

Product datasheet for **SC316625**

MMP16 (NM_005941) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MMP16 (NM_005941) Human Untagged Clone
Tag: Tag Free
Symbol: MMP16
Synonyms: C8orf57; MMP-X2; MT-MMP2; MT-MMP3; MT3-MMP
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005941 edited
 GAATTCGGCACGAGGCTGCAGGCTCCTTACCCACCCGGAGGACTTTTTTTTTGAAAGGAA
 ACGAGGGAGGGAGGGAGAGAGGGAGAGAAAACGAAGGGGAGCTCGTCCATCCATTG
 AAGCACAGTTCACTATGATCTTACTCACATTGAGCACTGGAAGACGGTTGGATTTTCGTGC
 ATCATTGGGGGTGTTTTCTTGCAAACCTTGCTTTGGATTTTATGTGCTACAGTCTGCG
 GAACGGAGCAGTATTTCAATGTGGAGGTTGGTTACAAAAGTACGGCTACCTTCCACCGA
 CTGACCCAGAAATGTCAGTGTGCTGCTGTCAGAGACCATGCAGTCTGCCCTAGCTGCCA
 TGCAGCAGTTCATGGCATTAAACATGACAGGAAAAGTGGACAGAAACACAATTGACTGGA
 TGAAGAAGCCCCGATGCGGTGTACCTGACCAGACAAGAGGTAGCTCCAAATTTTCATATTC
 GTCGAAAGCGATATGCATTGACAGGACAGAAATGGCAGCACAAGCACATCACTTACAGTA
 TAAAGAACGTAACCTCAAAGTAGGAGACCCTGAGACTCGTAAAGCTATTCGCCGTGCCT
 TTGATGTGTGGCAGAATGTAACCTCTGACATTTGAAGAAGTTCCCTACAGTGAATTAG
 AAAATGGCAAACGTGATGTGGATATAACCATTTTTTGCATCTGGTTTTCCATGGGGACA
 GCTCTCCCTTTGATGGAGAGGGAGGATTTTTGGCACATGCCTACTTCCCTGGACCAGGAA
 TTGGAGGAGATACCCATTTTGACTCAGATGAGCCATGGACACTAGGAAATCCTAATCATG
 ATGGAAATGACTTATTTCTGTAGCAGTCCATGAACTGGGACATGCTCTGGGATTGGAGC
 ATTCCAATGACCCCACTGCCATCATGGCTCCATTTTACCAGTACATGGAAACAGACAAC
 TCAAACCTACCTAATGATGATTTACAGGGCATCCAGAAGATATATGGTCCACCTGACAAGA
 TTCTCCACCTACAAGACCTCTACCGACAGTGCCCCACACCCGCTCTATTCTCCGGGCTG
 ACCCAAGGAAAAATGACAGGGCCAAAACCTCCTCGGCCTCCAACCGCAGACCCTCCTATC
 CCGGAGCCAAACCAACATCTGTGATGGGAACTTTAACAACCTCTAGCTATTCTTCGTCGTG
 AGATGTTTGTTCAGGACCAGTGGTTTTGGCGAGTGAGAAACAACAGGGTGATGGATG
 GATACCAATGCAAATTACTTACTTCTGGCGGGGCTTGCCTCCTAGTATCGATGCAGTTT
 ATGAAAATAGCGACGGGAATTTTGTGTTCTTTAAAGGTAACAAATATTGGGTGTTCAAGG
 ATACAACCTTCAACCTGGTTACCCTCATGACTTGATAACCCTTGGAAAGTGAATTTCCC
 CTCATGGTATTGATTCAGCCATTTGGTGGGAGGACGTCGGGAAAACCTATTTCTTCAAGG
 GAGACAGATATTGGAGATATAGTGAAGAAATGAAAACAATGGACCCTGGCTATCCCAAGC



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CAATCACAGTCTGGAAAGGGATCCCTGAATCTCCTCAGGGAGCATTGTACACAAAGAAA
 ATGGCTTTACGTATTTCTACAAAGGAAAGGAGTATTGGAAATCAACAACCAGATACTCA
 AGGTAGAACCTGGATATCCAAGATCCATCCTCAAGGATTTATGGGCTGTGATGGACAA
 CAGACAGAGTTAAAGAAGGACACAGCCCACCAGATGATGTAGACATTGTCATCAAACCTGG
 ACAACACAGCCAGCACTGTGAAAGCCATAGCTATTGTCATTCCCTGCATCTTGGCCTTAT
 GCCTCCTTGTATTGGTTTACTGTGTTCCAGTCAAGAGGAAAGGAACACCCCGCCACA
 TACTGTACTGTAACGCTCTATGCAAGAGTGGGTGTGATGTAGGGTTTTTTCTTCTTTCT
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 XXXXXXXXXXXXXXXXXXXXXXXXCTAAGTCTTCTTTTCTTTTTTTTAGGCATACTG
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 GCTTCTTGCAAGTAAAGGCTTTACAGCCACTGGGCTGTGAACTTATTAGAGATGGTCAGA
 ATGAATGCACCCCATGAGTCAGACATTGGCTTTGTGTGAAAGCCAGCTTTGAGGGGATTA
 GCTTTTGAACAATGAACAGCTTGCCTTGAACCTGATTATTGATCTATTGACTGTCATTA
 ACAACAACCTAAACATTGCTTCTGTGAAAATTTCTTGAAGAGTCTGTTCTATGTCT
 TTGCCCTTTGACCTTTAACTTGCAAACTGGCACAACTGAAGGAAATCTGGTGTGCTTC
 TCCATTGGATTAGTTGTTCTCTAAAACCTAGTAAGCATGAGCTGTTTCTTAGAGTGGAG
 AGAGTGGTGATGGCAGATCTGCAGATGGACACTTGTCTTTACATGCACACTCTGAAAA
 TGCCCTATAGGTAGAAGTGAATTTAATTTCAATTTAATAATTTCAAGTCTAAATTTCA
 TCATTTTAGTACAAATTACAAAAAATAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005941 unedited
 AGAATTTTGTAAACGACTCACTATAGGGCGGCCGCGAAATTCGCACGAGGCTGCAGGCT
 CTTACCCACCCGAGACTTTTTTTTTTGAAGGAAACGAGGGAGGGAGAGGGGAGA
 GAGGGAGAAAACGAAGGGGAGCTCGTCCATCCATTGAAGCACAGTTCACTATGATCTTAC
 TCACATTCAGCACTGGAAGACGGTTGGATTTCTGTCATCATTGCGGGGTGTTTTTCTTGC
 AAACCTTGCTTTGGATTTTATGTGCTACAGTCTGCGGAACGGAGCAGTATTTCAATGTGG
 AGGTTTGGTTACAAAAGTACGGCTACCTTCCACCGACTGACCCAGAAATGTCAGTGCTGC
 GCTCTGCAGAGACCATGCAGTCTGCCCTAGCTGCCATGCAGCAGTTCTATGGCATTAAACA
 TGACAGGAAAAGTGGACAGAAACACAATTGACTGGATGAAGAAGCCCGATGCGGTGTAC
 CTGACCAGACAAGAGGTAGCTCCAAATTTCAATTCGTCGAAAGCGATATGCATTGACAG
 GACAGAAATGGCAGCACAAAGCACATCACTTACAGTATAAAGAACGTAACCTCCAAAAGTAG
 GAGACCCTGAGACTCGTAAAGCTATTGCGCGTGCCTTTGATGTGTGGCAGAATGTAACCT
 CTCTGACATTTGAAGAAGTCCCTACAGTGAATTAGAAAATGGCAAACGTGATGTGGATA
 TAACCATTATTTTGCATCTGGTTTCCATGGGGACAGCTCCTCTTTGATGGAGAGGGGA
 GATTTTTGGCACATGCCTACTTCCCTGGACCAGGAATTGGANGAGATACCCATTNTGACT
 CAGATGAGCCATGGACACTANGAAATNNCTATCATGATGGNAATGANCTATTTCTTGTAG
 CAGTCCATGAACTGGGGACATGCTCTGGGATGGNAGCATTNCATGACCCCACTGNCTCAT
 GGCTNCATTTTACCAGTCATGAAACAGACACTTCAACTACCTATGAG

3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_005941 unedited GTACCGCGCCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTGTAATTTGTAATAAATGATGAATTTAGACTTGAAATATATTTAAAATGAAATTTAAAATTTCACTTCTACCTATAGGGATTTTCAGAGTGTGCATGTAAAGAGCAAAGTGTCCATCTGCAGATCTGCCATCACCCTCTCTCCACTTAAGGAAACAGCTCATGCTTACTAGGTTTTAGAGAACAATAATCCAATGGAGAAGCAACACCAGATTTCCCTTCAGTTTGTGCCAGTTTGAAGTTAAAGGTCAAAGGGCAAAGACATAGAACAGGACTTTCAAGGAAAATTTTACAGAAGACAATGTTTTAAGTTGTTGTTAATGACAGTCAATAGATCAATAATCAAGTTCAAGGCAAGCTGTTCAATTGTTCAAAAGCTAATCCCCTCAAAGCTGGCTTTCACACAAAGCCAATGTCTGACTCATGGGGTGCAATTCATTCTGACCATCTCTAATAAGTTTACAGCCAGTGGCTGTAAAGCCTTTCACTGCAAGAAGCAGCTCCTAAAATCAATAAAGAGGTCTGTGAGTTGCTGACTTTTCTAGAAAAAAATATTGATACAAACCTGCTCTGCAGGTCACATGAAAATGAACATACTGCTGTTAGGACAAATTACACTCAACAATGAAATGCTTTGGTGGTCTCTGGCTCTGTCAGTGATCAATGGACGGCTAAATGCCAGAAGCACCATTACCCTTTGAGAACTATGGTGGACATGCAATANGTAATGCACTGGAGGAAATCATGCAACTCCGAGTCCCGTTTAAATCTTTTAAATGGCATGCTACTGCTATACCAAGCAATGAATTTCTGCATGGATTTAAACGGAATCATTGCTAAAAAATAAAAAAAAAACTAGCTTTTCGTTTTCAAAAAATTCGATTTTGAACTAATAACTTTTTATTGCCGAAATTTGGCAGTACTCN
Restriction Sites:	NotI-NotI
ACCN:	NM_005941
Insert Size:	4110 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_005941.2 , NP_005932.2
RefSeq Size:	2589 bp
RefSeq ORF:	1824 bp
Locus ID:	4325
UniProt ID:	P51512

Cytogenetics:	8q21.3
Protein Families:	Druggable Genome, Protease, 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 encoded protein activates MMP2 by cleavage. This gene was once referred to as MT-MMP2, but was renamed as MT-MMP3 or MMP16. [provided by RefSeq, Oct 2010]