

Product datasheet for **MR227673**

Mmp19 (NM_021412) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp19 (NM_021412) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227673 representing NM_021412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTGGCAGCAGCTGTGGCTGGCATTCTTACTTCCCATGACAGTCTCAGGCCGGCTCTGGGCCTA
 CAGAGAAGGAGGAGCTTTGGATTACCTGTTGCAGTATGGGTATCTACAGAAACCTCTAGAAGGAGCTGA
 TGACTTACAGGCTGGAAGATATCACAGAGCTTTAAGAAGTTCCAGGAAGCATCTGGACTGCCATTTC
 GGTGAGATGGATGACGCCACAAGGGCCCGTATGAAGCAGCCCGTTGTGGTCTGGAGGATCCCTTCAACC
 AGAAATCTCTAAATACCTGCTTCTGGGCCACTGGAGAAAGAAGAACTTGACATTCGCGATCTTCAATGT
 GCCCTCCACCCTCTCACTCCCAGAGTCCGAGCAGCCCTGCATCAAGCCTTAAAGTACTGGAGCAGCGTG
 GCTCCTGACCTTCCGGGAGGTGAAAGCTGGTGGGCTGACATTCGCTCTCTTCCATGGCCGCCAAA
 GCCTGTACTGCTCAATACCTTTGATGGCCTGGAAAGGTCTGGCCATGCTGACATCCAGAAGTTGG
 GAGTATACACTTTGATAAAGATGAAGTCTGGACTGAGGGGACCTATCAAGGAGTGAACCTGCGCATATT
 GCGGCCATGAAGTGGGCCATGCCCTAGGACTTGGGCACTCCCGATATACCCAGGCACTCATGGCTCCTG
 TCTATGCTGGCTACCAGCCCTTCTCAAGCTGCATCCAGATGATGTGGCAGGGATCCAGGCTCTCTATGG
 CAAGAGGAGCCCAGAGACAAGAGATGAGGAGGAAGAGACCAGATGCTCACTGTGTCTCCAGTACTGCA
 AAACCTGGTCCCATGCCAAACCCTGCAGCGGTGAGGTGGACGCCATGGTGTGGGCTCGTGGGAAGA
 CTTATGCTTTCAAGGGCGACTATGTGTGGACTGTAAACAGATTCAAGGGCCAGGCCCTTGTCCAAATATC
 TGCCCTTTGGGAGGGCTTCTGGAAACCTAGATGCTGCCGTTTACTCTCCCGGACACGACGGACTCAT
 TTCTTCAAGGGAACAAGGTGTGGCGGTATGTGGATTCAAGATGTCTCCTGGCTTCCCATGAAATCA
 ACAGAGTAGAGCCCAACTGGATGCAGTCTCTACTGGCTGTTAATCAAAGGTGTTCCCTGTTAAAGGG
 CTCAGGATACTGGCAATGGGATGAAGTGGCCAGAACTGACCTTAGCCGCTACCCTAAACCAATCAAGGAA
 CTGTTTACTGGAGTGCCAGACCGACCCTCGGCAGCTATGAGCTGGCAAGATGGCCAAAGTCTACTTTTTCA
 AGGGCAAAGAGTATTGGCGCCTTAACCAGCAACTTCGAGTGGCAAAGGGCTATCCAGAAATACGACACA
 CTGGATGCACTGTGGTTCTCAGACTCCAGACACTAAGTCAACCGGGGACGTTACTCCTTCAACCACA
 GACACAGTCTTGGGTACCACTCCATCAACCATGGGCTCAACCTTGGACATTCCTCAGCTACAGACTCTG
 CCTCCCTCTATTCTCTGCTAATGTCACCCTGCTAGGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227673 representing NM_021412
 Red=Cloning site Green=Tags(s)

MDWQQLWLAFLLPMTVSGRALGPTEKEAVLDYLLQYGYLQKPLEGADDFRLEDITEALRTFQEASGLPIS
 GQMDDATRARMKQPRCGLEDPFNQSLKYLKLLGHWRKKNLTFRIFNVPSTLSLPRVRAALHQAFKYWSSV
 APLTFREVKAGWADIRLSFHGRQSLYCSNTFDGPGKVLAHADIPELGSIHFDKDELWTEGTYQGVNLRII
 AAHEVGHALGLGHSRYTQALMAPVYAGYQPFKFLHPDDVAGIQALYGKRPETRDEEEETEMLTVSPVTA
 KPGMPNPNCSGEVDAMVLGPRGKTYAFKGDYVWTVTDSGPGLFQISALWEGLPGNLDAAVYSPRRRTH
 FFKGNKVWRYVDFKMSPGFPMKFNREPNLDAALYWPVNQKVFLLFKGSGYWQWDELARTDLSPYKPIKE
 LFTGVDPDRPSAAMSWQDGGVYFFKKEYWRLNQQLRVAKGYPRNTHHMHCGSQTPDNTSSTGDVTPSTT
 DTVLGTTPSTMGSTLDIPSATDSASLSFSANVTLLGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021412

ORF Size: 1581 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

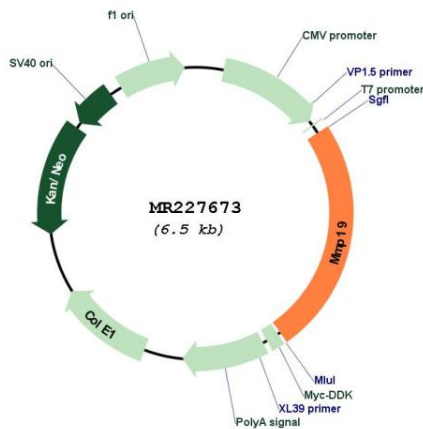
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_021412.3, NP_067387.1](#)
RefSeq Size: 3410 bp
RefSeq ORF: 1584 bp
Locus ID: 58223
UniProt ID: [Q9JHI0](#)
Cytogenetics: 10 77.16 cM
MW: 59.6 kDa

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]

Product images:



Circular map for MR227673