

## Product datasheet for **MC216469**

### Mmp10 (NM\_019471) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Mmp10 (NM_019471) Mouse Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | Mmp10   |
| Synonyms:                 | AV377895; MMP-10; SL-2  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_019471, the custom clone sequence may differ by one or more nucleotides |

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ATGGAGCCACTAGCCATCCTGGCACTGCTGAGCCTACCAATCTGCTCAGCGTATCCTCTGCATGGGCAG
TGACACAAGGCCACCCAAGCATGGATCTTGCTCAGCAATACCTAGAAAAATACTACAACCTTTAAAAAAA
TGAGAAACAAATTTTCAAAGAAAGGACAGTAGTCCTGTTGTCAAAAAATTCAGAAATGCAGAAGTTC
CTCGGTTGGAGATGACAGGGAAGCTGGACTCCAACACTATGGAGCTGATGCACAAGCCCAGGTGTGGT
TTCTGATGTTGGTGGCTTCAGTACCTCCAGGTTCCGCAAAATGGAGGAAATCCACATCACCTACAG
GATTGTGAATTACACCAGATTTGCCAAGACAGAGTGTGGATTCTGCCATTGAGAAAGCTTTGAAGGTC
TGGGAGGAGGTGACCCCACTCACTTTCTCCAGGATCTCTGAAGGAGAGGCTGACATAATGATCTCCTTTG
CAGTTGGAGAACCGGAGACTTTTACCCTTTTGATGGGCCAGGACAGAGTCTGGCTCATGCCTACCCACC
TGGCCCTGGATTTTATGGAGATGTTCACTTCGATGATGATGAGAAATGGACACTTGACCCCTCAGGGACC
AACTTATTCCTGGTTGCAGCCCACTGAACCTGGCCACTCCCTGGGTCTCTTTCATTCCGACAAGAAAGAA
CTCTGATGTACCCAGTCTACAGGTTCTCCACAAGCCCAGCTAACTCCACCTTTCTCAAGATGATATAGA
GGGCATTCAATCCCTGTATGGAGCCGGTCCCTCCTCCGATGCCACAGTGGTTCCTGTGTTGTCTGTCTCT
CCAAGACCTGAGACCCAGACAAATGTGATCCTGCTTTGCTCTTTGATTTCAGTCAACACGCTGAGAGGGG
AAGTCTATTCTTTAAAGACAGGTACTTCTGGCGCAGATCCCATTGGAATCCCGAGCCTGAATTTCAATT
GATATCAGCATTGTTGGCCACTTCTCCTCAGACTTAGATGCTGCCTATGAGGCTCACAACACGGACAGT
GTTCTGATTTTTAAAGGAAGTCAGTTCTGGGCAGTCCGAGGAAATGAAGTCCAAGCAGGCTACCCAAAGG
GGATCCCACTCTCGTTTTCTCCACCGTGAAGAAGATTGATGCAGCTGTTTTGAAAAGGAGAGAAGAA
GAAAACGTACTTCTTTGTAGGGGACAAATACTGGAGATTTGATGAGACAAGACATGTTATGGATAAAGGC
TTCCCAAGACAGATAACAGATGATTTTCCAGGAATTGAGCCACAAGTTGATGCTGTGTTACACGAATTTG
GGTTTTTTATTTCTCCGAGGATCATCACAGTTCGAGTTTGACCCCAATGCCAGGACGGTGACACACAT
ACTGAAGACACAGCTGGCTGCTGTGCTGA
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|                               |  |
|-------------------------------|--|
| <b>Restriction Sites:</b>     | Sgfl-Mlul  |
| <b>ACCN:</b>                  | NM_019471  |
| <b>Insert Size:</b>           | 1431 bp  |
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p> |
| <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="#">BC130027</a> , <a href="#">AAI30028</a>  |
| <b>RefSeq Size:</b>           | 1582 bp  |
| <b>RefSeq ORF:</b>            | 1431 bp  |
| <b>Locus ID:</b>              | 17384  |
| <b>UniProt ID:</b>            | <a href="#">O55123</a>   |
| <b>Cytogenetics:</b>          | 9 A1   |
| <b>Gene Summary:</b>          | <p>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]</p>   |