

Product datasheet for **MG223293**

Mmp23 (NM_011985) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp23 (NM_011985) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmp23
Synonyms:	CA-M; CA-MMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223293 representing NM_011985 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTGCCGGCCTGTCTCCGTCCGGAGGCGTCCGGCGCGGTACAGGGCCGCTGGTTGGGGGCTGCC
TGAGCGGGTTGTGCCTTCTCCGCGTTGGCGTTGCTGGAGTGGTAGGGGCGCCGACCGAGACCGCCTG
GAGGGCAGCTCAGGAAATGTAGATGCGCCAAATGTGGGCAGCTCCACTGCCAGGTACCCAGACTGTTG
ACCATGTCGGTAACCCGAAGACCGCGTACACGCTGACACCGCCAGGCTGCGCTGGGACCCTTCAACC
TCACATACAGAGTTCTTCCCTTCCCGGAATCTTTAAGCCCGAAGAGACGCGAAGGGGCTGGCTGC
TGCTTTTCGAATGTGGAGTGATGTTCCCATTCAGTTTCCGTGAGGTGGCCCTGAACGTCACAGTGAC
CTCAAGATAGGTTTCTACCCAGTCAACCACCCGACTGCTTGGTCTCTGCAGTGACCACTGCTTTGATG
GTCCACAGGTGAACTGGCCACGCTTCTTCCACCCACGGTGGCATTCACTTTGATGACAGCGAGTA
CTGGGTCTTGGGCCCCACACGCTACAGTTGGAAGAAAGGTGTTGGCTCACAACCTGGTGCACGTGGCA
GCCATGAGATTGGCCATGCACTGGCCTGATGCACTCACAGCAAGATCAGGCGCTCATGCACCTCAATG
CCATTTGCGAGGCTGGAAGGCACTGTCCAGGATGAAGTGTGGGGTTACACCGACTCTATGGCTGCCT
GGACCGGATTTTGTGTGTGCATCTGGGCACGAAAGGATTTTGTGATGTCGCCAGAGGCTCATGAAG
AGGCTCTGCCCCAGAAGCTGTGATTTCTGTTATGAATTCATTTCCACGGTGGCCACCCACCATC
CCACCAGAACGAAAACAAGGTTGGTGAGAGAGGGTAGGAACATGACCTTCCACTGTGGACAGAAGATCCT
ACACAAGAAAGGAAAGTATACTGGTACAAGGACCAGGAACCCCTGGAGTTCTCCTACCCTGGCTATCTG
GCCCTGGGTGAGGCACAGCTGAGCATATTGCCAACGAGTCAACGAAGGCACCTACACATGTGTGGTAC
GCCGGCACCGGTGTTCTCAGCACCTACTCTGGAGGTCGAGTGAGGAAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223293 representing NM_011985
 Red=Cloning site Green=Tags(s)

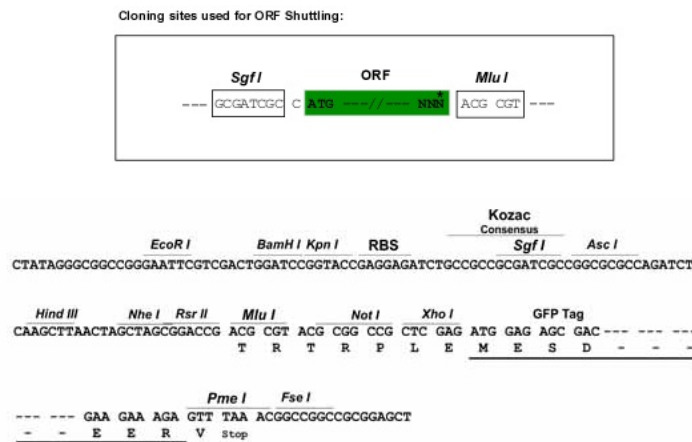
MGCRACLRPEASGAVQGRWLGAALSGLCLLSALALLEWLGAPTETAWRAAQGNVDAPNVGSSTAQVPRLL
 TMSVTRRRRYTLTPARLRWDHFNLTYRVLSPFRNLLSPEETRRGLAAAFRMWSDVSPFSFREVPAPERPSD
 LKIGFYYPVNHDTCLVSAVHHCFDGPTELGAHAFFPPHGGIHFDDSEYVWLGPTRYSWKKGVWLTNLVHVA
 AHEIGHALGLMHSQQDQALMHLNATLRGWKALSQDELWGLHRLYGCLDRIFVCASWARKGFCDVQRMLMK
 RLCPRSCDFCYEFPFPTVATTTSPTRTKTRLVREGRNMTFHCGQKILHKKGKVVYWKDQEPLEFSYPGYL
 ALGEAQLSIIANAVNEGTYTCVVRRHQRVLTSTYSWRVRVRN

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2519_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011985

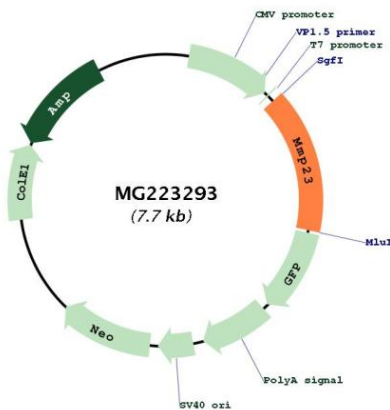
ORF Size: 1173 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_011985.3](#), [NP_036115.1](#)
- RefSeq Size:** 1434 bp
- RefSeq ORF:** 1176 bp
- Locus ID:** 26561
- UniProt ID:** [O88676](#)
- Cytogenetics:** 4 E2
- Gene Summary:** 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 protein contains an N-terminal cysteine array and a novel immunoglobulin-fold domain at the C-terminus. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing. [provided by RefSeq, Feb 2016]

Product images:



Circular map for MG223293