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Product datasheet for RG210235

MMP3 (NM_002422) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP3 (NM_002422) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MMP3
Synonyms:	CHDS6; MMP-3; SL-1; STMY; STMY1; STR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG210235 representing NM_002422
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAGTCTTCCAATCCTACTGTTGCTGTGCGTGGCAGTTTGCTCAGCCTATCCATTGGATGGAGCTG
CAAGGGGTGAGGACACCAGCATGAACCTTGTTCAGAAATATCTAGAAAACTACTACGACCTCAAAAAAGA
TGTGAAACAGTTTGTTAGGAGAAAGGACAGTGGTCCTGTTGTTAAAAAAATCCGAGAAATGCAGAAGTTC
CTTGGATTGGAGGTGACGGGGAAGCTGGACTCCGACACTCTGGAGGTGATGCGCAAGCCCAGGTGTGGAG
TTCCTGATGTTGGTCACTTCAGAACCTTTCCTGGCATCCCGAAGTGGAGGAAAACCCACCTTACATACAG
GATTGTGAATTATACACCAGATTTGCCAAAAGATGCTGTTGATTCTGCTGTTGAGAAAGCTCTGAAAGTC
TGGGAAGAGGTGACTCCACTCACATTCTCCAGGCTGTATGAAGGAGAGGCTGATATAATGATCTCTTTTG
CAGTTAGAGAACATGGAGACTTTTACCCTTTTGATGGACCTGGAAATGTTTTGGCCCATGCCTATGCCCC
TGGGCCAGGGATTAATGGAGATGCCCACTTTGATGATGATGAACAATGGACAAAGGATACAACAGGGACC
AATTTATTTCTCGTTGCTGCTCATGAAATTGGCCACTCCCTGGGTCTCTTTCACTCAGCCAACACTGAAG
CTTTGATGTACCCACTCTATCACTCACTCACAGACCTGACTCGGTTCCGCCTGTCTCAAGATGATATAAA
TGGCATTCAGTCCCTCTATGGACCTCCCCCTGACTCCCCTGAGACCCCCCTGGTACCCACGGAACCTGTC
CCTCCAGAACCTGGGACGCCAGCCAACTGTGATCCTGCTTTGTCCTTTGATGCTGTCAGCACTCTGAGGG
GAGAAATCCTGATCTTTAAAGACAGGCACTTTTGGCGCAAATCCCTCAGGAAGCTTGAACCTGAATTGCA
TTTGATCTCTTCATTTTGGCCATCTCTTCCTTCAGGCGTGGATGCCGCATATGAAGTTACTAGCAAGGAC
CTCGTTTTCATTTTTAAAGGAAATCAATTCTGGGCTATCAGAGGAAATGAGGTACGAGCTGGATACCCAA
GAGGCATCCACACCCTAGGTTTCCCTCCAACCGTGAGGAAAATCGATGCAGCCATTTCTGATAAGGAAAA
GAACAAAACATATTTCTTTGTAGAGGACAAATACTGGAGATTTGATGAGAAGAGAAATTCCATGGAGCCA
GGCTTTCCCAAGCAAATAGCTGAAGACTTTCCAGGGATTGACTCAAAGATTGATGCTGTTTTTGAAGAAT
TTGGGTTCTTTTATTTCTTTACTGGATCTTCACAGTTGGAGTTTGACCCAAATGCAAAGAAAGTGACACA
CACTTTGAAGAGTAACAGCTGGCTTAATTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

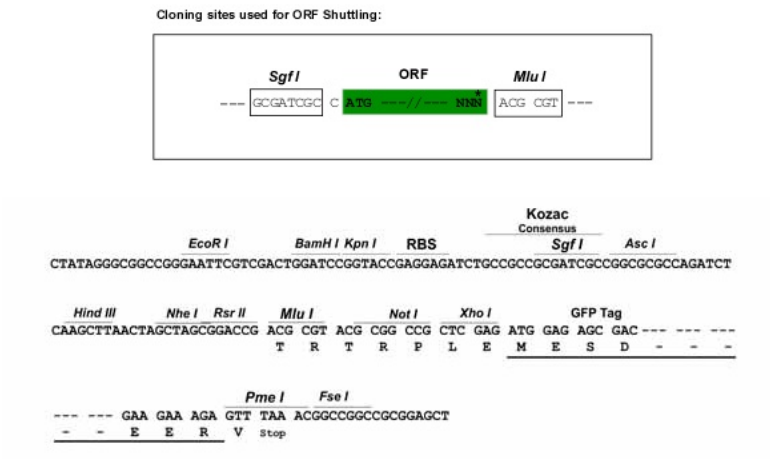
>RG210235 representing NM_002422
Red=Cloning site Green=Tags(s)

MKSLPILLLLCVAVCSAYPLDGAARGEDTSMNLVQKYLENYYDLKKDVKQFVRRKDSGPVVKKIREMQKF
LGLEVTGKLDSDTLEVMRKPRCGVPDVGHFRTFPGIPKWRKTHLTYRIVNYTPDLPKDAVDSAVEKALKV
WEEVTPLTFSRLYEGEADIMISFAVREHGDFYPFDGPGNVLAHAYAPGPGINGDAHFDDDEQWTKDTTGT
NLFLVAAHEIGHSLGLFHSANTEALMYPLYHSLTDLTRFRLSQDDINGIQSLYGPPPDSPETPLVPTEPV
PPEPGTPANCDPALSFDAVSTLRGEILIFKDRHFWRKSLRKLEPELHLISSFWPSLPSGVDAAYEVTSKD
LVFIFKGNQFWAIRGNEVRAGYPRGIHTLGFPPTVRKIDAAISDKEKNKTYFFVEDKYWRFDEKRNSMEP
GFPKQIAEDFPGIDSKIDAVFEEFGFFYFFTGSSQLEFDPNAKKVTHTLKSNSWLNC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



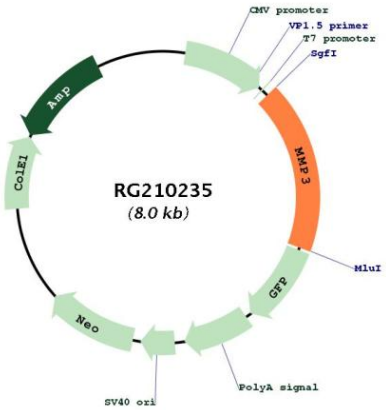
ACCN:	NM_002422
ORF Size:	1431 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_002422.5
RefSeq Size:	1828 bp
RefSeq ORF:	1434 bp
Locus ID:	4314
UniProt ID:	P08254

Cytogenetics: 11q22.2

Protein Families: Druggable Genome, Protease

Gene Summary: Proteins of the matrix metalloproteinase (MMP) 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. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210235