISRALLLPLPLLLLLLLLLPPQLMARARPPENHRHRPVKRVQLLPAALPNSLPSVPASH
 WVPGPASSRPLRCGVDPDVLNARNRQKRFVLSGGRWEKTDLYRILRFPWQLVREQVRQTVAEALRV
 WSEVTPLTFTEVHEGRADIMIDFTRYWHDNLPFDGPGGILAHAFPKTHREGDVHFDYDETTWIGDKGT
 DLLQVAHEFGHVLGLQHTTAALKMSPFYTFRYPLSLSPDRRGIQHL YGRPQL TPTSPPTLSSQAGT
 DTNEIALQEPEVPPEVCETSFDAVSTIRGELFFKAGFVWRLRSGQLQPGYPALASRHWGLPSVDAAF
 EDAQGQIWFQGAQYWVYDGEKPVLPAPLSKLLQGSPVHAALVWGPEKNKIYFRGGDYWRFHPRTQR
 YDNPVPRRTTDRGVPSEIDAAFQDAEGYAYFLRGHLYWKFDPVKVKVLESFPRPIGPDFFDCAEPANTF
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

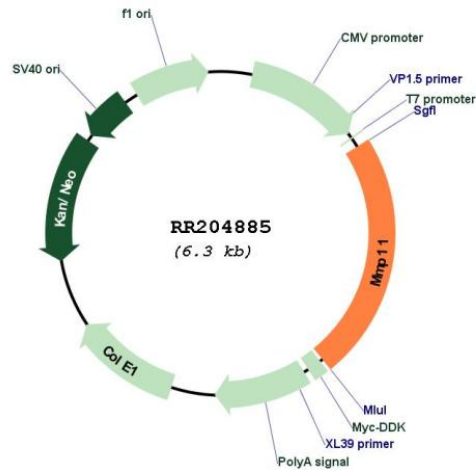
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_012980

ORF Size: 1473 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_012980.2](#), [NP_037112.2](#)

RefSeq Size: 2253 bp

RefSeq ORF: 1476 bp

Locus ID: 25481

UniProt ID: [Q499S5](#)

Cytogenetics: 20p12

MW: 55.5 kDa

Gene Summary: member of the matrix metalloproteinase (MMP) family; may mediate tissue remodeling, highly expressed in healing skin [RGD, Feb 2006]