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# Product datasheet for RC220895

## COL11A1 (NM_080629) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | COL11A1 (NM_080629) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | COL11A1 |
| **Synonyms:** | CO11A1; COLL6; DFNA37; STL2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC220895 representing NM_080629
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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GATACTGCTTACAGAGTTTCAAAGCAAGCACAACTCAGTGCCCCAACAAAACAGTTATTTCCAGGTGGAA
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GAAACCACTTGATAGAAGTGAGAGAGCAATTGTTGATACCAATGGAATCACGGTTTTTGGAACAAGGATT
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TTACCAGGGGCTGATGGTCTACCTGGTCCTCCTGGTACTATGTTGATGTTACCGTTCCGTTATGGTGGTG
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**Protein Sequence:**

>RC220895 representing NM_080629
Red=Cloning site Green=Tags(s)

MEPWSSRWKTKRWLWDFTVTTLALTFLFQAREVRGAAPVDVLKALDFHNSPEGISKTTGFCTNRKNSKGS
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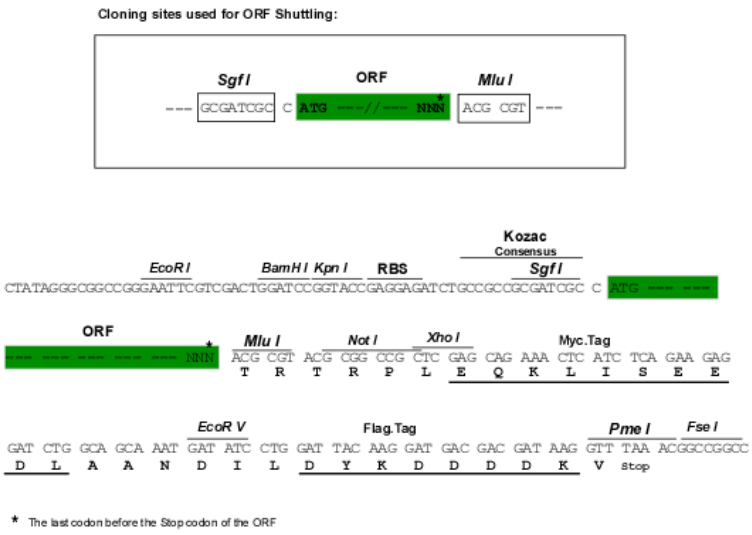
DEEMSYDNNPFIKTLYDGCTSRKGYEKTVIEINTPKIDQVPIVDVMINDFGDQNQKFGFEVGPVCFLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8041_g08.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_080629

**ORF Size:** 5454 bp

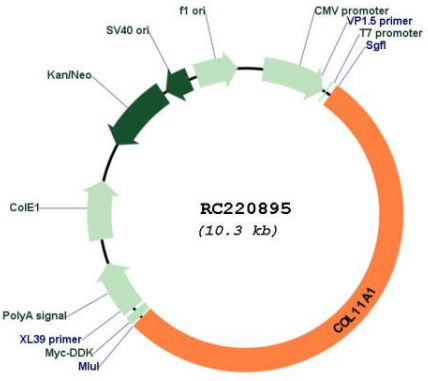
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

| | |
|---|---|
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_080629.1, NP_542196.1 |
| **RefSeq Size:** | 6355 bp |
| **RefSeq ORF:** | 5457 bp |
| **Locus ID:** | 1301 |
| **UniProt ID:** | P12107 |
| **Cytogenetics:** | 1p21.1 |
| **Protein Pathways:** | ECM-receptor interaction, Focal adhesion |
| **MW:** | 178 kDa |
| **Gene Summary:** | This gene encodes one of the two alpha chains of type XI collagen, a minor fibrillar collagen. Type XI collagen is a heterotrimer but the third alpha chain is a post-translationally modified alpha 1 type II chain. Mutations in this gene are associated with type II Stickler syndrome and with Marshall syndrome. A single-nucleotide polymorphism in this gene is also associated with susceptibility to lumbar disc herniation. Multiple transcript variants have been identified for this gene. [provided by RefSeq, Nov 2009] |

## Product images:




Circular map for RC220895