

Product datasheet for **SC305808**

COL12A1 (NM_080645) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL12A1 (NM_080645) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL12A1
Synonyms:	BA209D8.1; BTHLM2; COL12A1L; DJ234P15.1; EDSMYP; UCMD2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080645, the custom clone sequence may differ by one or more nucleotides

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ATGCGGAGTAGGCTTCCCCAGCGCTTGCCGCCCTGGGCGGGCCCTGCTCCTGTCTTCC
ATTGAGGCAGAAGGGATGGAGTGTCTACCAGAGCTGAGGCAGACATTGTGTTGCTGGT
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CCTATCTTAACAACAACAAGCTCCCAAAAGTGGCCACGAAACCTTCAAGTGTACAATGCA
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GATTCTTCTCAGTGTGCCAGCATCCATACAACGGGAAGGCTATCCAGGTTCCGGCTAA

Restriction Sites:	Please inquire
ACCN:	NM_080645
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:	NM_080645.1 , NP_542376.1
RefSeq Size:	8062 bp
RefSeq ORF:	5700 bp
Locus ID:	1303
UniProt ID:	Q99715
Cytogenetics:	6q13-q14.1

Gene Summary:

This gene encodes the alpha chain of type XII collagen, a member of the FACIT (fibril-associated collagens with interrupted triple helices) collagen family. Type XII collagen is a homotrimer found in association with type I collagen, an association that is thought to modify the interactions between collagen I fibrils and the surrounding matrix. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (short) lacks multiple exons in the 5' coding region compared to the long variant. The encoded isoform (short) is shorter but has identical N-and C-termini compared to the long isoform.