

Product datasheet for **RG217122**

COL13A1 (NM_005203) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL13A1 (NM_005203) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL13A1
Synonyms:	alpha 1 type XIII collagen; collagen, type XIII, alpha 1; collagen alpha-1(XIII) chain; COLXIII A1; FLJ42485; OTTHUMP00000060587
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG217122 representing NM_005203
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTAGCGGAGCGACCCACAAAGCGGCAGCCACCGGTGCCCGCGCCCTGGGGAGTTGGGCGCGCCCG
 GGACGGTGGCTCTGGTGGCGGCGCGGGCGAGCGCGGCACGGCTGCCGAGTCCAGGGTCGTGCGGGCT
 GGTGACGCTGGCCCTCTGCTCGCTGGCACTCAGCCTGCTCGCCCACTTTCGGACGCGCCGAGCTGCAGGCC
 CGGGTGTGCGCCTGGAAGCGGAGCGCGGGGAGCAGAAATGGAGACGGCTATTTTGGGACGAGTCAATC
 AACTGCTGGACGAGAAATGGAAGCTCCACTCAAGGAGGCGCCGGGAGGCCCAAGACATCTCCAGGATG
 TAACTGCCACCAGCATTTCCAGGTCCACTGGAAGACCCGACTCCAGGGGACAAAGTGCCATTGGG
 ATGCTGGACGTGTGGGTCCCCGAGACGCTGGGCTGTCCATCATTGGTCCCCGCGGCCCTGGTC
 AACCAGGAAGTAGAGTTTCCCTGGATTTCGGGTCCATTGGGCTGGACGGCAAACCGGCCACCCAGG
 ACCAAAGGGCGACATGGGTCTGACGGGTCCCCAGGACAGCCGGGACCCAGGGACAAAAGGAGAAAAG
 GGTCAAGTGTGAGAGTACCCACACCGGGAGTGCCTAAGCAGCATGCCAGCAGCTCTGCGCTCCAGCCAAA
 TAATTGCCTGAAGCTGTGCTCTCTCAATTAGTGCAGTGGCTCCACCCCGGTATAAAAAGGCG
 GACGTTCCAGGGCGAACAGAGCCAGGCCAGCATCCAAGTCCACAGGGCCCCAGGCCCCCTGGACCA
 AGTGGACCTCTGGGGACCCAGGACTGCCAGGGCTATGGGGCCACCTGGCTTACCTGGGCTCTGGAC
 CAAAGGGAGACCCAGGGATCCAGGGCTACCAGGCCGGAAGGGAGAACGGGGCATGCCAGGGATGCCAGG
 CAAGCATGGAGCAAGGGGGCGCCGGAATTGCCGTGGCTGGGATGAAGGGTGAGCCAGGGATCCAGGA
 ACCAAGGGTGAGAAGGGGGCTGAAGGCTCCCCTGGGCTTCTGGCCTCCTGGGGCAGAAGGGAGAGAAAAG
 GCGATGCTGGCAACTCCATTGGAGGAGGAGAGGGGAACCTGGCCCTCCAGGGCTCCCTGGGCCCCCAGG
 GCCAAAGGGAGAAAGCAGGTGTGATGGCCAGTTGGCCCCCAGGGCAGCCAGGAGACAAGGGGGAGCGT
 GGAGCAGCTGGAGAACAGGGACCAGATGGCCCCAAGGGTCCAAGGGAGAACAGGGAAAGGAGAGATGG
 TGGATTACAATGGAAACATCAATGAGGCTCTCCAGGAGATCCGGACGCTGGCCTTGATGGGGCTCTGG
 TCTTCTGGGCAAATTGGCCACCTGGAGCTCCAGGGATTCCAGGCCAGAAGGGGGAGATTGGACTGCCA
 GGCCCTCCAGGACACGATGGGGAAAAGGGACCTCGCGTAAACCAGGAGACATGGGCCCTCTGGTCCCC
 AAGGCCCCCCAGGAAAGGATGGACCTCCAGGAGTGAAGGGAGAAAACGGGCACCCAGGGAGCCAGGAGA
 GAAGGGGGAAAAAGGGGAGACAGGACAAGCAGGCTCACCGGGAGAGAAAGGAGAAGCCGGGGAGAAAGGC
 AATCCAGGAGCAGAGTTCTGGGCTGCCAGGGCCAGAGGGGCTCCCGACCTCCGGGGCTCCAAGGTG
 TTCTTGACCAAAGGGGGAAGCAGGACTAGATGGAGCAAAGGAGAGAAAGGCTTCCAGGGAGAAAAGG
 AGACCGTGGTCCCTGGGACTACCCGGAGCTTCAAGTTTGGACGCGAGGCTGGGCCACCGGTACTCCA
 GGACCAATTGGAGTTCCAGGCCAGCGGACCAAGGGCGAGAGGGGAGCAAAGGAGACCTGGGATGA
 CAGGACCAACGGGAGCAGCTGGGCTTCTGGTTTACATGGACCACCGGGGACAAGGGAACCGGGGGGA
 GAGGGGGAAGAAAGGCTCTAGAGGGCTAAAGGGGATAAGGGAGACCAAGGAGCGCTGGATTAGATGCC
 CCCTGCCCATTTGGGCGAAGATGGCTTACCAGTCCAAGGCTGCTGGAACAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG217122 representing NM_005203
 Red=Cloning site Green=Tags(s)

MVAERTHKAAATGARGPGELGAPGTVALVAARAERGARLPSPGSCGLLTALCSLALSLLAHFRTAELQA
 RVLRLAERGEQQMETAILGRVNQLLDEKWKLSRRRREAPKTPSGCNCPPAFQGPTGRPLPGDKGAIG
 MPGRVSGPDAGLSIIIGPRGPPGQPGTRGFPGFPGPIGLDGKPGHPGPKGDMGLTGPPGQPGPQGQKGEK
 GQCGEYPHRECLSSMPAALRSSQIIALKLLPLNSVRLAPPPVIKRRTFQGEQSQASIQGPPGPPGPPG
 SGPLGHPGLPGMPGPPGLPGPPGPKGDPGIQGYHGRKGERGMPPGPKHGAKGAPGIAVAGMKGEPIPG
 TKGEKGAEGSPGLPGLLGQKGEKGDAGNSIGGGRGEPGPPGLPGPPGPKGEAGVDGQVGPQPGDKGER
 GAAGEQPGDPKPGSKGEPGKGMVDYNGNINEALQEIRTLALMGPPGLPGQIGPPGAPGIPGQKGEIGLP
 GPPGHDGEKGPGRKPGDMGPPGQPGPKDGPPGVKGENGHPGSPGEKGEKGETGQAGSPGEKGEAGEKG
 NPGAEPGLPGPEGPPGGLQGVPGKGEAGLDGAKGEKGFQGEKGDGRLGLPGASGLDGRPGPPGTP
 GPIGVPGPAGPKGERGSKGDPGMTGPTGAAGPLGLHGPBGDKGNRGERGKKGSRGPKGDKGDQAGPLDA
 PCPLGEDGLPVQGCWNK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_005203

ORF Size: 2151 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_005203.3, NP_005194.3

RefSeq Size: 3136 bp

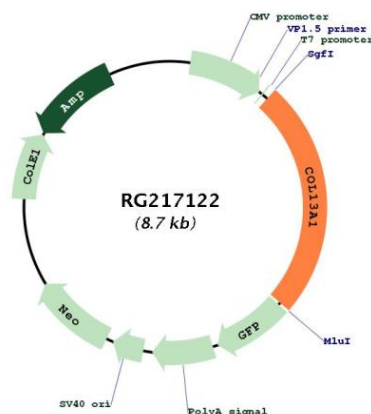
RefSeq ORF: 2153 bp

Locus ID: 1305

Cytogenetics: 10q22.1

Gene Summary: This gene encodes the alpha chain of one of the nonfibrillar collagens. The function of this gene product is not known, however, it has been detected at low levels in all connective tissue-producing cells so it may serve a general function in connective tissues. Unlike most of the collagens, which are secreted into the extracellular matrix, collagen XIII contains a transmembrane domain and the protein has been localized to the plasma membrane. The transcripts for this gene undergo complex and extensive splicing involving at least eight exons. Like other collagens, collagen XIII is a trimer; it is not known whether this trimer is composed of one or more than one alpha chain isomer. A number of alternatively spliced transcript variants have been described, but the full length nature of some of them has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217122