

Product datasheet for **MG227676**

Mmp19 (NM_001164197) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp19 (NM_001164197) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmp19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227676 representing NM_001164197
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTGGCAGCAGCTGTGGCTGGCATTCTTACTTCCCATGACAGTCTCAGGCCGGCTCTGGGCCTA
 CAGAGAAGGAGGAGTCTTGGATTACCTGTTGCAGTATGGGTATCTACAGAAACCTCTAGAAGGAGCTGA
 TGACTTACAGGCTGGAAGATATCACAGAGCTTTAAGAAGTTCCAGGAAGCATCTGGACTGCCCATTTCC
 GGTGAGATGGATGACGCCACAAGGGCCCGTATGAAGCAGCCCGTTGTGGTCTGGAGGATCCCTTCAACC
 AGAAATCTCTAAATACCTGCTTCTGGGCCACTGGAGAAAGAAGAACTTGACATTCGCGATCTTCAATGT
 GCCCTCCACCCTCACTTCCAGAGTCCGAGCAGCCCTGCATCAAGCCTTAAAGTACTGGAGCAGCGTG
 GCTCCTGACCTTCCGGGAGGTGAAAGCTGGTGGGCTGACATTCGCTCTCTTCCATGGCCGCCAAA
 GCCTGTACTGCTCAATACCTTTGATGGCCTGGAAAGGTCTGGCCCATGCTGACATCCAGAACTTGG
 GAGTATACACTTTGATAAAGATGAAGTCTGGACTGAGGGGACCTATCAAGGAGTGAACCTGCGCATATT
 GCGGCCATGAAGTGGGCCATGCCCTAGGACTTGGGCACTCCCGATATACCCAGGCACTCATGGCTCCTG
 TCTATGCTGGCTACCAGCCCTTCTCAAGCTGCATCCAGATGATGTGGCAGGGATCCAGGCTCTCTATGG
 CAAGAGGAGCCCAGAGACAAGAGATGAGGAGGAAGAGACCAGATGCTCACTGTGTCTCCAGTACTGCA
 AAACCTGGTCCCATGCCAAACCCCTGCAGCGGTGAGGTGGACGCCATGGTGTGGGCTCGTGGGAAGA
 CTTATGCTTTCAAGGGCGACTATGTGTGGACTGTAAACAGATTCAAGGGCCAGGCCCTTGTCCAAATATC
 TGCCCTTTGGGAGGGCTTCTGGAAACCTAGATGCTGCCGTTTACTCTCCCGGACACGACGGACTCAT
 TTCTTCAAGGGAACAAGGTGTGGCGGTATGTGGATTTCAAGATGTCTCCTGGCTTCCCATGAAATTC
 ACAGAGTAGAGCCCAACCTGGATGCAGTCTCTACTGGCTGTTAATCAAAGGTGTTCTGTTAAGGG
 CTCAGGATACTGGCAATGGGATGAAGTGGCCAGAACTGACCTTAGCCGCTACCCTAAACCAATCAAGGAA
 CTGTTTACTGGAGTGCCAGACCGACCCTCGGCAGCTATGAGCTGGCAAGATGGCCAAAGTCTACTTTTTCA
 AGGGCAAAGAGTATTGGCGCCTTAACCAGCAACTTCGAGTGGCAAAGGGCTATCCAGAAATACGACACA
 CTGGATGCACTGTGGTTCTCAGACTCCAGACACTAAGTCAACCGGGGACGTTACTCCTTCAACCACA
 GACACAGTCTTGGGTACCCTCCATCAACCATGGGCTCAACCTTGGACATTCCTCAGCTACAGACTCTG
 CCTCCCTCTCATTCTCTGCTAATGTCACCCTGCTAGGGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

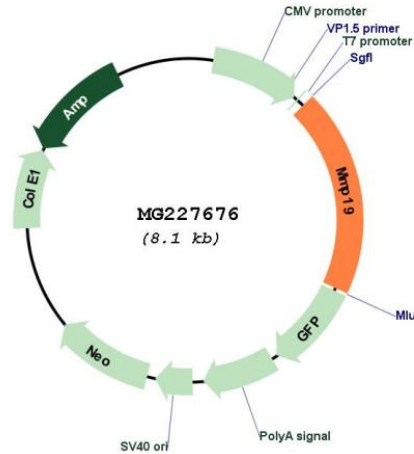
>MG227676 representing NM_001164197
 Red=Cloning site Green=Tags(s)

MDWQQLWLAFLLPMTVSGRALGPTEKEAVLDYLLQYGYLQKPLEGADDFRLEDITEALRTFQEASGLPIS
 GQMDDATRARMKQPRCGLEDPFNQKSLKYLKLLGHWRKKNLTFRIFNVPSTLSLPRVRAALHQAFKYWSSV
 APLTFREVKAGWADIRLSFHGRQSLYCSNTFDGPGKVLAHADIPELGSIHFDDKDELWTEGTYYQGVNLRII
 AAHEVGHALGLGHSRYTQALMAPVYAGYQPFKFLHPDDVAGIQALYGRSPETRDEEEETEMLTVSPVTA
 KPGMPNPNCSGEVDAMVLGPRGKTYAFKGDYVWTVTDSGPGPLFQISALWEGLPGNLDAAVYSPRRRTH
 FFKGNKVWRYVDFKMSPGFPMKFNRPENLDAALYWPVNQKVFVFKGSGYWQWDELARTDLSTRYPKPIKE
 LFTGVPDRPSAAMSWQDGQVYFFKKEYWRLNQQLRVAKGYPRNTTHMHCHGSQTPDNTSSTGDVTPSTT
 DTVLGTTPSTMGSTLDIPSATDSASLSFSANVTLLGA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_001164197

ORF Size: 1365 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_001164197.1](#), [NP_001157669.1](#)

RefSeq Size: 3275 bp

RefSeq ORF: 1368 bp

Locus ID: 58223

Cytogenetics: 10 77.16 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 develop a diet-induced obesity due to adipocyte hypertrophy, exhibit decreased susceptibility to chemical carcinogen-induced skin tumors and early onset of tumoral angiogenesis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2016]