

Product datasheet for **SC326861**

Collagen XI alpha 2 (COL11A2) (NM_001163771) Human Untagged Clone

Product data:

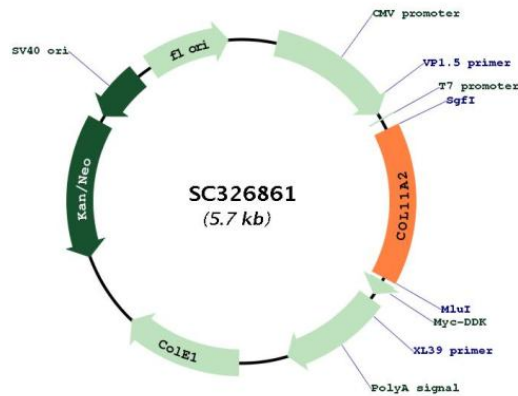
Product Type:	Expression Plasmids
Product Name:	Collagen XI alpha 2 (COL11A2) (NM_001163771) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL11A2
Synonyms:	DFNA13; DFNB53; FBCG2; HKE5; OSMEDA; OSMEDB; PARP; STL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326861 representing NM_001163771. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGGAGCGGTGCAGCCGCTGCCATCGCCTCCTCCTCCTACCTCTGGTCTGGGGCTGAGCGCGGCC
CCAGGCTGGGCAGGTGCACCCCTGTGGATGTGCTCCGGGCCCTGAGGTTCCCTCCCTCCTGATGGT
GTCCGGAGAGCGAAAGGCATCTGTCCAGCTGATGTGGCTACCGAGTGGCAGCAGCTGCCAGCTCAGT
GCACCCACTCGCCAGCTTTCCAGGAGGATTTCCAAAGATTTCTCTGCTGACTGTTGTCCGGACC
CGCCCTGGTCTCAAGCTCCCTCCTGACTCTCTACAGTGCCAGGGTGTCCGACAGCTGGGCTGGAG
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TTCCGAGGCCCTCAGCCTAGCAGATGGCAAGTGGCACCGTGTGGCTGTGAAGGGCCAGTCTGTC
ACCTCATTGTTGACTGCAAGAAGCGAGTCACCCGGCCTCTCCCCGAAGTGTCTCGTCCAGTATTGGAC
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GGCCAGAGGAAAGACCCAAAACACAGCCTCACAGAGCCAGAGATCTCCACAGCAGCAACCATCA
AGACTTCACAGGCCACAAAATCAGGAACCCAGAGCCAGGTGAGGGAGCTGGGAGAACCCCAAGTGCA
GCACACCCAGAGAGGGAAGACCCAGGCATCTCTCCTTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001163771

Insert Size: 873 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).

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_001163771.1](#)

RefSeq Size: 1237 bp

RefSeq ORF: 873 bp

Locus ID:	1302
UniProt ID:	P13942
Cytogenetics:	6p21.32
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ECM-receptor interaction, Focal adhesion
MW:	32 kDa
Gene Summary:	<p>This gene encodes one of the two alpha chains of type XI collagen, a minor fibrillar collagen. It is located on chromosome 6 very close to but separate from the gene for retinoid X receptor beta. Type XI collagen is a heterotrimer but the third alpha chain is a post-translationally modified alpha 1 type II chain. Proteolytic processing of this type XI chain produces PARP, a proline/arginine-rich protein that is an amino terminal domain. Mutations in this gene are associated with type III Stickler syndrome, otospondylomegalepiphyseal dysplasia (OSMED syndrome), Weissenbacher-Zweymuller syndrome, autosomal dominant non-syndromic sensorineural type 13 deafness (DFNA13), and autosomal recessive non-syndromic sensorineural type 53 deafness (DFNB53). Alternative splicing results in multiple transcript variants. A related pseudogene is located nearby on chromosome 6. [provided by RefSeq, Jul 2009]</p> <p>Transcript Variant: This variant (4) lacks several exons at the 3' end and has a distinct 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (4) has a distinct C-terminus and is considerably shorter than isoform 1.</p>