

## Product datasheet for **SC122237**

### Collagen VI (COL6A2) (BC002484) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen VI (COL6A2) (BC002484) Human Untagged Clone
Tag:	Tag Free
Symbol:	Collagen VI
Synonyms:	alpha 2 type VI collagen; collagen, type VI, alpha 2; collagen alpha-2(VI) chain; collagen VI, alpha-2 polypeptide; DKFZp586E1322; FLJ46862; human mRNA for collagen VI alpha-2 C-terminal globular domain; OTTHUMP00000115569; PP3610
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for BC002484 edited  
 GGCACGAGGGTCCCAGGACCCGAGGGTGTAGCCCGCCCCCTGGAGAAAAAGGCGAGCCC  
 GGCCACGCGGCCCGAGGGAGGCCGAGGCGACTTTGGCTTAAAAGGAGAACCTGGGAGG  
 AAAGGAGAGAAAGGAGAGCCTGCGGATCCTGGTCCCCCTGGTGTAGCCAGGCCCTCGGGGA  
 GTGTGACGTGATGACCTACGTGAGGGAGACCTGCGGGTGTGCGACTGTGAGAAGCGCTG  
 TGCGCCCTGGACGTGGTCTTCGTATCGACAGCTCCGAGAGCATTGGGTACACCAACTT  
 CACACTGGAGAAGAACTTCGTATCAACGTGGTCAACAGGCTGGGTGCCATCGCTAAGGA  
 CCCAAGTCCGAGACAGGACGCGTGTGGCGTGGTGCAGTACAGCCACGAGGGCACCTT  
 TGAGGCCATCCAGCTGGACGACGAACATATCGACTCCCTGTGAGCTTCAAGGAGCTGT  
 CAAGAACCTCGAGTGGATTGAGGTGGCACCTGGACACCCTCAGCCCTCAAGTTTGCCTA  
 CGACCGCCTCATCAAGGAGAGCCGGCGCCAGAAGACACGTGTGTTTGGGTAGTCATCAC  
 GGACGGGCGCCACGACCCTCGGGACGATGACCTCAACTTGGGGCGCTGTGCGACCCGGA  
 CGTCACAGTGACGGCCATCGGCATCGGGACATGTTCCACGAGAAGCACGAGAGTAAAA  
 CCTTACTCCATCGCTGCGACAAGCCACAGCAGGTGCGCAACATGACGCTGTTCTCGA  
 CCTGGTGCCTGAGAAGTTCATCGATGACATGGAGGACGCTCTCTGCCCGACCCTCAGAT  
 CGTGTGCCAGACCTTCCCTGCCAACAGAGCTGTCCGTGGCACAGTGCACGCAGCGGCC  
 CGTGGACATCGTCTTCTGCTGGACGGCTCCGAGCGGCTGGGTGAGCAGAACTTCCACAA  
 GGCCCGCGCTTTCGTGGAGCAGGTGGCGCGCGGCTGACGCTGGCCCGAGGGACGACGA  
 CCCTCTCAACGCACGCGTGGCGCTGCTGCAAGTTTGGTGGCCCCGGCGAGCAGAGTGGC  
 CTTCCCGCTGAGCCACAACCTCACGGCCATCCACGAGGCGCTGGAGACCACAAATACCT  
 GAACCTCTTCGACAGTGGGCGCAGGCGTGGTGCACGCCATCAATGCCATCGTGCAGC  
 CCCGCTGGCGGGGCCCGAGGACGACGAGCTGCTTTCGTGTTCTCACGGACGGCGT  
 CACGGCAACGACAGTCTGCACGAGTCCGCGCACTCCATGCGCAAGCAGAACTGGTACC  
 CACCGTGTGGCCTTGGGACGCGACGTGGACATGGACGTGCTCACCACGCTCAGCCTGGG  
 TGACCGCGCCCGCTGTTCCACGAGAAGGACTATGACAGCCTGGCGCAACCCGGCTTCTT  
 CGACCGCTTTCATCCGCTGGATCTGCTAGCGCCCGCCCGGGCCCCCGAGTTCGAGGGTGC  
 TGAGCCCCACCCGTCATGGTGTAAAGCGGGCCCGGGTCCACACGGCCAGCACCCTGCT  
 TCACTCGGACGACGCCCTGGGCTGCACCTCTCCAGCTCTCCACGGGGTCCCCGTAGC  
 CCCGGCCCCCGCCAGCCCCAGGCTCTCCCAGGCCCTCCGAGGCTGCCCGGCTCCCTC  
 CCCCTGCAGCCATCCCAAGGCTCTGACCTACCTGGCCCTGAGCTCTGGAGCAAGCCCT  
 GACCCAATAAAGGCTTTGAACCCATAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC002484 unedited  
 NAATGTACAACATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGTCC  
 CAGGACCCGAGGGTGTAGCCCGGCCCTGGAGAAAAAGCGAGCCCGGCCACGCGGCC  
 CGAGGGAGGCCGAGGCGACTTTGGCTTAAAAGGAGAACCTGGGAGGAAAGGAGAGAAAGG  
 AGAGCCTGCGGATCCTGGTCCCCCTGGTGTAGCCAGGCCCTCGGGGAGTGTGACGTATGA  
 CCTACGTGAGGGAGACCTGCGGGTGTGCGACTGTGAGAAGCGCTGTGGCGCCCTGGACG  
 TGGTCTTCGTATCGACAGCTCCGAGAGCATTGGGTACACCAACTTCACTGGAGAAGA  
 ACTTCGTATCAACGTGGTCAACAGGCTGGGTGCCATCGCTAAGGACCCCAAGTCCGAGA  
 CAGGGACGCGTGTGGCGTGGTGCAGTACAGCCACGAGGGCACCTTTGAGGCCATCCAGC  
 TGGACGACGAACATATCGACTCCCTGTGAGCTTCAAGGAGGCTGTCAAGAACCTCGAGT  
 GGATTGACAGTGGCACCTGGACACCCTCAGCCCTCAAGTTTGCCTACGACCGCCTCATCA  
 AGGAGAGCCGGCGCCAGAAGACAGTGTGTTTGGGTAGTCATCACGGACGGGCGCCACG  
 ACCCTCGGACGATGACCTCAACTTGGGGCGCTGTGCGACCGCGACGTACAGTACAGG  
 CCATCGGCATCGGGACATGTTCCACGAGAAGCACGAGAGTAAAACTTACTCCATCG  
 CCTGCGACAAGCCACAGCATGTGCGCAACATGACGCTGTTCTCCGACCTGGTTCGTTGAGA  
 AGTTCATCGATGACATGGAGGACGCTCTCTGCCCGACCCTCATATCGTGTGCCCC

**Restriction Sites:** Please inquire  
**ACCN:** BC002484  
**Insert Size:** 1783 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC002484.1</a> , <a href="#">AAH02484.1</a>
<b>RefSeq Size:</b>	1783 bp
<b>Locus ID:</b>	1292
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion
<b>Gene Summary:</b>	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]