

Product datasheet for SC118648

MMP15 (NM_002428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP15 (NM_002428) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMP15
Synonyms:	MMP-15; MT2-MMP; MT2MMP; MTMMP2; SMCP-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002428 edited
 GAATTCGGCACGAGGGGGCGCCTGCCGGGCCAGGAGCCAGGGAGCGTCGCAAGTTTCCA
 AGGCGCGTGCAGAGATCCGGCGTGCAGTGTTCGAGCTGGGCTGGGCGCCGAGAGCATGG
 GCAGCGACCCGAGCGCGCCCGGACGGCCGGGCTGGACGGGACGCTCCTCGGCGACCGGG
 AGGAGGCGGGCGGGCCGCGACTGCTGCCGCTGCTCCTGGTGCTTCTGGGCTGCCTGGGCC
 TTGGCGTAGCGGCCGAAGACGCGGAGGTCCATGCCGAGAAGTGGCTGCGGCTTTATGGCT
 ACCTGCCTCAGCCAGCCGCCATATGTCCACCATGCGTTCGCGCCAGATCTTGGCCTCGG
 CCCTTGACAGAGATGCAGCGCTTACGGGATCCCAGTACCGGTGTGCTCGACGAAGAGA
 CCAAGGAGTGGATGAAGCGGCCCGCTGTGGGGTCCAGACCAGTTCCGGGTACGAGTGA
 AAGCCAACCTGCGGCGGGTCCGGAAGCGCTACGCCCTCACGGGAGGAAGTGAACAACC
 ACCATCTGACCTTAGCATCCAGAAGTACACGGAGAAGTTGGGCTGGTACCACTCGATGG
 AGGCGGTGCGCAGGGCCTTCCGCGTGTGGGAGCAGGCCACGCCCTGGTCTTCCAGGAGG
 TGCCCTATGAGGACATCCGGCTGCGGCGACAGAAGGAGGCCGACATCATGGTACTCTTTG
 CCTCTGGCTTCCACGGCGACAGCTCGCCGTTTGTATGGCACCGGTGGCTTTCTGGCCACG
 CCTATTTCCCTGGCCCCGGCCTAGGCGGGGACACCCATTTTACGCGAGATGAGCCCTGGA
 CCTTCTCCAGCACTGACCTGCATGGAAACAACCTTCTCCTGGTGGCAGTGCATGAGCTGG
 GCCACGCGCTGGGGCTGGAGCACTCCAGCAACCCCAATGCCATCATGGCGCCGTTCTACC
 AGTGGAAGGACGTTGACAACTTCAAGCTGCCGAGGACGATCTCCGTGGCATCCAGCAGC
 TCTACGGTACCCAGACGGTCCAGCCACAGCCTACCCAGCCTCTCCCAGTGTGACGCCAC
 GCGCGCCAGGCCGCTGACCACCGGCCCGCCGCTCCCGAGCCACCCCGGAGGTG
 GGAAGCCAGAGCGGCCCCCAAAGCCGGGCCCCAGTCCAGCCCCGAGCCACAGAGCGGC
 CCGACAGTATGGCCCCAACATCTGCGACGGGACTTTGACACAGTGGCCATGCTTCGCG
 GGGAGATGTTCTGTTCAAGGGCCGCTGGTTCTGGCGAGTCCGGCACAACCGCGTCTGG
 ACAACTATCCCATGCCATCGGGCACTTCTGGCGTGGTCTGCCCGGTGACATCAGTGCTG
 CCTACGAGCGCAAGACGGTCTGTTTGTCTTTTCAAAGGTGACCGCTACTGGCTCTTTC
 GAGAAGCGAACCTGGAGCCCGGCTACCCACAGCCGCTGACCAGCTATGGCCTGGGCATCC
 CCTATGACCGCATTGACACGGCCATCTGGTGGGAGCCACAGGCCACACCTTCTTCTTCC



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AAGAGGACAGGTACTGGCGCTTCAACGAGGAGACACAGCGTGGAGACCCTGGGTACCCCA
 AGCCCATCAGTGTCTGGCAGGGGATCCCTGCCTCCCCTAAAGGGGCCCTCCTGAGCAATG
 ACGCAGCTACACCTACTTCTACAAGGGCACAAATACTGGAAATTCGACAATGAGCGCC
 TGCGGATGGAGCCCGGCTACCCCAAGTCCATCCTGCGGGACTTCATGGGTGCCAGGAGC
 ACGTGGAGCCAGGCCCGCATGGCCCGACGTGGCCCGGCCCTTCAACCCCCACGGGG
 GTGCAGAGCCCGGGCGGACAGCGCAGAGGGCGACGTGGGGATGGGGATGGGGACTTTG
 GGGCCGGGTCAACAAGGACAGGGGCAGCCCGTGGTGGTGCAGATGGAGGAGTGGCAC
 GGACGGTGAACGTGGTGTGGTGTGCTGGTCCACTGCTGCTGCTGCTGCTGCTGGCC
 TCACTACGCGTGGTGCAGATGCAGCGCAAGGGTGCGCCACGTGCTGCTTTACTGCA
 AGCGCTCGCTGCAGGAGTGGGTCTGACCACCCAGCGCTCCTGCTAACGGTGTGAGGGG
 CGCCTGTGGTCTGAGATGGCTCCAGGGGCTCCCTCCGCCCCAGGTAGGGGCCCTCT
 CAGCCCTCACACACCCTGTGCCCCGCCCTATTATTTATGTCCAGGTGTTGTTTTGT
 TTTGTTTTGGCACCTTACTTGACCATTGTTTCTGTTTCCCGACTGGGCAGGGTGT
 TAGAATTTCTAAATGTAGTTCTGCTCCAGACAGGAATTAGGCCCTCATCATCCTCTGG
 CTTGGCCACAGCCAGGGAGCAGAGGGGCAGAGGCCACATTGGAAGAGCAGCACCTCCT
 CAGCCTGAACCCAGGGCTGTAACCTGCCAGGCTCTTTTGCCAGTTGGAGACTGTCTGG
 CCCCCCTGGTCCCCTCCTTCCCAAGTGAGTCTCTCTGGGCCTTAGGAAGAGCCTTCCACC
 CAGGGGCAGCCCCAGGCCAAAGGGGACCTGGAAGGGAGGTGGGCCGTGGCCCTTGAGTCC
 CCATTGAGGCTTGGTTCCTTCCAATCCAGTGGACTTCGCAGTCCACTTCTGACAGCCTC
 AGTGACCTGGCTCCTTGTGCCAGAAACCCAGCCACCCCGGCAGCAGCCCCAGCTC
 CCACCTCCCCTGGGCCACACCTCCTTCCCTCTCTGGAGAAAGGGCCCTGGGCCTGCCT
 CACCACGGACAAAGGGAGTCTGCCAGGGCCCTCTCCCAGGAAGCAGCAGCCTCGCC
 CCTGGCAGAGATGCCTCCCTGAGCTAGAACCCTGTTCCTTCCCTGTGCCTCCTCCCTC
 CCTCTCGACTCACACCACTAGCCTCAGGGGTCTGAGCTCCAGCTCCTTTTGGCTTCACT
 GCCAGTGTCTGAGCCCCAGGAGAGGGGGTGGTGGTGCCTAGGCCTGGGCAGTGGAT
 GGCCGTGAATGGGTGCCACAGTGTGAGCACTGGGCATGAGGGGTTCTCCCCTCCAGC
 TCCCTGTGCCCCAGGGTCTGGGAGGAGAGACTGGTGGGATAGGCCAGCCGCGCAT
 CAGACTGTGAACCCACGAAGGAGCCATTGTGGCCTAAGAGGCTGCCCTCCTGTGCTCA
 GCCCTGAGGACAGATGCCTCCTTCTTCTTCCCAAAGCAAGCAAGAGGCCGTGGC
 TGCTGTGGGAAATGGTACTGTACAGCTGGCTCTACTTCCCATGGCCCTGAGCGAGTGA
 GTCTGCCACCCAGGATCCCAAGGCACTTGGGGGGAAGGATTCTGCTGGCCTCTGCGAG
 TGGTTTCTGTGCACTGGCACCAGTGGGGTCCGGCAGCTTCTGCCCCCTGCAGAACC
 GAGAGCCAGCTAAGGGGTGGGGTGCGGGGTTCGTGTCCACCCCATACATTTATTTT
 TGTAATAATGTGCACTGAATAAATTGTACAGCCGGCAAAAAAAAAAAAAAAAAAAGTTCGA
 C

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002428 unedited
 NNTTTTTNNNTATTTCCCGCCCGTGGCCCAATGGGCGGTAGGCGTGTACGGTGGGAGGT
 CTATATAAGCAGAACTCATTTAGGTGACTATAGAATACAAGCTACTTGTCTTTTTG
 AGCGGCCCGCAATTTCGGCACGAGGGGCGCGCTGCCGGGCCAGGAGCCAGGGAGCGTCCG
 AAGTTTCAAGGCGCGTGCAGGATCCGGCGTGCAGTGTCCGAGCTGGGCTGGGCGCCG
 AGAGCATGGGCAGCAGCCGAGCGCGCCGGACGGCCGGGCTGGACGGGCAGCCTCCTCG
 GCGACCCGGAAGAAGCGCGCGCGGACTGTGCCGTGCTCCTGGTGTCTTGGGCT
 GCCTGGCCTTGGCGTANNCCGCCGAAAACGCCGAGTCCATGCCGAGGACTGGCTGCGG
 CTTTATGGCTAACTGGCTTAGGCAGCGGCATATGTTACCATGCGTTTTCCGGCAGATTC
 TGGCCTCGCCCTTGCANAGATGCAGCGTCTACCGGATCCCAGTCAACGGTGTGCTCG
 ACCAANAGACAAAGAGTGGATGAAACGCCCCCTTTGGGGTGTGAGACCAATTCCGGGTA
 CCAATGAGAGCCCAACTGTGGGCGTCTGAAACGCTATGCGCTCTACGGGAGGAAATGGA
 CAACCCCATCTTGACCTTAGCATCCCGAAATACACCGAGGAATTTGGCTGGGACCCCTC
 CATGGAGCCGTGGCGCAGGGCTTTCCCGTGTGGGACACAGCACAGCCCTGGTCTTTCCG
 GAGAGCCCTATAGAGGATTCGGTGTGGGCAACGAAGGACCAACTTCGGAAACCCCTG
 GCTCTGGCTCCACGCGACGCTCGCCGTGATG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002428 unedited TTTAAATTAATTACGTGNANCGCGCCGATTNANGATCGNGTTTTTTTTTTTTTTTTTTT TTGCCGGCTGTACAATTTATTCAGTGCACATTATTTACAGAAATAAATGTATGGGGGTGG ACACGGAACCCCGCAGCCCCACCCCTTAGCTGGCTCTCCGGTTCTGCAGGGGGCAGAAG CTGCCGGACCCGCACTTGGTGCCAGTGCACAAGAAACCACTCGCAGAGGCCAGCAGAATC CTTCCCCTCAAGTGCCTTGGGGATCCTGGGTGGCAGACTCCACTCGCTCAGGGCCATGG GGAAGTAGAGCCCGCTGTACAGTACCATTCCCACAACACCACGGGCTTTTGTGTTTGG GGAAGGGAAAGAGGAAGGGGGCTTTTGCCTAGGGCTAGACCCGAGGGCCCTTTTTA GGCCCAAGGGGGCTCCTTTGGGGGTAAAAATTTGGGGGCCGGGGGGGCTTATCCCCCA CAGGGTTTTTCCCCCAACCCCGGGGGCCAAAGGTTGGGGGGGGGGAAAACCC TTGTTCCCCGGGTGTAATTTTGGGGGGGCCCTTTTGTGGGGGCCCTTCGGTGG GGGGGTGGAGGCCCCCCCCCCCCCCCTCTTTTGGGGGGGAAACACACAAAGG GGTTGGGAAAAAAAAGAGAGGGGTCTCCCCCCCCCCCCCTTTTTTTTTTTTT TGTTTTTTGCGGCCGGGGGGGGGGGGCCCCCAAAAAAAAAAAAAATCTTTATTTT TTCTGTTGGGGTGCCTTCTCTCCCGGGGGGGGTTTTTTTTTTTTTTTATGGA GAGGGAAAGGGGGAGTCTTCTTTTTTTTTTGGGGGTTGGGGGGGGAGGAGGTT CCTCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_002428
Insert Size:	3600 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_002428.2 , NP_002419.1
RefSeq Size:	4456 bp
RefSeq ORF:	2010 bp
Locus ID:	4324
UniProt ID:	P51511
Cytogenetics:	16q21
Domains:	hemopexin, Peptidase_M10, ZnMc
Protein Families:	Druggable Genome, Protease, Transmembrane

Gene Summary:

This gene encodes a member of the peptidase M10 family and membrane-type subfamily 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. Members of this subfamily contain a transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. The encoded preproprotein is proteolytically processed to generate the mature protease. This protein may play a role in cancer progression. [provided by RefSeq, Jan 2016]