

Product datasheet for **RG222066**

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:	TurboGFP
Symbol:	Matrilin 4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222066 representing NM_030590
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGAGGCCCTTCTTTGCTGGCCGTGTTGCTGCTCCTTCTCAGCCCTGGGAAACCCAGCTCCAGTTGA
 CAGGTCCCAGGTGCACACTGGGCCCTGGATCTGGTGTTCGTGATTGACAGCTCCCGCAGCGTGGCCCC
 TTTCGAGTTCCAGACCATGCGGCAGTTCCTCATGGGCCTCCTCCGAGGCCTGAACGTGGGTCCCAACGCC
 ACGCGCGTTGGCGTGATCCAGTATTCGAGTCAAGTGCAGAGCGTCTTCCCTCTCCGCGGTTCTCTCGCC
 GCGAGGACATGGAGCGGCCATCCGCGACTGGTGCCTCTGGCGCAAGGCACCATGACGGGACTGGCAAT
 CCAGTACGCCATGAACGTGGCCTTCAGTGTGGCCGAGGGCGCGCACCCGAGAGGAGCGCGTGGCCGCT
 GTCGCTGCATCGTGACAGACGGGCGGCCAGGACCGCGTGGCCGAGGTGGCGGCACAGGCGCGGCC
 GCGGCATTGAAATTTACGCGGTGGGGTGCAGCGCGCGGACGTGGGCTCCCTGCGCGCCATGGCATCGCC
 CCCGCTAGACGAGCAGTCTTCTCGTAGAGTCTTCGACCTCATCCAGGAGTTCGCGCTGCAGTCCAG
 AGCCGGCTGTGTGCCATTGACTACTGCAGCTTTGGGAACCATAGCTGTACAGCATGAGTGTGTAGCACCC
 CTGGTGGGCCACGGTGCCACTGCAGAGAGGGCCATGACTTGCAGCCTGATGGGAGGAGCTGTACAGTCCG
 GGACCTTTGCAATGGCGTGGACCATGGCTGTGAGTTCAGTGTGTGAGCGAGGGCCTCTCTACCGCTGC
 CTGTGCCCCGAGGGGCGGCAACTTCAGGCAGATGGCAAGAGCTGCAACCGGTGCCGGGAAGGCCACGTGG
 ACCTTGTCTGCTGGTTGATGGCTCCAAGAGCGTGCCTCCACAAAACCTTCGAGCTAGTGAAGCGCTTCGT
 GAACCAGATTGTGACTTCTAGATGTGTCCCGAGGGCACGCGGTGGGGTGGTGCAGTTCTCGAGC
 CGCGTGCACCGAGTTCCTCTGGTCTGCTACGGCACCGCAGCGAGGTGAAGCAGGCGGTCTTGCCG
 TGGAGTACATGGAACGCGGCACCATGACAGGGCTGGCGTTGCGGCACATGGTGGAGCACAGCTTCTCCGA
 GGCGCAGGGTGCACGGCCCGTGCCTTAACGTGCCTCGTGTGGCCTGGTCTTACGGATGGCCGCTCC
 CAGGATGACATCTCGGTGTGGGAGCGCGCCAAAGGAGGAAGGCATCGTCATGTACGCCGTGGCGTGG
 GCAAGGCGGTGGAGGCGGAGCTGCGCGAGATCGCCTCGGAGCCAGCGGAACTGCACGTGTCTATGCCCC
 GGACTTCGGCACCATGACGCACCTGCTGGAGAACCCTCAGAGGCAGCATCTGTCCAGAGGAGGGCATCAGC
 GCAGGGACAGAGCTTCGGAGCCCATGCGAATGCGAAAGCCTCGTGGAGTTCAGGGCCGACGCTGGGGG
 CGCTCGAGAGCCTGACGCTGAACCTGGCCAGCTGACGGCGCGCCTGGAGGATCTGGAGAACCAGCTGGC
 CAACCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222066 representing NM_030590
 Red=Cloning site Green=Tags(s)

MRGLLCWPVLLLLLPWETQLQLTGPRCHTGPLDLVFVIDSSRSVRPFEFETMRQFLMGLLRGLNVGPNA
 TRVGVIIQYSSQVQSVFPLRAFSSREDMERAIRDLVPLAQGTMTGLAIQYAMNVAFSVAEGARPPEERVPR
 VAVIVTDGRPQDRVAEVAQAARARGIEIYAVGVQRADVGLRAMASPLDEHVFLVESFDLIQEFGLQFQ
 SRLCAIDYCSFGNHSCQHECVSTPGGPRCHREGHDLQPDGRSCQVRDLNCGVDHGCEFCQVSEGLSYRC
 LCPEGRQLQADGKSCNRCREGHVDLVLLVDGSKSVRPQNFELVKRFVNIYVDFLDVSPGTRVGLVQFSS
 RVRTEFPLGRYGTAAEVKQAVLAVEYMERGTMTGLALRHMVEHSFSEAQGARPRALNVPRVGLVFTDGRS
 QDDISVWAARAKEEGIVMYAVGVKAVEAELREIASEPAELHVSYPDFGTMTHLLENLRGSICPEEGIS
 AGTELRSPECESLVEFQGRTLGALESLLNLAQLTARLEDLENQLANQK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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

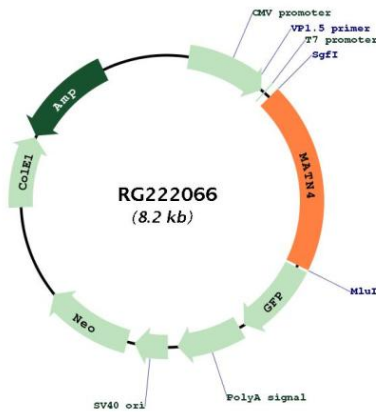
UniProt ID: [O95460](#)

Cytogenetics: 20q13.12

Protein Families: Secreted Protein

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 RG222066