

## Product datasheet for **SC300082**

### Collagen XVII (COL17A1) (NM\_000494) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Collagen XVII (COL17A1) (NM\_000494) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Collagen XVII  
**Synonyms:** BA16H23.2; BP180; BPA-2; BPAG2; EBR2A; ERED; JEB-I; LAD-1  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000494 edited  
AACCAGGTGGCTATGGTATGGATGTAACCAAGAAAAACAAACGAGATGGAAGTCA  
CTGAGAGAATTGCACTGAAACAGTAACCACAAGACTTACATCCTTACCACAAAAGGCG  
GGACCAGCAATGGCTATGCTAAAACAGCCTCTCTTGGTGGAGGGAGCCGGCTGGAGAAAC  
AAAGCCTGACTCATGGCAGCAGCGGCTACATAAACTCAACTGGAAGCACACGAGGCCATG  
CCTCCACCTCTAGTTACAGGAGGGCTCACTCACCTGCCTCCACTCTGCCAACTCCCCAG  
GCTCAACCTTTGAAAGGAAAACTCACGTTACCCGCCATGCGTATGAAGGGAGCTCCAGTG  
GCAACTCTTCCGGAGTACCCTCGGAAGGAATTTGCATCTTCTCAACCAGAGGACGGA  
GTCAAACACGAGAGAGTAAATTCGAGTTCGACTGCAGAGTGCCTCCCATCCACCCGAT  
GGACAGAATTGGATGATGTTAAGCGTTTGTCAAGGGGAGTGCATCGGCAAGTGTGAGCC  
CCACCCGGAATTCCTCAACACACTCCCATCCCAAGAAAGGCACTGTGGAGACCAAAA  
TTGTGACAGCGAGCTCCAGTCGGTGTACAGGCACCTACGATGCAATGATCCTGGATGCCA  
ACCTTCCCTCCATGTGTGGTCCCTCCACCCTGCCCGCGGGTCCCTCCATGGGGACCTATC  
ACAACAACATGACAACCCAGAGCTCATCCCTCCTCAACACCAATGCCTACTCTGCGGGAT  
CAGTCTTCGGAGTTCCAAACAACATGGCGTCTGCTCACCCACTTTGACCCTGGACTCA  
GCACATCCTCCTCAGTGTGTTGGCATGCAGAACTCTGGCCCCAGCTTGACCACCCTGT  
CCCATGGCACCACCACCTCCACAGCATATGGGGTGAAGAAAAACATGCCCCAGATC  
CTGCGGCTGTGAACACTGGCGTTTCCACCTCCGCCCTGCACCACAAGTGTGCAGAGCG  
ATGACCTTTTGCACAAGGACTGCAAGTTCCTGATCCTAGAGAAAGACAACACACCTGCTA  
AGAAGGAGATGGAGCTGCTCATCATGACCAAGGACAGCGGGAAGTCTTTACAGCCTCCC  
CTGCCAGCATCGCTGCAACTTCTTTTTCAGAAAGACCCCTAAAAAAGAAAAGCAAGCTG  
CCTACAATGCTGACTCAGGCCTAAAAGCCGAAGCTAATGGAGACCTGAAGACTGTGTCCA  
CAAAGGGCAAGACCACCCTGCAGATATCCACAGCTACAGCAGCAGTGGTGGTGGCA  
GTGGAGGAGGTGGCGGTGTTGGTGGCGCTGGCGGCGGCCCTTGGGGACCAGCGCCAGCCT  
GGTGCCCTGCGGCTCCTGCTGCAGCTGGTGGAAAGTGGCTGCTGGGCCTGCTGCTCACCT  
GGCTGCTACTCCTGGGGCTGCTCTTCGGCCTATTGCTCTGGCGGAGGAGGTGAGGAAGC  
TGAAGGCGGTGTGGATGAGCTGGAGAGGATCAGGAGGAGCATACTGCCCTATGGGGACA



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GCATGGATAGAATAGAAAAGGACCGCCTCCAGGGCATGGCACCCCGCGGGGAGCAGACC  
TGGACAAAATTGGGCTGCACAGTGACAGCCAGGAGGAGCTCTGGATGTTTCGTGAGGAAGA  
AGCTAATGATGGAACAGGAAAATGGAAATCTCCGAGGAAGCCCTGGCCCTAAAGGTGACA  
TGGGAAGTCCAGGCCCTAAAGGAGATCGAGGGTTCCTGGGACTCCAGGTATCCCTGGGC  
CCTTGGGCCACCCAGGTCCACAAGGACCAAGGGTCAAAAAGGCAGCGTGGGAGATCCTG  
GCATGGAAGGCCCATGGGCCAGAGAGGGCGAGAAGGCCCATGGGACCTCGTGGTGAGG  
CAGGGCTCCTGGATCTGGAGAGAAAAGGGGAAAGAGGGGTCTGGTGAACCAGGTCCTC  
ATGGCCACCTGGTGTCCAGGTTCTGTGGGTCCCAAAGGTTCCAGCGGCTCTCCTGGCC  
CACAGGGCCCTCCAGGTCCTGTAGTCTCCAAGGGCTCCGAGGTGAAGTAGGACTTCCTG  
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AAGGACCTCGAGGCCTCACAGGCGAGCCTGGCATGAGAGGTTTGCCTGGTGTGTTGGTG  
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TACAAGTCCCCAGGCCACCCGGCCACGCGGGCCACCAGGGCCTTCCATTCCAGGCC  
CACCAGGACCCGAGGCCACCAGGGGAGGGTTTGCAGGCCACCAGGCCACCAGGAT  
CGTTCTGTCCAACCTCAGAAACCTTCTCTCCGGCCCCAGGCCACCTGGCCCCCAG  
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TCGACTACTCAGAGCTGGCAAGCCACGTTGTGAGCTACTACGGACTTCGGGTACGGTG  
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ACGTGCGTCAGTACCTACGTCACTTGTGAGGCTCCGGGTCCGCCAGGGCCACCAG  
GAGCCAGTGGAGATGGGTCCCTCTGTCTTTGGACTATGCAGAGCTGAGTAGTCGCATTC  
TCAGTACATGTGAGTCTGGGATCAGCATTGGGCTTCTGGTCCCCCGGGGCCCTG  
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GCATCGTTGGACCCCAAGTCCCCGGGTCCACCAGGGATCCCAGGCAATGTGTGGTCCA  
GCATCAGCGTGGAGGACCTCTCGTCTTACTTACATACTGCCGGCTGTCAATTCATCCAG  
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TGGCAACCTATGCAGCTGAAAACAGCGACAGCTTCCGGAGCGAGCTGATCAGTACCTCA  
CAAGTCTGATGTGCGCAGCTTCAATGTTGGCCCCCAGGCCCTCCTGGCCGCAGGGAC  
CCCCGGGGACAGCCGCTCCTGTCCACGGATGCCTCCACAGTCGGGGTAGCAGTCTCCT  
CCTCACACAGCTCATCTGTGAGGCGGGCAGCTCCTACAGCTTCCATGAGCACAGGAG  
GAGGTGGTGCAGGCTCCCTGGGTGCAGGCGGTGCCTTTGGTGAAGCTGCAGGAGACAGGG  
GTCCCTATGGCACTGACATCGGCCAGGCGGAGGCTATGGGGCAGCAGCAGAAGCGGCA  
TGTATGCTGGCAATGGCGGACTATTGGGAGCTGACTTTGCTGGAGATCTGGATTACAATG  
AGCTGGCTGTGAGGGTGTGAGAGCATGCAGCGTCAGGGCTACTGCAAGGGATGGCT  
ACACTGTCCAGGGCCACCAGGCCAGCTGGGCCACAGGGGCCACCCGGCATCAGCAAGG  
TCTTCTCTGCCTACAGCAACGTGACTGCGGACCTCATGGACTTCTTCAAACCTTATGGAG  
CCATTCAAGGACCCCTGGGCAAAAAGGAGAGATGGGCACTCCAGGACCCAAAGGTGACA  
GGGCCCTGCTGGCCACCAGGTATCCTGGGCCACCTGGCCCTCGAGGACACAAGGGAG  
AAAAGGAGACAAAGGTGACCAAGTCTATGCTGGCGGAGAAGGAGAAGAAGTATTGCTG  
TCAAGCCGTGAGCTAGCCATGGCAGGACAGCTCCTGGACCAGGTCTCATAATGCATGTGG  
CACTTAGGTCCAAGGTCTCCAGAGGGTGAAGCTGGAGTCTGTAATGTCTACTGAGAC  
AGCACAGCCAACCTAGCTAGCAACATTTGTTTTAGTCTGAACAATATATACTTATAGAAT

TCAGTCAAAGATACACAATCTGAAACAGCTTCATGGGGTGGACTCTAACAGTAGTTGCAA  
 TGTTTTAGAATGAGACTTACTTCTCTGCTATCTAGATCTGAACCTTGGCTTCTTACT  
 TAGTTCAAGCCCCAGCCTAGGAAAGCCAGTTACATAAAAGTTGGCTCAGGAGTCTTAGAG  
 CTTTACCTAAATAGAGCCAGAAAACGGAGGATGGGGTGGGGCCCTTCTGGAGGTGA  
 CACTTGATGGGGTGTGTCTGGTACTGTTCTAAGGCTGTGCCATCAGCTCCTTCTCC  
 CCTGTTCACTCTGCATTCTAGTCAGTTGGCTAAGAAGTGACTTTGCAACTAAAAAAA  
 TTAAGAAATTCACTTCCCCTCTAGGAGGTGATGATAGGGTTTCTAATGGTTATATGTATA  
 TCACATTCCTTGTCTAGAAAGTCTGATTGTAGCTATGATTGTCCGTAGGCCATACT  
 AGAGTTTATGGATATGTTATACTGAACAGGCCAGAGCAAACAGAAAAAGAGTTGAGG  
 GCAATGGACAAGGAAGGAATAAAGGGAGAAGAGGGAAAACAGAAAACCTGATGCTGGGA  
 CACAGCATCAGCTCAAGACGTCACCCTCATTCTGCACTCAGAAAATGGCACTTGGGGGA  
 CTGGGCGCAGTTGGTCTTAACCACTTTTCAATGTCTAAAAACATTTGTTTGGTCTAT  
 AAGATGAAACATCATTTCATCGTAAAAATTTCCATTAAGAAGTTTTTTTTCTAATAA  
 AAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000494 unedited  
 GTACAAATTTGTAACGACTCATATAGCGGCCGCCAGTGTGAGGNAATCTGCAGAATTC  
 GCCCTTAACAGGTGGCTATGGTATGGATGTAACCAAGNAAAAACAAACGAGATGGAAC  
 TGAAGTCACTGAGAGAATTGTCAGTAAACAGTAACCAAGACTTACATCCTTACCACC  
 AAAAGCGGACCAGCAATGGCTATGCTAAAACAGCCTCTCTTGGTGGAGGGAGCCGGCTG  
 GAGAAAACAAAGCCTGACTCATGGCAGCAGCGGCTACATAAACTCACTGGAAGCACACGA  
 GGCCATGCCTCCACTTAGTTACAGGAGGGCTCACTCACCTGCCTCCACTTGCCCAAC  
 TCCCCAGGCTCAACCTTTGAAAGGAAAACCTCACGTTACCCGCCATGCGTATGAAGGGAGC  
 TCCAGTGGCAACTCTTCTCCGGAGTACCCTCGGAAGGAATTTGCATCTTCTTCAACCAGA  
 GGACGGAGTCAAACACGAGAGAGTAAAATTCGAGTTGACTGCAGAGTGCCTCCCATCC  
 ACCCGATGGACAGAAATGGATGATGTTAAGCGTTTGTCAAGGGGAGTCGATCGGCAAGT  
 GTGAGCCCCACCCGGAATTCCTCCAACACACTCCCCATCCCCAAGAAAGGCACTGTGGAG  
 ACCAAAATTTGTGACAGCGAGCTCCCACTCNGTGTGAGGACCTACGATGCAATGATCCTG  
 GATGCCAACCTTCCCTCCCATGTGTGGTCTCCACCCTGCCCGGGGTCTCCATGGGG  
 ACCTATCACAACAACCTGACAACCCAGAGCTCATCCCTCCT

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_000494 unedited  
 AGNAAAGCACTGGGNGAGGTCACAGGNATGCCACCCGGGATCTGTTTCAGGAAACAGCTA  
 TGACCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTAGAAAAAAA  
 CTTCTTTAATGGGAAATTTACGATTGAAATGATGTTTCATCTTATAGACCACAAACAA  
 GTTTTTAGACATTGAAAAGTGGTTAAAGACCAACTGCGCCAGTCCCCAAGTGCCATT  
 TTCTGAGTGCAGAATGGAGGGTACGCTTTGAGCTGATGCTGTGTCCCCAGCATCAGGTT  
 TTCTGTTTTCCCTCTTCCCTTTATTCCCTTCTTGTCCATTGCCCTCAACCTTCTTTTT  
 CTGTTTGTCTGGCCTGGTTTCAGTATAACATATCCATGAACTCTAGTATGGGCCTACGGA  
 CAATCATAGCTACAATCAGACTTTCTAAGCAAATGGGAATGTGATATACATATAACCATT  
 AGAAACCCATATCATCACCCTAGAGGGGAAGTGAATTTCTTAATTTTTTTAGTTGCAAG  
 AGTCACTTCTTAGCCAAGTACTAGAGAATGCAGAATGAACAGGGGAGGAAGGAGCTGAT  
 GGCACAGCCTTAGAACAGTAACCAAGAACACACCCCATCAAGTGTACCTCCAGGAAGGC  
 GCCCACCCCATCCTCCGTTTTCTGGGCTCTATTTAGGTAAAGCTTAAGACTCCTGAG  
 CCAACTTTTATGTAAGTGGCTTTCTAGGCTGGGGCTTGAAGTAAAGAAAGCAAGG  
 AGTTTCAGATCTAGATAGCAGAGAAGTAAAGTCTCATTCTAAAACATTGCAACTACTGTTAG  
 AGTCCACCCATGAAGCTGTTTCAGATT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_000494

**Insert Size:**

5500 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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>	<u><a href="#">NM_000494.2</a></u> , <u><a href="#">NP_000485.2</a></u>
<b>RefSeq Size:</b>	5610 bp
<b>RefSeq ORF:</b>	4494 bp
<b>Locus ID:</b>	1308
<b>UniProt ID:</b>	<u><a href="#">Q9UMD9</a></u>
<b>Cytogenetics:</b>	10q25.1
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	This gene encodes the alpha chain of type XVII collagen. Unlike most collagens, collagen XVII is a transmembrane protein. Collagen XVII is a structural component of hemidesmosomes, multiprotein complexes at the dermal-epidermal basement membrane zone that mediate adhesion of keratinocytes to the underlying membrane. Mutations in this gene are associated with both generalized atrophic benign and junctional epidermolysis bullosa. Two homotrimeric forms of type XVII collagen exist. The full length form is the transmembrane protein. A soluble form, referred to as either ectodomain or LAD-1, is generated by proteolytic processing of the full length form. [provided by RefSeq, Jul 2008]