

Product datasheet for **RG220121**

Matrilin 4 (MATN4) (NM_003833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matrilin 4 (MATN4) (NM_003833) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG220121 representing NM_003833
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGGCCCTTCTTTGCTGGCCGTGTTGCTGCTCCTTCTCAGCCCTGGGAAACCCAGCTCCAGTTGA
 CAGGTCCCAGGTGCACACTGGGCCCTGGATCTGGTGTTCGTGATTGACAGCTCCCGCAGCGTGCGCC
 TTTCGAGTTCCAGACCATGCGGCAGTTCCTCATGGGCCTCCTCCGAGGCCTGAACGTGGTCCCAACGCC
 ACGCGCTTGGCGTGATCCAGTATTCGAGTCAAGTGCAGAGCGTCTTCCCTCTCCGCGCTTCTCTCGCC
 GCGAGGACATGGAGCGGCCATCCGCGACTGGTGCCTCTGGCGCAAGGCACCATGACGGGACTGGCGAT
 CCAGTACGCCATGAACGTGGCCTTCAGTGTGGCCGAGGGCGCGCACCAGAGGAGCGCGTGCCTCGT
 GTCGCTGCATCGTGACAGACGGCGGCCCCAGGACCGGTGGCCGAGGTGGCGGCACAGCGCGGCCA
 GCGGCATTGAAATTTACGCGTGGGGTGCAGCGCGGACGTGGGCTCCCTGCGGCCATGGCATCGCC
 CCCGCTAGACGAGCAGTCTTCTCGTAGAGTCTTCGACCTCATCCAGGAGTTCGGCCTGCAGTCCAG
 AGCCGGCTGTGTGCCATTGATCTGTGTGCTGAAGGGACCCATGGATGTGAGCACCCTGCGTCAATCCC
 CAGGCTCCTATTTCTGTCACTGCCAAGTTGGCTTTGACTCCAGCAGGACCAGAGGAGCTGCAGGGCCAT
 TGACTACTGCAGCTTTGGGAACCATAGCTGTGACGATGAGTGTGTAGCACCCCTGGTGGCCACCGTGC
 CACTGCAGAGAGGGCCATGACTTGCAGCCTGATGGGAGGAGCTGTGAGTCCGGGACCTTTGCAATGGCG
 TGGACCATGGCTGTGAGTTCAGTGTGTGAGCGAGGGCCTCTCTACCGTGCCTGTGCCCGAGGGGCG
 GCAACTTCAGGCAGATGGCAAGAGCTGCAACCGGTGCCGGAAGGCCACGTGGACCTTGTCTGTGTT
 GATGGCTCAAGAGCGTGCCTCCAAAACTTCGAGCTAGTGAAGCGCTTCGTGAACCAGATTGTGGACT
 TCCTAGATGTGTCCCGAGGGCAGCGGGTGGGCTGGTGCAGTTCTCGAGCCGCTGCCACCGAGTT
 CCCTCTGGGTGCTACGGCACCGCAGCCGAGGTGAAGCAGGCGGTCTGGCCGTGGAGTACATGGAAACGC
 GGACCATGACAGGGCTGGCGTTCGGCACATGGTGGAGCACAGTTCCTCCGAGGCGCAGGGTGCACGGC
 CCCGTGCCCTAACGTGCCTCGTGTGGCCTGGTCTTACGGATGGCCGCTCCCAGGATGACATCTCGGT
 GTGGGACGCGCGCCAAGGAGGAAGGCATCGTCATGTACGCCGTGGGCTGGGCAAGCGGTGGAGGGC
 GAGCTGCGCGAGATCGCCTCGGAGCCAGCGAACTGCACGTGTCTATGCCCGGACTTCGGCACCATGA
 CGCACCTGCTGGAGAACCTCAGAGGCAGCATCTGTCCAGAGGAGGGCATCAGCGCAGGGACAGAGCTTCG
 GAGCCCATGCGAATGCGAAAGCCTCGTGGAGTTCAGGGCCGACGCTGGGGCGCTCGAGAGCCTGACG
 CTGAACCTGGCCAGCTGACGGCGCCTGGAGGATCTGGAGAACCAGCTGGCCAACCAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220121 representing NM_003833
 Red=Cloning site Green=Tags(s)

MRGLLCWPVLLLLLQPWETQLQLTGPRCHTGPLDLVFDSSRSVRPFEFETMRQFLMGLLRGLNVGPNA
 TRVGVIIQYSSQVQSVFPLRAFSSREDMERAIRDLVPLAQGTMTGLAIQYAMNVAFSVAEGARPPPEERVPR
 VAVIVTDGRPQDRVAEVAQAQASGIEIYAVGVQRADVGLRAMASPPLDEHVFLVESFDLIQEFLQFQ
 SRLCAIDLCAEGTHGCEHHCNVNSPGSYFCHCQVGFVLQQDQRSCRAIDYCSFGNHSCQHECVSTPGPRC
 HCREGHDLPDGRSCQVRDLNCGVDHGCEFCVSEGLSYRCLCPEGRQLQADGKSCNRCREGHVDLVLLV
 DGSKSVRPQNFELVKRFVNQIVDFLDVSPGTRVGLVQFSSRVRETFPLGRYGTAAEVKQAVLAVEYMER
 GTMTGLALRHMVEHSFSEAQGARPRALNVPRVGLVFTDGRSQDDISVWAARAKEEGIVMYAVGVGKAVEA
 ELREIASEPAELHVSYPDFGTMTHLLENLRGSIPEEGISAGTELRSPECEESLVEFQGRTLGALES
 LNLALQTARLELDLENQLANQK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003833

ORF Size: 1743 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_003833.1](#)

RefSeq Size: 2092 bp

RefSeq ORF: 1746 bp

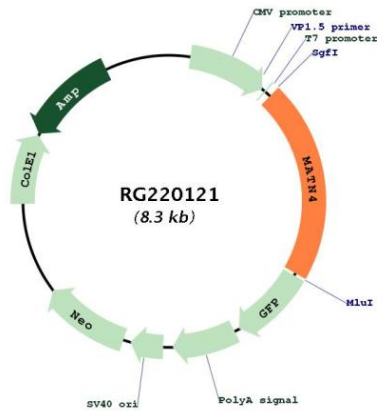
Locus ID: 8785

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 RG220121