

Product datasheet for **SC122236**

Collagen II (COL2A1) (BC007252) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen II (COL2A1) (BC007252) Human Untagged Clone
Tag:	Tag Free
Symbol:	Collagen II
Synonyms:	ANFH; AOM; cartilage collagen; chondrocalcin; COL11A3; collagen, type II, alpha 1; collagen II, alpha-1 polypeptide; MGC131516; OTTHUMP00000195063; SEDC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC007252 edited
 CCAGGGTCCTCAAGGCCCCAGAGGTGACAAAGGAGAGGCTGGAGAGCCTGGCGAGAGAGG
 CCTGAAGGGACACCGTGGCTTCACTGGTCTGCAGGGTCTGCCCGGCCCTCCTGGTCTTC
 TGGAGACCAAGGTGCTTCTGGTCTGCTGGTCTTCTGGCCCTAGAGGTCTCCTGGCCC
 CGTCGGTCCCTCTGGCAAAGATGGTCTAATGGAATCCCTGGCCCCATTGGGCTCCTGG
 TCCCCGTGGACGATCAGGCGAAACCGCCTGCTGGTCTCCTGGAATCCTGGACCCCT
 GGTCTCCAGTCCCCCTGGCCCTGGCATCGACATGCGCCCTTGTGGCTTAGGCCCG
 AGAGAGAAGGGCCCCGACCCCTGCAGTACATGCGGGCCGACCAGGCAGCCGGTGGCCTG
 AGACAGCATGACGCCGAGGTGGATGCCACACTCAAGTCCCTCAACAACCAGATTGAGAGC
 ATCCGCAGCCCCGAGGGCTCCCGCAAGAACCCTGCTCGCACCTGCAGAGACCTGAAACTC
 TGCCACCCTGAGTGAAGAGTGGAGACTACTGGATTGACCCCAACCAAGGCTGCACCTTG
 GACGCCATGAAGTTTTCTGCAACATGGAGACTGGCGAGACTTGGCTCTACCCCAATCCA
 GCAAACGTTCCCAAGAAGAACTGGTGGAGCAGCAAGAGCAAGGAGAAGAAACACATCTGG
 TTTGGAGAAACCATCAATGGTGGCTTCCATTTTCAGCTATGGAGATGACAATCTGGCTCCC
 AACACTGCCAACGTCCAGATGACCTTCTACGCCTGCTGTCCACGGAAGGCTCCCAGAAC
 ATCACCTACCACTGCAAGAACAGCATTGCCTATCTGGACGAAGCAGCTGGCAACCTCAAG
 AAGGCCCTGCTCATCCAGGGCTCCAATGACGTGGAGATCCGGGCAGAGGGCAATAGCAGG
 TTCACGTACACTGCCCTGAAGGATGGCTGCACGAAACATACCGGTAAGTGGGGCAAGACT
 GTTATCGAGTACCGGTACAGAAAGACCTCACGCCTCCCATCATTGACATTGCACCCATG
 GACATAGGAGGGCCCGAGCAGGAATTCGGTGTGGACATAGGGCCGGTCTGCTTCTGTAA
 AAACCTGAACCCAGAAACAACAATCCGTTGCAAACCCAAAGGACCCAAAGTACTTTCCA
 ATCTCAGTCACTTAGGACTCTGCACTGAATGGCTGACCTGACCTGATGTCCATTATCC
 CACCCTCACAGTTCGGACTTTTCTCCCTCTTTCTAAGAGACCTGAACTGGGCAGA
 CTGCAAAAATAAAATCTCGGTGTTCTATTTATTTATTTGCTTCTGTAAGACCTTCGGGTC
 AAGGCAGAGGCAGAACTAACTGGTGTGAGTCAATGCCCCCTGAGTACTGCCCCAG
 CCCAGGCCAGAAGACCTCCCTTCAGGTGCCGGCGCAGGAACTGTGTGTCTCTACACAA
 TGGTGTCTATTCTGTGTCAAACACCTCTGTATTTTTTAAACATCAATTGATATTAATAA
 GAAAAGATTATTGAAAGTAAA
 A

5' Read Nucleotide Sequence: >OriGene 5' read for BC007252 unedited
 NNTTCCCAGACAAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCCA
 GGGTCTCAAGGCCCCAGAGGTGACAAAGGAGAGGCTGGAGAGCCTGGCGAGAGAGGCCCT
 GAAGGGACACCGTGGCTTCACTGGTCTGCAGGGTCTGCCCGGCCCTCCTGGTCTTCTGG
 AGACCAAGGTGCTTCTGGTCTGCTGGTCTTCTGGCCCTAGAGGTCTCCTGGCCCCGT
 CGGTCCCTCTGGCAAAGATGGTCTAATGGAATCCCTGGCCCCATTGGGCTCCTGGTCC
 CCGTGGACGATCAGGCGAAACCGCCTGCTGGTCTCCTGGAATCCTGGACCCCTGGT
 CCTCCAGGTCCCCTGGCCCTGGCATCGACATGTCGCCCTTTGCTGGCTTAGGCCGAGA
 GAGAAGGGCCCCGACCCCTGCAGTACATGCGGGCCGACCAGGCAGCCGGTGGCTGAGA
 CAGCATGACGCCGAGGTGGATGCCACACTCAAGTCCCTCAACAACCAGATTGAGAGCATC
 CGCAGCCCCGAGGGCTCCCGCAAGAACCCTGCTCGCACCTGCAGAGACCTGAAACTCTGC
 CACCCTGAGTGAAGAGTGGAGACTACTGGATTGACCCCAACCAAGGCTGCACCTTGGAC
 GCCATGAAGTTTTCTGCAACATGGAGACTGGCGAGACTTGCCTTACCCCAATCCAGCA
 AACGTTCCCAAGAAGAACTGGTGGAGCAGCAAGAGCAAGGAGAAGAAACACATCTGGTTT
 GGAGAAACCATCAATGGTGGCTTCCATTTTCAGCTATGGAGATGACAATCTGGCTCCCCAC
 ACTGCCAACGTCCAGATGACCTTCTACGCCTGCTGTCCACGAAAGGCTCCAGAACAT
 CACCTA

Restriction Sites: Please inquire

ACCN: BC007252

Insert Size: 1621 bp

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).
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:	BC007252.1 , AAH07252.1
RefSeq Size:	1621 bp
Locus ID:	1280
Cytogenetics:	12q13.11
Protein Pathways:	ECM-receptor interaction, Focal adhesion
Gene Summary:	This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene. [provided by RefSeq, Jul 2008]