

Product datasheet for **SC323709**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_020351.2
 CTC CGTGGGAGCCAGCGAGCCTCTCCCTGATCTTACGTGCTCAAGGGAGCTCACACGT
 TCACCAACTCACCTTGAAGTCATCTCAAGAACAAAAGACAACCTGAAAGAAGCTGTTGTG
 AAGGCAGAGCAGCATCTGCTGAAGAGACAGAAACCAGCCCCAGAGGTGTCACAGGAAGGC
 ACCAGCAAAGGACATTGGTCTTTGATTTGATTACAGCAGTCTGTCAAGTATAAATGTGATG
 GCTGTGCTGCCTGGCCCTCTGCAGCTGCTGGGAGTGTGCTTACCATTTCCCTGAGTTCC
 ATCAGGCTCATTACAGCTGGTGCCTACTATGGGATCAAGCCGCTGCCACCTCAAATTCCT
 CCTCAGATGCCACCAAAATCCACAATACCAGCCCTGGGTGAGCAAGTACCTCACATG
 CCTTTGGCCAAAGATGGCCTTGCCATGGGCAAGGAGATGCCCCACTTGAGTATGGCAAA
 GAGTATCCACACCTACCCCAATATATGAAGGAAATTAACCGGCGCCAAGAATGGGCAAG
 GAAGCCGTACCAAGAAAGGCAAGAAATACCATTAGCCAGTTTACGAGGGGAACAAGGT
 CCCCCTGGAGAGCCTGGCCCAAGAGGACCACCTGGGCCCTGGTTTGCCAGGTCATGGG
 ATACCTGGAATTAAGGAAAACAGGGCCACAGGGATATCCAGGAGTTGGAAAGCCAGGT
 ATGCTGGAATGCCAGGGAAGCCAGGAGCCATGGGCATGCCTGGGCAAAAGGAGAAATT
 GGACAGAAAGGGGAAATGGGCCTATGGGGATCCAGGACCACAAGGACCTCCAGGGCCT
 CATGGACTTCTGGCATTGGGAAGCCAGGTGGGCCAGGGTTACCAGGGCAACCAGGACCA
 AAGGGTGTGAGGACCCAAAGGACTACCAGGACCTCAAGGCCTTCGGGGTCTTAAAGGA
 GACAAGGGCTTCGGGATGCCAGGTGCGCCAGGTGTAAGGGGCTCCAGGGATGCACGGC
 CCTCCCGGCCCTGTTGGACTGCCAGGAGTGGGCAAAACCAGGAGTACAGGCTTCCCTGGG
 CCCCAGGGCCCCCTGGGAAAGCCAGGGGCTCCAGGAGAACCTGGGCCACAAGGCCCTATT
 GGGGTACCGGGGTTCAAGGACCTCCTGGGATACCCGGAATTGAAAGCCAGGCCAGGAT
 GGGATCCCAGGCCAGCCAGGATTTCCAGGTGGCAAAGGGGAGCAAGGACTGCCAGGGTA
 CCAGGACCCCAAGGCCTCCAGGGATTGGGAAACCAGGCTTCCCAGGACCCAAAGGTGAC
 CGGGGCATGGGAGGTGTTCTGGGGCTCTTGGACCAAGAGGGGAGAAAGGACCAATAGGT
 GCCCCAGGAATAGGGGTCTCCAGGAGAGCCAGGCTGCCTGGAATCCCAGGCTCTATG
 GGCCCTCCAGGTGCTATTGGTTTTCTGGACCCAAAGGAGAAGGTGGGATTGTAGGGCCA
 CAGGGGCCACCAGGTCCCAAGGGTGAAGCCAGGGCTTCAAGGCTTCCCAGGAAAGCCAGGT
 TTCCTTGGTGAAGTAGGGCTCCTGGCATGAGGGGTTTGGCAGGTCCCATAGGGCCCAAG
 GGGGAAGCTGGGCAAAAAGGTGTACCAGGACTCCCTGGTGTTCAGGGCTTCTCGGACCT
 AAGGGAGAGCCAGGAATCCCAGGGGATCAGGGTTTACAGGGCCCCCAGGTATCCCAGGG
 ATTTGGGGCCCTAGTGGCCCATTTGACCACCTGGGATTCAGGCCCCAAAGGGGAGCCG
 GGCTCCCAGGGCCCCCTGGGTTCCCTGGTATAGGGAAACCCGGAGTGGCAGGACTTCAT
 GGCCCCCAGGGAAGCCTGGTGCCTTGGTCTCAAGGCCAGCCTGGCCTTCCAGGACCC
 CCAGGCCCTCCAGGACCTCCAGGACCCCCAGCTGTGATGCCCCCTACACCACCACCCAG
 GGAGAGTATCTGCCAGATATGGGGCTGGGAATTGATGGCGTGAACCCCCCATGCCTAC
 GGGGCTAAGAAAGGCAAGAATGGAGGGCCAGCCTATGAGATGCCTGCATTTACC GCCGAG
 CTAACCGCACCTTTCCACCCGTTGGGGGCCAGTGAAGTTTAAACAACTGCTGTATAAC
 TACTTTGCATAACCAGTTCACTGCAAGGGGGCAACGTGTTGGTTGCTTATTCAAGAAC
 AACGAGCCCGTGATGTACAGTACGACGAGTACAAAAGGGCTTCTGGACCAGGCATCT
 GGGAGTGCAGTGTGCTGCTCAGGCCGAGACCGGGTGTTCCTCCAGATGCCCTCAGAA
 CAGGCTGCAGGACTGTATGCCGGCAGTATGTCCACTCCTCTTTTCAGGATATTTATTG
 TATCCCATGTAAAAACAAAAAACAAAAACAAAAACAAAAACAAAAACAAAAACAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_020351

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an exon in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.</p>