

Product datasheet for **RG216227**

Matrilin 2 (MATN2) (NM_002380) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matrilin 2 (MATN2) (NM_002380) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MATN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG216227 representing NM_002380
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAAAGATGCTCGCAGGCTGCTTTCTGCTGATCCTCGACAGATCGTCTCCTCCCTGCCGAGGCCA
 GGGAGCGGTACAGTGGGAGGTCCATCTCTAGGGCAGACACGCTCGGACCCACCCGAGACGGCCCTTCT
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 CCCGAGTGGCCCTGCTCCAATATGGCAGCACTGTCAAGAATGAGTTCTCCCTCAAGACCTTCAAGAGGAA
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 AATTAACACAGCGCTTAGAAGAAATGACACAGAGAATGGAAGCCCTGAAAAATCGCTGAGATACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216227 representing NM_002380
 Red=Cloning site Green=Tags(s)

MEKMLAGCFLLILGQIVLLPAEARERSRGRSISRGRHARTHPTALLESSENKRADLVFIIDSSRSVNT
 HDYAKVKEFIVDILQFLDIGPDVTRVGLLQYGSTVKNEFSLKTFKRKSEVERAVKRMHLSTGMTGLAI
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 GKTCRRKDVCQAIDHGCEHICVNSDDSYTCECLEGFRLAEDGKRCRRKDVCSTHHGCEHICVNNNGSYI
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 SDGRQDSPAGELPKTVQPTSEPVTTINIQDLLSCSNFAVQHRYLFEEDNLLRSTQKLSHSTKPSGSPLE
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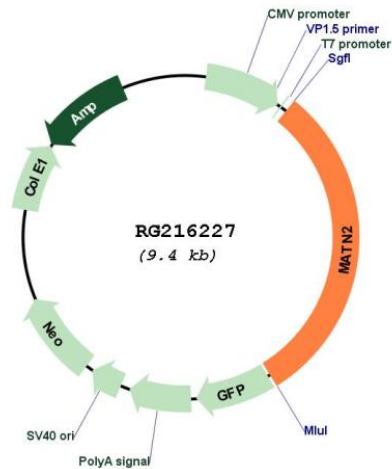
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_002380

ORF Size: 2868 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_002380.4](#)

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]