

## Product datasheet for RC227181

### MMP1 (NM\_001145938) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MMP1 (NM_001145938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MMP1
Synonyms:	CLG; CLGN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC227181 representing NM_001145938 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCAGGAATTCTTTGGGCTGAAAGTGACTGGAAACCAGATGCTGAAACCCTGAAGGTGATGAAGCAGC  
CCAGATGTGGAGTGCCTGATGTGGCTCAGTTTGCCTCACTGAGGGGAACCTCGCTGGGAGCAAACACA  
TCTGACCTACAGGATTGAAAATTACACGCCAGATTTGCCAAGAGCAGATGTGGACCATGCCATTGAGAAA  
GCCTTCCAACCTCTGGAGTAATGTCACACCTCTGACATTCACCAAGGTCTCTGAGGGTCAAGCAGACATCA  
TGATATCTTTTGTGAGGGGAGATCATCGGGACAACCTCTCCTTTTGTGAGGACCTGGAGGAAATCTTGCTCA  
TGCTTTTCAACCAGGCCAGGATTGGAGGGGATGCTCATTGATGAAGATGAAAGGTGGACCAACAAT  
TTCAGAGAGTACAACCTTACATCGTGTGACGCTCATGAACTCGGCCATTCTTTGGACTCTCCCATTCTA  
CTGATATCGGGGCTTTGATGTACCCTAGCTACACCTTCAGTGGTGTGTTGAGCTAGCTCAGGATGACAT  
TGATGGCATCCAAGCCATATATGGACGTTCCAAAAATCCTGTCCAGCCCACGGCCACAAACCCAAAAA  
GCGTGTGACAGTAAGCTAACCTTTGATGCTATAACTACGATTGCGGGAGAAGTGTGTTCTTTAAAGACA  
GATTCTACATGCGCACAACCTTCTACCCGGAAGTTGAGCTCAATTTTCTGTTTCTGGCCACA  
ACTGCCAAATGGGCTTGAAGCTGTTACGAATTTGCCGACAGAGATGAAGTCCGGTTTTTCAAAGGGAAT  
AAGTACTGGGCTGTTGAGGGACAGAATGTGCTACACGGATACCCCAAGGACATCTACAGCTCCTTTGGCT  
TCCCTAGAAGTGTGAAGCATATCGATGCTGCTCTTTCTGAGGAAAACTGGAAAACTACTTCTTTGT  
TGCTAACAAACTGGAGGTATGATGAATATAACGATCTATGGATCCAGGTTATCCCAAATGATAGCA  
CATGACTTTCCTGGAATTGGCCACAAAGTTGATGCAGTTTTTCATGAAAGATGGATTTTTCTATTTCTTTT  
ATGGAACAAGACAATACAAATTTGATCCTAAAACGAAGAGATTTTGACTCTCCAGAAAGCTAATAGCTG  
GTTCAACTGCAGGAAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>ORF Size:</b>	1209 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001145938.2</a>
<b>RefSeq Size:</b>	1903 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	4312
<b>Cytogenetics:</b>	11q22.2
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>Protein Pathways:</b>	Bladder cancer, Pathways in cancer, PPAR signaling pathway
<b>MW:</b>	46.3 kDa
<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 the interstitial collagens, including types I, II, and III. The gene is part of a cluster of MMP genes on chromosome 11. Mutations in this gene are associated with chronic obstructive pulmonary disease (COPD). Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]