

## **Product datasheet for MR227350**

## Mmp7 (NM\_010810) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Mmp7 (NM\_010810) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Mmp7

Synonyms: MA; MAT; MMP-7

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR227350 representing NM\_010810

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCAGCTATGCAGCTCACCCTGTTCTGCTTTGTGTGTCTGCCAGGCCACGCCACCTGGCCCTGCCACTGT
CCCAGGAAGCTGGAGATGTGAGCGCACATCAGTGGGAACAGGCTCAGAATTATCTTAGAAAAATTTTACCC
TCATGACTCTAAAACAAAGAAGGTCAATAGTCTAGTGGACAACCTCAAGGAAATGCAGAAGTTCTTTGGC
CTGCCCATGACTGGAAAACTCTCCCCCTACATCATGGAAAATAATGCAGAAACCTAGGTGTGGAGTGCCAG
ATGTTGCAGAATACTCACTAATGCCAAACAGTCCAAAATGGCATTCCAGAATTGTCACCTACAGAATTGT
ATCCTATACTTCAGACTTACCTCAGGATCGTAGTGGATCAAAATCGTGAAAAAAAGCTCTCAGAATGTGGAGT
ATGCAGATCCCACTGAACTTCAAGAGGGTTAGTTGGGGGACTGCGGATATCATAATTGGCTTCGCAAGGA
GAGATCATGGAGACACCTCTCCCCTTTGATGGGCCAGGGAACACTCTAGGTCATGCCTTCGCACCTGGGCC
AGGCCTAGGCGGAGATGCTCACTTTGACAAGGATGATCATGATTGGACTGATGGTGAGGACGCAGGAGTGAAC
TTCCTGTTTGCCACCCATGAATTTGGCCACTCTCTGGGTCTGAGTCACTCTTCTGTTCCCGGTACTG
TGATGTACCCTACCTATCAAAGAGACTACTCAGAAGACTTCAGTCTTACAAAGGACGACATTGCAGGCAT

TCAGAAGTTATATGGAAAGAGGAACACGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227350 representing NM\_010810

Red=Cloning site Green=Tags(s)

MAAMQLTLFCFVCLLPGHLALPLSQEAGDVSAHQWEQAQNYLRKFYPHDSKTKKVNSLVDNLKEMQKFFG LPMTGKLSPYIMEIMQKPRCGVPDVAEYSLMPNSPKWHSRIVTYRIVSYTSDLPRIVVDQIVKKALRMWS MQIPLNFKRVSWGTADIIIGFARRDHGDSFPFDGPGNTLGHAFAPGPGLGGDAHFDKDEYWTDGEDAGVN FLFAATHEFGHSLGLSHSSVPGTVMYPTYQRDYSEDFSLTKDDIAGIQKLYGKRNTL

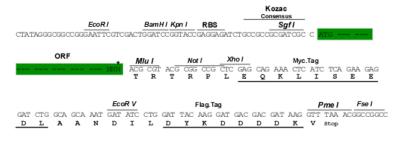
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mm9044">https://cdn.origene.com/chromatograms/mm9044</a> b07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_010810

ORF Size: 801 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 <a href="mailto:customercom">customercom</a> 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. <u>More info</u>

**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: <u>NM 010810.5</u>, <u>NP 034940.2</u>

RefSeq Size: 878 bp
RefSeq ORF: 804 bp
Locus ID: 17393

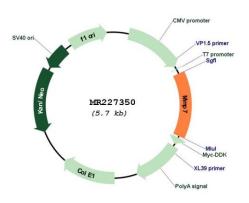
Cytogenetics: 9 2.46 cM MW: 30.5 kDa

Gene Summary:

This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, wound repair, progression of atherosclerosis and tumor invasion. The encoded preproprotein undergoes proteolytic processing to generate a mature, zinc-dependent endopeptidase enzyme. Mice lacking the encoded protein are deficient in functional cryptdins. This gene is located in a cluster of other

matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Feb 2016]

## **Product images:**



Circular map for MR227350