

Product datasheet for **RG215778**

MATN1 (NM_002379) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MATN1
Synonyms:	CMP; CRTM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG215778 representing NM_002379
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGGTCCTCTCTGGCACTAGCCTCATGCTCTGCAGCCTGCTGCTGCTCCAGGCCCTGTGCAGCC
 CTGGCCTCGCCCCCAGTCCAGAGGCCATCTCTGCCGACGCGGCCACAGACCTGGTGTGTTGTTGTCGA
 CAGCTCTCGCAGCGTTCCGGCCTGTTGAATTTGAGAAAGTGAAGGTATTCCTGTCCCAGGTTCATCGAGTCG
 CTGGACGTGGGGCCCAATGCCACCCGGGTGGGCATGGTCAACTATGCCAGCACCCTGAAGCAGGAGTTCT
 CGCTGCGGGCTCATGTCTCCAAGGCCGCACTGCTGCAGGCTGTGCGCCGTATCCAGCCGCTGTCCACAGG
 CACCATGACCGGCCTGGCCATCCAGTTCGCTATCACCAGCCTTCGGCGATGCAGAGGGTGGTCGTTCC
 AGGTCCCTGACATCAGCAAGGTGGTTCGTCGTCGAGAGCGGGAGGCCCCAGGACAGCGTGCAGGACG
 TGTCTGCGGGGCCCGGCCAGCGGCTCGAGCTGTTCCGTCATCGAGTGGGACGCTGGACAAGGCCAC
 GCTGCGGCAGATCGCCAGCGAGCCGAGGACGAACACGTCGATTACGTGGAGAGCTACAGCGTCATCGAG
 AAGCTGTCCAGGAAGTTCAGGAGGCCTTCGCTGCTGTCAGACCTGTGCGCCACAGGGGACCATGACT
 GTGAGCAGGTGTGCATCAGTCCCCCGGTTCTACACCTGCGCCTGCCACGAGGGCTTCACTCTGAACAG
 CGACGGCAAGACCTGCAATGTCTGCAGTGGTGGTGGTGGCAGCTCGGCCACTGACCTGGTCTTCCTCATT
 GACGGATCCAAGAGTGTGAGGCCAGAGAACTTTGAGCTGGTGAAGAAGTTCATCAGTCAGATCGTGGATA
 CGCTGGACGTGTGAGACAAGCTGGCCAGGTGGGGCTGGTGCAGTACTCAAGCTCTGTGCGCCAGGAGTT
 CCCCCTGGGTGCTTCCACACCAAGAAGGACATCAAGGCGGCTGTGCGGAATATGCTCCTACATGGAGAAG
 GGCACAATGACCGGGGCTGCTCTCAAGTACCTCATTGACAATTCCTTCACTGTGTCCAGTGGGGTAGGC
 CCGGGGCCAGAGGTGGGCATTGTCTTCACTGATGGCCGAGCCAGGACTACATTAATGATGCTGCCAA
 GAAGGCCAAAGACCTCGGCTTTAAGATGTTTGCTGTGGGTGTGGGCAATGCCGTGGAGGATGAGCTGAGG
 GAAATAGCCTCAGAGCCTGTGGCAGAGCACTACTTCTACACGGCTGACTTCAAGACCATCAACCAGATAG
 GCAAGAAGTTGAGAAGAAGATCTGTGTGGAGGAAGACCCGTGTGCTGCGAGTCCCTGGTGAATTCGA
 AGCCAAAGTGGAGGGCTGCTGCAGGCCCTGACCAGGAACTGGAAGCTGTGAGTAAGCGGCTGGCCATC
 CTGGAGAACACAGTTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

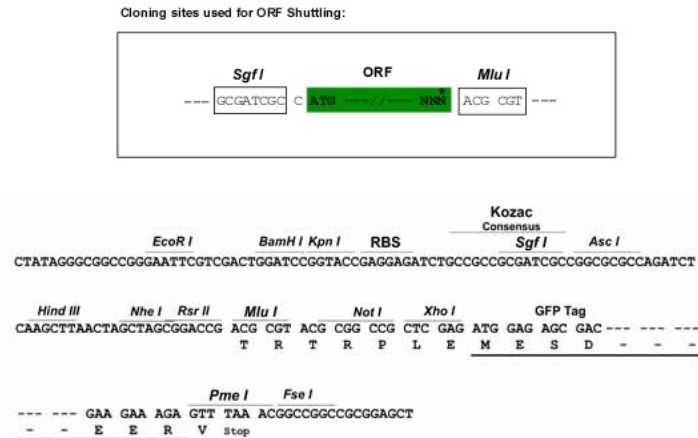
Protein Sequence: >RG215778 representing NM_002379
 Red=Cloning site Green=Tags(s)

MRVLSGTSMLCSLLLLLQALCSPGLAPQSRGHLCTRPTDLVFVVDSSRSVRPVEFEKVKVFLSQVIES
 LDVGNPNATRVGMVNYASTVKQEFSLRAHVSKAALLQAVRRIQPLSTGTMGLAIQFAITKAFGDAEGGRS
 RSPDISKVVIVVTDGRPDQSVQDV SARARASGVELFAIGVGSVDKATLRQIASEPQDEHVDYVESYSVIE
 KLSRKQEAFCVVSDDL CATGDHDCQVCISSPGSYTCACHEGFTLNSDGKTCNVCSGGGSSATDLVFLI
 DGSKSVRPENFELVKKFISQIVDTLDVSDKLAQVGLVQYSSSVRQEFPLGRFHTKKDIKAAVRNMSYMEK
 GTMTGAALKYLIDNSFTVSSGARPGAQKVGIVFTDGRSQDYINDAAKKAKDLGFKMFAVGVGNVEDELRL
 EIASEPVAEHYFYTADFKTINQIGKKLQKKICVEEDPCACESLVKFQAKVEGLLQALTRKLEAVSKRLAI
 LENTVV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002379

ORF Size: 1488 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_002379.2](#), [NP_002370.1](#)

RefSeq Size: 2414 bp

RefSeq ORF: 1491 bp

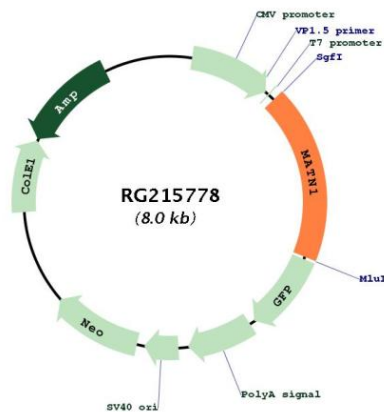
Locus ID: 4146

UniProt ID: [P21941](#)

Cytogenetics: 1p35.2

Gene Summary: This gene encodes a member of von Willebrand factor A domain containing protein family. This family of proteins are thought to be involved in the formation of filamentous networks in the extracellular matrices of various tissues. Mutations of this gene have been associated with variety of inherited chondrodysplasias. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215778