

Product datasheet for SC109391

COL21A1 (NM_030820) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL21A1 (NM_030820) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL21A1
Synonyms:	COLA1L; FP633
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109391 sequence for NM_030820 edited (data generated by NextGen Sequencing)

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ATGGCTCACTATATTACATTTCTCTGCATGGTTTTGGTGTGCTTCTTCAGAATTCTGTG
TTAGCTGAAGATGGGGAAGTAAGATCAAGTTGTCTACTGCTCCGACAGATTTAGTTTTTC
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ACGGCAGCAGTGGAAATCCATACTCTACTTAGGAGGAAACACAAAGACAGGGAAGGCCATC
CAGTTTGCCTCGATTACCTTTTTGCCAAGTCTCAGGATTTCTGACTAAGATAGCAGTG
GTACTTACGGATGGCAAGTCCCAAGATGACGTCAAGGATGCAGCTCAAGCAGCAAGAGAT
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CTACCAGGTTACAAAGGAGAACCAGGGCGAGATGGTGACAAGGGTGATCGTGGACTTCCT
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AAAGGATCACCTGGATTTTATGGCAAAAAGGTGCAAAAGGTGAAAGGGGAATGCTGGC
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CCTGGAATAAGCAAAGAGGTCTCCAGGAGACCCAGGTCTCCTGGCAAAGATGGAGAC
CATGGAACCTGGAATCCAAGGGCAACCAGGCCCCCCAGGCATCTGCGACCCATCACTA
TGTTTTAGTGTAATTGCCAGAAGAGATCCGTTTCAGAAAAGGACCAAACTATTAG

Clone variation with respect to NM_030820.3

438 a=>g;1428 t=>n;1429 a=>n;1430 a=>n;1431 g=>n;1432 c=>n;1433 c=>n;1434 t=>n;1435
g=>n;1436 g=>n;1754 t=>n;1755 c=>n

5' Read Nucleotide
Sequence:

>OriGene 5' read for NM_030820 unedited

CACATTTTGTATACGACTCACTATAGGCGGCGCGAATTTCGCACGAGGGCAACACTCAGC
TGGCTGCGACGGCAACCCGAGCCTGGACACTGCGCCAGGAAACCTCTTCTGGCATCCTT
AGTAAATGGCAGTAGAGTCATCTGGGAGGTAAAAGAAGATTGTACCATGTGAGGGATCTC
CTACCCAGGAAACAAAGCCACAGGAAGACCATCACATAGGAATGGAATCCTAAACCAA
AATATTAGAACGAAAACAGAAACATGGCTCACTATATTACATTTCTCTGCATGGTTTTGG
TGCTGCTTCTTCAGAATTCTGTGTAGCTGAAGATGGGGAAGTAAGATCAAGTTGTCGTA
CTGCTCCGACAGATTTAGTTTTATCTTAGATGGCTCTTATAGTGTGGCCAGAAAACCT
TTGAAATAGTGAAAAAGTGGCTTGCAATATCACAAAAAATTTGACATAGGGCCGAAGT
TTATTCAAGTTGGAGTGGTTCAATATAGTGAATACCTGTGCTGGAGATTCCTCTCGGAA
GCTATGATTACAGGAGAATTTGACGGCAGCAGTGGAATCCATCTACTTAGGAGGAA
ACACAAAGACAGGGAAGGCCATCCAGTTTTCGCTCGATTACCTTTTGCAGAGTCTCAC
GATTTCTGACTAAGATAGCAGTGGTACTTACGGATGGCAAGTCCCAAGATGACGTCAGG
ATGCAGCTCAAGCAGCAAGAGATAGTAAGATAACATTATTTGCTATTGGNTGNTGGTTCA
GAAACAGAAGATGCCGAACCTTAGAGCTATTGCCAACAAGCCTTCGTCTACTTATGTGTTT
TATGGTGGAGACTATATTGCATATCCAAATAAGGNAAGTGATGAGCAGAACTTGTGAAG
ATCTGTCTGTCCACGAATTCAGTGCAGCTCGGATGAAGGGGATTGATATCTTTAGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_030820 unedited

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NAGCTCTGGACCCGCGGCCGAATCTANGATCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTAAAGCCCGGACCAAAATTTTATTATCCTTTGAAAAACAG
GCTGGAAACAAATTTTGTAGCATGACAGGGAGAAAAATTTTAAATTTGGTTTTTACAA
AGGCTTTAACCCCAATCCCCAAGCCGTTTCATAATTTTAAACAGCCAGTTAAAAAAAC
AAAACTTCTAGGATTTAAGGAGTTTTCTTTTTTTTAAACAAAAGCATAACCTTTATTC
CCATTACCTTGGCTCCAGGGAATACTTTTGGGGCCTTCCCTTTTAGGGGAAGGGG
AAAAGGAGGGCTTCCAACAAACTTTCCGATAAATAACCAAGTAAAAAAAAGCCTTTAAGA
CCTCCAAACTAACATTTTTTTGAAGGACCAAGGAACTTTTGGCCAAAAAGGTTTTAA
AGGTAATTTGGACCATCCCCAAAGAAATAAATACTTTTTTTACCCCCCTTTAATCT
ATTTTLAGAGTTGGAAGGAATAAAAAACACTTTATTTTATTAGAGGGGCTATTAC
AACACCGACCAACGGGCAATCCACGGCCCTTTATCAGGGTTGAAACACGGAAGAAAAGGA
GTAGTTCACCAATACGTTTATCAAGGGGAATATACCCCGGATTTACTTCCAAGGAGGA
GATCCAGGTTTGGCTTAGGTAGCCCCCGGCCCTTTGAAATGGAACTTGAAGGCCCTG
GGCCATGAAATTAACCCCAACTTTTACTGCTGGGAGGCTGATGTAAAAATTTCCAG
TGCACTAAACGGCGCTTCTTAACGGCAGGGGGGATTTTATTTTCAACTTGATTTAAA
AAAAGGGCCTTTACAGGAACCCCTTGGGAATAATAAGGCGGATAACCGAGGCCTCN
```

Restriction Sites:

Not|-Not|

ACCN:

NM 030820

Insert Size:

4310 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:

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 030820.2, NP 110447.2

RefSeq Size:

4154 bp

RefSeq ORF:

2874 bp

Locus ID:

81578

UniProt ID:

096P44

Cytogenetics:

6p12.3-p11.2

Domains:

VWA, TSPN, Collagen

Gene Summary:

This gene encodes the alpha chain of type XXI collagen, a member of the FACIT (fibril-associated collagens with interrupted helices) collagen family. Type XXI collagen is localized to tissues containing type I collagen and maintains the integrity of the extracellular matrix. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]
Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1 and 2 encode the same isoform (a).