

Product datasheet for **SC109405**

Matrilin 2 (MATN2) (NM_002380) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matrilin 2 (MATN2) (NM_002380) Human Untagged Clone
Tag:	Tag Free
Symbol:	Matrilin 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_002380, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGAGATGCTCGCAGGCTGCTTTCTGCTGATCCTCGGACAGATCGTCTCCTCCCTGCCGAGGCCA
GGGAGCGGTACGTGGGAGGTCCATCTCTAGGGGACAGACAGCTCGGACCCACCCGACAGCGCCCTTCT
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CCCGAGTGGGCTGCTCCAATATGGCAGCACTGTCAAGAATGAGTTCTCCCTCAAGACCTTCAAGAGGAA
GTCCGAGGTGGAGCGTGTGTCAAGAGGATGCGGCATCTGTCCACGGGACCATGACTGGGCTGGCCATC
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AATTAACACAGCGCTTAGAAGAAATGACACAGAGAATGGAAGCCCTGGAAAATCGCTGAGATACAGATG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002380 unedited GTAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGCGGCTGCAGCCTTGCCC CTCTTGCTCGCCTTGAAAATGGAAAAGATGCTCGCAGGCTGCTTTCTGCTGATCCTCGGA CAGATCGTCTCCTCCCTGCCGAGGCCAGGGAGCGGTACGTGGGAGGTCATCTCTAGG GGCAGACACGCTCGGACCCACCCGACAGCGCCCTTCTGGAGAGTTCTGTGAGAACAAG AAGGTCAAGGAGTTCATCGTGGACATCTGCAATTCTTGGACATTGGTCTGATGTCACC CGAGTGGCCTGCTCCAATATGGCAGCACTGTCAAGAATGAGTTCTCCCTCAAGACCTTC AAGAGGAAGTCCGAGGTGGAGCGTGCTGTCAAGAGGATGCGGCATCTGTCCACGGGCACC ATGACTGGGCTGGCCATCCAGTATGCCCTGAACATCGCATTCTCAGAAGCAGAGGGGGCC CGGCCCTGAGGGAGAATGTGCCACGGGTATAATGATCGTGACAGATGGGAGACCTCAG GACTCCGTGGCCGAGGTGGCTGCTAAGGCACGGGACACGGGCATCCTAATCTTTGCCATT GGTGTGGCCAGGTAGACTTCAACACCTTGAAGTCCATTGGGAGTGAGCCCCATGAGGAC CATGTCTTCTTGTGGCCAAATTCAGCCAGATTGAGACGCTGACCTNCGTGTTCAGAAGA AGTTGTGCACGGCCACATGTGCAGCACCTGGAGCATAACTGTNGCCACTTCTGCATCA ACATNCCTGGGCTCATAGTCTGCAGGTGCAAACAAGGCTACATTCTCAACTCGGATCAA ACGACTTGCAGATCCAAGNATCTGTGTGCCATG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002380 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTCTGAATGGTGAATTTTAATA TTGTATAAAAAATCCAACCTGTTCACAAGTACATATGCCTATGATTTTATGCATACAT CCATATACATATATCAAGGTAAAGTCCAATACAAAAAACAGCATTTCCTATGGCCAGTG TTCTACAGAAGTAAGACTGTGCAAACCTTATCGTATAGTCAAATGAGATTGCACACTAAG GCAGGATGAGGCAGAAGCAAGTTGTGTCCACAGTATATTACAAAATACCTTGATAGCTT ATTCATCTCACCTGGTAAATTCATCTTAGAATTCTGAAGGATTTTTTCTAGATAAAT TTATACAAGTTAGTGTATACTTCTTGTCTTTGTCTGTGGCAAACCAGGTTTCTCAGTAC TGATTGTTTTACTTCACAACATTATTGATTTAACAAATAGCCTGAGCTTTGGGGCTCTGCA CTGCGTTCATTGTAATCCGTGATACAATGACTACAAATGTGTCGCGATTCTAATCTTCA TCTGTATCTCAGGCGATTTCCAGGGCTCCATTCTCTGTGTCAATTTCTTAAGCGCTG NGTTAATTTTCTTACTTCTTCTGTTGCAAGGTTCTGGAACATTAAAGGTTTTACATTT GCATTGATCGTGTTTTTCTTCCAAGGGCTTCTGAAGGTTTTGTGAATGGGAAAGCTT TTGTGTAGACCGTANAAGATGTCTTCTTCAACAGATATCTGTGTTGCACTGCAAAATTAG ACAGGAAAGTAGGTCTTGGATATTTATGGTGACTGGCTCAGATTCTGTTGGCTGTTGGAC ATTTTTGGCAGTCCCCTGCTGGAGAGTCTGTCTCCATCGGAGTCTTTAGAGCTCACAGAG CTTTNTGAGTTTCACTATCTATCCATGGGCTGAGTCTTCGCTAAAGAGAGCTGTTGGGG CTAAGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002380
Insert Size:	3510 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_002380.3](#), [NP_002371.3](#)

RefSeq Size: 4122 bp

RefSeq ORF: 2871 bp

Locus ID: 4147

UniProt ID: [O00339](#)

Cytogenetics: 8q22.1-q22.2

Domains: EGF_CA, VWA, EGF, 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 (1) represents the longest transcript and encodes the longest isoform (a).