

Product datasheet for SC313558

MMP16 (NM_022564) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP16 (NM_022564) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMP16
Synonyms:	C8orf57; DKFZp761D112; MMP-X2; MT-MMP2; MT-MMP3; MT3-MMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313558 representing NM_022564. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCTTACTCACATTCAGCACTGGAAGACGGTTGGATTTCTGTCATCATTGCGGGGTGTTTTCTTG
CAAACCTTGCTTTGGATTTATGTGCTACAGTCTGCGAACGGAGCAGTATTTCAATGTGGAGGTTTGG
TTACAAAAGTACGGCTACCTTCCACCGACTGACCCAGAATGTCAGTCTGCGCTCTGCAGAGACCATG
CAGTCTGCCCTAGCTGCCATGCAGCAGTTCTATGGCATTAAACATGACAGGAAAAGTGACAGAAACACA
ATTGACTGGATGAAGAAGCCCCGATGCGGTGTACCTGACCAGACAAGAGGTAGCTCCAAATTTCATATT
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GTAACCTCCTCTGACATTTGAAGAAGTCCCTACAGTGAATTAGAAAATGGCAAACGTGATGTGGATATA
ACCATTATTTTGCATCTGGTTTCCATGGGGACAGCTCTCCCTTTGATGGAGAGGGAGGATTTTGGCA
CATGCCTACTTCCTGGACCAGGAATTGGAGGAGATACCCATTTTGACTCAGATGAGCCATGGACACTA
GGAAATCCTAATCATGATGGAATGACTTATTTCTGTAGCAGTCCATGAACTGGGACATGCTCTGGGA
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ATCGATGCAGTTTATGAAAATAGCGACGGGAATTTGTGTTCTTTAAAGTGAAGGAGACACTCTATCT
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GTGCTCTCAAGACAACTGAAAAGCACAAGACCTATGAAGAATTATCTCCATCACATACAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_022564
Insert Size:	1374 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_022564.3
RefSeq Size:	1800 bp
RefSeq ORF:	1374 bp
Locus ID:	4325
Cytogenetics:	8q21.3
Domains:	hemopexin, Peptidase_M10, ZnMc
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane
MW:	52.5 kDa

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]

Transcript Variant: This variant (2) encodes a soluble form of matrix metalloproteinase 16, referred to as SM3 or isoform 2. This protein has a shorter, novel C-terminus, as compared to isoform 1, and does not contain a transmembrane domain. The protein digests both type III collagen and fibronectin.