

Product datasheet for **RG200453**

MMP10 (NM_002425) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP10 (NM_002425) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MMP10
Synonyms:	SL-2; STMY2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200453 representing NM_002425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCATCTTGCATTCCTTGTGCTGTTGTGTCTGCCAGTCTGCTCTGCCTATCCTCTGAGTGGGGCAG
 CAAAAGAGGAGGACTCCAACAAGGATCTTGCCAGCAATACCTAGAAAAGTACTACAACCTCGAAAAGGA
 TGTGAAACAGTTTAGAAGAAAGGACAGTAATCTCATTGTTAAAAAATCCAAGGAATGCAGAAGTTCCTT
 GGGTTGGAGGTGACAGGGAAAGCTAGACACTGACACTCTGGAGGTGATGCGCAAGCCAGGTGTGGAGTTC
 CTGACGTTGGTCACTTCAGCTCCTTTCTGGCATGCCAAGTGGAGGAAAACCCACCTTACATACAGGAT
 TGTGAATTATACACCAGATTTGCCAAGAGATGCTGTTGATTCTGCCATTGAGAAAGCTCTGAAAGTCTGG
 GAAGAGGTGACTCCACTCACATTCTCCAGGCTGTATGAAGGAGAGGCTGATATAATGATCTCTTTTGCAG
 TTAAGAACAATGGAGACTTTTACTCTTTTGTATGGCCAGGACACAGTTTGGCTCATGCCATCCACCTGG
 ACCTGGGCTTTATGGAGATATTCATTTGATGATGATGAAAAATGGACAGAAGATGCATCAGGCACCAAT
 TTATTCCTCGTTGCTGCTCATGAACTTGGCCACTCCCTGGGGCTCTTCACTCAGCCAACACTGAAGCTT
 TGATGTACCCACTCTACAACATTACAGAGCTCGCCAGTTCGCCTTTCGCAAGATGATGTGAATGG
 CATTCACTCTCTACGGACCTCCCCTGCCTCTACTGAGGAACCCCTGGTGGCCACAAAATCTGTTCTCT
 TCGGGATCTGAGATGCCAGCCAAGTGTGATCCTGCTTTGTCTTCGATGCCATCAGCACTCTGAGGGGAG
 AATATCTGTTCTTTAAAGACAGATATTTTGGCGAAGTCCCCTGGAACCTGAACCTGAATTTTCATTT
 GATTTCTGCATTTTGGCCCTCTCTCCATCATATTTGGATGCTGCATATGAAGTTAACAGCAGGGACACC
 GTTTTTATTTTAAAGGAAATGAGTTCTGGCCATCAGAGGAAATGAGGTACAAGCAGGTTATCCAAGAG
 GCATCCATACCTGGGTTTTCTCCAACATAAGGAAAATGATGCAGCTGTTTCTGACAAGGAAAAGAA
 GAAAACATACTTCTTTGCAGCGGACAAATACTGGAGATTTGATGAAAATAGCCAGTCCATGGAGCAAGGC
 TTCCCTAGACTAATAGCTGATGACTTCCAGGAGTTGAGCCTAAGGTTGATGCTGTATTACAGGCATTTG
 GATTTTTCTACTTCTTCAGTGGATCATCACAGTTTGGATTTGACCCCAATGCCAGGATGGTGACACACAT
 ATTAAGAGTAACAGCTGGTTACATTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200453 representing NM_002425
 Red=Cloning site Green=Tags(s)

MMHLAFLVLLCLPVC SAYPLSGAAKEEDSNKDLAQQYLEKYNNLEKDVKQFRRKDSNLIVKKIQGMQKFL
 GLEVTGKLDLDTLEVMRKPRCGVPDVGHFSSFPGMPKWRKTHLTYRIVNYTPDLPRDAVDSAIEKALKVW
 EEVTPLTF SRLYEGEADIMISFAVKEHGDFYSFDGPGHSLAHAYPPGPLYGDIHFDDDEKWTEDASGTN
 LFLVAHELGHSLGLFHSANTEALMYPLYNSFTELAQFRLSQDDVNGIQSLYGPMPASTEELVPTKSVP
 SGSEMPAKCDPALSFDAISTLRGEYLFFKDRYFWRSSHWNPEPEFHLISAFWPSLPSYLDAAAYEVNSRDT
 VFIFKGNFWAIRGNEVQAGYPRGIHTLGFPTIRKIDAAVSDKEKKKTYFFAADKYWRFDENSSQSMSEQG
 FPRLIADDFPGVEPKVDVAVLQAFGFFYFFSGSSQFEFDPNARMVTHILKSNSWLHC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002425

ORF Size: 1428 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_002425.3](#)

RefSeq Size: 1743 bp

RefSeq ORF: 1431 bp

Locus ID: 4319

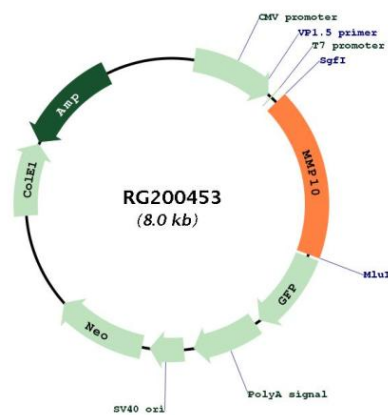
UniProt ID: [P09238](#)

Cytogenetics: 11q22.2

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes a member of the peptidase M10 family 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down fibronectin, laminin, elastin, proteoglycan core protein, gelatins, and several types of collagen. The gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG200453