

## Product datasheet for **SC123825**

### MMP10 (NM\_002425) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MMP10 (NM_002425) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMP10
Synonyms:	SL-2; STMY2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002425 edited  
 ACAAAGAAGGTAAGGGCAGTGAGAATGATGCATCTTGCAATTCCTTGTGCTGTTGTGTCTG  
 CCAAGTCTGCTCTGCCTATCCTCTGAGTGGGGCAGCAAAAGAGGAGGACTCCAACAAGGAT  
 CTTGCCAGCAATACCTAGAAAAGTACTACAACCTCGAAAAGGATGTGAAACAGTTTAGA  
 AGAAAGGACAGTAATCTCATTGTTAAAAAATCCAAGGAATGCAGAAGTTCCTGGGTTG  
 GAGGTGACAGGGAAGCTAGACACTGACACTCTGGAGGTGATGCGCAAGCCAGGTGTGGA  
 GTTCCTGACGTTGGTCACTTCAGCTCCTTTCCTGGCATGCCGAAGTGGAGGAAAACCCAC  
 CTTACATACAGGATTGTGAATTATACACCAGATTTGCCAAGAGATGCTGTTGATTCTGCC  
 ATTGAGAAAGCTCTGAAAGTCTGGGAAGAGGTGACTCCACTCACATTCTCCAGGCTGTAT  
 GAAGGAGAGGCTGATATAATGATCTCTTTTGCAGTTAAAGAACATGGAGACTTTTACTCT  
 TTTGATGGCCAGGACACAGTTTGGCTCATGCCTACCCACCTGGACCTGGGCTTTATGGA  
 GATATTCATTTGATGATGATGAAAAATGGACAGAAGATGCATCAGGCACCAATTTATTC  
 CTCGTTGCTGCTCATGAACCTGGCCACTCCCTGGGGCTCTTTCCTCAGCCAACACTGAA  
 GCTTTGATGTACCACTCTACAACCTCATTACAGAGCTCGCCAGTTCGCCCTTCGCAA  
 GATGATGTGAATGGCATTAGTCTCTACGGACCTCCCCTGCCTCTACTGAGGAACCC  
 CTGGTGCCCAAAAATCTGTTCCCTCGGGATCTGAGATGCCAGCCAAGTGTGATCCTGCT  
 TTGTCCTTCGATGCCATCAGCACTCTGAGGGGAGAATATCTGTTCTTTAAAGACAGATAT  
 TTTTGGCGAAGATCCCACTGGAACCTGAACCTGAATTTCAATTTGATTTCTGCATTTTGG  
 CCCTCTCTCCATCATATTTGGATGCTGCATATGAAGTTAACAGCAGGGACACCGTTTTT  
 ATTTTTAAAGGAAATGAGTTCGGGCCATCAGAGGAAATGAGGTACAAGCAGGTTATCCA  
 AGAGGCATCCATACCTGGGTTTTCTCCAACCAATAAGGAAAATGATGCAGCTGTTTCT  
 GACAAGGAAAAGAAGAAAACATACTTCTTTCAGCGGACAATACTGGAGATTTGATGAA  
 AATAGCCAGTCCATGGAGCAAGGCTTCCCTAGACTAATAGCTGATGACTTCCAGGAGTT  
 GAGCCTAAGGTTGATGCTGTATTACAGGCATTTGGATTTTTCTACTTCTCAGTGGATCA  
 TCACAGTTTGAGTTTGACCCCAATGCCAGGATGGTGCACACATATTAAGAGTAACAGC  
 TGGTTACATTGCTAGGCGAGATAGGGGGAAGACAGATATGGGTGTTTTTAATAAATCTAA  
 TAATTATTCATCTAATGTATTATGAGCCAAAATGGTTAATTTTTCTGCATGTTCTGTGA  
 CTGAAGAAGATGAGCCTTGACAGATATCTGCATGTGTGATGAAGAATGTTTCTGGAATTC  
 TCATTTGCTTTTGAATTGCACTGAACAGAATTAAGAAATACTCATGTGCAATAGGTGAGA  
 GAATGTATTTTCATAGATGTGTTATTACTTCTCAATAAAAAAGTTTTATTTTGGGCTGT  
 TCCTTAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002425 unedited  
 NNNCCCTGTTTCGGATTTGTATACGACTCACTTAGGCGGGCCGCAATTCGCACGAGGAC  
 AAAGAAGTAAGGGCAGTGAGAATGATGCATCTTGCAATTCCTTGTGCTGTTGTGTCTGCCA  
 GTCTGCTCTGCCTATCCTCTGAGTGGGGCAGCAAAAGAGGAGGACTCCAACAAGGATCTT  
 GCCCAGCAATACCTAGAAAAGTACTACAACCTCGAAAAGGATGTGAAACAGTTTAGAAGA  
 AAGGACAGTAATCTCATTGTTAAAAAATCCAAGGAATGCAGAAGTTCCTGGGTTGGAG  
 GTGACAGGGAAGCTAGACACTGACACTCTGGAGGTGATGCGCAAGCCAGGTGTGGAGTT  
 CCTGACGTTGGTCACTTCAGCTCCTTTCCTGGCATGCCGAAGTGGAGGAAAACCCACCTT  
 ACATACAGGATTGTGAATTATACACCAGATTTGCCAAGAGATGCTGTTGATTCTGCCATT  
 GAGAAAGCTCTGAAAGTCTGGGAAGAGGTGACTCCACTCACATTCAGGCTGTATGAA  
 GGAGAGGCTGATATAATGATCTCTTTTGCAGTTAAAGAACATGGAGACTTTTACTCTTTT  
 GATGGCCAGGACACAGTTTGGCTCATGCCTACCCACCTGGACCTGGGCTTTATGGAGAT  
 ATTCATTTGATGATGATGAAAAATGGACAGAAGATGCATCAGGCACCAATTTATTCCTC  
 GTTGCTGCTCATGAACCTGGCCACTCCCTGGGGCTCTTTCCTCAGCCAACACTGAAGCT  
 NTGATGTACCACTCTACAACCTCATTACAGAGCTCGCCAGTTCGCCCTTCGCAAGAG  
 ATGTGAATGGCATTAGTCTCTACGGACCCTCCCCTGA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_002425

<b>Insert Size:</b>	1850 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002425.1</a> , <a href="#">NP_002416.1</a>
<b>RefSeq Size:</b>	1743 bp
<b>RefSeq ORF:</b>	1431 bp
<b>Locus ID:</b>	4319
<b>UniProt ID:</b>	<a href="#">P09238</a>
<b>Cytogenetics:</b>	11q22.2
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Gene Summary:</b>	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 secreted protease breaks down fibronectin, laminin, elastin, proteoglycan core protein, gelatins, and several types of collagen. The gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016]