

## Product datasheet for **RC222100**

### **MMP24 (NM\_006690) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MMP24 (NM_006690) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MMP24
Synonyms:	MMP-24; MMP25; MT-MMP 5; MT-MMP5; MT5-MMP; MT5MMP; MTMMP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC222100 representing NM\_006690  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGAGGAGCCGGGGCGCCGCGCCGCGGGCCGCGCCGCGCCGCGCCGCGCCGCGCCGCGGGCCAGGCC  
 CGCGCTGGAGCCGCTGGCGGGTCCCTGGGCGGCTGCTGCTGCTGCTGCCCGCGCTCTGCTGCCTCCC  
 GGGCGCCGCGCGGGCGGGCGGGCGGGCGGGGAGGGAACCGGGCAGCGGTGGCGGTGGCGGTGGCG  
 CGGGCGGACGAGGCGGAGGCGCCCTTCGCCGGGCAGAAGTGGTTAAAGTCTATGGCTATCTGCTTCCCT  
 ATGACTCACGGGCATCTGCGCTGCACTCAGCGAAGGCCTTGCACTCGGCAGTCTCCACTATGCAGCAGTT  
 TTACGGGATCCCGGTACCGGTGTGTTGGATCAGACAACGATCGAGTGGATGAAGAAACCCCGATGTGGT  
 GTCCTGATCACCCCACTTAAGCCGTAGGCGGAGAAACAAGCGTATGCCCTGACTGGACAGAAGTGA  
 GGCAAAAACACATCACCTACAGCATTACAACATATACCCAAAAGTGGGTGAGCTAGACACGCGGAAAGC  
 TATTCGCCAGGCTTCGATGTGTGGCAGAAGGTGACCCCACTGACCTTTGAAGAGGTGCCATACCATGAG  
 ATCAAAAGTGACCGGAAGGAGGCAGACATCATGATCTTTTTTGTCTCTGGTTTCCATGGCGACAGCTCCC  
 CATTGATGGAGAAGGGGATTCTGGCCCATGCCTACTTCCCTGGCCAGGGATTGGAGGAGACACCCA  
 CTTTGACTCCGATGAGCCATGGACGCTAGGAAATGCCAACCATGACGGGAACGACCTTCTCTGGTGGCT  
 GTGCATGAGCTGGGCCACGCGCTGGGACTGGAGCACTCCAGCGACCCAGCGCCATCATGGCGCCCTTCT  
 ACCAGTACATGGAGACGCACAACCTCAAGCTGCCCCAGGACGATCTCCAGGGCATCCAGAAGATCTATGG  
 ACCCCAGCCGAGCCTCTGGAGCCACAAGGCCACTCCCTACACTCCCCGTCCGAGGATCCACTCACCA  
 TCGGAGAGGAAACACGAGCGCCAGCCAGGCCCTCGGCCGCCCTCGGGGACCGGCCATCCACACCAG  
 GCACAAAACCAACATCTGTGACGGCAACTTCAACACAGTGGCCCTTCCGGGGCGAGATGTTTGTCTT  
 TAAGGATCGCTGGTTCTGGCGTCTGCGCAATAACCGAGTGCAGGAGGGCTACCCCATGCAGATCGAGCAG  
 TTCTGGAAGGCCCTGCCTGCCCGCATCGACGACGCTATGAAAGGGCCGATGGGAGATTTGTCTTCTTCA  
 AAGGTGACAAGTATTGGGTGTTAAGGAGGTGACGGTGGAGCCTGGGTACCCCCACAGCCTGGGGGAGCT  
 GGGCAGCTGTTTGCCCGTGAAGGCATTGACACAGCTCTGCGCTGGGAACCTGTGGGCAAGACCTACTTT  
 TTCAAAGGCGAGCGGTACTGGCGCTACAGCGAGGAGCGGGCCACGGACCTGGCTACCCTAAGCCCA  
 TCACCGTGTGGAAGGCCATCCACAGGCTCCCCAAGGAGCCTTCATCAGCAAGGAAGGATATTACACCTA  
 TTTCTACAAGGGCCGGGACTACTGGAAGTTTGACAACCAGAACTGAGCGTGGAGCCAGGCTACCCGCGC  
 AACATCCTGCGTACTGGATGGGCTGCAACCAGAAGGAGTGGAGCGGCGGAAGGAGCGGCGGCTGCCCC  
 AGGACGACGTGGACATCATGGTGACCATCAACGATGTGCCGGGCTCCGTGAACGCCGTGGCGTGGTTCAT  
 CCCCTGCATCCTGTCCCTCTGCATCCTGGTGTGGTCTACACCATCTCCAGTTCAGAACAAGACAGGC  
 CCTCAGCCTGTACCTACTATAAGCGGCCAGTCCAGGAATGGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC222100 representing NM\_006690  
Red=Cloning site Green=Tags(s)

MPRSRRGGRAAPGPPPPPPPPGQAPRWSRWRVPGRLLLLLLALCCLPGAARAAAAAAGAGNRAAVAVAVA  
 RADEAEAPFAGQNWLKSYGYLLPYDSRASALHSAKALQSAVSTMQQFYGIPVTGVLDDQTTIEWMKKPRCG  
 VPDHPLSRRRRNKRYALTGQKWRQKHITYSIHNYTPKVGELDRKAIHQAFDQVWQKVTPLTFEEVPHYE  
 IKSDRKEADIMIFFASGFHGDSSPFDGEGGFLAHAYFPGPGIGGDTHFDSDEPWTLGNANHDGNDLFLVA  
 VHELGHALGLEHSSDPSAIMAPFYQYEMETHNFKLPQDDLQGIQKIYGPPAEPLEPTRPLPTLPVRRRIHSP  
 SERKHERQPRPPRPLGDRPSTPGTKPNICDGNFNTVALFRGEMFVKDRWFRLRNNRVQEGYPMQIEQ  
 FWKGLPARIDAAERADGRFVFFKGDYVWFKEVTVPEGYPHSLGELGSCLPREGIDTALRWEVPGKTYF  
 FKGERYWYSEERRATDPGYPKIPITVWKGIPQAPQGAFISKEGYTYFYKGRDYWKFDNQKLSVEPGYPR  
 NILRDWVMGCNQKEVERRKERRLPQDDVDIMVTINDVPGSVNAVAVVIPCILSLCILVLVYTFQFKNKTG  
 PQPVITYYKRPVQEWV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3527\\_b07.zip](https://cdn.origene.com/chromatograms/mg3527_b07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006690

**ORF Size:** 1935 bp

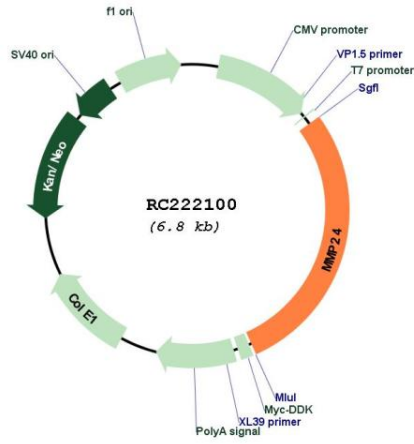
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

<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_006690.4</a>
<b>RefSeq Size:</b>	4344 bp
<b>RefSeq ORF:</b>	1938 bp
<b>Locus ID:</b>	10893
<b>UniProt ID:</b>	<a href="#">Q9Y5R2</a>
<b>Cytogenetics:</b>	20q11.22
<b>Domains:</b>	hemopexin, Peptidase_M10, ZnMc
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	73.23 kDa
<b>Gene Summary:</b>	<p>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. Unlike most MMPs, which are secreted, this protease is a member of the membrane-type MMP (MT-MMP) subfamily, contains a transmembrane domain and is expressed at the cell surface. Substrates of this protease include the proteins cadherin 2 and matrix metalloproteinase 2 (also known as 72 kDa type IV collagenase). The gene has previously been referred to as MMP25 but has been renamed matrix metalloproteinase 24 (MMP24). [provided by RefSeq, Oct 2019]</p>

Product images:



Circular map for RC222100