

## Product datasheet for **MG227350**

### Mmp7 (NM\_010810) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp7 (NM_010810) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmp7
Synonyms:	MA; MAT; MMP-7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227350 representing NM_010810 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCTATGCAGCTCACCTGTTCTGCTTTGTGTCTGCTGCCAGGCCACCTGGCCCTGCCACTGT  
CCCAGGAAGCTGGAGATGTGAGCGCACATCAGTGGGAACAGGCTCAGAATTATCTTAGAAAATTTACCC  
TCATGACTCTAAAACAAAGAAGGTCAATAGTCTAGTGGACAACCTCAAGGAAATGCAGAAGTTCTTTGGC  
CTGCCCATGACTGAAAACCTCTCCCTACATCATGAAATAATGCAGAAACCTAGGTGTGGAGTGCCAG  
ATGTTGCAGAATACTCACTAATGCCAAACAGTCCAAAATGGCATTCCAGAATTGCACCTACAGAATTGT  
ATCCTATACTTCAGACTTACCTCGATCGTAGTGGATCAAATCGTGAAAAAGCTCTCAGAATGTGGAGT  
ATGCAGATCCCCTGAACCTCAAGAGGGTTAGTTGGGGGACTGCGGATATCATAATTGGCTTCGCAAGGA  
GAGATCATGGAGACAGCTTCCCTTTGATGGGCCAGGGAACACTTAGGTGCCTTCGCACCTGGGCC  
AGGCCTAGGCGGAGATGCTCACTTTGACAAGGATGAGTACTGGACTGATGGTGAGGACGCAGGAGTGAAC  
TTCCTGTTTGCTGCCACCCATGAATTTGGCCACTCTCTGGGTCTGAGTCACTCTTCTGTTCCCGTACTG  
TGATGTACCCTACCTATCAAAGAGACTACTCAGAAGACTTCAGTCTTACAAGGACGACATTGCAGGCAT  
TCAGAAGTTATATGAAAAGAGGAACACGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227350 representing NM\_010810  
 Red=Cloning site Green=Tags(s)

MAAMQLTLFCVCLLPGLHALPLSQEAGDVSAHQWEQAQNYLRKFYPHDSKTKKVNSLVDNLKEMQKFFG  
 LPMTGKLSPYIMEIMQKPRCGVPDVAEYSLMPNSPKWHSRIVTYRIVSYTSDLPRIVVDQIVKKALRMWS  
 MQIPLNFKRVSWGTAIIIGFARRDHGDSFPFDGPGNTLGHAFAPGPGGGGAHFDKDEYWTGDGAGVN  
 FLFAATHEFGHSLGLSHSSVPGTVMYPTYQRDYSEDFSLTKDDIAGIQKLYGKRNTL

TRTRPLE - GFP Tag - V

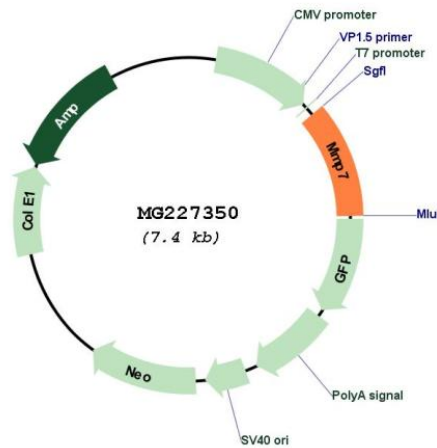
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_010810

**ORF Size:** 801 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_010810.5</a>, <a href="#">NP_034940.2</a></p>
<b>RefSeq Size:</b>	<p>878 bp</p>
<b>RefSeq ORF:</b>	<p>804 bp</p>
<b>Locus ID:</b>	<p>17393</p>
<b>Cytogenetics:</b>	<p>9 2.46 cM</p>
<b>Gene Summary:</b>	<p>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 are deficient in functional cryptidins. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Feb 2016]</p>