

Product datasheet for **SC123937**

MMP12 (NM_002426) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP12 (NM_002426) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMP12
Synonyms:	HME; ME; MME; MMP-12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002426 edited
 AATTGATCCGTTTAGAAGTTTACAATGAAGTTTCTTCTAATACTGCTCCTGCAGGCCACT
 GCTTCTGGAGCTTTCCCTGAACAGCTCTACAAGCCTGGAAAAAATAATGTGCTATTT
 GGTGAAAGATACTTAGAAAAATTTATGGCCTTGAGATAAAACAACTTCCAGTGACAAAA
 ATGAAATATAGTGAACTTAATGAAGGAAAAATCCAAGAAATGCAGCACTTCTGGGT
 CTGAAAGTGACCGGGCACTGGACACATCTACCCTGGAGATGATGCACGCACCTCGATGT
 GGAGTCCCGATGCCATCATTTTCAGGAAATGCCAGGGGGCCCGTATGGAGGAAACAT
 TATATCACCTACAGAATCAATAATTACACACCTGACATGAACCGTGAGGATGTTGACTAC
 GCAATCCGGAAAGCTTTCCAAGTATGGAGTAATGTTACCCCTTGAAATTCAGCAAGATT
 AACACAGGCATGGCTGACATTTTGGTGGTTTTTGGCCGTGGAGCTCATGGAGACTTCCAT
 GCTTTTGTAGGCAAAGGTGGAATCCTAGCCCATGCTTTTGGACCTGGATCTGGCATTGGA
 GGGGATGCACATTTGATGAGGACGAATCTGGACTACACATTCAGGAGGCACAACTTG
 TTCCTCACTGCTTTCACGAGATTGGCCATTCCTTAGGTCTTGGCCATTCTAGTGATCCA
 AAGGCCGTAATGTTCCCACTACAAATATGTTGACATCAACACATTTCCCTCTCTGCT
 GATGACATACGTGGCATTGAGTCCCTGTATGGAGACCCAAAAGAGAACCAACGCTTGCCA
 AATCCTGACAATTCAGAACCAGCTCTCTGTGACCCCAATTTGAGTTTTGATGCTGTCACT
 ACCGTGGGAAATAAGATCTTTTTCTTCAAAGACAGGTTCTTCTGGCTGAAGGTTTCTGAG
 AGACCAAAGACCAGTGTTAATTTAATTTCTTCTTATGGCCAACCTTGCCATCTGGCATT
 GAAGCTGCTTAGAAATGAAGCCAGAAATCAAGTTTTCTTTTAAAGATGACAAATAC
 TGGTTAATTAGCAATTTAAGACCAGAGCCAAATATCCAAGAGCATACATTTCTTTGGT
 TTTCTAACTTTGTGAAAAAATTTGATGCAGCTGTTTTAACCACGTTTTATAGGACC
 TACTTCTTTGTAGATAACCAGTATTGGAGGTATGATGAAAGGAGACAGATGATGGACCCT
 GGTATCCCAAACCTGATTACCAAGAATTCCAAGGAATCGGGCCTAAAATTGATGCAGTC
 TTCTACTCTAAAAACAAATACTACTATTTCTTCCAAGGATCTAACCAATTTGAATATGAC
 TTCTACTCCAACGTATCACAAAAACTGAAAAGCAATAGCTGGTTTGGTTGTTAGAAA
 TGGTGTAATTAATGGTTTTTGTAGTTCACCTTCAGCTTAATAAGTATTTATTGCATATTT
 GCTATGTCCTCAGTGACTACTTAGAGATATGATCATAAAAAATAAAATCTGTAAC
 CATAGGTAATGATTATATAAAATACATAATTTTTTCAATTTGAAAACCTAATTGTCC
 ATTTCTGCTTACTACTATTAAGTTTAAAAATAGTTACCTTCAAAGGCCAAGAGAATT
 CTATTTGAAGCATGCTCTGTAAGTTGCTTCCCTAACATCCTGGACTGAGAAATTACTT
 ACTTCTGGCATAACTAAAATTAAGTATATATTTTGGCTCAAAATAAATTTGAAAAAAA
 AAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002426 unedited
 TAAAGTCAAATTTGTATACGACTCACTATAGGCGCCGCGAATTCGCACGAGAATTGAT
 CCGTTTAGAAGTTTACAATGAAGTTTCTTCTAATACTGCTCCTGCAGGCCACTGCTCTG
 GAGCTCTCCCTGAACAGCTCTACAAGCCTGGAAAAAATAATGTGCTATTTGGTGAAA
 GATACTTAGAAAAATTTATGGCCTTGAGATAAACAAACTTCCAGTGACAAAAATGAAAT
 ATAGTGGAACTTAATGAAGGAAAAATCCAAGAAATGCAGCACTTCTTGGGTCTGAAAG
 TGACCGGGCAACTGGACACATCTACCCTGGAGATGATGCACGCACCTCGATGTGGAGTCC
 CCGATGTCCATCATTTACGGGAAATGCCAGGGGGCCCGTATGGAGGAAACATTATATCA
 CCTACAGAATCAATAATTACACACCTGACATGAACCGTGAGGATGTTGACTACGCAATCC
 GAAAAGCTTTCCAAGTATGGAGTAATGTTACCCCTTGAAATTCAGCAAGATTAACACAG
 GCATGGCTGACATTTTGGTGGTTTTTGGCCGTGGAGCTCATGGAGACTTCCATGCTTTTG
 ATGGCAAAGGTGGAATCCTAGCCATGCTTTTGGACCTGGATCTGGCATTGGAGGGGATG
 CACATTTGATGAGGACGAATTCTGGACTACACATTCAGGAGGCACAACTTGGTCTCA
 CTGCTGTTACAGGATTTGCCATTTCCTTANGTCTTGGCCATTCTAGTGATCCAAAGGCCG
 TAATGTTTCCCCCTACCAATATGTTGACATCACACCTTTCCGGCTCTGCTGATGACAT
 ACCTGGCATTGAGTCCCTGTATGGGGACCCANAAAAACCCACCGCTTGCCCAAT

Restriction Sites: NotI-NotI
ACCN: NM_002426

Insert Size:	1800 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 ORF of this clone has been fully sequenced and found to be a perfect match to NM_002426.
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_002426.2 , NP_002417.2
RefSeq Size:	1825 bp
RefSeq ORF:	1413 bp
Locus ID:	4321
UniProt ID:	P39900
Cytogenetics:	11q22.2
Protein Families:	Druggable Genome, Protease
Gene Summary:	This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease degrades soluble and insoluble elastin. This gene may play a role in aneurysm formation and mutations in this gene are associated with lung function and chronic obstructive pulmonary disease (COPD). This gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016]