

Product datasheet for **SC309082**

COL11A1 (NM_080630) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: COL11A1 (NM_080630) Human Untagged Clone
Tag: Tag Free
Symbol: COL11A1
Synonyms: CO11A1; COLL6; DFNA37; STL2
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_080630, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCCGTGGTCTCTAGGTGGAAAACGAAACGGTGGCTCTGGGATTTACCCGTAACA
ACCCTCGCATTGACCTTCTCTTCCAAGCTAGAGAGGTCAGAGGAGCTGCTCCAGTTGAT
GTACTAAAAGCACTAGATTTTCAACAATTCTCCAGAGGGAATATCAAAAACAACGGGATTT
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CAACTCAGTGCCCAACAAAACAGTTATTTCCAGGTGGAACCTTTCCAGAAGACTTTTCA
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CCTCAAGGTCCTCCAGGTCCTCCTGGTGATGATGGAATGAGGGGAGAAGATGGAGAAATT
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 CCAGGAGCTCCAGGGCAGCCTGGTATGGCAGGTGTAGATGGCCCCCAGGACCAAAAGGG
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 ATGTTGATGTCATGATCAATGACTTTGGTGATCAGAATCAGAAGTTCGGATTTGAAGTT
 GTCCTGTTTGTCTTCTGGCTAA

Restriction Sites:	Please inquire
ACCN:	NM_080630
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_080630.1</u> , <u>NP_542197.1</u>
RefSeq Size:	6202 bp
RefSeq ORF:	5304 bp
Locus ID:	1301
UniProt ID:	<u>P12107</u>
Cytogenetics:	1p21.1
Protein Pathways:	ECM-receptor interaction, Focal adhesion

Gene Summary:

This gene encodes one of the two alpha chains of type XI collagen, a minor fibrillar collagen. Type XI collagen is a heterotrimer but the third alpha chain is a post-translationally modified alpha 1 type II chain. Mutations in this gene are associated with type II Stickler syndrome and with Marshall syndrome. A single-nucleotide polymorphism in this gene is also associated with susceptibility to lumbar disc herniation. Multiple transcript variants have been identified for this gene. [provided by RefSeq, Nov 2009]

Transcript Variant: This variant (C, previously referred to as D) includes alternate exon 6A but lacks two other alternate exons, resulting in the loss of an in-frame segment in the coding region, compared to variant A. The encoded isoform (C, previously referred to as D) is shorter than isoform A. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.