

## Product datasheet for **MC216411**

### **Mmp12 (NM\_008605) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mmp12 (NM_008605) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mmp12
Synonyms:	AV378681; MME; Mmel; MMP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216411 representing NM\_008605  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTGCACTCTGCTGAAAGGAGTCTGCACAATGAAATTTCTCATGATGATTGTGTTCTTACAGGTAT  
 CTGCCTGTGGGGCTGCTCCCATGAATGACAGTGAATTTGCTGAATGGTACTTGTCAAGATTTTATGATTA  
 TGGAAAGGACAGAATTCCAATGACAAAAACAAAACCAATAGAAACTTCTAAAAGAAAACTCCAGGAA  
 ATGCAGCAGTTCTTTGGGCTAGAAGCAACTGGGCAACTGGACAACCACTCTGGCAATAATGCACATCC  
 CTCGATGTGGAGTGCCCGATGTACAGCATCTTAGAGCAGTCCCCAGAGGTCAAGATGGATGAAGCGGTA  
 CCTCACTTACAGGATCTATAATTACACTCCGGACATGAAGCGTGAGGATGTAGACTACATATTTAGAAA  
 GCTTTCCAAGTCTGGAGTGTGACTCCTTAAGATTCAGAAAGCTTCATAAAGATGAGGCTGACATTA  
 TGATACTTTTGCATTTGGAGCTCACGGAGACTCAACTATTTTGTGGCAAAGGTGGTACTAGCCCA  
 TGCTTTTTATCCTGGACCTGGTATTCAAGGAGATGCACATTTTGTGAGGCAGAAACGTGGACTAAAAGT  
 TTTCAAGGCACAAACCTCTTCTTGTGCTGTTTCAAGTGGCCATTCTTGGGGCTGCAGCATTCCA  
 ATAATCCAAAGTCAATAATGTACCCACCTACAGATACCTTAACCCAGCACATTTGCGCTCTCTGCTGA  
 TGACATACGTAACATTAGTCCCTCTATGGAGCCCCAGTAAAACCCCATCTTGACAAAACCTAGCAGT  
 CCACCAACAATTTCTGTACCAAAAGCTTGAGTTTGTGCTGTCAACAGTGGGAGAGAAAATCTTTT  
 TCTTTAAAGACTGGTTCTTCTGGTGAAGCTTCTGGGAGTCCAGCCACCAACATTACTTCTATTTCTTC  
 CATATGGCCAAGCATCCCATCTGGTATTCAAGCTGCTTACGAAATTGAAAGCAGAAATCACTTTTCTT  
 TTTAAAGATGAGAAGTACTGGTTAATAAACAACCTTAGTACCAGAGCCACACTATCCAGGAGCATATATT  
 CCTGGGCTTCTCTGCATCTGTGAAGAAGTTGATGCAGCTGTCTTTGACCCACTCGCCAAAAGTTTA  
 TTTCTTTGGATAAACACTACTGGAGGTATGATGTGAGGCAGGAGCTCATGGACCTGCTTACCCCAAG  
 CTGATTTCCACACTTCCAGGAATCAAGCCTAAAATTGATGCAGTCTCTATTTCAAAAAGACTACT  
 ACATCTTCCAAGGAGCTATCAATTGGAATATGACCCCTGTTCCGTCGTGCACAAAACATTGAAAAG  
 TACAAGCTGGTTGGTTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_008605
- Insert Size:** 1422 bp
- OTI Disclaimer:** 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).
- 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:**
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\\_008605.3](#), [NP\\_032631.3](#)

RefSeq Size: 3607 bp

RefSeq ORF: 1422 bp

Locus ID: 17381

UniProt ID: [P34960](#)

Cytogenetics: 9 2.46 cM

**Gene Summary:** This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, wound repair, progression of atherosclerosis and tumor invasion. The encoded preproprotein undergoes proteolytic processing to generate a mature, zinc-dependent endopeptidase enzyme. Mice lacking the encoded protein have a diminished capacity to degrade extracellular matrix components, do not develop emphysema in response to long-term exposure to cigarette smoke, and exhibit impaired clearance and increased mortality upon bacterial infection. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. Alternate splicing generates multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Feb 2016]

Transcript Variant: This variant (1) encodes the longest isoform (1).