

## Product datasheet for **RG210391**

### **MMP8 (NM\_002424) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MMP8 (NM_002424) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MMP8
Synonyms:	CLG1; HNC; MMP-8; PMNL-CL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210391 representing NM\_002424  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCTCCCTGAAGACGCTTCCATTTCTGCTCTTACTCCATGTGCAGATTTCCAAGGCCTTTCCTGTAT  
 CTTCTAAAGAGAAAAATACAAAACTGTTCAAGACTACCTGAAAAAGTTCTACCAATTACCAAGCAACCA  
 GTATCAGTCTACAAGGAAGAATGGCACTAATGTGATCGTTGAAAAAGCTTAAAGAAATGCACGGATTTTTT  
 GGGTTGAATGTGACGGGGAAGCCAAATGAGGAACTCTGGACATGATGAAAAAGCCTCGCTGTGGAGTGC  
 CTGACAGTGGTGGTTTTATGTTAACCCAGGAAACCCCAAGTGGGAACGCACTAATTGACCTACAGGAT  
 TCGAAACTATACCCACAGCTGTCAGAGGCTGAGGTAGAAAGAGCTATCAAGGATGCCTTTGAACCTGG  
 AGTGTTCATCACCTCTCATCTTACCAGGATCTCACAGGGAGAGGCAGATATCAACATTGCTTTTTACC  
 AAAGAGATCACGGTGACAATTCTCCATTTGATGGACCAATGGAATCCTTGCTCATGCCTTTCAGCCAGG  
 CCAAGGTATTGGAGGAGATGCTCATTGATGCCGAAGAACATGGACCAACACCTCCGCAAATTACAAC  
 TTGTTTCTGTTGCTGCTCATGAATTTGGCCATTTTGGGGCTCGCTCACTCCTCTGACCTGGTGCCT  
 TGATGTATCCCAACTATGCTTTCAGGGAACCAGCAACTACTCACTCCCTCAAGATGACATCGATGGCAT  
 TCAGGCCATCTATGGACTTTCAAGCAACCTATCCAACCTACTGGACCAAGCACACCCAAACCTGTGAC  
 CCCAGTTTGACATTTGATGCTATCACCACTCCGTGGAGAAATACTTTCTTTAAAGACAGGACTTCT  
 GGAGAAGGCATCCTCAGCTACAAAGAGTCGAAATGAATTTTATTCTCTATTCTGGCCATCCCTTCCAAC  
 TGGTATACAGGCTGCTTATGAAGATTTGACAGAGACCTATTTTCTATTTAAAGGCAACCAATACTGG  
 GCTCTGAGTGGCTATGATATTCTGCAAGGTTATCCCAAGGATATCAAACATGGCTTCCCAGCAGCG  
 TCCAAGCAATTGACGAGCTGTTTTCTACAGAAGTAAAACATACTCTTTGTAATGACCAATTCAGG  
 ATATGATAACCAAGACAATTCATGGAGCCAGGTTATCCCAAAAGCATATCAGGTGCCTTTCCAGGAATA  
 GAGAGTAAAGTTGATGCAGTTTTCCAGCAAGAACATTTCTCCATGTCTTCAAGTGGACCAAGATATTACG  
 CATTGATCTTATTGCTCAGAGGTTACCAGAGTTGCAAGAGGCAATAAATGGCTTAACTGTAGATATGG  
 C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG210391 representing NM\_002424  
 Red=Cloning site Green=Tags(s)

MFSLKTLPFLLLLHVQISKAFPVSSKEKNTKTVDYLEKQYQLPSNQYQSTRKNGTNVIVEKLEKEMQRFF  
 GLNVTGKPN EETLDMKKPRCGVPDSSGGFMLTPGNPKWERTNLTYRIRNYTPQLSEAEVERAIKDAFELW  
 SVASPLIFTRISQGEADINIAFYQRDHGDNPFDPNGILAHAFQPGQIGGDAHFDAEETWNTNSANYN  
 LFLVAAHEFGHSLGLAHSSDPGALMYPNYAFRETSNYSLPQDDIDGIQAIYGLSSNPIQPTGPSTPKPCD  
 PSLTFDAITTLRGEILFFKDRYFWRHPQLQRVEMNFISLFWPSLPTGIQAAYEDFDRDLIFLFGKNQYW  
 ALSGYDILQGYPKDISNYGFSSVQAIDA AVFYRSKTYFFVNDQFWRYDNQRQFM EPGYPKSI SGAFPGI  
 ESKVDAVFQQEHFFHVFSGPRYYAFDLIAQRVTRVARGNKWLNCRYG

**TR**TRPLE - GFP Tag - V

**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:** 2223 bp

**RefSeq ORF:** 1404 bp

**Locus ID:** 4317

**UniProt ID:** [P22894](#)

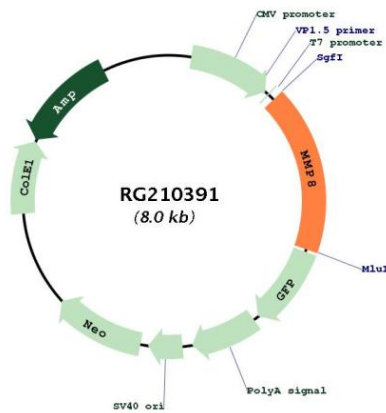
**Cytogenetics:** 11q22.2

**Domains:** hemopexin, Peptidase\_M10, ZnMc

**Protein Families:** Druggable Genome, Protease

**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 RG210391