

Product datasheet for **RC222066**

Matrilin 4 (MATN4) (NM_030590) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matrilin 4 (MATN4) (NM_030590) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Matrilin 4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC222066 representing NM_030590
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGGCCTTCTTTGCTGGCCGTGTTGCTGCTCCTTCTCAGCCCTGGGAAACCCAGCTCCAGTTGA
 CAGGTCCCAGGTGCACACTGGGCCCTGGATCTGGTGTTCGTGATTGACAGCTCCCGCAGCGTGGCC
 TTTCGAGTTTCGAGACCATGCGGCAGTTCCTCATGGGCCTCCTCCGAGGCCTGAACGTGGTCCCAACGCC
 ACGCGCGTTGGCGTGATCCAGTATTCGAGTCAAGTGCAGAGCGTCTTCCCTCTCCGCGGTTCTCTCGCC
 GCGAGGACATGGAGCGGCCATCCGCGACCTGGTGCCTCTGGCGCAAGGCACCATGACGGGACTGGCAAT
 CCAGTACGCCATGAACGTGGCCTTCAGTGTGGCCGAGGGCGCGCACCCGAGAGGAGCGCGTGGCCGCT
 GTCGCTGCATCGTGACAGACGGGCGGCCAGGACCGCGTGGCCGAGGTGGCGGCACAGGCGCGGCC
 GCGGCATTGAAATTTACGCGGTGGGGTGCAGCGCGGACGTGGGCTCCCTGCGGCCATGGCATCGCC
 CCCGCTAGACGAGCAGTCTTCTCGTAGAGTCTTCGACCTCATCCAGGAGTTCGGCCTGCAGTCCAG
 AGCCGGCTGTGTGCCATTGACTACTGCAGCTTTGGGAACCATAGCTGTACAGCATGAGTGTGTAGCACCC
 CTGGTGGGCCACGGTGCCACTGCAGAGAGGGCCATGACTTGCAGCCTGATGGGAGGAGCTGTACAGTCCG
 GGACCTTTGCAATGGCGTGGACCATGGCTGTGAGTTCAGTGTGTGAGCGAGGGCCTCTCTACCGCTGC
 CTGTGCCCCGAGGGGCGGCAACTTCAGGCAGATGGCAAGAGCTGCAACCGGTGCCGGGAAGGCCACGTGG
 ACCTTGTCTGCTGGTTGATGGCTCCAAGAGCGTGCCTCCACAAAACCTTCGAGCTAGTGAAGCGCTTCGT
 GAACCAGATTGTGACTTCTAGATGTGTCCCGAGGGCACGCGGTGGGGTGGTGCAGTTCTCGAGC
 CGCGTGCACCGAGTTCCTCTGGTCTGCTACGGCACCGCAGCGAGGTGAAGCAGGCGGTCTGGCCG
 TGGAGTACATGGAACGCGGCACCATGACAGGGCTGGCGTTGCGGCACATGGTGGAGCACAGCTTCTCCGA
 GGCGCAGGGTGCACGGCCCGTGCCTTAACGTGCCTCGTGTGGCCTGGTCTTACGGATGGCCCGCTCC
 CAGGATGACATCTCGGTGTGGGAGCGCGCCAAAGGAGGAAGGCATCGTCATGTACGCCGTGGCGTGG
 GCAAGGCGGTGGAGGCGGAGCTGCGCGAGATCGCCTCGGAGCCAGCGGAACTGCACGTGTCTATGCCCC
 GGACTTCGGCACCATGACGCACCTGCTGGAGAACCCTCAGAGGCAGCATCTGTCCAGAGGAGGGCATCAGC
 GCAGGGACAGAGCTTCGGAGCCCATGCGAATGCGAAAGCCTCGTGGAGTTCAGGGCCGACGCTGGGGG
 CGCTCGAGAGCCTGACGCTGAACCTGGCCAGCTGACGGCGCCTGGAGGATCTGGAGAACCAGCTGGC
 CAACCAAG

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222066 representing NM_030590
 Red=Cloning site Green=Tags(s)

MRGLLCWPVLLLLLQPWETQLQLTGPRCHTGPLDLVFDSSRSVRPFEFETMRQFLMGLLRGLNVGPNA
 TRVGVIIQYSSQVQSVFPLRAFSSREDMERAIRDLVPLAQGTMTGLAIQYAMNVAFSVAEGARPPEERVPR
 VAVIVTDGRPQDRVAEVAQAARARGIEIYAVGVQRADVGLRAMASPPLDEHVFLVESFDLIQEFGLQFQ
 SRLCAIDYCSFGNHSCQHECVSTPGGPRCHCREGHDLPDGRSCQVRDLNCGVDHGCEFQCVSEGLSYRC
 LCPEGRQLQADGKSCNRCREGHVDLVLLVDGSKSVRPQNFELVKRFVNQIVDFLDVSPGTRVGLVQFSS
 RVRTEFPLGRYGTAAEVKQAVLAVEYMERGTMTGLALRHMVEHSFSEAQGARPRALNVPRVGLVFTDGRS
 QDDISVWAARAKEEGIVMYAVGVGKAVEAELREIASEPAELHVSYPDFGTMTHLLENLRGSIPEEGIS
 AGTELRSPCEESLVEFQGRTLGALESLLNLAQLTARLEDLENQLANQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8066_c09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_030590

ORF Size: 1620 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_030590.4](#)

RefSeq Size: 1969 bp

RefSeq ORF: 1623 bp

Locus ID: 8785

UniProt ID: [O95460](#)

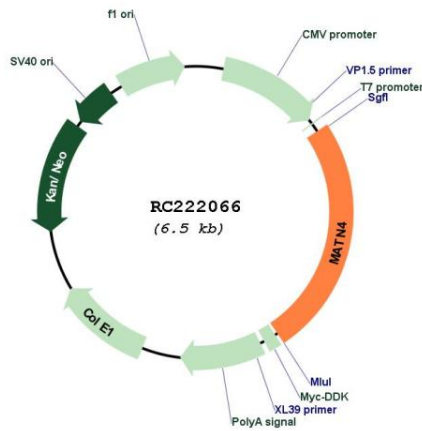
Cytogenetics: 20q13.12

Protein Families: Secreted Protein

MW: 57.3 kDa

Gene Summary: This gene encodes a member of von Willebrand factor A domain-containing protein family. The proteins of this family are thought to be involved in the formation of filamentous networks in the extracellular matrices of various tissues. This family member is thought to play a role in reorganizing and regenerating the corneal matrix in granular and lattice type I dystrophies. It may also be involved in wound healing in the dentin-pulp complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

Product images:



Circular map for RC222066