

Product datasheet for **RG206261**

MMP17 (NM_016155) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP17 (NM_016155) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MMP17
Synonyms:	MMP-17; MT4-MMP; MT4MMP; MTMMP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206261 representing NM_016155
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGCGCCGCGCAGCCCGGGGACCCGGCCCGCCGCCCCAGGGCCCGACTCTCGCGGCTGCCGCTGC
 TGCCTGCTGCCGCTGCTGCTGCTGCTGGCGCTGGGGACCCGCGGGGCTGCGCCGCGCCCGCACCCGCGCC
 GCGCGCCGAGGACCTCAGCCTGGGAGTGGAGTGGCTAAGCAGGTTTCGTTACCTGCCCGGCTGACCCC
 ACAACAGGGCAGCTGCAGACGCAAGAGGAGCTGTCTAAGGCCATCACAGCCATGCAGCAGTTTGGTGGCC
 TGGAGGCCACCGGCATCCTGGACGAGGCCACCCTGGCCCTGATGAAAACCCACGCTGCTCCCTGCCAGA
 CCTCCCTGCTCCTGACCCAGGCTCGCAGGAGACGCCAGGCTCCAGCCCCACCAAGTGAACAAGAGGAAC
 CTGTCTGGAGGGTCCGGACGTTCCACGGGACTCACCCTGGGGCAGCACCGGTGCGTGCCTCATGT
 ACTACGCCCTCAAGGTCTGGAGCGACATTGCGCCCTGAACTTCCACGAGGTGGCGGGCAGCACCCCGCA
 CATCCAGATCGACTTCTCCAAGGCCAACATAACGACGGCTACCCCTTCGACGGCCCGGGCGCACCGTG
 GCCACGCTTCTTCCCCGGCCACCACAACCCCGGGGACACCCACTTTGACGATGACGAGGCCCTGGA
 CCTTCCGCTCCTCGGATGCCACGGGATGGACCTGTTTGCAGTGGCTGTCCACGAGTTTGGCCACGCCAT
 TGGGTTAAGCCATGTGGCCGCTGCACACTCCATCATGCGCCGTAACAGGGCCCGGTGGGTGACCCG
 CTGCGCTACGGGCTCCCCACGAGGACAAGGTGCGCGTGTGGCAGCTGTACGGTGTGCGGGAGTCTGTGT
 CTCCCACGGCGCAGCCGAGGAGCTCCCTGCTGCCGGAGCCCCAGACAACCGGTCCAGCGCCCGGCC
 CAGGAAGGACGTGCCACAGATGCAGCACTACTTTGACCGGTGGCCAGATCCGGGTGAAGCTTTC
 TTCTTCAAAGGCAAGTACTTCTGGCGGCTGACCGGGACCGGCACCTGGTGTCCCTGCAGCCGGCACAGA
 TGCACCGCTTCTGGCGGGCCTGCCGCTGCACCTGGACAGCGTGGACCGCTGTACGAGCGCACCGCA
 CCACAAGATCGTCTTCTTAAAGGAGACAGGTAAGTGGTGTCAAGGACAATAACGTAGAGGAAGGATA
 CCGCGCCCGTCTCCGACTTCCGCTCCCGCTGGCGGCATCGACGCTGCCTTCTCTGGGCCACAATG
 ACAGGACTTATTTCTTAAAGGACAGCTGTACTGGCGCTACGATGACCACAGGACACATGGACCCCGG
 CTACCCCGCCAGAGCCCTGTGGAGGGTGTCCCAGCAGCTGGACGACGCCATGCGCTGGTCCGAC
 GGTGCCTACTACTTCTCCGTGGCCAGGAGTACTGGAAAGTGTGGATGGCGAGCTGGAGGTGGACCCG
 GGTACCCACAGTCCAGGCCCGGACTGGCTGGTGTGGAGACTCACAGCCGATGGATCTGTGGCTGC
 GGGCGTGGACGCGCAGAGGGGCCCGCCCTCCAGGACAACATGACCAGAGCCGCTCGGAGGACGCT
 TACGAGGTCTGCTCATGCACCTCTGGGCATCCTCTCCCCGGGGCCCCAGGCCACTGGTGGCTGCCA
 CCATGCTGCTGCTGCTGCCGCACTGTACCAGGCGCCCTGTGGACAGCGGCCAGGCCCTGACGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206261 representing NM_016155
 Red=Cloning site Green=Tags(s)

MRRRAARGP PPPPGPLSRLPLPLLLLLALGTRGGCAAPAPRAEDLSLGV EWSRFYGLPPADP
 TTGQLQTQEELSKAITAMQQFGGLEATGILDEATLALMKTPRCSLPDLPVLTQARRRRQAPPTKWNKRN
 LSWRVRTFPRDSPLGHDTVRALMYALKVWSDIAPLNFHEVAGSTADIQIDFSKANHNDGYPFDPGGTV
 AHAFPPGHHTAGDTHFDDDEAWTFRSSDAHGMDFAVAVHEFGHAIGLSHVAAAHSIMRPPYYQGPVGD
 LRYGLPYEDKVRVWQLYGVRESVSPTAQPEEPLPEPPDNRSSAPPRKDVPHRCSTHFDAVAQIRGEAF
 FFKGKYFWRLTRDRHLVSLQPAQMHRFWRGLPLHLDSVDVYERTSDHKIVFFKGDYVWFKDNVVEEGY
 PRPVSDFLPPGGIDAAFSWAHNDRTYFFKDQLYWRYYDDHTRHMDPGYPASPLWRGVPSTLDDAMRWS
 GAYYFFRQEQYWKVLDGELEVPAGYPQSTARDWLVCGDSQADGSVAAGVDAAEGRPRAPPQHDSRSEDG
 YEVCSTSGASSPPGAPPLVAATMLLLLPLSPGALWTAQALTL

TRTRPLE - GFP Tag - V

Restriction Sites:

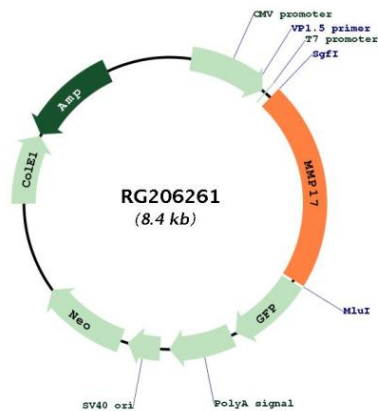
SgfI-MluI

Cloning Scheme:


- ACCN:** NM_016155
- ORF Size:** 1818 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.
- Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
- RefSeq:** [NM_016155.4](#), [NP_057239.4](#)
- RefSeq Size:** 2429 bp
- RefSeq ORF:** 1812 bp
- Locus ID:** 4326

UniProt ID: [Q9ULZ9](#)
Cytogenetics: 12q24.33
Domains: hemopexin, Peptidase_M10, ZnMc
Protein Families: Druggable Genome
Gene Summary: This gene encodes a member of the peptidase M10 family and membrane-type subfamily of matrix metalloproteinases (MMPs). Proteins in this family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Members of this subfamily contain a transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. The encoded preproprotein is proteolytically processed to generate the mature protease. This protein is unique among the membrane-type matrix metalloproteinases in that it is anchored to the cell membrane via a glycosylphosphatidylinositol (GPI) anchor. Elevated expression of the encoded protein has been observed in osteoarthritis and multiple human cancers. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG206261