

Product datasheet for **RC210391**

MMP8 (NM_002424) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP8 (NM_002424) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MMP8
Synonyms:	CLG1; HNC; MMP-8; PMNL-CL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210391 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTCCCTGAAGACGCTTCCATTTCTGCTCTTACTCCATGTGCAGATTTCCAAGCCTTTCCTGTAT
 CTTCTAAAGAGAAAAATACAAAACTGTTCAAGACTACCTGAAAAAGTTCTACCAATTACCAAGCAACCA
 GTATCAGTCTACAAGGAAGAATGGCACTAATGTGATCGTTGAAAAAGCTTAAAGAAATGCAGCGATTTTTT
 GGGTTGAATGTGACGGGGAAGCCAAATGAGGAACTCTGGACATGATGAAAAAGCCTCGCTGTGGAGTGC
 CTGACAGTGGTGGTTTTATGTTAACCCAGGAAACCCCAAGTGGGAACGCACTAATTGACCTACAGGAT
 TCGAAACTATACCCACAGCTGTCAGAGGCTGAGGTAGAAAGAGCTATCAAGGATGCCTTTGAACCTGG
 AGTGTTCATCACCTCTCATCTTACCAGGATCTCACAGGGAGAGGCAGATATCAACATTGCTTTTTACC
 AAAGAGATCACGGTGACAATTCTCCATTTGATGGACCAATGGAATCCTTGCTCATGCCTTTCAGCCAGG
 CCAAGGTATTGGAGGAGATGCTCATTGATGCCGAAGAACATGGACCAACACCTCCGCAAATTACAAC
 TTGTTTCTGTTGCTGCTCATGAATTTGGCCATCTTTGGGGCTCGCTCACTCCTCTGACCTGGTGCCT
 TGATGTATCCCAACTATGCTTTCAGGAAACCAGCAACTACTCACTCCCTCAAGATGACATCGATGGCAT
 TCAGGCCATCTATGGACTTTCAAGCAACCTATCCAACCTACTGGACCAAGCACACCCAAACCTGTGAC
 CCCAGTTTGACATTTGATGCTATCACCACTCCGTGGAGAAATACTTTTCTTTAAAGACAGGACTTCT
 GGAGAAGGCATCCTCAGTACAAAGAGTCGAAATGAATTTTATTCTCTATTCTGGCCATCCCTTCCAAC
 TGGTATACAGGCTGCTTATGAAGATTTGACAGAGACCTCATTTTCTATTTAAAGGCAACCAACTACTGG
 GCTCTGAGTGGCTATGATATTCTGCAAGGTTATCCAAGGATATCAAACATGCTTCCCCAGCAGCG
 TCCAAGCAATTGACGAGCTGTTTTCTACAGAAGTAAAACATACCTCTTTGTAATGACCAATTTCTGGAG
 ATATGATAACCAAGACAATTCATGGAGCCAGGTTATCCCAAAAGCATATCAGGTGCCTTTCCAGGAATA
 GAGAGTAAAGTTGATGCAGTTTTCCAGCAAGAATTTCTTCCATGTCTTCAAGTGGACCAAGATATTACG
 CATTGATCTTATTGCTCAGAGAGTTACCAGAGTTGCAAGAGGCAATAAATGGCTTAACTGTAGATATGG
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210391 protein sequence
 Red=Cloning site Green=Tags(s)

MFSLKTLPFLLLLHVQISKAFPVSSKEKNTKTVDYLEKQYQLPSNQYQSTRKNGTNVIVEKLEKEMQRFF
 GLNVTGKPN EETLDMKKPRCGVPDSSGGFMLTPGNPKWERTNLTYRIRNYTPQLSEAEVERAIKD A FELW
 SVASPLIFTRISQGEADINIAFYQRDHGDN SPFDGPNGLAHAFQPGQIGGDAHFDAEETWNTSANYN
 LFLVAAHEFGHSLGLAHSSDPGALMYPNYAFRETSNYSLPQDDIDGIQAIYGLSSNPIQPTGPSTPKPCD
 PSLTFDAITTLRGEILFFKDRYFWRHPQLQRVEMNFISLFWPSLPTGIQAAAYEDFDRDLIFLFGKNQYW
 ALSGYDILQGYPKDISNYGFPSSVQAIDAAVFYRSKTYFFVNDQFWRYDNQRQFMEPGYPKISISGAFPGI
 ESKVDAVVFQQEHFFHVFSGPRYYAFDLIAQRVTRVARGNKWLNCRYG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6137_a08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002424

ORF Size: 1401 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_002424.3](#)

RefSeq Size: 3056 bp

RefSeq ORF: 1404 bp

Locus ID: 4317

UniProt ID: [P22894](#)

Cytogenetics: 11q22.2

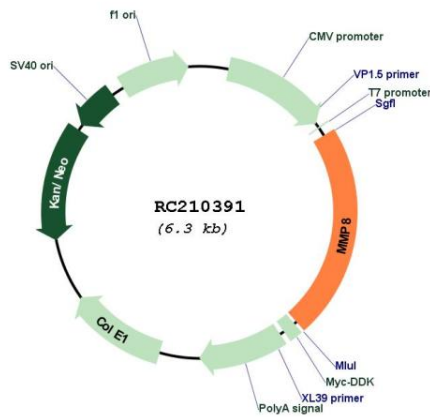
Domains: hemopexin, Peptidase_M10, ZnMc

Protein Families: Druggable Genome, Protease

MW: 53.4 kDa

Gene Summary: This gene encodes a member of the matrix metalloproteinase (MMP) family of proteins. These proteins are involved in the breakdown of extracellular matrix in embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Proteolysis at different sites on this protein results in multiple active forms of the enzyme with distinct N-termini. This protein functions in the degradation of type I, II and III collagens. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RC210391