

Product datasheet for RC210935

MMP26 (NM_021801) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMP26 (NM_021801) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MMP26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210935 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTCGTCATCTTAAGAGTTACTATCTTCTTGCCCTGGTGTTCGCCGTTCCAGTGCCCCCTGCTG
CAGACCATAAAGGATGGGACTTTGTTGAGGGCTATTTCCATCAATTTTCCTGACCAAGAAGGAGTCGCC
ACTCCTTACCCAGGAGACACAAACACAGCTCCTGCAACAATTCATCGGAATGGGACAGACCTACTTGAC
ATGCAGATGCATGCTCTGCTACACCAGCCCCACTGTGGGGTGCCTGATGGGTCGGACACCTCCATCTCGC
CAGGAAGATGCAAGTGAATAAGCACACTCTAACTTACAGGATTATCAATTACCCACATGATATGAAGCC
ATCCGCAGTGAAAGACAGTATATATAATGCAGTTTCCATCTGGAGCAATGTGACCCCTTTGATATCCAG
CAAGTGCAGAATGGAGATGCAGACATCAAGTTTCTTTCTGGCAGTGGGCCCATGAAGATGGTTGGCCCT
TTGATGGGCCAGGTGGTATCTTAGGCCATGCCTTTTTACCAAATCTGGAAATCCTGGAGTTGTCCATTT
TGACAAGAATGAACACTGGTCAGCTTCAGACACTGGATAAATCTGTTCTGTTGCAACTCATGAGATT
GGGCATTCTTTGGCCTGCAGCACTCTGGGAATCAGAGCTCCATAATGTACCCCACTTACTGGTATCACG
ACCCTAGAACCTTCCAGCTCAGTCCGATGATATCCAAAGGATCCAGCATTTGTATGGAGAAAAATGTTCC
ATCTGACATACCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210935 protein sequence
 Red=Cloning site Green=Tags(s)

MQLVILRVTIFLPWCFAVPVPPAADHKGWDFVEGYFHQFFLTKKESPLL TQETQTQLLQQFHRNGTDLLD
 MQMHALLHQPHCGVPDGS DTSISPGRCKWNKHTLYRIINYPHDMKPSAVKDSIYNAVSIWSNVTPLIFQ
 QVQNGDADIKVSFWQWAHEDGWPF DGGP GILGHAF L P NSGNPGVVHF D KNEHWSASDTGYNLFLVATHEI
 GHSLGLQHSGNQSSIMYPTYWYHDPRTFQLSADDIQR IQHLYGEKCSSDIP

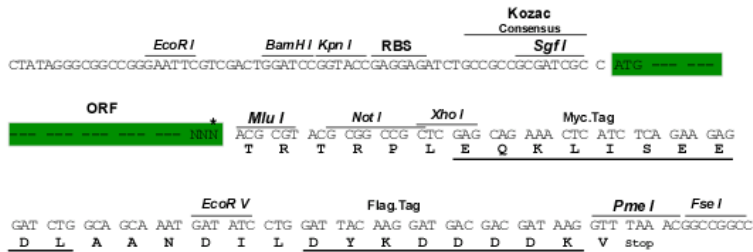
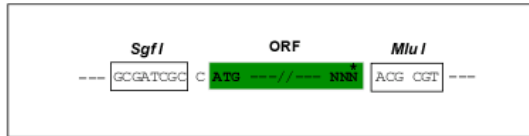
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6371_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_021801

ORF Size: 783 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_021801.5](#)

RefSeq Size: 998 bp

RefSeq ORF: 786 bp

Locus ID: 56547

UniProt ID: [Q9NRE1](#)

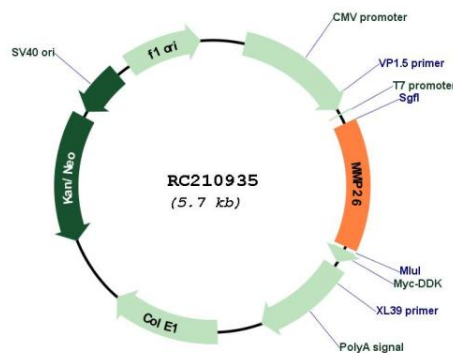
Cytogenetics: 11p15.4

Protein Families: Druggable Genome, Secreted Protein

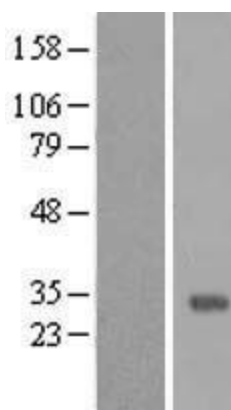
MW: 29.7 kDa

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. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme may degrade collagen type IV, fibronectin, fibrinogen, and beta-casein, and activate matrix metalloproteinase-9 by cleavage. The protein differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The encoded protein may promote cell invasion in multiple human cancers. [provided by RefSeq, May 2016]

Product images:



Circular map for RC210935



Western blot validation of overexpression lysate (Cat# [LY411921]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210935 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).