

Product datasheet for **SC109089**

COL8A1 (NM_001850) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL8A1 (NM_001850) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL8A1
Synonyms:	C3orf7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109089 sequence for NM_001850 edited (data generated by NextGen Sequencing)

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ATGGCTGTGCTGCCTGGCCCTCTGCAGCTGCTGGGAGTGCTGCTTACCATTTCCCTGAGT
TCCATCAGGCTCATTTCAGGCTGGTGCCTACTATGGGATCAAGCCGCTGCCACCTCAAATT
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ATGCCTTTGGCCAAAGATGGCCTTGCCATGGGCAAGGAGATGCCCCACTTGCAAGTATGGC
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GGTCCCGTGGAGAGCCTGGCCCAAGAGGACCCTGGGCCCCCTGGTTTGCAGGTCAT
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TACTACTTTGCATACCACGTTCACTGCAAGGGGGCAACGTGTGGGTTGCTCTATTCAAG
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TCTGGGAGTGCAGTGTCTGCTCAGGCCCGGAGACCGGGTGTCTCCTCCAGATGCCCTCA
GAACAGGCTGCAGGACTGTATGCCGGGCAGTATGTCCACTCCTCTTTTCAGGATATTTA
TTGTATCCCATGTAA
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Clone variation with respect to NM_001850.3
1970 t=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001850 unedited CCCGCCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG CTTATTTAGGTGACACTATAGAATAACAAGCTACTTGTTCTTTTTGCAGCGGCCGGAATT CGGCACGAGGCGATCCTCTCCGTGGGAGCCAGCGAGCCTCTCCCTGATCTTACGTGCT CAAGGGAGCTCACACGTTACCAACTCACCTTGAAGTCATCTCAAGAACAAAAGACAAC TGAAAGAAGCTGTTGTGAAGGCAGAGCAGCATCTGCTGAAGAGACAGAAACCAGCCCCAG AGGTGTCACAGGAAGGCACCAGCAAGGACATTGGTCTTTGATTTGATTTCAGCAGTCTGT CAAGTATAAATGTGATGGCTGTGCTGCCTGGCCCTCTGCAGCTGCTGGGAGTGTGCTTA CCATTTCCCTGAGTTCCATCAGGCTCATTACAGGCTGGTGCCTACTATGGGATCAAGCCGC TGCCACCTCAAATTCCTCCTCAGATGCCACCACAAATTCACAATACCAGCCCCTGGGTC AGCAAGTACCTCACATGCCTTTGGCCAAAGATGGCCTTGCCATGGGCAAGGAGATGCCCC ACTTGCAATGGCAAAGAGTATCCACACCTACCCCATATATGAAGGAAATTCAACCGG CGCAAGAATGGCAAGGAAGCCGTACCAAGAAAGGCAAGAAATACCATTAGCCAGTTT ACGAGGGGAACAANGTCCCCGTGGAGAGCCTGGGCCCCGAGGACCACCTGGGCCCCCT GTNTNGCCAGNCCATGGGATACCTGGCATTAAAGGGAAACCCGGGCCACAGGATATCCAG GAGTTGAAAGCCAGTATGCCTGGATGCCAGGGAAGCCAGGACCATGGGCTGCCTGGNGC CACAGGAAATTGACAGAAGGGGAAAATGCGCTATGGGGAACCAGAACCCAGGACCTCCA GGNCCCAGGACTTCTGCATGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001850 unedited NNNNGGGTTTTAGCTATGNNACCGCGCCGAANCTAGNGATCGGTTTTTTTTTTTTTTTT TTTACATGGGATAACAATAAATATCCTCGAAAAGGAGAGTGGACATACTGCCCGGCATACA GTCTGACAGCCTGTTCTGAGGGCATCTGGAGGAACACCCGGTCTCCGGGCTGAGCAGCA GCACTGCACTCCCAGATGCCTGGTCCAGGAAGCCTTTTTGTACTCGTGTACGTGTACA TCACGGGCTCGTTGTTCTTGAATAGAGCAACCCACACGTTGCCCCCTTGCAGTGAACGT GGTATGCAAGTAGTAGACACAGGGCCCTCACAGGTGAAGATGCCTGTCTGCGGTTGT AGTTCTGTCTGCCGTTATACAGCAGTTTGTAACTTCACTGGGGCCCCACCGTGTTGGA AAGGTGCGGTTAGCTCGGCGTAAATGCAGGCATCTCATAGGCTGGCCCTCCATTCTTGC CTTTCTTAACCCGTAGGCATGGGGGGTTTACGCCATCAATCCCAGCCCCATATCTG CAGATACTCTCCCTGGGGTGGTGGTGTAGGGGGCATCACACTGGGGTCTGGAGGTC CTGGAGGGCCTGGGGTCCCGGAAAGCCAAAGCTGGCCTTGAGGACCAAGGCCCCGGCTT CCCTGGGGGGCCAGAAATCCTTGCCCTCCCGGTTTTCCCTATACCAGGGGAACCCCGG GGGCCCTGGGGGGCCCCGGCTTCCCTTTTGGGGCGCGGAAATCCCAGGTGGGCCAAAGG GGGCCACTAAGGACCCCAACCCCTGGGGAACCTCGGTGGGGCCCTGTAAACCTCT AACCCCGGGGATTTCTGGGCTTCCCTTTTGGGCGCAG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001850
Insert Size:	2500 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_001850.3](#), [NP_001841.2](#)

RefSeq Size: 2676 bp

RefSeq ORF: 2235 bp

Locus ID: 1295

UniProt ID: [P27658](#)

Cytogenetics: 3q12.1

Domains: C1Q, Collagen

Protein Families: Druggable Genome

Gene Summary: This gene encodes one of the two alpha chains of type VIII collagen. The gene product is a short chain collagen and a major component of the basement membrane of the corneal endothelium. The type VIII collagen fibril can be either a homo- or a heterotrimer. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.