

Product datasheet for **RC206512**

MMP23 (MMP23B) (NM_006983) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP23 (MMP23B) (NM_006983) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MMP23
Synonyms:	MIFR; MIFR-1; MMP22; MMP23A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206512 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGGCGCGGGGCCGTGTCCCTCGGAGGCCCGGGGCGAGCGTCGAGCGCCGCTGGCTTGGAGCCG
CGCTGGTCGCCCTGTGCCTCCTCCCGCGCTGGTGTCTGGCCCGCTGGGGGCCCGCGGTGCCGGC
CTGGAGCGCAGCGCAGGAGACGTGCTGCGCTGGGCTCTCGGCGGTCCCCCACCAGGGTCCCGGC
CCACTGGCCCCCGCAGACGCCGCTACACGCTGACTCCAGCCAGGCTGCGCTGGGACCACTCAACCTCA
CCTACAGGATCCTCTCCTTCCCGCGAACCTGCTGAGCCCGCGGAGACGCGCGGGCCCTAGCTGCCGC
CTTCCGCATGTGGAGCGACGTGTCCCCCTTCAGCTTCCGCGAGGTGGCCCCGAGCAGCCAGCGACCTC
CGGATAGGCTTCTACCCGATCAACCACACGGACTGCCTGGTCTCCGCGCTGCACCACTGCTTCGACGGCC
CCACGGGGGAGCTGGCCACGCCTTCTTCCCCCGCACGGCGGCATCCACTTCGACGACAGCGAGTACTG
GGTCTGGGCCCCACGCGCTACAGCTGGAAGAAAGGCGTGTGGCTCACGGACCTGGTGCACGTGGCGGCC
CACGAGATCGGCCACGCGCTGGGCTGATGCACTACAACACGGCCGGGCGCTCATGCACCTGAACGCCA
CGCTGCGCGGCTGGAAGGCGTTGTCCAGGACGAGCTGTGGGGGTGCACCGGCTCTACGGATGCCTCGA
CAGGCTGTTCTGTGCGCGTCTGGGCGCGGAGGGCTTCTGCGACGCTCGCGGCGGCTCATGAAGAGG
CTCTGCCCCAGCAGCTGCGACTTCTGTACGAATTCCTTCCCCACGGTGGCCACCACCCACCGCCCC
CCAGGACCAAAACCAGGCTGGTGGCCGAGGCGAGGAACGTGACCTTCCGCTGCGGCCAGAAGATCTCCA
CAAGAAAGGGAAAGTGTACTGGTACAAGGACCAGGAGCCCTGGAGTTCTCTACCCCGGTACCTGGCC
CTGGGCGAGGCGACCTGAGCATCATCGCAACGCCGTCAATGAGGGACCTACACCTGCGTGGTGCGCC
GCCAGCAGCGGTGCTGACCACCTACTCTGGCGAGTCCGTGTGCGGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206512 protein sequence
 Red=Cloning site Green=Tags(s)

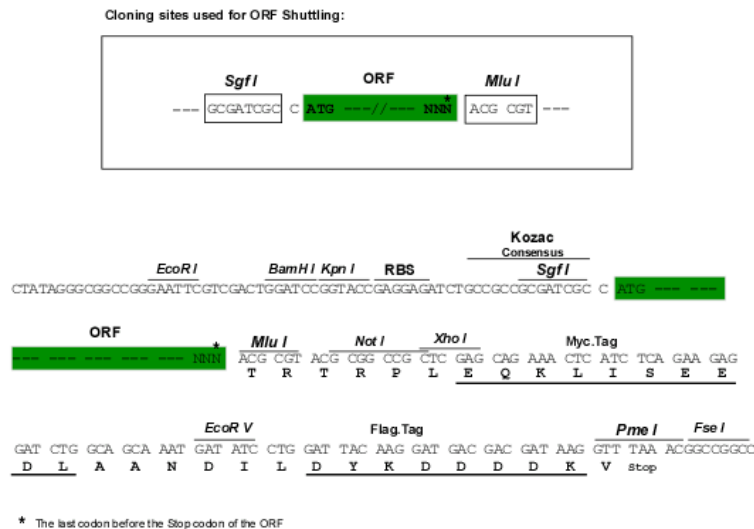
MGRGARVPSEAPGAGVERRWLGAALVALCLLPALVLLARLGAPAVPAWSAAQGDVAALGLSAVPPTRVPG
 PLAPRRRRYTLTPARLRWDHFNLTyrILSFPRNLLSPRETRRALAAAFRMWSDVSPFSFREVAPEQPSDL
 RIGFYPIINHTDCLVSALHHCDFGPTGELAHAFPPHGGIHFDDSEYWVLGPTRYSWKKGVWLTDLVHVAA
 HEIGHALGLMHSQHGRLMHLNATLRGWKALSQDELWGLHRLYGCLDRLFVCASWARRGFCDARRRLMKR
 LCPSSCDFCYEFPFPTVATTPPPRPTKRLVPEGRNVTFRCGQKILHKKGVVYWKDQEPLFSSYPGYLA
 LGEAHLIIANAVNEGTYTCVVRQQRVLTTYSWRVVRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6226_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006983

ORF Size: 1170 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_006983.2](#)

RefSeq Size: 1246 bp

RefSeq ORF: 1173 bp

Locus ID: 8510

UniProt ID: [O75900](#)

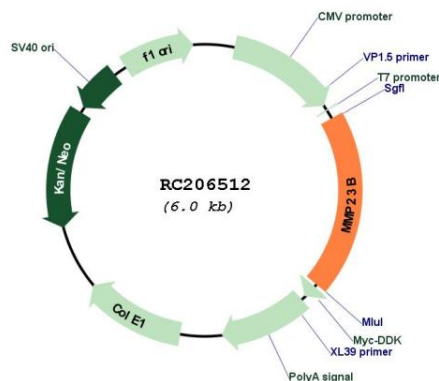
Cytogenetics: 1p36.33

Protein Families: Druggable Genome, Protease, Secreted Protein, Transmembrane

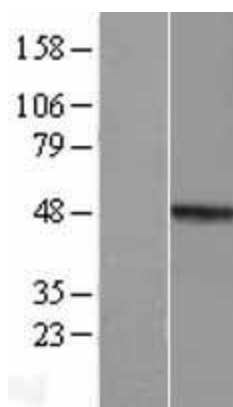
MW: 43.9 kDa

Gene Summary: This gene (MMP23B) encodes a member of the matrix metalloproteinase (MMP) family, and it is part of a duplicated region of chromosome 1p36.3. 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. This gene belongs to the more telomeric copy of the duplicated region. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC206512



Western blot validation of overexpression lysate (Cat# [LY416282]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206512 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).