

## Product datasheet for **RC217122**

### **COL13A1 (NM\_005203) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                                                              |
| Product Name:             | COL13A1 (NM_005203) Human Tagged ORF Clone                                                                                       |
| Tag:                      | Myc-DDK                                                                                                                          |
| 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-Entry (PS100001)                                                                                                           |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                                                             |



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**ORF Nucleotide  
Sequence:**

>RC217122 representing NM\_005203  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTAGCGGAGCGACCCACAAAGCGGCAGCCACCGGTGCCCGCGCCCTGGGGAGTTGGGCGCGCCCG  
 GGACGGTGGCTCTGGTGGCGGCGCGGGCGAGCGCGGCACGGCTGCCGAGTCCAGGGTCGTGCGGGCT  
 GGTGACGCTGGCCCTCTGCTCGCTGGCACTCAGCCTGCTCGCCCACTTTCGGACGCGCCGAGCTGCAGGCC  
 CGGGTGTGCGCCTGGAAGCGGAGCGCGGGGAGCAGAAATGGAGACGGCTATTTTGGGACGAGTCAATC  
 AACTGCTGGACGAGAAATGGAAGCTCCACTCAAGGAGGCGCCGGGAGGCCCAAGACATCTCCAGGATG  
 TAACTGCCACCAGCATTTCCAGGTCCCCTGGAAGACCCGAGCTCCAGGGGACAAAGGTGCCATTGGG  
 ATGCTGGACGTGTGGGGTCCCCCGAGACGCTGGGCTGTCCATCATTGGTCCCCGCGGCCCTGGTC  
 AACCAGGAAGTAGAGTTTCCCTGGATTTCGGGTCCCATTGGGCTGGACGGCAAACCGGCCACCCAGG  
 ACCAAAGGGCGACATGGGTCTGACGGGTCCCCAGGACAGCCGGGACCCAGGGACAAAAGGAGAAAAAG  
 GGTCAAGTGTGGAGAGTACCCACACCGGGAGTGCCTAAGCAGCATGCCAGCAGCTCTGCGCTCCAGCCAAA  
 TAATTGCCTGAAGCTGTGCTCTCCTCAATTAGTGCAGTGGCTCCACCCCGGTATAAAAAGGCG  
 GACGTTCCAGGGCGAACAGAGCCAGGCCAGCATCCAAGTCCACAGGGCCCCAGGCCCCCTGGACCA  
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 ACCAAGGGTGAGAAGGGGGCTGAAGGCTCCCCTGGGCTTCTGGCTCCTGGGGCAGAAGGGAGAGAAAG  
 GCGATGCTGGCAACTCCATTGGAGGAGCAGAGGGGAACCTGGCCCTCCAGGGCTCCCTGGGCCCCAGG  
 GCCAAAGGGAGAAAGCAGGTGTGATGGCCAGGTTGGCCCCCAGGGCAGCCAGGAGACAAGGGGGAGCGT  
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 TGGATTACAATGGAAACATCAATGAGGCTCTCCAGGAGATCCGGACGCTGGCCTTGATGGGGCTCTGG  
 TCTTCTGGGCAAATTGGCCACCTGGAGCTCCAGGGATTCCAGGCCAGAAGGGGAGATTGGACTGCCA  
 GGCCCTCCAGGACACGATGGGGAAAAGGGACCTCGCGTAAACCAGGAGACATGGGCCCTCTGGTCCCC  
 AAGGCCCCCCAGGAAAGGATGGACCTCCAGGAGTGAAGGGAGAAAACGGGCACCCAGGGAGCCAGGAGA  
 GAAGGGGGAAAAAGGGGAGACAGGACAAGCAGGCTCACCGGGAGAGAAAGGAGAAGCCGGGGAGAAAGGC  
 AATCCAGGAGCAGAGTTCTGGGCTGCCAGGGCCAGAGGGGCTCCCGACCTCCGGGGCTCAAGGTG  
 TTCTTGACCAAAGGGGGAAGCAGGACTAGATGGAGCAAAGGAGAGAAAGGCTTCCAGGGAGAAAAAGG  
 AGACCGTGGTCCCTGGGACTACCCGGAGCTTCAGGTTTGGACGGCAGGCTGGGCCACCGGTAATCCA  
 GGACCAATTGGAGTTCCAGGCCAGCGGACCAAGGGCGAGAGGGGAGCAAAGGAGACCTGGGATGA  
 CAGGACCAACGGGAGCAGCTGGGCTTCTGGTTTACATGGACCACCCGGGGACAAGGGAACCGGGGGGA  
 GAGGGGGAAGAAAGGCTCTAGAGGGCTAAAGGGGATAAGGGAGACCAAGGAGCGCTGGATTAGATGCC  
 CCCTGCCCATTTGGGCGAAGATGGCTTACCAGTCCAAGGCTGCTGGAACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217122 representing NM\_005203  
 Red=Cloning site Green=Tags(s)

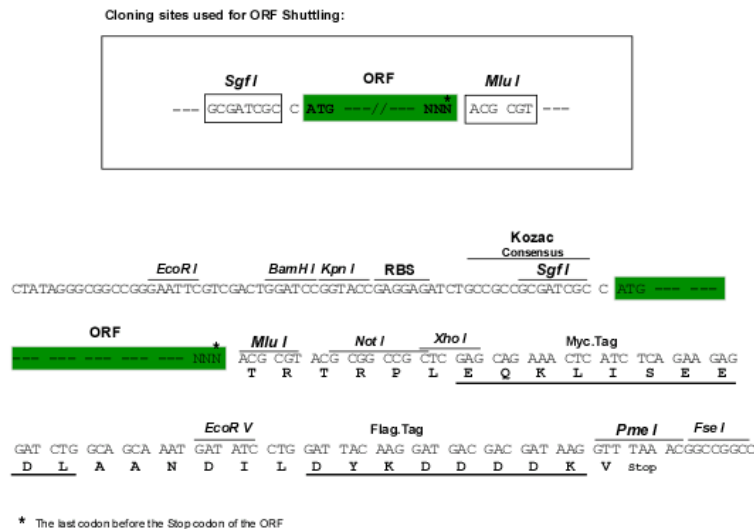
MVAERTHKAAATGARGPGELGAPGTVALVAARAERGARLPSPGSCGLLTALCSLALSLLAHFRTAELQA  
 RVLRLAERGEQQMETAILGRVNQLLDEKWKLSRRRREAPKTPSGCNCPPAFQGTGRPLPGDKGAIG  
 MPGRVGSPPGDAGLSIIIGPRGPPGQPGTRGFPGFPGPIGLDGKPGHPGPKGDMGLTGPPGQPGPQGQKGEK  
 GQCGEYPHRECLSSMPAALRSSQIIALKLLPLLSVRLAPPPVIKRRTFQGEQSQASIQGPPGPPGPPG  
 SGPLGHPGLPGMPGPPGLPGPPGPKGDPGIQGYHGRKGERGMPGMPGKHGAKGAPGIAVAGMKGEPIG  
 TKGEKGAEGSPGLPGLLGQKGEKGDAGNSIGGGRGEPGPPGLPGPPGPKGEAGVDGQVGPQPGDKGER  
 GAAGEQPGDPGPKGSKGEPGKGMVDYNGNINEALQEIRTLALMGPPGLPGQIGPPGAPGIPGQKGEIGLP  
 GPPGHDGEKGPGRKPGDMGPPGQPGPKDGPPGVKGENGHPGSPGEKGEKGETGQAGSPGEKGEAGEKG  
 NPGAEPGLPGPEGPPGPPGLQGVPGPKGEAGLDGAKGEKGFQGEKGDGRLGLPGASGLDGRPGPPGTP  
 GPIGVPGAPGPKGERGSKGDPGMTGPTGAAGLPGLHGPBGDKGNRGERGKKGSRGPKGDKGDQAGPLDA  
 PCPLGEDGLPVQGCWNK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2679\\_e01.zip](https://cdn.origene.com/chromatograms/mg2679_e01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005203

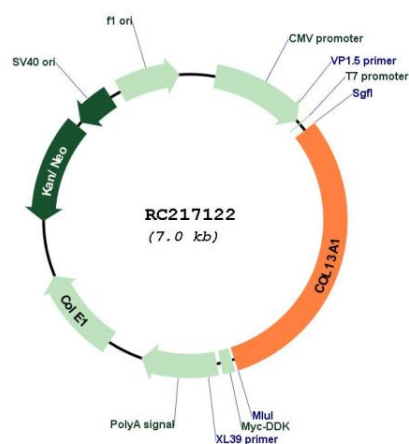
**ORF Size:** 2151 bp

**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](#)

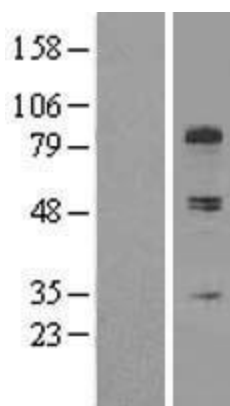
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq:</b>                | <a href="#">NM_005203.3</a> , <a href="#">NP_005194.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq Size:</b>           | 3136 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq ORF:</b>            | 2153 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Locus ID:</b>              | 1305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cytogenetics:</b>          | 10q22.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MW:</b>                    | 69.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Summary:</b>          | <p>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]</p> |

## Product images:



Circular map for RC217122



Western blot validation of overexpression lysate (Cat# [LY427165]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226110] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).