

## Product datasheet for **RC218289**

### Matrilin 4 (MATN4) (NM\_030592) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Matrilin 4 (MATN4) (NM_030592) 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:**

>RC218289 representing NM\_030592  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAGGCCCTTCTTTGCTGGCCGTGTTGCTGCTCCTTCTCAGCCCTGGGAAACCCAGCTCCAGTTGA  
 CAGGTCCCAGGTGCACACTGGGCCCTGGATCTGGTGTTCGTGATTGACAGCTCCCGCAGCGTGCGCC  
 TTTCGAGTTTCGAGACCATGCGGCAGTTCCTCATGGGCCTCCTCCGAGGCCTGAACGTGGTCCCAACGCC  
 ACGCGCGTTGGCGTGATCCAGTATTCGAGTCAAGTGCAGAGCGTCTTCCCTCTCCGCGGTTCTCTCGCC  
 GCGAGGACATGGAGCGGCCATCCGCGACCTGGTGCCTCTGGCGCAAGGCACCATGACGGGACTGGCAAT  
 CCAGTACGCCATGAACGTGGCCTTCAGTGTGGCCGAGGGCGCGCACCCGAGAGGAGCGCGTCCCGGT  
 GTCGCTGCATCGTGACAGACGGGCGGCCAGGACCGGTGGCCGAGGTGGCGGCACAGGCGCGGCC  
 GCGGCATTGAAATTTACGCGGTGGGGTGCAGCGCGCGGACGTGGGCTCCCTGCGCGCCATGGCATCGCC  
 CCCGCTAGACGAGCAGTCTTCCCTCGTAGAGTCTTCGACCTCATCCAGGAGTTCGCGCTGCAGTCCAG  
 AGCCGGCTGTGTGTCGGGACCTTTGCAATGGCGTGGACCATGGCTGTGAGTTCCAGTGTGTGAGCGAGG  
 GCCTCTCCTACCGCTGCCTGTGCCCCGAGGGGCGGCAACTTCAGGCAGATGGCAAGAGCTGCAACCGGTG  
 CCGGGAAGGCCACGTGGACCTTGTCTGCTGGTTGATGGCTCCAAGAGCGTGCCTCCACAAAACCTCGAG  
 CTAGTGAAGCGCTTCGTGAACCAGATTGTGGACTTCTAGATGTGTCCCCGAGGGCACGCGGGTGGGGC  
 TGGTGCAGTTCTCGAGCCGCGTGCACCCGAGTTCCTCTGGGTGCTACGGCACCGCAGCCGAGGTGAA  
 GCAGGCGGTCTGGCCGTGGAGTACATGGAACGCGGCACCATGACAGGGCTGGCGTTGCGGCACATGGTG  
 GAGCACAGTTCCTCCGAGGCGCAGGGTGCACGGCCCCGTGCCCTTAACGTGCCTCGTGTGGCCTGGTCT  
 TCACGGATGGCCCTCCAGGATGACATCTCGGTGTGGCAGCGCGCCAAAGGAGGAGGCATGTCAT  
 GTACGCCGTGGCGTGGGCAAGGCGGTGGAGCGGAGCTGCGCGAGATCGCCTCGGAGCCAGCGGAACTG  
 CACGTGTCTATGCCCGGACTTCGACACCATGACGCACCTGCTGGAGAACCTCAGAGGCAGCATCTGTC  
 CAGAGGAGGGCATCAGCGCAGGGACAGAGCTTCGGAGCCCATGCGAATGCGAAAGCCTCGTGGAGTTCCA  
 GGGCCGACGCTGGGGCGCTCGAGAGCCTGACGCTGAACCTGGCCAGCTGACGGCGCGCTGGAGGAT  
 CTGGAGAACCAGCTGGCCAACAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC218289 representing NM\_030592  
 Red=Cloning site Green=Tags(s)

MRGLLCWPVLLLLLQPWETQLQLTGPRCHTGPLDLVFVIDSSRSVRPFEFETMRQFLMGLLRGLNVGPNA  
 TRVGVIQYSSQVQSVFPLRAFSRREDMERAIRDLVPLAQGTMTGLAIQYAMNVAFSVAEGARPPPEERVPR  
 VAVIVTDGRPQDRVAEVAQAARARGIEIYAVGVQRADVGSRLRAMASPLDEHVFLVESFDLIQEFGLQFQ  
 SRLCVRDL CNGVDHGCEFCVSEGLSYRCLCPEGRQLQADGKSCNRCREGHVDL VLLVDGSKSVRPQNF  
 LVKRFVNQIVDFLDVSPGTRVGLVQFSSRVRFPLGRYGTAAEVKQAVLAVEYMERGMTGLALRHMV  
 EHSFSEAQGAPRALNVPRVGLVFTDGRSQDDISVWAARAKEEGIVMYAVGVGKAVEAELREIASEPAEL  
 HVSYPDFGTMHLLLENLRGSICPEEGISAGTELRSPECESLVEFQGRTLGALESLTLNLAQLTARLED  
 LENQLANQK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8063\\_f03.zip](https://cdn.origene.com/chromatograms/mk8063_f03.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_030592

**ORF Size:** 1497 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\\_030592.3](#)
**RefSeq Size:** 1846 bp

**RefSeq ORF:** 1500 bp

**Locus ID:** 8785

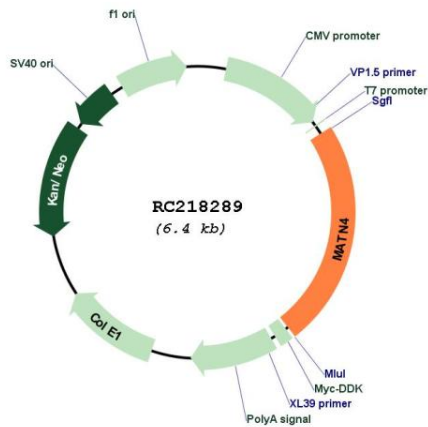
**UniProt ID:** [O95460](#)
**Cytogenetics:** 20q13.12

**Protein Families:** Secreted Protein

**MW:** 52.8 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 be 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 RC218289