

Product datasheet for **SC123913**

MMP3 (NM_002422) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP3 (NM_002422) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMP3
Synonyms:	CHDS6; MMP-3; SL-1; STMY; STMY1; STR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC123913 sequence for NM_002422 edited (data generated by NextGen Sequencing)

```

ATGAAGAGTCTTCCAATCCTACTGTTGCTGTGCGTGGCAGTTTGCTCAGCCTATCCATTG
GATGGAGCTGCAAGGGGTGAGGACACCAGCATGAACCTTGTTCAGAAATATCTAGAAAAC
TACTACGACCTCGAAAAAGATGTGAAACAGTTTGTAGGAGAAAGGACAGTGGTCCTGTT
GTTAAAAAATCCGAGAAATGCAGAAGTTCCTTGGATTGGAGGTGACGGGGAAGCTGGAC
TCCGACACTCTGGAGGTGATGCGCAAGCCAGGTGTGGAGTTCCTGACGTTGGTCACTTC
AGAACCCTTTCCTGGCATCCCGAAGTGGAGGAAAACCCACCTTACATACAGGATTGTGAAT
TATACACCAGATTGCCAAAAGATGCTGTTGATTCTGCTGTTGAGAAAAGCTCTGAAAAGTC
TGGGAAGAGGTGACTCCACTCACATTCTCCAGGCTGTATGAAGGAGAGGCTGATATAATG
ATCTCTTTTGCAGTTAGAGAACATGGAGACTTTTACCCTTTTGTGAGCTGGAAATGTT
TTGGCCCATGCCTATGCCCTGGCCAGGGATTAATGGAGATGCCCACTTTGATGATGAT
GAACAATGGACAAAGGATACAACAGGGACCAATTTATTTCTCGTTGCTGCTCATGAAAT
GGCCACTCCCTGGTCTCTTTCCTCAGCCAACACTGAAGCTTTGATGTACCCACTCTAT
CACTCACTCACAGACCTGACTCGGTTCCGCCTGTCTCAAGATGATATAAATGGCATTGAG
TCCTCTATGGACCTCCCTGACTCCCTGAGACCCCTGGTACCCACGGAACCTGTC
CCTCCAGAACCTGGGACGCCAGCCAACCTGTGATCCTGCTTTGTCCTTTGATGCTGTCAGC
ACTCTGAGGGGAGAAATCCTGATCTTTAAAGACAGGCACTTTTGGCGCAAATCCCTCAGG
AAGCTTGAACCTGAATTGCATTTGATCTCTTCATTTTGGCCATCTCTTCCTTCAGGCGTG
GATGCCGCATATGAAGTTACTAGCAAGGACCTCGTTTTTCATTTTAAAGGAAATCAATTC
TGGGCCATCAGAGGAAATGAGGTACGAGCTGGATACCCAAGAGGCATCCACCCCTAGGT
TTCCTCCAACCGTGAGGAAAATCGATGCAGCCATTTCTGATAAGGAAAAGAACAAAACA
TATTTCTTTGTAGAGGACAAATACTGGAGATTTGATGAGAGAGAAATTCATGGAGCCA
GGCTTTTCCAAGCAAATAGCTGAAGACTTCCAGGGATTGACTCAAAGATTGATGCTGTT
TTTGAAGAAATTTGGTCTTTTATTTCTTACTGGATCTTACAGTTGGAGTTTGACCCA
AATGCAAAGAAAGTGACACACACTTTGAAGAGTAACAGCTGGCTTAATTGTTGA

```

Clone variation with respect to NM_002422.3
 133 a=>g;288 t=>c;1086 t=>c

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002422 unedited

```

NGGTCAGTCAAATATTTGTAATAGACTCACTATAGGCGGCCGCGNAATTCGCACCAGNAC
AGCAAGGCATAGAGACAACATAGAGCTAAGTAAAGCCAGTGGAAATGAAGAGTCTTCCAA
TCCTACTGTTGCTGTGCGTGGCAGTTTGTCTCAGCCTATCCATTGGATGGAGCTGCAAGGG
GTGAGGACACCAGCATGAACCTTGTTCAGAAATATCTAGAAAACACTACTACGACCTCGAAA
AAGATGTGAAACAGTTTGTAGGAGAAAGGACAGTGGTCCTGTTGTTAAAAAATCCGAG
AAATGCAGAAGTTCCTTGGATTGGAGGTGACGGGGAAGCTGGACTCCGACACTCTGGAGG
TGATGCGCAAGCCAGGTGTGGAGTTCCTGACGTTGGTCACTTCCAGAACCTTTCCTGGCA
TCCCGAAGTGGAGGAAAACCCACCTTACATACAGGATTGTGAATTATACACCAGATTGTC
CAAAAGATGCTGTTGATTCTGCTGTTGAGAAAGCTCTGAAAGTCTGGGAAGAGGTGACTC
CACTCACATTCTCCAGGCTGTATGAAGGAGAGGCTGATATAATGATCTCTTTTGCAGTTA
GAGAACATGGAGACTTTTACCCTTTTGTGAGCTGGAAATGTTTTGGCCCATGCCTATG
CCCCTGGCCAGGGATTAATGGAGATGCCCACTTTGATGATGATGAACAATGGACAAAGG
ATACAACAGGGACCAATTTATTTCTCGTTGCTGCTCATGAAATGGCCACTCCCTGGGTC
TCTTTCCTCAGCCAACACTGAAGCTTTGATGTACCCACTCTATCACTCACTCACAGACC
TGACTCGGGTCCGCTGTCTCAAGAGATATAAAGGC

```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002422 unedited TTTCCGGCCAGGAGTTGCACAGAGGAGCCGTCACAGGGATGCCACCCGGGATCTGTTCAG GAAACAGCTATGACCTGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAAAA TAACTGACAAATCGTCTTTATTAATAAGCAAATAGTCTACACAGATACAGTCACTTGTC TGTTGCACACGAGTGCTTCCCCTTCTCTGGGAAAGATCACTCTATGTGACAAGGTGCAA GCTAAGCAGCAGCCCATTTGAATGCCCTGTAATAACATAAAAAATGACCGCAAGATACAG ATTCACGCTCAAGTTCCCTTGAGTGTGACTCGAGTCACAGCACAGGCAGGAGAAAAACGAA CATTTC AATTCACAGAGACTTAGGTGAAGAATTATTAGCTTCATTTAAAGTGCCCATATT GTGCCCTTACATATCTCTTTCAACAATTAAGCCAGCTGTTACTCTTCAAAGTGTGTGTC ACTTTCTTTGCATTTGGGTCAAACCTCAAACGTGAAGATCCAGTAAAGAAATAAAAGAAC CCAAATCTTCAAACAGCATCAATCTTTGAGTCAATCCCTGGAAAGTCTTCAGCTATT TGCTTGGGAAAGCCTGGCTCCATGGAATTTCTTCTCATCAAATCTCCAGTATTTGTCC TCTACAAAGAAATATGTTTTGTTCTTTCTTATCAGAAATGGCTGCATCGATTTTCT
Restriction Sites:	Please inquire
ACCN:	NM_002422
Insert Size:	2300 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:	NM_002422.3 , NP_002413.1
RefSeq Size:	1828 bp
RefSeq ORF:	1434 bp
Locus ID:	4314
UniProt ID:	P08254
Cytogenetics:	11q22.2
Protein Families:	Druggable Genome, Protease

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. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]