

Product datasheet for **SC116425**

MMP11 (NM_005940) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | MMP11 (NM_005940) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MMP11 |
| Synonyms: | SL-3; ST3; STMY3 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC116425 sequence for NM_005940 edited (data generated by NextGen Sequencing)

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ATGGCTCCGGCCGCTGGCTCCGCAGCGCGGCCGCGCGCCCTCCTGCCCCGATGCTG
CTGCTGCTGCTCCAGCCGCCGCTGCTGGCCCGGGCTCTGCCCGCGGACGTCCACCAC
CTCCATGCCGAGAGGAGGGGGCCACAGCCCTGGCATGCAGCCCTGCCAGTAGCCCGCA
CCTGCCCTGCCACGCAGGAAGCCCCCGGCCTGCCAGCAGCCTCAGGCCTCCCCGCTGT
GGCGTCCCGACCCATCTGATGGGCTGAGTGCCCGCAACCGACAGAAGAGGTTTCGTGCTT
TCTGGCGGGCGCTGGGAGAAGACGGACCTCACCTACAGGATCCTTCGGTTCCCATGGCAG
TTGGTGCAGGAGCAGGTGCGGCAGACGATGGCAGAGGCCCTAAAGGTATGGAGCGATGTG
ACGCCACTCACCTTTACTGAGGTGCACGAGGGCCGTGCTGACATCATGATCGACTTCGCC
AGGTAAGTGGCATGGGGACGACCTGCCGTTTATGGGCCTGGGGGCATCCTGGCCATGCC
TTCTTCCCAAGACTCACCGAGAAGGGGATGTCCACTTCGACTATGATGAGACCTGGACT
ATCGGGGATGACCAGGGCACAGACCTGCTGCAGGTGGCAGCCATGAATTTGGCCACGTG
CTGGGGTGCAGCACACAACAGCAGCCAAGGCCCTGATGTCCGCCTTCTACACCTTTCGC
TACCCACTGAGTCTCAGCCAGATGACTGCAGGGGCGTTCAACACCTATATGGCCAGCCC
TGCCCACTGTACCTCCAGGACCCAGCCCTGGGCCCCAGGCTGGGATAGACACCAAT
GAGATTGCACCGCTGGAGCCAGACGCCCCGCCAGATGCCTGTGAGGCCTCCTTTGACGCG
GTCTCCACCATCCGAGGCGAGCTCTTTTCTTCAAAGCGGGCTTTGTGTGGCGCCTCCGT
GGGGGCCAGTGCAGCCCGGCTACCCAGCATTGGCCTCTCGCCACTGGCAGGGACTGCC
AGCCCTGTGGACGCTGCCTTCGAGGATGCCAGGGCCACATTTGGTTCTTCCAAGGTGCT
CAGTACTGGGTGTACGACGGTAAAAGCCAGTCTGGGCCCGCACCCCTCACCGAGCTG
GGCCTGGTGAGGTTCCCGGTCCATGCTGCCTTGGTCTGGGGTCCCGAGAAGAACAAGATC
TACTTCTCCGAGGCAGGACTACTGGCGTTTCCACCCAGCACCCGGCGTGTAGACATG
CCCGTGGCCCGCAGGGCCACTGACTGGAGAGGGTGCCCTCTGAGATCGACGCTGCCTTC
CAGGATGCTGATGGCTATGCCTACTTCCCTGCGCGCCGCCTCTACTGGAAGTTTGACCT
GTGAAGGTGAAGGCTCTGGAAGGCTTCCCCCGTCTCGTGGGTCTGACTTCTTTGGCTGT
GCCGAGCCTGCCAACACTTTCCTCTGA
    
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Clone variation with respect to NM_005940.3
113 c=>t

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005940 unedited

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AAACTGGGATTTGTAATACGACTTTATATAGGCGGCCGACGAATTCGCACGAGGCCGGG
CGGATGGCTCCGGCCGCTGGCTCCGCAGCGCGGCCGCGCGCCCTCCTGCCCCGATG
CTGCTGCTGCTCCAGCCGCCGCTGCTGGCCCGGGCTCTGCCCGCGGACGTCCAC
CACCTCCATGCCGAGAGGAGGGGGCCACAGCCCTGGCATGCAGCCCTGCCAGTAGCCCG
GCACCTGCCCTGCCACGCAGGAAGCCCCCGGCCTGCCAGCAGCCTCAGGCCTCCCCGC
TGTGGCGTGGCCGACCCATCTGATGGGCTGAGTGCCCGCAACCGACAGAAGAGGTTTCGTG
CTTTCTGGCGGGCGCTGGGAGAAGACGGACCTCACCTACAGGATCCTTCGGTTCCCATGG
CAGTTGGTGCAGGAGCAGGTGCGGCAGACGATGGCAGAGGCCCTAAAGGTATGGAGCGAT
GTGACGCCACTCACCTTTACTGAGGTGCACGAGGGCCGTGCTGACATCATGATCGACTTC
GCCAGGTAAGTGGCATGGGGACGACCTGCCGTTTATGGGCCTGGGGGCATCCTGGCCAT
GCCTTCTTCCCAAGACTCACCGAGAAGGGGATGTCCACTTCGACTATGATGAGACCTGG
ACTATCGGGGATGACCAGGGCACAGACCTGCTGCAGGTGGCAGCCATGAATTTGGCCAC
GTGCTGGGGTGCAGCACACAACAGCAGCCAAGCCCTGATGTCCGCCTTCTACACCTTT
CGTACCCACTGAGTCTCAGCCAGATGACTGCAGGGGCGTTCAACACCTATATGGCCAG
CCCTGCCCACTGTACCTCCAGACCCCAACCTTGCCCCAGCTGGGATAGACACCATGA
GATGC
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_005940 unedited ACCGGGCCGAATCTAGTATCGAGCNTTTTCTTTTTTTTTTTTTTTTTTTTTTAAAAACAA CTGTGTTAATGACAATCCTCAGTTTAAAAAAAAAAAAAAGAAGAAGGTTTATACACAC TGTACACACATTTACAATGGCTTTGGAGGATAGCAGTGCAGGAAAGGGCTTCAGGAGG ATCCGGCTGGGACAGGATTGAGGTATGTTGCAGCCTCCAGGGCTGGGGTCTCCTGCAT GAAAAATACCCCTCCCCATTTGACTGTGAACTTTTTGGCCTGGATTCTGGAGAACAGATT TCCAGGATTGTCAGCCAGAAGGCAGACAGATGCAGGCACCTACCAAGACCTGACCTCAGG AAGTGGCCCTGCCCTACAGCCCAGTTGCTCATCCAGGGCTGAAGGCCATGGGGCCCCAGC ACCCTTGCTTCAGTGCCAGCCCCTGGAAGGAACCTCACAAACAGGGATACAGCAAGGACAC TCCAGTCCCCCAGTCTGCCATGGTGCTACCCTGAGGGACAGGGATGGAGACAGGGCAG CCAGGTTTGCCAGGACCTGCATAGCGGGCCCAAGACTGCCCTTCTCTTAAGTCATGCCA AAGCTCCCTGCCAGTCTGAGACAGTGCCTGGCAGGTGACCACGACCTGCGTGGCCCTT CCCGCAGTTGTCATGGTGTGTTGTACCCACCCCATCTCCCTGAGGAGACATGGGTAAGT CCCATGCCTGGTCCCACAGCCACCAAGATGGCCATGGGTCTTTACCCTGATATTCGAGG CCTGCAAGGGTCAACCCCTGAGGGCTCCAGCCCATGCATAGAAAGTGTGGCAGCT CGCCATCCAATATTCAGGACCAGAAACGGGAAGCCTTCAAGCCTTCTTCAAGGTCAA CTCTCATAAGCGGCCGCCAGGATTAGCTAACATCACTTCTGAAGGAGGGGATTCCAAGGA CCCTTTCATAATGCCTTGGGGCAGTATGCTACACCGGGCTGGTGGATCCN |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_005940 |
| Insert Size: | 2160 bp |
| OTI Disclaimer: | 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. 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 |
| 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_005940.3 , NP_005931.2 |

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|-------------------|---|
| RefSeq Size: | 2276 bp |
| RefSeq ORF: | 1467 bp |
| Locus ID: | 4320 |
| UniProt ID: | P24347 |
| Cytogenetics: | 22q11.23 |
| Domains: | hemopexin, Peptidase_M10, ZnMc |
| Protein Families: | Druggable Genome, Protease |
| Gene Summary: | <p>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. However, the enzyme encoded by this gene is activated intracellularly by furin within the constitutive secretory pathway. Also in contrast to other MMP's, this enzyme cleaves alpha 1-proteinase inhibitor but weakly degrades structural proteins of the extracellular matrix. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the protein.</p> |