

## Product datasheet for **MG207567**

### **Mmp12 (NM\_008605) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mmp12 (NM_008605) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmp12
Synonyms:	AV378681; MME; Mmel; MMP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207567 representing NM\_008605  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCTGCACTCTGCTGAAAGGAGTCTGCACAATGAAATTTCTCATGATGATTGTGTTCTTACAGGTAT  
 CTGCTGTGGGGCTGCTCCCATGAATGACAGTGAATTTGCTGAATGGTACTTGTCAAGATTTTATGATTA  
 TGGAAAGGACAGAATTCCAATGACAAAAACAAAACCAATAGAAACTTCTAGAGAAAACTCCAGGAA  
 ATGCAGCAGTTCTTTGGGCTAGAAGCAACTGGGCAACTGGACAACCACTCTGGCAATAATGCACATCC  
 CTCGATGTGGAGTGCCCGATGTACAGCATCTTAGAGCAGTGCCCCAGAGGTCAAGATGGATGAAGCGGTA  
 CCTCACTTACAGGATCTATAATTACACTCCGGACATGAAGCGTGAGGATGTAGACTACATATTTAGAAA  
 GCTTTCCAAGTCTGGAGTGTGACTCCTCTAAGATTCAGAAAGCTTCATAAAGATGAGGCTGACATTA  
 TGATACTTTTGCATTTGGAGCTCACGGAGACTCAACTATTTTGTGGCAAAGGTGGTACTAGCCCA  
 TGCTTTTTATCCTGGACCTGGTATTCAAGGAGATGCACATTTTGTGAGGCAGAAACGTGGACTAAAAGT  
 TTTCAAGGCACAAACCTCTTCTTGTGCTGTTTCAATGAACCTGGCCATTCTTGGGGCTGCAGCATTCCA  
 ATAATCCAAAGTCAATAATGGACCCACCTACAGATACCTTAACCCCAACACATTTGCGCTCTCTGCTGA  
 TGACATACGTAACATTAGTCCCTCTATGGAGCCCAAGTAAAACCCCATCTTGACAAAACCTAGCAGT  
 CCACCAACAATTTCTGTACCAAAAGCTTGAGTTTGTGCTGTGACAACAGTGGGAGAGAAAAATCTTTT  
 TCTTTAAAGACTGGTTCTTCTGGTGAAGCTTCTGGGAGTCCAGCCACCAACATTTATTTCTATTTCTTC  
 CATATGGCCAAGCATCCCATCTGGTATTCAAGCTGCTTATGAAATTGAAAGCAGAAATCACTTTTCTT  
 TTTAAAGATGAGAAGTACTGGTTAATAACAACCTAGTACCAGAGCCACACTATCCAGGAGCATATATT  
 CCCTGGGCTTCTCTGCATCTGTGAAGAAGTTGATGCAGCTGTCTTTGACCCACTCGCCAAAAGGTTTA  
 TTTCTTTGTGGATAAACAACTACTGGAGGTATGATGTGAGGCAGGAGCTCATGGACCCTGCTTACCCCAAG  
 CTGATTTCCACACTTCCAGGAATCAAGCCTAAAATTGATGCAGTCTCTATTTCAAAAAGACACTACT  
 ACATCTTCCAAGGAGCCTATCAATTGGAATATGACCCCTGTTCCGTCGTGCACAAAACATTGAAAAG  
 TACAAGCTGGTTTGGTTGT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207567 representing NM\_008605  
 Red=Cloning site Green=Tags(s)

MSCTLLKGVCTMKFLMMIVFLQVSACGAAPMNDSEFAEWYLSRFYDYGKDRIPMTKTKTNRNFLEEKLQE  
 MQQFFGLEATGQLDNSTLAIMHIPRCGVPDVQHLRAVPQRSRWMKRYLTYRIYNYTPDMKREDVDYIFQK  
 AFQVWSDVTPLRFRKLHKDEADIMILFAFGAHGDFNYFDGKGGTLAHAFYPGPGIQGDAHFDEAETWTKS  
 FQGTNLFVAVHELGHSLGLQHSNNPKSIMPDTYRYLNPNTFRLSADDIRNIQSLYGAPVKTPSLTKPSS  
 PPSTFCHQSLSFDAVTTVGEKIFFFKDWFVWKLPGSPATNIISISSIWPSIPSGIQAAYEIESRNQLFL  
 FKDEKYWLINNLVPEPHYPRSIYSLGFSASVKKVDAAVFDPLRQKVFYFVVKQYWRVDVQELMDPAYPK  
 LISTHFPGIKPKIDAVLYFKRHYIFQGAYQLEYDPLFRRVTKLTKSTSWFGC

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

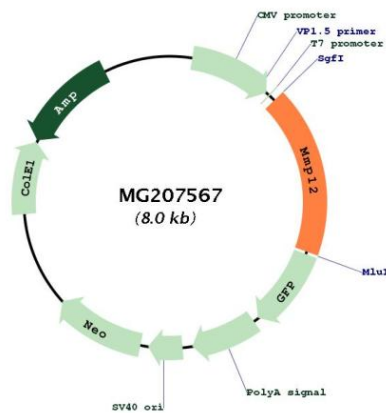
Sgfl-MluI



**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]

**Product images:**



Circular map for MG207567