

Product datasheet for **SC305840**

COL13A1 (NM_080800) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL13A1 (NM_080800) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL13A1
Synonyms:	CMS19; COLXIIIA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC305840 representing NM_080800.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTAGCGGAGCGCACCCACAAAGCGGCAGCCACCGGTGCCCGCGGCCCTGGGGAGTTGGGCGCGCCC
GGGACGGTGGCTCTGGTGGCGCGCGGGGAGCGCGGCACGGCTGCCGAGTCCAGGGTCGTGCGGG
CTGCTGACGCTGGCCCTCTGCTCGCTGGCACTCAGCCTGCTCGCCCACTTTCGGACGGCCGAGCTGCAG
GCCCGGGTGTGCGCCTGGAAGCGGAGCGCGGGGAGCAGCAAATGGAGACGGCTATTTTGGGACGAGTC
AATCAACTGCTGGACGAGAAATGGAAGCTCCACTCAAGGAGGCGCCGGGAGGCCCAAAGACATCTCCA
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CCTGGTCAACCAGGAAGTAGAGTTTCCCTGGATTTCCGGGTCCCATTGGGCTGGACGGCAAACCGGGC
CACCCAGGACAAAGGGGACATGGGTCTGACGGTCCCCAGGACAGCCGGGACCCAGGGACAAAAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_080800

Insert Size: 2061 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	<u>NM_080800.3</u>
RefSeq Size:	3044 bp
RefSeq ORF:	2061 bp
Locus ID:	1305
UniProt ID:	<u>Q5TAT6</u>
Cytogenetics:	10q22.1
MW:	66.9 kDa
Gene Summary:	<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> <p>Transcript Variant: This variant (11) does not contain exon 12 and 33, based on the exon numbering used in PMID: 1894651. Isoform 11 lacks two internal segments, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on data from PMID: 1894651. CCDS Note: The coding region has been updated to represent an alternative splicing pattern that is more supported by the available transcript and protein data. There are no publicly available full-length transcripts representing this CCDS, but it is supported by the E-12 cDNA described in PMID:1698771.</p>