

Product datasheet for **SC109090**

COL8A1 (NM_020351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL8A1 (NM_020351) 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: >NCBI ORF sequence for NM_020351, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGTGCTGCCTGGCCCTCGCAGCTGCTGGGAGTGTGCTTACCATTTCCCTGAGTTCATCAGGC
TCATTCAGGCTGGTGCCTACTATGGGATCAAGCCGCTGCCACCTCAAATTCCTCCTCAGATGCCACCACA
AATTCCACAATACCAGCCCTGGGTCAGCAAGTACCTCACATGCCTTTGGCCAAAGATGGCCTTGCCATG
GGCAAGGAGATGCCCACTTGCAGTATGGCAAAGAGTATCCACACCTACCCAATATATGAAGGAAATTC
AACCGGCGCCAAGAATGGGCAAGGAAGCCGTACCCAAGAAAGGCAAGAAATACCATTAGCCAGTTTACG
AGGGGAACAAGGTCCCCGTGGAGAGCCTGGCCCAAGAGGACCACCTGGGCCCCCTGGTTTGCAGGTCAT
GGGATACCTGGAATTAAGGAAAACCAGGGCCACAGGGATATCCAGGAGTTGGAAAGCCAGGTATGCCTG
GAATGCCAGGGAAGCCAGGAGCCATGGGCATGCCTGGGGCAAAGGAGAAATTGGACAGAAAGGGGAAAT
TGGGCCTATGGGGATCCCAGGACCACAAGGACCTCCAGGGCCTCATGGACTTCTGGCATTGGGAAGCCA
GGTGGGCCAGGGTTACCAGGGCAACCAGGACCAAGGGTATCGAGGACCCAAAGGACTACCAGGACCTC
AAGGCCTTCGGGGTCTAAAGGAGACAAGGGCTTCGGGATGCCAGGTGCCAGGTGTAAGGGGCTCC
AGGGATGCACGGCCCTCCCGCCCTGTTGGACTGCCAGGAGTGGGCAAACAGGAGTGACAGGCTTCCCT
GGGCCCAAGGGCCCTGGGAAAGCCAGGGGCTCCAGGAGAACCTGGGCCACAAGGCCCTATTGGGGTAC
CGGGGGTTCAAGGACCTCCTGGGATACCCGGAATTGAAAAGCCAGGCCAGGATGGGATCCCAGGCCAGCC
AGGATTTCCAGGTGGCAAAGGGGAGCAAGGACTGCCAGGGCTACCAGGACCCCAAGGCTTCCAGGGATT
GGGAAACCAGGCTTCCCAGGACCAAGGTGACCGGGGCATGGGAGGTGTTCTGGGGCTCTTGACCAA
GAGGGGAGAAAGGACCAATAGGTGCCCCAGGAATAGGGGGTCTCCAGGAGAGCCAGGCTGCCTGGAAT
CCCAGGTCCTATGGGCCCTCCAGGTGCTATTGGTTTTCTGGACCCAAAGGAGAAGGTGGGATTGTAGGG
CCACAGGGGCCACCAGGTCCCAAGGGTGAGCCAGGGCTTCAAGGCTTCCCAGGAAAGCCAGGTTTCTTGTG
GTGAAGTAGGGCTCCTGGCATGAGGGGTTTGCCAGGTCCCATAGGGCCCAAGGGGAAGCTGGGCAAAA
AGGTGTACCAGGACTCCCTGGTGTTCAGGGCTTCTCGGACCTAAGGGAGAGCCAGGAATCCCAGGGGAT
CAGGGTTTACAGGGCCCCCAGGTATCCCAGGGATTGGGGGCCCTAGTGGCCCCATTGGACCACCTGGGA
TTCCAGGCCCCAAAGGGGAGCCGGGCTCCAGGGCCCCCTGGGTTCCCTGGTATAGGGAACCCGGAGT
GGCAGGACTTCATGGCCCCCAGGGAAGCCTGGTGCCTTGGTCCCTCAAGGCCAGCCTGGCCTTCCAGGA
CCCCAGGCCCTCCAGGACCTCCAGGACCCCAAGCTGTGATGCCCCCTACACCACCACCCAGGGAGAGT
ATCTGCCAGATATGGGGCTGGGAATTGATGGCGTGAACCCCCCATGCCTACGGGGCTAAGAAAGGCAA
GAATGGAGGGCCAGCCTATGAGATGCCTGCATTTACCGCCGAGCTAACCGCACCTTCCCACCGGTGGGG
GCCCCAGTGAAGTTTAAACAACTGCTGTATAACGGCAGACAGAATAACCCCGCAGACAGGCATCTTCA
CCTGTGAGGTCCCTGGTGTCTACTACTTTGCATACCACGTTCACTGCAAGGGGGGCAACGTGTGGGTTGC
TCTATTCAAGAACAACGAGCCCCTGATGTACACGTACGACGAGTACAAAAAGGGCTTCTGGACCAGGCA
TCTGGGAGTGCAGTGTGCTGCTCAGGCCCGGAGACCGGGTGTTCCTCCAGATGCCCTCAGAACAGGCTG
CAGGACTGTATGCCGGGCAGTATGTCCACTCCTCTTTTCAGGATATTTATTGTATCCCATGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_020351 unedited NTTATAACACCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGACGGTGGGAGGTCTATAT AAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGC CGCGAATTCGGCACGAGGCGATCCTCTCCGTGGGAGCCAGCGAGCCTCTCCCTGATCT TACGTGCTCAAGAAGCTGTTGTGAAGGCAGAGCAGCATCTGCTGAAGAGACAGAAACCAG CCCCAGAGGTGTCACAGGAAGGCACCAGCAAGGACATTGGTCTTTGATTTGATTCAGCAG TCCTGTCAAGTATAAATGTGATGGCTGTGCTGCCTGGCCCTCTGCAGCTGCTGGGAGTGC TGCTTACCATTTCCCTGAGTTCCATCAGGCTCATTCAAGGCTGGTGCCTACTATGGGATCA AGCCGCTGCCACCTCAAATTCCTCCTCAGATGCCACCACAAATCCACAATACCAGCCCC TGGGTCAGCAAGTACCTCACATGCCTTTGGCCAAAGATGGCCTTGCCATGGGCAAGGAGA TGCCCCACTTGCAGTATGGCAAAGAGTATCCACACCTACCCCAATATATGAAGGAAATTC AACCGGCGCCAAGAATGGGCAAGNAAGCCGTACCCAAGAAAGGCAAAGAAATACCATTA GCCAGTTNACGAGGGNAAACAAGTCCCCCGTGGNAGAGCCTGGCCCAAGAGGACACCTGG CCNCCCGGGNTTGGCAGGTCAATTGGGATCCCTGGAAATTAAGGAAAACCAGGGCCAC AGGGATTNCCCGGAGGTTGGAAAGCCCAGTATGCCCTGAAATGCCAGGAAGCCAGGAGCA TGGGCATGCCTGGGGCAAAGGAAAAATTGGACAGAGGGGGGAATTTGGCCTTAGGGGGAT CCAGAACCCAAGGACT
Restriction Sites:	ECORI-NOT
ACCN:	NM_020351
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:	<ol style="list-style-type: none">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_020351.2 , NP_065084.2
RefSeq Size:	2614 bp
RefSeq ORF:	2235 bp
Locus ID:	1295
UniProt ID:	P27658
Cytogenetics:	3q12.1
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 (2) lacks an exon in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.