

Product datasheet for **MR225902**

Mmp10 (NM_019471) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Mmp10 (NM_019471) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Mmp10 |
| Synonyms: | AV377895; MMP-10; SL-2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR225902 representing NM_019471
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCACTAGCCATCCTGGCACTGCTGAGCCTACCAATCTGCTCAGCGTATCCTCTGCATGGGGCAG
 TGACACAAGGCCACCAAGCATGGATCTTGCTCAGCAATACCTAGAAAAATACTACAACCTTTAAAAAAA
 TGAGAAAACAAATTTTCAAAGAAAAGGACAGTAGTCCTGTTGTCAAAAAAATTCAGAAAATGCAGAAGTTC
 CTCGGGTTGGAGATGACAGGGAAGCTGGACTCCAACACTATGGAGCTGATGCACAAGCCCAGGTGTGGTG
 TTCCTGATGTTGGTGGCTTCAGTACCTCCAGGTTCCGCAAAATGGAGGAAATCCACATCACCTACAG
 GATTGTGAATTACACCAGATTTGCCAAGACAGAGTGTGGATTCTGCCATTGAGAAAGCTTTGAAGGTC
 TGGGAGGAGGTGACCCCACTCACTTTCCAGGATCTCTGAAGGAGAGGCTGACATAATGATCTCCTTTG
 CAGTTGGAGAACCGGAGACTTTACCCTTTTGATGGGCCAGGACAGAGTCTGGCTCATGCCTACCCACC
 TGGCCCTGGATTTATGGAGATGTTCACTTCGATGATGATGAGAAATGGACACTTGACCCTCAGGGACC
 AACTTATTCCTGGTTGCAGCCCATGAACCTGGCCACTCCCTGGGTCTCTTCATTCCGACAAGAAAAGAT
 CTCTGATGTACCCAGTCTACAGTTCTCCACAAGCCCAGCTAACTCCACCTTTCTCAAGATGATATAGA
 GGGCATTCAATCCCTGTATGGAGCCGGTCCCTCCTCCGATGCCACAGTGGTTCTCTGTGTTGTCTGTCTCT
 CCAAGACCTGAGACCCAGACAAATGTGATCCTGCTTTGTCTTTGATTAGTCAAGCAGCAGCTGAGAGGGG
 AAGTCCTATTCTTTAAAGACAGGTACTTCTGGCGCAGATCCCATTGGAATCCCGAGCCTGAATTTCAATT
 GATATCAGCATTTGGCCCACTCTCCTCAGACTTAGATGCTGCCTATGAGGCTCACAACACGGACAGT
 GTTCTGATTTTAAAGGAAGTCAGTCTGGGCAGTCCGAGGAAATGAAGTCCAAGCAGGCTACCCAAAGG
 GGATCCACACTCTCGGTTTTCTCCACCGTGAAGAAGATTGATGCAGCTGTTTTTGAAGGAGAAAGAA
 GAAAACGTACTTCTTTGTAGGGGACAAATACTGGAGATTTGATGAGACAAGACATGTTATGGATAAAGGC
 TTCCCAAGACAGATAACAGATGATTTTCCAGGAATTGAGCCACAAGTTGATGCTGTGTTACACGAATTTG
 GGTTTTTTTATTTCTCCGAGGATCATCACAGTTCGAGTTGACCCCAATGCCAGGACGGTGACACACAT
 ACTGAAGAGCAACAGCTGGCTGCTGTGC

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225902 representing NM_019471
 Red=Cloning site Green=Tags(s)

MEPLAILALLSLPICSAAYPLHGAVTQGHPSMDLAQQYLEKYNNFKKNEKQIFKRKSSPVVKKIQEMQKF
 LGLEMTGKLDNSTMELMHKPRCGVPDVGGFSTFPGSPKWRKSHITYRIVNYTPDLPRQSVDSAIEKALKV
 WEEVTPLTFSRISEGEADIMISFAVGEHGFYFPFDGPGQSLAHAYPPGPGFYGDVHFDDDEKWLAPSGT
 NLFVAAHELGHSLGLFHSDDKESLMYPVYRFSTSPANFHLSDDDIEGIQSLYGAPSSDATVVPVLSVS
 PRPETPDKCDPALSFDVSTLRGEVLFKDRYFWRSSHWNPEPEFHLISAFWPTLPSDLDAAYEAHNTDS
 VLIFKGSQFWAVRGNEVQAGYPKGIHTLGFPTVKKIDAAVFEKEKKTYFFVGDKYWRFDETRHVMDKG
 FPRQITDDFPGIEPQVDAVLHEFGFFYFRGSSQFEFDPNARTVTHILKSNSWLLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9039_d10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_019471

ORF Size: 1428 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.

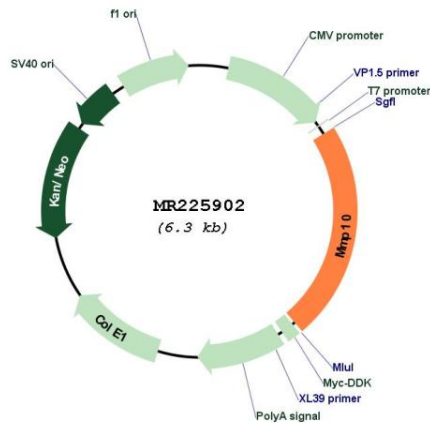
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_019471.3, NP_062344.1](#)
RefSeq Size: 1734 bp
RefSeq ORF: 1431 bp
Locus ID: 17384
UniProt ID: [O55123](#)
Cytogenetics: 9 A1
MW: 54.4 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. The lack of encoded protein in mice promotes experimental lung cancer formation, exacerbates experimental colitis and promotes development of inflammation-associated colonic dysplasia. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Feb 2016]

Product images:



Circular map for MR225902