

Product datasheet for **SC109946**

Matrilin 2 (MATN2) (NM_030583) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matrilin 2 (MATN2) (NM_030583) Human Untagged Clone
Tag:	Tag Free
Symbol:	Matrilin 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_030583, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGAGATGCTCGCAGGCTGCTTTCTGCTGATCCTCGGACAGATCGTCTCCTCCCTGCCGAGGCCA
GGGAGCGGTACGTGGGAGGTCCATCTCTAGGGGACAGACAGCTCGGACCCACCCGACAGCGCCCTTCT
GGAGAGTTCCTGTGAGAACAAGCGGGCAGACCTGGTTTTTCATCATTGACAGCTCTCGCAGTGTCAACACC
CATGACTATGCAAAGGTCAAGGAGTTCATCGTGGACATCTTGCAATTCTTGGACATTGGTCTGATGTCA
CCCAGTGGGCTGCTCCAATATGGCAGCACTGTCAAGAATGAGTTCTCCCTCAAGACCTTCAAGAGGAA
GTCCGAGGTGGAGCGTGTGTCAAGAGGATGCGGCATCTGTCCACGGGACCATGACTGGGCTGGCCATC
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AGTGCTACAGTGGCTACGCCCTGGCTGAGGATGGGAAGAGGTGTGTGGCTGTGGACTACTGTGCCTCAGA
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GAAGAAGTAAGAAAATTAACACAGCGCTTAGAAGAAATGACACAGAGAATGGAAGCCCTGGAAAATCGCC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030583 unedited
 GGGTTCACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGCGAGGCGA
 AGAGGCCGACGAGGAAGACCCGGGTGGCTGCGCCCTGCCTCGCTTCCCAGGCGCCGGCG
 GCTGCAGCCTTGCCCTCTTGCTCGCCTGAAAATGAAAAGATGCTCGCAGGCTGCTTT
 CTGCTGATCCTCGGACAGATCGTCTCCTCCCTGCCGAGGCCAGGAGCGGTACAGTGGG
 AGGTCCATCTTAGGGGACAGACCGCTCGGACCCACCCGACAGCGCCCTTCTGGAGAGT
 TCCTGTGAGAACAAGCGGGCAGACCTGGTTTTTCATCATTGACAGCTCTCGCAGTGTCAAC
 ACCCATGACTATGCAAAGGTCAAGGAGTTCATCGTGGACATCTTGCAATCTTGGACATT
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 TCCCTCAAGACCTTCAAGAGGAAGTCCGAGGTGGAGCGTGTCAAGAGGATGCGGCAT
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 GATGGGAGACCTCANGACTCCGTGGCCGAGTGGCTGCTAAGGCACGGGACACGGGCATC
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 GAGCCCCATGAGACCATGTCTTCTTGTGGCCAATTTACGCCAGATTGAGACGCTGACC
 TNCGTGTTCCAGAAAGAAGTGTGCACGGNCCACATGTGCAGCACCTGNAGCATAACTGT
 GCCCACTTCTGCATCACATNCCTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030583 unedited
 NNNNGGTAACAGCTATGNAACCGCGCCGAANCTAGNGATCGGTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACCATTCTCTGAAGTGGGGAATTTT
 AATATTGTATAAAAAATCCAACCTGTTTACAAGTACCTATGTCCTATGATTTTATGCCT
 ACCTCCCTATACCTATTTCAAGGAAAAGTCCAATACAAAAAACAGCATTTCCTATGGCC
 AGTGTCTACAAAAGTAAAACCTGGGCAAACTTTATCGTATAGTCAAATGAAATTGCCCCC
 TAAGGCAGGATGAGGCAAAACCCAGTTGTGTCCACAGTATATTACAAAATACCTTGCCATA
 GCTTATTCATTCTCACCTGGTAAATTCATCTTAAATTTCTGAAGGATTTTTTCTAAAT
 AAATTTATACAAGTTAGGGGATACTTCTTGGCTTTGTTCTGGGGCAAACAGGTTTCTCA
 ATACTGATTGTTTTACTTCAACATTTTTGATTTAACAATAGCCTGAGCTTTGGGGCTC
 TGCATCGTTTCATTGGAATCCGTGATACAATGACTACAAATGTGTCGCGATTTCTAATC
 TTCATGTATCTCAGGCGATTTTCCAGGGCTTCCATTCTCTGGGCAATTTCTTAAGC
 GCCGGTTAATTTTCTTACTTCTTCGTTTTGCAAGGGTCTGGAACATTATAAGGTTTTTAC
 ATTTGCATTGATCGTGTTTTTCTCCAAGGCTTCTGAAAGTTTTGTTGAATGGGAAAG
 CTTTTGTGTAGACCGTAAAAGATTGTCTTCTTCAACAGATATCTGTGTTGCACTGGTGG
 CTGTTGGACCATTTTTGGCAGTCCCCTGCTGGAGAGTCTGGTCTTCATCGGAA

Restriction Sites:

NotI-NotI

ACCN:

NM_030583

Insert Size:

4000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_030583.2](#), [NP_085072.2](#)

RefSeq Size: 4065 bp

RefSeq ORF: 2814 bp

Locus ID: 4147

UniProt ID: [O00339](#)

Cytogenetics: 8q22.1-q22.2

Domains: VWA, EGF

Protein Families: Secreted Protein

Gene Summary: This gene encodes a member of the von Willebrand factor A domain containing protein family. This family of proteins is thought to be involved in the formation of filamentous networks in the extracellular matrices of various tissues. This protein contains five von Willebrand factor A domains. The specific function of this gene has not yet been determined. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.