

## Product datasheet for **SC127921**

### COL8A2 (NM\_005202) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COL8A2 (NM_005202) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL8A2
Synonyms:	FECD; FECD1; PPCD; PPCD2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_005202, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGGGACTCTGACACCCCTGTCTTCGCTGCTGCTGCTACTGGTGTGGTGTGGGGTGTGGGC
CGCGGGCGTCTCTGGTGGCGGGGCGGTGGGGCGGGGCTATGCCCCAGTGAAGTACATCCAGCCCAT
GCAGAAAGGACCTGTGGGACCGCCCTTCGTGAGGGCAAAGGCCAGTACCTGAAATGCCTACCCTG
CTGCCGATGGACCTGAAGGGAGAGCCCGGCCCCCTGGGAAGCCGGGCCCTCGGGTCCCTGGCCCC
CTGGCTTCCCAGGAAAACCAGGCATGGGAAAGCCAGGACTCCATGGGCAGCCTGGCCCTGCTGGCCCC
TGGCTTCTCCCGATGGCAAGGCTGGTCCCCAGGGCTCCCTGGCAAGGTGGGCCACCAAGGGCAGCCG
GGGCTTCGGGGGAGCCAGGAATACGAGGGGACCAGGGCTCCGGGGACCCCAAGGCCCTGGCTCC
CGGGCCCTCAGGCATTACTATCCCTGAAAACCAGGTGCCAAGGGGTGCCAGGGCCCCAGGATTCCA
GGGGGAACCAAGGGCCCCAGGGGAGCCTGGGCCCCAGGTGATCGAGGCCTCAAGGGGGATAATGGAGT
GGCCAGCCCGGGTGCCTGGGGCCCAGGGCAGGGGGTGCCTCCGGCCCCCGCCCTCCCTGGTCCAG
CTGGCTTAGGCAAACCTGTTTGGATGGGCTTCTGGGGCCCAGGAGACAAGGGTGAGTCTGGGCTCC
TGGAGTCCAGGCCCCAGGGGGAGCCAGGAGCTGTGGGCCAAAAGGACTCCTGGAGTAGACGGTGTG
GGAGTCCCAGGGGAGCAGGGTTGCCAGGACCACAGGGCCATCAGGGGCCAAAAGGGGAGCCAGGGACC
GGGGCCCCCTGGGTGATAGGCCCACTGGCTATGGGATGCCAGGACTGCCAGGCCAAAAGGGGACAG
GGGCCAGCTGGGGTCCCAGGACTCTTGGGGGACAGGGGTGAGCCAGGGGAGGATGGGGAGCCAGGGGAG
CAGGGCCACAGGGTCTTGGGGTCCCCCTGGACTTCTGGGTCTGCAGGGCTTCTGGCAGACGTGGGC
CCCCTGGGCTAAGGGTGAAGGACAGGGCTGGAGGACCCCAAGGAGTGCCTGGCATTGAGGTGACCAGGG
GCCTAGTGGCTGGTGGGAAACCAGGGTCCCAGGTGAGAGGGGACTTCTGGGGCCATGGACCCCT
GGACCACTGGGCCAAGGGTGAAGCCGGTTCACGGTTCGCCCTGGAGGACCAGGGTGGCAGGAGCCC
TGGGGCAGAAAGGTGACTTGGGGCTCCCTGGGCAGCCTGGCCTGAGGGTCCCTCAGGAATCCCAGGACT
CCAGGGTCCAGCTGGCCCTATTGGGCCAAGGCTGCCGGCCTGAAGGGGAACCAGGCTGCCAGGG
CCCCCTGGAGAGGGGAGAGCAGGGGAACCTGGCACGGCTGGGCCACGGGGCCCCAGGGTCCCTGGT
CCCCTGGAATCACGGGCCCTCCGGGCCCTCCGGGCCCCCGGACCCCTGGTCCCTGGGGCTTCGA
TGAGACTGGCATCGCAGGCTTGCACCTGCCAACGGCGGTGGAGGGTGGCGTGGTGGCAAGGGGGC
AAGCCACAGTTTGGCTGGGCGAGCTGTCTGCCATGCCACACCGGCCTTCACTGCGGTGCTCACCTGC
CCTTCCCGCCTCGGCATGCCCGTAAATTTGACCGACTCTACAATGGCCACAGCGCTACAACCC
AGCCACTGGCATTTACCTGCCCTGTGGCGGGCTTACTACTTTGCTTACCATGTGCAGTCAAGGGC
ACCAACGTGTGGTGGCCCTGTACAAGAACAACGTGCCGCCACCTATACCTACGATGAGTACAAGAAGG
GCTACCTGGACCAGGCATCTGGTGGGGCCGTGCTCCAGCTGCGGCCAACGACCAGGTCTGGGTGAGAT
GCCGTGGACCAGGCCAACGGCCTTACTCCACGGAGTACATCCACTCCTCTTTTCAGGATTCTTGCTC
TGCCCCACATAA
    
```

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_005202 unedited
AGACTCATATAGCGGCCGCGAAATTCCTTGAAGCCATGCTGGGGACTCTGACACCCC
TGTCTTCGCTGCTGCTGCTACTGGTACTGTGCTGGGGTGTGGGCCACGGGCTACT
TTGGTTGGCGGGCCCGTGGGGCAACGGCATTTCCTCCATGAAATAATCCCCCCTG
CCAAAAGGAACCTTGTGGACCCCTTTTTTGGGGCAAAGCACAACCTCGGAAAAAA
CCCCTTCCCCCTTCCAAAAGAAAACAAAAAGAAAAAAACCCCTCCCTTGAAAAA
ACCGCCCTCGGGTTTTCCCTTCCCCCTGTTTTTTTTAAAAAAAACCTGGGAA
AAAAAAGAAAATTTTTGGGGNGCGCCTCTGTGGGCCCCCGTTTTTTTTCTTTTGG
GGGAGGTGGGCCCCCGCCCCCGGGGGGGGGGAAAAAAAACAAGTGT
TTGTGGTGGGAGAGGNAAAAAAAAAAAGAAAAAAGNGTTGTTTTGGGTNCAAAA
AAAAAACAAAAAAAAGCGGCCGGGNNNGCCCCCTTTTTTTTTTTTTAAAAAA
AAAACAAAAAAGAGGGGGGGGGGGCGGGCGCGGTTTTTTTTTTTATAAAAAAGG
AACCCCGGGGGGGGGGGCGGGGCCACTTTTTTATTTATCCTATTTTNGGAAAAAAA
AAAAGAAGAAATCAACAAAAAACCCCTCCCGCCCNACAGGGGGGGGGGAATA
AAGGGGATTTNACAATATAAANAACAAAAATATAA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005202 unedited NGGGCCCCATCGGAGATTGGCAACTTNCAGGNCCAGNANAGCACTGGGNGAGGGTCACA GGGATGCCACCCGGGCTCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCG ACAAGCTTGATATCGGTACCAGATCTGAATTCGCCCTTGCCGCTCTGTTTCAGCTTTTGT TTTTTTCCAGGAGGTTCTTTGTAATTGAAAAGGTCGCTCTACCACTAAAGGGGAGGAG GCCAGGGCAGCAGGACACCCCGGGTTATGTGGGGCAGAGCAAGAATCCTGAAAAGG AGGAGTGGATGTACTCCGTGGAGTAGAGGCCGTTGGCCTGGTCCGACGGCATCTGCACCC AGAACCTGGTCGTTGGGCCGAGCTGGAGCACGGCCCCACCAGATGCCTGGTCCAGGTAG CCTTCTTGTA CTACTCATCGTAGGTATAGGTGGCCGGCACGTTGTTCTTGTACAGGGCCACC CACACGTTGGTGCCTTGACGTGCACATGGTAAGCAAAGTAGTAGACGCCGCCACAGGG CAGGTGAAGATGCCAGTGGCTGGTGTAGCCGCTGTGGCCATTGTAGAGAGTCCGGTCA AATTTACGGGCATGCCGAGGCGGGGAAGGGCGAGGTGAGCACCGCAGTGAAGGCCGTT GTGGCATGGGCAGACAGCTCGCCAGCCAACTGTGGCTTGCCCCCTTGCCCAGCACG GCACCCTCCACACCGCCGTTGGGCAGGTGCAAGCCTGCGATGCCAGTCTNATCGAAAGCC CCAGGGGCACANGGGGGTCCCGGGGCCCGGGAAGCCCGGAGGGCCGTGATNCCCCA GGGGGANCNNGNCCNCGGGGGGCCCNNGGNCCNNNNNGCCNNNNNNNCCNNNNNN NNNCNNNNNNGGGGT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005202
<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>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>	<a href="#">NM_005202.1</a> , <a href="#">NP_005193.1</a>
<b>RefSeq Size:</b>	4443 bp
<b>RefSeq ORF:</b>	2112 bp
<b>Locus ID:</b>	1296
<b>UniProt ID:</b>	<a href="#">P25067</a>
<b>Cytogenetics:</b>	1p34.3
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes the alpha 2 chain of type VIII collagen. This protein is a major component of the basement membrane of the corneal endothelium and forms homo- or heterotrimers with alpha 1 (VIII) type collagens. Defects in this gene are associated with Fuchs endothelial corneal dystrophy and posterior polymorphous corneal dystrophy type 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).