

Product datasheet for **SC324041**

Collagen VI (COL6A2) (NM_001849) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen VI (COL6A2) (NM_001849) Human Untagged Clone
Tag:	Tag Free
Symbol:	Collagen VI
Synonyms:	BTHLM1; PP3610; UCMD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001849.3
 CGCGCCTCGGGCCGTCCGGAGCGGAGCCTCCTCGGGACCAGGACTTCAGGGCCACAGGTG
 CTGCCAAGATGCTCCAGGGCACCTGCTCCGTGCTCCTGCTCTGGGAATCCTGGGGCCA
 TCCAGGCCCAGCAGCAGGAGGTATCTCGCCGGACACTACCGAGAGAAACAACAAGTCC
 CAGAGAAGACCGACTGCCCATCCACGTGTAATTCGTGCTGGACACCTCGGAGAGCGTCA
 CCATGCAGTCCCCACGGACATCCTGCTTCCACATGAAGCAGTTCGTGCCGAGTTCA
 TCAGCCAGCTGCAGAACGAGTTTACCTGGACCAGGTGGCGCTGAGCTGGCGCTACGGCG
 GCCTGCACTTCTCTGACCAGGTGGAGGTGTTACGCCACCGGGCAGCGACCGGGCCTCT
 TCATCAAGAACCTGCAGGGCATCAGCTCCTTCCGCGCGGCACCTTACCAGACTGCGCGC
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GTGGAGACTCAGGACAGCCAGGCCCAAGGGAGACCCCGGCAGGCCTGGATTGAGCTACC
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CCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A

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- Restriction Sites:** ECoRI-NOT
- ACCN:** NM_001849
- 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:

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_001849.3](#), [NP_001840.3](#)

RefSeq Size: 3455 bp

RefSeq ORF: 3060 bp

Locus ID: 1292

UniProt ID: [P12110](#)

Cytogenetics: 21q22.3

Protein Families: Secreted Protein

Protein Pathways: ECM-receptor interaction, Focal adhesion

Gene Summary: This gene encodes one of the three alpha chains of type VI collagen, a beaded filament collagen found in most connective tissues. The product of this gene contains several domains similar to von Willebrand Factor type A domains. These domains have been shown to bind extracellular matrix proteins, an interaction that explains the importance of this collagen in organizing matrix components. Mutations in this gene are associated with Bethlem myopathy and Ullrich scleroatonic muscular dystrophy. Three transcript variants have been identified for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2C2), that differs from the other variants in the last exon, encodes the full-length protein.