

Product datasheet for **RG207318**

MMP15 (NM_002428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP15 (NM_002428) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MMP15
Synonyms:	MMP-15; MT2-MMP; MT2MMP; MTMMP2; SMCP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207318 representing NM_002428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAGCGACCCGAGCGCCCGGACGCGCGGGCTGGACGGGCAGCCTCCTCGCGACCCGGGAGGAGG
 CGGCGCGGCCGCGACTGCTGCCGCTGCTCCTGGTGCTTCTGGGCTGCCTGGGCCTTGGCGTAGCGGCCGA
 AGACGCGGAGGTCCATGCCGAGAACTGGCTGCGGCTTTATGGCTACCTGCCTCAGCCCAGCCGCATATG
 TCCACCATGCGTTCGCCAGATCTTGGCCTCGGCCCTTGACAGATGCAGCGCTTCTACGGGATCCAG
 TCACCGGTGTGCTCGACGAAGAGACCAAGGAGTGGATGAAGCGGCCCGCTGTGGGTGCCAGACAGTT
 CGGGGTACGAGTAAAGCAACCTGCGGCGCGCTCGGAAGCGCTACGCCCTACCGGGAGGAAGTGAAC
 AACCCACTCTGACCTTTAGCATCCAGAACTACACGGAGAAGTTGGGCTGGTACCACTCGATGGAGGCGG
 TGCGCAGGGCCTTCCGCGTGTGGGAGCAGGCCACGCCCTGGTCTTCCAGGAGTGCCCTATGAGGACAT
 CCGGCTGCGGCGACAGAAGGAGGCCGACATCATGGTACTTTTGCCTCTGGCTTCCACGGCGACAGCTCG
 CCGTTTGTATGGCACCGGTGGCTTTCTGGCCACGCCTATTTCCCTGGCCCGGCCAGGCGGGACACCC
 ATTTTGACGCAGATGAGCCCTGGACCTTCTCCAGCACTGACCTGCATGGAACAACCTTCTCCTGGTGGC
 AGTGATGAGCTGGGCCACGCGCTGGGGCTGGAGCACTCCAGCAACCCCAATGCCATCATGGCACCGTTC
 TACCAGTGAAGGACGTTGACAACCTTAAGCTGCCCGAGGACGATCTCCGTGGCATCCAGCAGCTTACG
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 TGACCACGGCCCGCCCGCCCTCCCAAGCACCACCCCAAGTGGGAAGCCAGAGCGGCCCCCAAGCCG
 GGCCCTCCAGTCCAGCCCGAGCCACAGAGCGGCCCGACCAGTATGGCCCAACATCTGCGACGGGGACT
 TTGACACAGTGGCATGCTTCCGCGGGAGATGTTCTGTCAAGGGCCGCTGGTTCTGGCGAGTCCGGCA
 CAACCGCGTCTGGACAACATCCCATGCCATCGGGCACTTCTGGCGTGGTCTGCCCGGTGACATCAGT
 GCTGCCTACGAGCGCAAGACGGTCGTTTTGTCTTTTCAAAGGTGACCGCTACTGGCTCTTTCGAGAAG
 CGAACCTGGAGCCCGCTACCCACAGCCGCTGACCAGCTATGGCCTGGGCATCCCCTATGACCGCATTGA
 CACGGCCATCTGGTGGGAGCCACAGGCCACACCTTCTTCTTCAAAGAGGACAGGTAAGGCGTTCAC
 GAGGAGACACAGCGTGGAGACCCTGGGTACCCCAAGCCCATCAGTGTCTGGCAGGGGATCCCTGCCTCC
 CTAAGGGGCCTTCTGAGCAATGACGCAGCCTACACCTACTTCTACAAGGCACCAATACTGAAATT
 CGACAATGAGCGCTGCGGATGGAGCCCGCTACCCCAAGTCCATCCTGCGGGACTTCATGGGCTGCCAG
 GAGCACGTGGAGCCAGGCCCGCATGGCCCGACGTGGCCCGGCCCTTCAACCCACGGGGGTGCAG
 AGCCCGGGCGGACAGCGCAGAGGGCGACGTGGGGATGGGGATGGGGACTTTGGGGCCGGGTCAACAA
 GGACGGGGGACGCGTGGTGGTGCAGATGGAGGAGTGGCACGGACGGTGAACGTGGTGGTGGTGGT
 GTGCCACTGCTGCTGCTCTGCGTCTGGGCTCACCTACGCGCTGGTGCAGATGCAGCGCAAGGGTG
 CGCCACGTGCTCTGCTTACTGCAAGCGCTCGCTGCAGGAGTGGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207318 representing NM_002428
 Red=Cloning site Green=Tags(s)

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MGSDPSAPGRPGWTGSLLDGDEEAARPLLPLLLVLLGCLGLGVAEDAIEVHAENWLRLYGYLPQPSRHM
STMRSQILASALAEMQRFYGIPTVGLDEETKEWMKRPKRCGVPDQFQVVRVKANLRRRRKRYALTGRKWN
NHHLTFSIQNYTEKLGWYHSMEAVRRAFRVWEQATPLVFQEVYEDIRLRRQKEADIMVLFASGFHGDSS
PFDDGTGGFLAHAYFPGPLGGDTHFDADEPWTFSTDLHGNNLFLVAVHELGHALGLEHSSNPNAIMAPF
YQWKDVDNFKLPEDDLRGIQQLYGTDPGQPQPTQPLPTVTPRRRGRPDHRPPRPPPPGGKPERPPKP
GPPVQPRATERPDQYGPNICDGDFTVAMLRGEMFVKGRWFRVRHNRVLDNYMPMPIGHFWRGLPGDIS
AAYERQDRGFVFFKGDYWLFREANLEPGYPQPLTSYGLGIPYDRIDTAIWWEPTGHTFFQEDRYWRFN
EETQRGDGPYKPKISVWQGIKASPKGAFLSNDAAYTYFYKGTKYWKFDNERLRMEPGYKPKILRDFMGCQ
EHVEPGPRWPDVARPPFNPHGGAEPGADSAEGDVGDDGDFGAGVKNKGGSRVVVQMEEVARTVNVVMVL
VPLLLLLCVLGLTYALVQMQRKGAPRVLLYCKRSLQEWV
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002428

ORF Size: 2007 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_002428.2](#), [NP_002419.1](#)

RefSeq Size: 4456 bp

RefSeq ORF: 2010 bp

Locus ID: 4324

UniProt ID: [P51511](#)

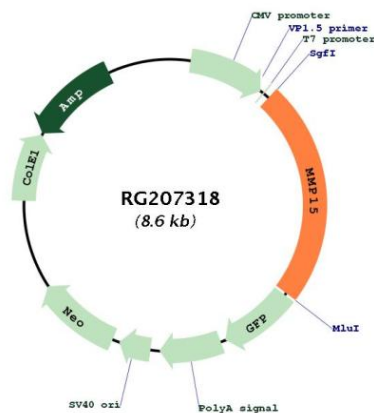
Cytogenetics: 16q21

Domains: hemopexin, Peptidase_M10, ZnMc

Protein Families: Druggable Genome, Protease, Transmembrane

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 may play a role in cancer progression. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG207318