

Product datasheet for **MR220750**

Mmp24 (NM_010808) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp24 (NM_010808) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp24
Synonyms:	AU040325; MMP-21; MT5-MM; MT5-MMP; MT5MMP; MTMMP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220750 representing NM_010808
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGAGGAGCCGGGGCGCCGCTGCGCCGGGCCAGGCCTCGCGCTGGAGCGGCTGGCGGGCCCCGG
 GCGGCTGCTGCCGCTGCTGCCCGCTCTGCTGCCTCGCGGCGCGCGGGGGCCGGAAGCCGGCCGG
 GGCGGACGCGCCCTTCGCTGGGAGAACTGGTAAAAATCATATGGCTATCTGCTTCCCTATGAGTCGCGG
 GCATCTGCGTTGCATTCTGGGAAGGCCTTGCACTCCGCGGTCTCCACTATGCAGCAGTTTACGGGATCC
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 AACATCTGCGATGGCAACTTCAACACAGTGGCCCTCTTCCGAGGGGAGATGTTTGTGTTCAAGGATCGCT
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 CACCTACTATAAGCGCCCGGTCCAGGAGTGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220750 representing NM_010808
 Red=Cloning site Green=Tags(s)

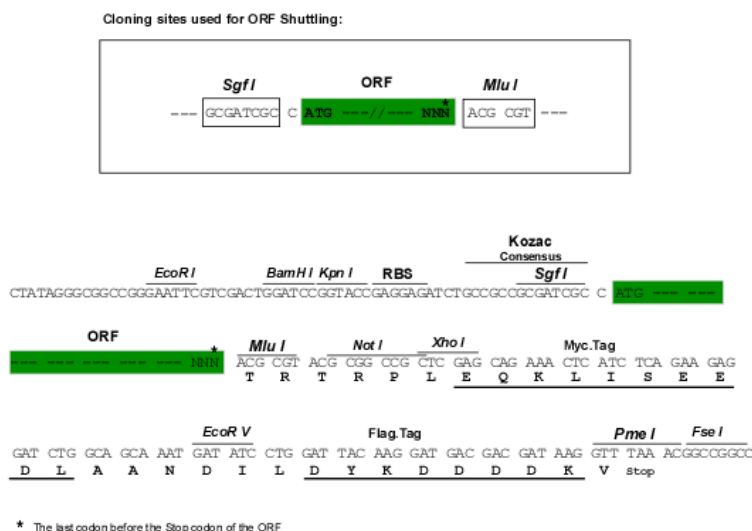
MPRSRGRAAPGQASRWSGWRAPGRLLPLLPALCCLAAAAGAGKPAGADAPFAGQNWLKSYGYLLPYESR
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 NTCDFGNFTVALFRGEMFVKDRWFRLRNNRVQEGYPMQIEQFWKGLPARIDAAAYERADGRFVFFKGD
 YWVFKEVTVEPGYPHSLGELGSLPREGIDTALRWEVPVKTYFFKGERYWRYSEERRATDPGYPKPITVW
 KGIPQAPQGAFIGKEGYTYFYKGRDYWKFDNQKLSVEPGYPRNLRDWMGCKQKEVERRKERRLPQDDV
 DIMVTIDDPGVSNAVAVVPCTLSLCLLVLLYTFQFKNKAGPQPVTYKRPVQEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9014_e07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 010808

ORF Size: 1854 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM 010808.4, NP 034938.3

RefSeq Size: 4304 bp

RefSeq ORF: 1857 bp

Locus ID: 17391

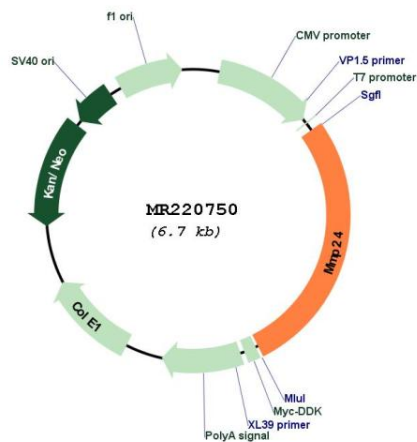
UniProt ID: [Q9R0S2](#)

Cytogenetics: 2 77.26 cM

MW: 70.9 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 do not develop neuropathic pain with mechanical allodynia after sciatic nerve injury, display enhanced sensitivity to noxious thermal stimuli under basal conditions, and develop hyperalgesia during inflammation. [provided by RefSeq, Feb 2016]

Product images:



Circular map for MR220750