

Product datasheet for **MG209816**

Mmp15 (NM_008609) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp15 (NM_008609) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmp15
Synonyms:	AI503551; MT-MMP 2; MT2-MM; MT2-MMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG209816 representing NM_008609
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAGCGACCGGAGCGCACTCGGACGTCCAGGCTGCACTGGCAGCTGCCTCAGCAGCCGAGCTTCGC
TGCTCCCCTGCTACTGGTGCTTCTGGACTGTCTGGGCCATGGTACAGCGTCTAAAGACGCCGAAGTGTA
CGCCGCGGAGAAGTGGCTGCGGCTCTATGGCTACCTACCCAGCCAGCCGCCACATGTCCACCATGCGC
TCTGCCAGATCCTGGCCTCCGCCCTTGCCGAGATGCAGAGTTTCTATGGGATCCCTGTACGGGTGTGC
TTGATGAAGAGACGAAAACGTGGATGAAGCGGCCCGATGTGGGTTCTGATCAGTTTGGGGTACATGT
GAAAGCCAACCTGCGTCGACGGCGAAACGTTACACCCTGACAGGAAAGGCATGGAACAATTACCACCTG
ACCTTCAGCATCCAGAATACTGAGAAGCTGGGCTGGTACAACCTCCATGGAGGCGGTGCGCAGGGCTT
TCCAAGTGTGGGAGCAGTACACCATTTGGTCTTCCAGGAAGTATCCTATGATGACATTCGGCTACGAAG
GCGAGCGGAGGCTGACATCATGGTACTCTTTGCCCTCTGGCTTCCATGGCGACAGCTCACCGTTTGTATGGC
GTGGGTGGCTTTCTGGCCACGCTTATTTCCCGGCCCTGGTCTGGGTGGGGACACCCATTTGACGCGAG
ATGAACCTGGACCTTCTCCAGCACTGACCTGCATGGAATCAGCCTCTTTCTGGTGGCCGTGCATGAGCT
GGGCCATGCCCTGGGGCTAGAACAACCTCAAGTAACCCAGCGCTATTATGGCACCTTCTACCAGTGGATG
GATACCGACAACCTCCAGCTGCCCGAAGATGACCTTGGGGCATCCAGCAGCTGTATGGTCCCCAGATG
GTAAGCCACAGCCACCCGGCCTCTCCCACTGTGAGGCCCGCGGCCAGGACGGCCAGATCACAGCC
ACCTCGGCCTCCCAGCCACCACATCCAGGTGGGAAGCCAGAAAGGCCCCCAACCAGGGCCCCACCC
CAGCCCCGAGCCACAGAGAGGCTGACCAGTATGGCCCAACATCTGCGATGGCAACTTCGACACAGTGG
CTGTGCTCCGCGGAGAGATGTTTGTGTTCAAGGGCCGCTGGTTCTGGCGAGTCAGGCACAACCGCTTCT
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CATGGAGACCCTGGTACCCCAAGCCCATCAGTGTCTGGCAGGGGATCCCCACCTCTCCAAAGGGGCT
TCCTCAGCAACGATGCAGCCTACACCTACTTCTACAAGGGCACCAAGTACTGGAATTAACAACGAACG
CCTACGGATGGAACCCGGCCACCCAAATCCATCCTGCGGACTTCATGGGCTGCCAGGAGCACGTGGAG
CCCCGATCGCGATGGCCGATGTGGCTCGTCCACCTTCAACCCCAACGGGGGTGCCGAGCCTGAGGCAG
ATGGTGACAGCAAGGAAGAGAACGCGGGTGACAAGGATGAGGGCAGCCGCGTGGTGGTGCAGATGGAGGA
GGTGGTCCGGACAGTGAACGTGGTGTGGTGTGGTCCCTTGTGCTGTTGCTGTATTCTGGGCCTG
GCCTTTGCTCTGGTGCAGATGCAGCGCAAGGGCGCCCCTCGCATGCTGCTACTGCAAGCGCTCACTGC
AGGAGTGGGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209816 representing NM_008609
 Red=Cloning site Green=Tags(s)

MGSDRSALGRPGCTGSCLSSRASLLPLLLVLLDCLGHGTASKDAEVYAAENWLRLYGYPQPSRHMSTM
 SAQILASALAEMQSFYGIPTVGLDEETKTWMKRPRCGVPDQFGVHVKANLRRRRKRYTLTGKAWNNYHL
 TFSIQNYTEKLGWYNSMEAVRRAFQVWEQVTPLVFQEVSYDDIRLRRRAEADIMVLFASGFHGDSSPFDG
 VGGFLAHAYFPGPGLGGDTHFDADEPWTFSSDHLHGISLFLVAVHELGHALGLEHSSNPASAIMAPFYQWM
 DTDNFQLPEDDLRGIQQLYQSPDGKQPTRPLPTVRPRRGRPDHQPFRPPQPPHPGGKPERPPKGP
 QPRATERPDQYGNICDGNFDTVAVLRGEMFVFKGRWFRVRHNRVLDNYPMPIGHFWRGLPGNISAAAYE
 RQDGHFVFFKGNRYWLFREANLEPGYPQLSSYGTDIPYDRIDTAIWWEPTGHTFFFQADRYWRFNEETQ
 HGDPGYPKPIVWQGIPTSPKGAFLSNDAAITYFYKGTKYWKFNNERLRMEPGHPKSILRDFMGCQEHVE
 PRRSWPDVARPPFNPNGGAEPEADGDSKEENAGDKDEGSRVVVQMEEVVRTVNVVMVLVPLLLLLCILGL
 AFALVQMQRKGAPRMLLYCKRSLQEWV

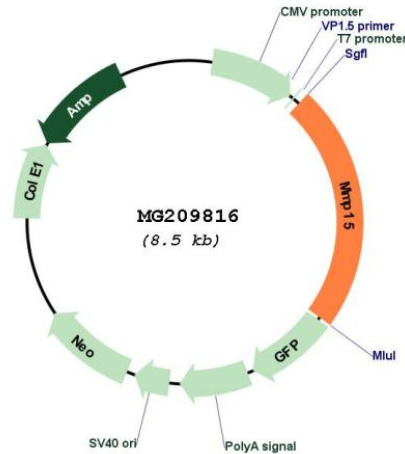
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_008609

ORF Size: 1971 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).

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_008609.4](#)

RefSeq Size: 4346 bp

RefSeq ORF: 1974 bp

Locus ID: 17388

UniProt ID: [O54732](#)

Cytogenetics: 8 47.12 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. A deficiency of the encoded protein in mice is compatible with normal development and postnatal growth. [provided by RefSeq, Feb 2016]