

## Product datasheet for **MG209364**

### **Mmp16 (NM\_019724) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mmp16 (NM_019724) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmp16
Synonyms:	MT-MMP 3; MT3-MMP; Mt3mmp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG209364 representing NM\_019724  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCTTACTCGCATTAGCTCTGGAAGAAGGTTGGATTCGTGCATCGTTCGGGTGTGTTTTCTTGC  
 AAACCTTGCTTTGGATTTATGTGCTACAGTCTGCGGAACGGAGCAGTATTTCAATGTGGAGGTTTGGTT  
 ACAAAAATACGGCTACCTTCCACCGACTGACCCAGAATGTCAGTGCTGCGCTCTGCAGAGACCATGCAG  
 TCAGCTCTAGCTGCCATGCAGCAGTTCTATGGCATTAAACATGACAGGAAAAGTGGACAGAAAACAATCG  
 ACTGGATGAAGAAGCCTCGATGCGGTGTACCAGACCAGACAAGAGGCAGCTCTAAATTCAACATTCGTGC  
 AAAGCGCTACGCATTAAGTGGACAGAAATGGCAACACAAACATATCACTTACAGTATAAAGAACGTAAC  
 CCAAAAGTTGGAGATCCTGAGACCCGGAGAGCAATTCGCCGTGCCTTTGATGTGTGGCAGAATGAACTC  
 CTCTAACGTTTGAAGAAGTCCCTACAGTGAAGTAAAGAACGGCAACAGTGTGGATATAACCATCAT  
 TTTTGCTTCTGGTTTTTCATGGAGACAGTCCCCATTTGATGGGGAGGGAGGATTTTGGCACATGCTTAT  
 TTCCCTGGACCCGGAATTTGGAGGCGACACCCATTTTATTCTGATGAGCCATGGACACTGGGAAATCCCA  
 ATCATGATGGAACGATTTATTTCTGTAGCAGTCCATGAGCTGGGACATGCTCTAGGACTGGAACATTC  
 CAACGACCCACCGCTATCATGGCCCCATTTATCAGTACATGGAACAGACAACCTCAAGCTTCCCTAAT  
 GATGATTTACAGGGCATCCAGAAGATATGGTCCACCTGACAAGATCCCTCCACCTACAAGACCTCTAC  
 CGACAGTGCCCCCGACCGATCTGTTCCCTCCAGCAGACCCAAGGAGACATGACAGGCCAAAACCTCCTCG  
 GCCTCCCACTGGCAGACCCTCCTATCCAGGAGCCAAACCAACATCTGTGATGGGAACTTCAACACTCTA  
 GCTATTTCTCGAAGGGAGATGTTGTTTTCAAGGACCAGTGGTTTTGGCGAGTGAGAAACAACAGGGTGA  
 TGGATGGATACCCAATGCAAAATTAAGTACTTCTGCGGGGCTTCCCTCCAGTATTGATGCAGTTTATGA  
 AAACAGTGACGGAAATTCGCTCTCTTTAAAGGCAACAAATACTGGGTGTTCAAAGACACAACCTTTCAA  
 CCTGGTTACCCTCATGACTTGATTACCCTTGGGAATGGAATCCCCCTCATGGTATTGATTCTGCCATAT  
 GGTGGGAAGATGTTGGCAAAACCTATTTCTTCAAAGGTGACAGGTATTGGAGATATAGTGAAGAAATGAA  
 AACCATGGACCCTGGTTACCCCAAGCCATCACCATCTGGAAGGGGATCCCTGAATCACCTCAGGGAGCT  
 TTCGTCCACAAAGAAAATGGCTTACCTATTTCTACAAAGGAAAGGAGTATTGGAATTCACAATCAGA  
 TACTCAAAGTAGAACCTGGTTATCCAAGATCCATCCTCAAGGACTTTATGGGCTGTGATGGACCAACAGA  
 CCGAGATAAAGAAGGACTCAGCCACCAGATGATGTAGACATTGCATCAAACCTGGACAACACAGCCAGC  
 ACTGTGAAAGCCATAGCTATTGTCAATCCCTGCATCTTGGCCTTATGCCTCCTTGTATTGGTTTACTCTG  
 TGTTCCAGTTCAAGAGGAAAGGAACACCCCGCCACATACTGTACTGTAACGCTCTATGCAAGAGTGGGT  
 G

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209364 representing NM\_019724  
 Red=Cloning site Green=Tags(s)

MILLAFSSGRRLDFVHRSGVFFLQTLWILCATVCGTEQYFNVEVWLQKYGYLPPTDPRMSVLRSAETMQ  
 SALAAMQQFYGINMTGKVDNRNTIDWMKKPRCGVPDQTRGSSKFNIRRKRYALTGQKWQHKHITYSIKNT  
 PKVGDPETRRAIRRAFDVWQNVPLTFEEVPYSELENGKRDVDITIIIFASGFHGDSSPFDGEGFLAHAY  
 FPGPGIGGDTHFDSDEPWTLGPNHNDGNDLFLVAVHELGHALGLEHSNDPTAIMAPFYQYMETDNFKLPN  
 DDLQGIQKIYGPPDKIPPPTRPLTPVPHRSVPPADPRRHRDRPKPPRPPTGRPSYPGAKPNICDGNFNTL  
 AILRREMFVFKDQWFWVRNRRVMDGYPMQITYFWRGLPPSIDAVYENSNGNFVFFKGNKYWVFKDITLQ  
 PGYPHDLITLGNIPPHGIDSIAIWWEDVGKTYFFKGDYRWYSEEMKTMDPGYPKPITIIWKGIPESPQGA  
 FVHKENGFTYFYKGEYWKFNQILKVEPGYPRILKDFMGCDGPTDRDKEGLSPPDDVDIVIKLDNTAS  
 TVKAIIVIPICILALCLLVVYTVFQFKRKGTPRHILYCKRSMQEWV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

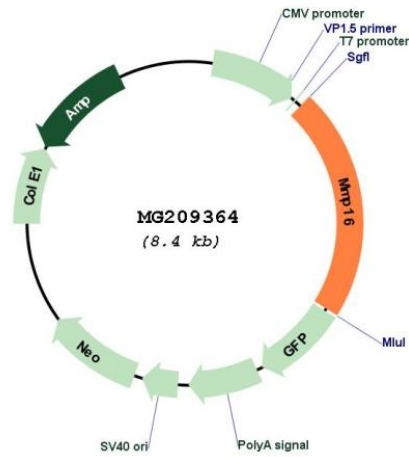
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_019724  
 ORF Size: 1821 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_019724.5</a>
<b>RefSeq Size:</b>	2490 bp
<b>RefSeq ORF:</b>	1824 bp
<b>Locus ID:</b>	17389
<b>UniProt ID:</b>	<a href="#">Q9WTR0</a>
<b>Cytogenetics:</b>	4 7.08 cM
<b>Gene Summary:</b>	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 exhibit retarded growth of the skeleton, especially in the cranium and long bones. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]