

Product datasheet for **RG223863**

COL13A1 (NM_080798) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL13A1 (NM_080798) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL13A1
Synonyms:	CMS19; COLXIIIA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223863 representing NM_080798
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTAGCGGAGCGACCCACAAAGCGGCAGCCACCGGTGCCCGCGCCCTGGGAGTTGGGCGCGCCG
 GGACGGTGGCTCTGGTGGCGGCGCGGGCGAGCGCGGCACGGCTGCCGAGTCCAGGGTCGTGCGGGCT
 GCTGACGCTGGCCTCTGCTCGCTGGCACTCAGCTGCTCGCCACTTTCGGACGCGCCGAGCTGCAGGCC
 CGGGTGTGCGCCTGGAAGCGGAGCGCGGGGAGCAGAAATGGAGACGGCTATTTTGGGACGAGTCAATC
 AACTGCTGGACGAGAAATGGAAGCTCCACTCAAGGAGGCGCCGGGAGGCCCAAAGACATCTCCAGGATG
 TAACTGCCACCAGGACCTCTGGTCAACCAGGAAGTAGAGTTTCCCTGGATTTCGGGTCCCATTGGG
 CTGGACGGCAAACCGGGCCACCCAGGACCAAGGGCGACATGGGTCTGACGGTCCCCAGGACAGCCGG
 GACCCAGGGACAAAAGGAGAAAAGGTCAGTGTGGAGAGTACCCACACCGGCTGCTGCCTCTCCTCAA
 TTCAGTGCAGCTGGCTCCACCCCGGTATAAAAAGCGGACGTTCCAGGGCGAACAGAGCCAGGCCAGC
 ATCCAAGGTCCACAGGGCCCCAGGCCCTGGACCAAGTGGACCTCTGGGGACCCAGGACTGCCAG
 GGCTATGGGGCCACCTGGCTTACCTGGGCTCTCTGGACCAAGGGAGACCCAGGGATCCAGGGTACCA
 CGGCCGGAAGGGAGAACGGGCATGCCAGGGATGCCAGGCAAGCATGGAGCCAAGGGGGCGCCCGGAATT
 GCCGTGGCTGGGATGAAGGTGAGCCAGGGATCCAGGAACCAAGGGTGAGAAGGGGGCTGAAGGCTCCC
 CTGGGCTTCTGGCCTCTGGGGCAGAAGGGAGAGAAAGGCGATGCTGGCAACTCCATTGGAGGAGGCAG
 AGGGGAACCTGGCCCTCCAGGGCTCCCTGGGCCCCAGGGCCAAAGGGAGAACAGGTGTCGATGGCCAG
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 GACCAAGGGGGAAGCAGGACTAGATGGAGCAAAAGGAGAGAAAGGCTTCCAGGAGAAAAAGGAGACCG
 TGGTCCCCTGGGACTACCGGAGCTTCAGGTTTGGACGGCAGGCCTGGGCCACCGGTACTCCAGGACCA
 ATTGGAGTTCCAGGCCAGCGGACCAAGGGCGAGAGGGCAGCAAAGGAGACCCTGGGATGACAGGAC
 CAACGGGAGCAGCTGGGCTTCTGGTTTACATGGACCACCGGGGACAAGGGAAACCGGGGGAGAGGGG
 GAAGAAAGGCTCTAGAGGCCTAAAGGGGATAAGGGAGACCAAGGAGCGCTGGATTAGATGCCCTCTG
 CCATTGGGCGAAGATGGCTTACAGTCCAAGGCTGCTGGAACAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

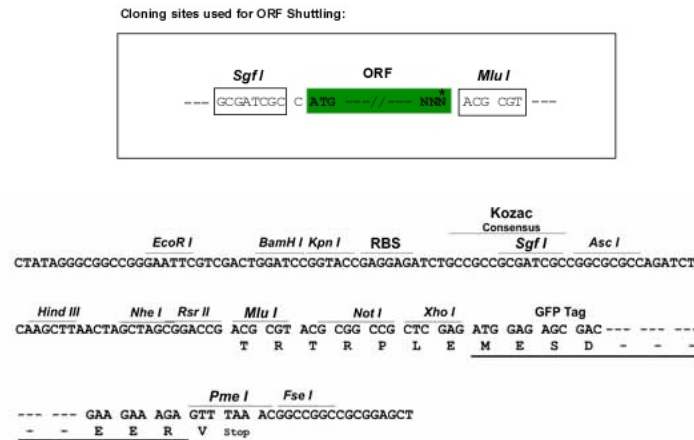
>RG223863 representing NM_080798
 Red=Cloning site Green=Tags(s)

MVAERTHKAAATGARGPGELGAPGTVALVAARAERGARLPSPGSCGLLTLALCSLALSLLAHFRTAELQA
 RVLRLAEERGEQQMETAILEGRVNQLLDEKWLHSRRRREAPKTPSGCNCPPGPPGQPGTRGFPFGPIG
 LDGKPGHPGPKGDMGLTGPPGQPGPQGQKGEKGQCEYPHRLPLLNNSVRLAPPPVIKRRTFQGEQSQAS
 IQGPPGPPGPPGSGPLGHPGLPGMPGPPGLPGPPGPKGDPGIQGYHGRKGERGMPGMPKGHAKGAPGI
 AVAGMKGEPGIPGKGEKGAEGSPGLPGLLGQKGEKGDAGNSIGGGRGEPGPPGLPGPPGPKGEAGVDGQ
 VGPPGQPGDKGERGAAGEQGPDPGPKGSKGEPGKGMVDYNGNINEALQEIRTLALMGPPGLPGQIGPPGA
 PGIPGQKGEIGLPGPPGHDGEKGPGRKPGDMGPPGQPPGKDGPPGVKGENGHPGSPGEKGEKGETGQA
 GSPVPGLPGPEGPPGPPGLQGVPGPKGEAGLDGAKGEKGFQGEKGDRGPLGLPGASGLDGRPGPPGTPGP
 IGVPGPAGPKGERGSKGDPGMTGPTGAAGLPGLHGPPGDKGNRGERGKKGSRGPKGDKGQDQAPGLDAPC
 PLGEDGLPVQCWNK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080798

ORF Size: 1935 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_080798.4](#)

RefSeq Size: 2921 bp

RefSeq ORF: 1938 bp

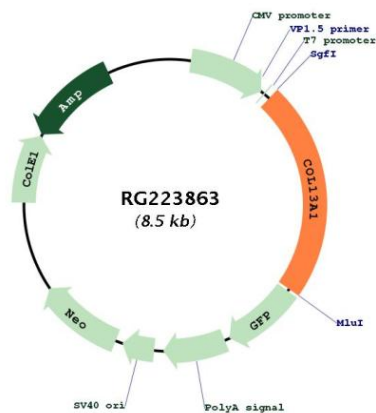
Locus ID: 1305

UniProt ID: [Q5TAT6](#)

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 RG223863