

Product datasheet for **RG218289**

Matrilin 4 (MATN4) (NM_030592) Human Tagged ORF Clone

Product data:

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



ORF Nucleotide Sequence: >RG218289 representing NM_030592
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGAGGCCCTTTTGTGCCCCGTGTTGCTGCTCCTTCTTCAGCCCTGGGAAACCCAGCTCCAGTTGA
 CAGGTCCCAGGTGTCACTGGGCCCTGGATCTGGTGTTCGTGATTGACAGCTCCCGCAGCGTGCGCC
 TTTTCGAGTTCGAGACCATGCGGCAGTTCCTCATGGGCCTCCTCCGAGGCCGTGAACGTGGGTCCCAACGCC
 ACGGCGGTTGGCGTGATCCAGTATTCGAGTCAAGTGCAGAGCGTCTTCCCTCTCCGCGCGTTCTCTCGCC
 GCGAGGACATGGAGCGGCCATCCGCGACCTGGTGCTCTGGCGCAAGGCACCATGACGGGACTGGCAAT
 CCAGTACGCCATGAACGTGGCCTTCAAGTGTGGCCGAGGGCGCGGACCCGCAAGAGGAGCGCGTGGCGGT
 GTCGCTGTATCGTGACAGACGGGCGGCCAGGACCGGTGGCCGAGGTGGCGGCACAGGCGCGCGCC
 GCGGCATTGAAATTTACGCGGTGGGGTGCAGCGCGGACGTGGGCTCCCTGCGCGCATGGCATCGCC
 CCCGCTAGACGAGCAGTCTTCTCGTAGAGTCTTCGACCTCATCCAGGAGTTCGGCTGCAGTTCAG
 AGCCGCTGTGTGTCGCGGACCTTTGCAATGGCGTGGACCATGGCTGTGAGTTCAGTGTGTGAGCGAGG
 GCCTCTCTACCGTGCCTGTGCCCGAGGGCGGCAACTTCAGGCAGATGGCAAGAGCTGCAACCGGTG
 CCGGGAAGGCCACGTGGACCTTGTCTGCTGGTGTATGGCTCCAAGAGCGTGCCTCCACAAACTTCGAG
 CTAGTGAAGCGCTTCGTGAACAGATTGTGGACTTCTAGATGTGTCCCGAGGGCAGCGGGTGGGGC
 TGGTGCAGTTCTCGAGCCGCGTGCACCGAGTTCCTCTGGGTGCTACGGCACCGCAGCGAGGTGA
 GCAGGCGGTCTGGCCGTGGAGTACATGGAACGCGGCACCATGACAGGGCTGGCGTTGCGGCACATGGT
 GAGCACAGCTTCTCCGAGGCGCAGGGTGCACGGCCCGTGCCTTAACGTGCCTCGTGTGGCTGGTCT
 TCACGGATGGCCGCTCCAGGATGACATCTCGGTGTGGGACGCGCGCCAAGGAGGAAGGCATCGTCAT
 GTACGCGGTGGCGTGGCAAGGCGGTGGAGGCGGAGCTGCGCGAGATCGCCTCGGAGCCAGCGGAAGT
 CACGTGTCCTATGCCCCGACTTCGGCACCATGACGCACCTGCTGGAGAACCTCAGAGGCAGCATCTGTC
 CAGAGGAGGCATCAGCGCAGGACAGAGCTTCGGAGCCCATGCGAATGCGAAAGCCTCGTGGAGTTCCA
 GGGCCGACGCTGGGGCGCTCGAGAGCCTGACGCTGAACCTGGCCAGCTGACGGCGCGCTGGAGGAT
 CTGGAGAACCAGCTGGCCAACCAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG218289 representing NM_030592
 Red=Cloning site Green=Tags(s)

MRGLLCWPVLLLLLPWETQLQLTGPRCHTGPLDLVFVIDSSRSVRPFEFETMRQFLMGLLRGLNVGPNA
 TRVGVIQYSSQVQSVFPLRAFSSREDMERAIRDLVPLAQGTMTGLAIQYAMNVAFSVAEGARPPEERVPR
 VAVIVTDGRPQDRVAEVAQAARARGIEIYAVGVQRAVGSLSRAMASPLDEHVFLVESFDLIQEFGLQFQ
 SRLCVRDLNCGVDHGCEFCVSEGLSYRCLCPEGRQLQADGKSCNRCREGHVDLVLVDGSKSVRPQNF
 LVKRFVNQIVDFLDVSPGTRVGLVQFSSRVRTFPLGRYGTAAEVKQAVLAVEYMERGMTGLALRHMV
 EHSFSEAQGARPRALNVPRVGLVFTDGRSQDDISVWAARAKEEGIVMYAVGVGKAVEAELREIASEPAEL
 HVSYPDFGTMTLLENLRGSICPEEGISAGTELRSPECESLVEFQGRTLGALESLLNLALQTARLED
 LENQLANQK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

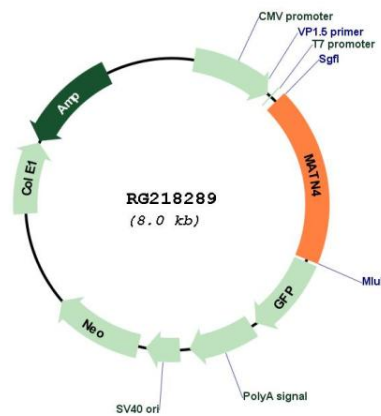
RefSeq: [NM_030592.3](#)

RefSeq Size: 1846 bp
RefSeq ORF: 1500 bp
Locus ID: 8785
UniProt ID: [O95460](#)
Cytogenetics: 20q13.12

Protein Families: Secreted Protein

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 RG218289