

Product datasheet for **SC303531**

MMP20 (NM_004771) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP20 (NM_004771) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMP20
Synonyms:	A12A2; MMP-20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004771 edited
 ATGAAGGTGCTCCCTGCATCTGGCCTTGCTGTCTTCCTCATCATGGCTTTGAAGTTTTCC
 ACTGCAGCCCCCTCCCTAGTTGCAGCTCCCCAGGACCTGGAGGAACAACCTACCGCCTC
 GCACAGCGGTATCTTGACAAATATTACACAAATAAAGAAGGACACCAGATTGGTGAGATG
 GTTGCAAGAGGAAGCAATTCCATGATAAGGAAGATTAAGGAGCTACAAGCGTTCTTTGGC
 CTCCAAGTCACCGGAAGTTAGACCAGACCACAATGAACGTGATCAAGAAGCCTCGCTGT
 GGAGTTCTGATGTGGCCAATTATCGCCTCTTCCCTGGTGAACCCAAATGGAAAAAAAT
 ACTTTGACATACAGAATATCTAAATACACACCTTCCATGAGTTCTGTGAGGTGGACAAA
 GCAGTGGAGATGGCCTTGCAGGCCTGGAGTAGCGCCGTCCTCTGAGCTTTGTCAGAATA
 AACTCAGGAGAAGCGGATATTATGATATCTTTGAAAATGGAGATCACGGGGATTCTAT
 CCATTCGATGGGCCTCGGGGACTCTAGCCCATGCATTTGCTCCTGGAGAAGCCTGGGA
 GGAGATACACATTCGACAATGCTGAGAAGTGGACTATGGGAACGAATGGTTTTAATTTG
 TTTACCGTTGCTGCTCATGAATTTGGCCATGCCCTGGGCCTGGCCATTCCACAGACCCA
 TCAGCACTGATGTACCAACTTATAAGTACAAGAATCCCTATGGATTCCACCTCCCCAAA
 GATGATGTGAAAGGGATCCAGGCATTATACGGACCTCGGAAAGTATTCTGGGGAAGCCC
 ACTCTGCCCATGCCCCCATCACAAAGCCATCCATCCCTGACCTCTGTGACTCCAGCTCA
 TCCTTTGACGCTGTGACAATGCTGGGGAAGGAGCTCCTGCTCTTCAAGGACCGGATTTTC
 TGGAGACGGCAGGTTCACTTGGGACAGGAATTCGGCCAGCACTATTACCAGCTCCTTC
 CCCCAGCTCATGTCCAATGTGGATGCAGCTTACGAAGTGGCTGAGAGGGGCACTGCTTAC
 TTCTTCAAAGGTCCCCTACTGGATAACAAGAGGATTCCAATGCAAGTCTCCTCCTCGG
 ACTATTTATGACTTTGGATTTCCAAGGCACGTGCAGCAAATAGATGCTGCTGTCTACCTC
 AGGGAGCCACAGAAGACCCTTTTCTTTGTGGGAGATGAATACTACAGCTACGACGAAAGG
 AAAAGGAAAAATGGAAAAAGACTATCCAAGAATACTGAAGAAGAATTTTCAGGAGTAAAT
 GGCCAAATCGATGCTGCTGTAGAATTAATGGCTACATTTACTTCTTTTCAGGACCAAAA
 ACATACAAGTATGACACAGAGAAGGAAGATGTGGTTAGTGTGGTGAATCTAGTTCCTGG
 ATTGGTTGCTAA



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Restriction Sites:	Please inquire
ACCN:	NM_004771
Insert Size:	1500 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_004771.3</u> , <u>NP_004762.2</u>
RefSeq Size:	1956 bp
RefSeq ORF:	1452 bp
Locus ID:	9313
UniProt ID:	<u>O60882</u>
Cytogenetics:	11q22.2
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Gene Summary:	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The protein encoded by this gene degrades amelogenin, the major protein component of dental enamel matrix, and thus thought to play a role in tooth enamel formation. A mutation in this gene, which alters the normal splice pattern and results in premature termination of the encoded protein, has been associated with amelogenesis imperfecta. This gene is part of a cluster of MMP genes located on chromosome 11q22.3. [provided by RefSeq, Aug 2011]