

Product datasheet for **SC127843**

MMP8 (NM_002424) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP8 (NM_002424) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMP8
Synonyms:	CLG1; HNC; MMP-8; PMNL-CL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127843 sequence for NM_002424 edited (data generated by NextGen Sequencing)

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ATGTTCTCCCTGAAGACGCTTCCATTTCTGCTCTTACTCCATGTGCAGATTTCCAAGGCC
TTTCTGTATCTTCTAAAGAGAAAAATACAAAACTGTTCCAGGACTACCTGGAAAAGTTC
TACCAATTACCAAGCAACCAGTATCAGTCTACAAGGAAGAATGGCACTAATGTGATCGTT
GAAAAGCTTAAAGAAATGCAGCGATTTTTTGGGTTGAATGTGACGGGGAAGCCAAATGAG
GAAACTTGGACATGATGAAAAAGCCTCGCTGTGGAGTGCCTGACAGTGGTGGTTTTATG
TTAACCCAGGAAACCCCAAGTGGGAACGCACTAACTTGACCTACAGGATTGCAAACTAT
ACCCACAGCTGTGAGAGGCTGAGGTAGAAAGAGCTATCAAGGATGCCTTTGAACTCTGG
AGTGTTCATCACCTCTCATCTTACCAGGATCTCACAGGGAGAGGCAGATATCAACATT
GCTTTTTACCAAGAGATCACGGTGACAATTCTCCATTTGATGGACCAATGGAATCCTT
GCTCATGCCTTTCAGCCAGGCCAAGGTATTGGAGGAGATGCTCATTGATGCCGAAGAA
ACATGGACCAACACCTCCGCAAATTACAACCTGTTTCTGTTGCTGCTCATGAATTTGGC
CATTCTTTGGGGCTCGCTCACTCCTCTGACCCTGGTGCCTTGATGTATCCCAACTATGCT
TTCAGGGAACCAGCACTACTCACTCCCTCAAGATGACATCGATGGCATTTCAGGCCATC
TATGGACTTTCAAGCAACCCCTATCCAACCTACTGGACCAAGCACACCCAAACCCCTGTGAC
CCCAGTTTGACATTTGATGCTATCACCACACTTCGTGGAGAAATACTTTTCTTTAAAGAC
AGGTACTTCTGGAGAAGGCATCCTCAGCTACAAAGAGTCGAAATGAATTTATTTCTCTA
TTCTGGCCATCCCTTCCAACCTGGTATACAGGCTGCTTATGAAGATTTTGACAGAGACCTC
ATTTTCTATTTAAAGGCAACCAATACTGGGCTCTGAGTGGCTATGATATTCTGCAAGGT
TATCCCAAGGATATATCAAACTATGGCTTCCCCAGCAGCGTCCAAGCAATTGACGCAGCT
GTTTTCTACAGAAGTAAACATACTTCTTTGTAATGACCAATTCTGGAGATATGATAAC
CAAAGCAATTCATGGAGCCAGGTTATCCCAAAAGCATATCAGGTGCCTTTCCAGGAATA
GAGAGTAAAGTTGATGCAGTTTTCCAGCAAGAACATTTCTTCCATGTCTTCAGTGGACCA
AGATATTACGCATTTGATCTTATTGCTCAGAGAGTTACCAGAGTTGCAAGAGGCAATAAA
TGGCTTAACTGTAGATATGGCTGA
    
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Clone variation with respect to NM_002424.2
873 c=>t

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002424 unedited

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CCCCCAGGCGANACCCNCCCCCCCCCCCCCGTTCGACATTTGTNATACGACTCACT
ATAGGGCGGCNCGCGATTTCGGCACGAGNAACCTCAGGGTGTCTCGCCAGGGGAAGGGCCCTA
CCCAGAGGGACAGAAAGAAAGCCAGGAGGGGTAGAGTTTGAAGAGAAGATCATGTTCTCC
CTGAAGACGCTTCCATTTCTGCTTACTCCATGTGCAGATTTCCAAGGCCTTTCCTGTA
TCTTCTAAAGAGAAAAATACAAAACTGTTCCAGGACTACCTGGAAAAGTTCTACCAATTA
CCAAGCAACCAAGTATCAGTCTACAAGGAAGAATGGCACTAATGTGATCGTTGAAAAGCTT
AAAGAAATGCAGCGATTTTTTGGGTTGAATGTGACGGGGAAGCCAAATGAGGAAACTCTG
GACATGATGAAAAAGCCTCGCTGTGGAGTGCCTGACAGTGGTGGTTTTATGTTAACCCCA
GGAAACCCCAAGTGGGAACGCACTAACTTGACCTACAGGATTCGAAACTATACCCACAG
CTGTCAGAGGCTGAGGTAGAAAGAGCTATCAAGGATGCCTTTGAACTCTGGAGTGTGCA
TCACCTCATCTTACCAGGATCTCACAGGGAGAGGCAGATATCAACATTGCTTTTTAC
CAAAGAGATCACGGTGACAATTTCCATTTGATGGACCAATGGAATCCTTGCTCATGCC
TTTCAGCCAGCCAAGGTATTGGAGGAGATGCTCATTGATGCCAAGAACATGGACCA
ACACCTCCGCAAATACAACCTGGTTCTTGGTGTGCTCATGAAATGGGCCATTCTTTGG
GGCTTGTCACTCCTTTGACCCTGGTGCCTTGATGTATCCCNCTATGGCTTTAGGGAAA
ACCACAACCTACCCTCCCTAAGAAGAACTCGATGGCTTTAGGCCCTCTATGGACTTTCAA
CCACCCCTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002424 unedited GGTCCAGGAACAGCACTGGGGCAGGGTACCAGGGTATGCCACCCGGGTATCTGGTTCAGG TAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCATT GAAGTAAAAATCTTTAATTTGAACCTATTTAATAGATTATTTAATTTTTGAACAAGCAT AAGGGTGCCAATTTAATTATCTGTGGGATTTAAAACTCAACAGAGAAAAGAAAATAGGA GGTACTAGTGAGAAATATATTTACAGTCTACATATTTATTGTATCCTAAGCTATATTAT ATTCTAATAACACCAAATAAACCTTATAATGATCTTGATATCTGGACTCGCTAGCCTAG GTCCAATAAATCCTATAGTTCTCACCACCGAAACCCATCCGTTAGCAAAATNACGCTTGT AAGCTGAGTTTAAATGCAACTTAATGAGACATTGAATTTTATGCACCTAACCCAAATTCTC TATCGCCCGTGCCCTGAGCCCCCAGGAAATAGAAGTCAAAAAGTACCTCCCTCC GCTCCAAGTGGTCTCTCGGTTGCGGACTCTCGGCCACTAAAAGGATGACGCCCGATAG GAAATGGTGTCTTTCTGACCGCTGCCCTCGCGAAGTGTCTCTTTTATTTCCGCGAGA AAGGGATGACACTACAGCCCTCTAGAGACGTCTCATATAATATGCCGCCGCGGAAAAGCC CCCCCGCTCATAATGTTCTAGGGTGTGACAAATTTCTCTCTCTTTGGGGCTAAAGC CTCTCCATAAAAAACCCCTCTCCCGCCCCGAATACCCCGCAATTACTACTATAAAGA GAACCGCCGGGATAAAATTCTGCATTGCTTTCTCTGGGGCTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_002424
Insert Size:	3050 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_002424.1, NP_002415.1</u>
RefSeq Size:	2223 bp
RefSeq ORF:	1404 bp
Locus ID:	4317
UniProt ID:	<u>P22894</u>
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]

Transcript Variant: This variant (1) represents the shortest transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.