

## Product datasheet for MC202519

### Col3a1 (NM\_009930) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Col3a1 (NM_009930) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Col3a1
Synonyms:	AW550625; Col3; Col3a-1; Tsk; Tsk-; Tsk-2; Tsk2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC058724 sequence for NM\_009930  
 ACCATTCTGATGTTGGAGCGGCCGCTGAAGGGCAGGGACAACCTGATGGTGCTACTCTGAGCTGCTT  
 CTCCTCTCTCCTTTTTGCACAAGAGTCTCATGTCTGATATTTAGACATGATGAGCTTTGTGCAAAGT  
 GGAACCTGGTTTTCTTCTCACCTTCTTCACTCCACTCTTATTTTGGCACAGCAGTCCAACGTAGATGAAT  
 TGGGATGCAGCCACCTTGGTCAGTCCTATGAGTCTAGAGATGTCTGGAAGCCAGAACCATGTCAAATATG  
 TGTCTGTGACTCAGGATCTGTCTTTGCGATGACATAATCTGTGATGAGGAGCCACTAGACTGCCCAAC  
 CCAGAGATCCCATTTGGAGAATGTTGTGCAATATGCCACAGCCTTCTACACCTGCTCCTGTGCTTCTG  
 ATGGCCATGGACCTCAAGGCCCAAGGGAGATCCGGTCTCCTGGCATTCTGGGAGAAATGGTGACCC  
 TGGCCTCCAGGACAACCAGGTCTCCCTGGCCTCCTGGCTCCCTGGAATCTGTGAATCATGTCCAAC  
 GGTGGCCAAAATTATTCTCCCAATTCGACTCATATGATGTCAAGTCTGGAGTGGGAGGAATGGGTGGCT  
 ATCCGGGACCAGCTGGTCCACCAGGCCCTCCAGGACCCCTGGTCTTCTGGACATCCTGGATCTCCTGG  
 TTCTCCTGGATACCAAGTCCCCCTGGTGAACCTGGTCAAGCTGGTCCGGCAGGCCCTCCAGGACCTCCT  
 GGTGCTCTTGGTCCAGCTGGTCTGCTGAAAAGGATGGAGAGTCAGGAAGACCTGGACGACCTGGAGAGC  
 GTGGACTGCCTGGACCTCCAGGTATCAAAGGCCAGCTGGCATGCCTGGATTCCCTGGTATGAAAGGACA  
 CAGAGGCTTTGATGGACGCAATGGAGAAAAGGGAGAAACAGGTGCTCCTGGACTGAAGGGTGAATGGT  
 CTTCCAGGAGACAACGGAGCTCTGGCCCCATGGGTCCTAGAGGGGCTCCTGGTGAGCGAGGACGACCAG  
 GCCTTCTGGAGCTGCAGGTGCTCGAGGCAATGATGGTGTCTGGGGCAGTGATGGCAACCTGGTCCCC  
 TGGCCCTCCTGGAAGTGCAGGATTCCTGGATCCCCTGGTCTAAGGGTGAAGTTGGACCTGCAGGGTCC  
 CTTGGCTCAAATGGCTCACCAGGACAAAGAGGGGAGCCTGGACCCAGGGACATGCTGGTGTCTCAAGGGC  
 CTCTGGCCCTCCGGGAATAACGGCAGTCTGGTGGAAAAGGGTGAATGGTCCAGTGGCATTCTCTGG  
 AGCCCTGGACTAATAGGAGCAAGGGGCCCCCTGGACCAGCAGGAACTAATGGTATACCCGGAACACGA  
 GGTCTTCAGGTGAACCCGGCAAGAACGGTGCGAAGGGAGAGCCAGGAGCACGCGGTGAACGGGGCGAAG  
 CTGTTTCCCAGGAATTCAGGACCTAAGGGCGAAGATGGCAAAGATGGATCACCTGGAGAACCTGGTGC  
 AAATGGGCTTCCAGGAGCCGAGGAGAAAAGGGTCTAGTGGCTTCCGAGGACCTGCAGGGCCAAATGGC  
 ATCCCAGGAGAAAAGGGTCTCCCGGAGAGCGTGGTGGCCAGGTCTGCAGGACCCAGAGGAGTAGCTG  
 GAGAACCTGGCCGAGATGGAACCCCTGGAGGTCCAGGGATACGGGTATGCCCGAAGTCCAGGTGGACC  
 AGCAATGATGAAAACCAGGACCTCCTGGAAGTCAAGGAGAAAAGTGGTGCCTTGGTCCCCTGGCCCA



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TCTGGTCCCAGAGGTCAGCCTGGTGTTCATGGGTTCCCTGGTCTAAAGGAAATGATGGTGCCCTGGCA  
 AGAATGGAGAACGGGGTGGCCCTGGAGGACCTGGCCTTCCAGGTCCTGCTGGAAAGAATGGGGAGACTGG  
 ACCTCAGGGTCCCCAGGACCTACTGGCCAGCTGGTGACAAGGGAGATTCTGGACCCCTGGTCCACAA  
 GGATTACAAGGCATACCTGGTACCGGTGGTCTCCAGGAGAAAATGGGAAACCAGGTGAACCAGGTCCAA  
 AGGGTGAAGTCGGTGTCTCTGGAGCTCTGGAGCAAGGGTGATTCTGGTGCACCTGGAGAACGTGGGCC  
 TCCTGGAACAGCAGGAATCCCTGGTGTCTAGAGGTGGAGCTGGACCCCTGGCCCTGAGGGAGGAAAGGC  
 CCTGCTGGTCCCCTGGCCCTCTGGTCTTCTGGTTCTCTGGTCTGCAAGGGATGCCAGGGGAAAGAG  
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 AGGAAAGGATGGGCCAAGGGTCTGCTGGCCCTATTGGTCCCCTGGCCAGCTGGTACGCTGGAGAT  
 AAGGGTGAAGGTGGTTCCCTGGACTTCCAGGTATAGCTGGACCTCGAGGTGGCCCTGGTGGAGAGGTG  
 AACATGGCCCTCCAGGACCTGCTGGCTTCCCGGTGCTCTGGACAGAATGGTGAACCAGGTGCTAAAGG  
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 GGACCTGCTGGTCCGCTGGTCTCAGGGTGTAAAGGGTGAACGTGGTAGTCTGGTGGTCTGGTACTG  
 CTGGCTTCCCCTGGGGTGGTCTTCTGGTCTCTGGCAATAATGGTAAATCCAGGGCCCCAGGACC  
 CAGTGGTGTCTCTGGCAAGGACGGCCCTCCAGGTCTGCAGGCAACAGTGGTTCTCTGGCAACCCTGGA  
 ATAGCTGGACAAAAGGTGATGCTGGACAGCCTGGAGAGAAGGGGCCACCTGGTGTCTCAGGTCCTCCGG  
 GTTCCCCAGGCCACTTGAATTGCAGGGCTAACTGGAGCACGAGGTCTTGTGGACCACCAGGCATGCC  
 AGGTCCACGGGGTAGCCCTGGACCTCAGGGTATCAAGGGTGAAGTGGAAAACCAGGAGCCAGTGGCCAT  
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 GGGATGGAACCTGGATCAGATGGTACGACAGGTGAGATGGATCTCTGGTGGCAAGGGTGTCTGGTGG  
 TGAAAATGGTTCTCTGGTGGCCAGGCCTCTGGTCACTCCAGGCCACCTGGCCCTGTGGTCCATCT  
 GGAAAGAGTGGTGACAGAGGAGAAAATGGCCCTGCTGGTCTTCTGGTGTCCAGGCCCTGCTGGAGCTC  
 GAGGTGCTCCGGTCCCCAAGGTCCACGAGGTGACAAAGGTGAACTGGTGAACGTGGCTAATGGCAT  
 CAAAGGACATCGAGGATCCCTGGCAATCCAGGTCTCCAGGTTCTCTGGTGTCTGGTCAACGAGGT  
 GCAATTGGTAGTCCAGGACCTGCAGGTCCAGAGGACCAGTTGGACCACATGGACCTCTGGAAAAGATG  
 GAACAAGTGGGCATCCAGGTCTATTGGACCACCAGGTCTAGAGGAAACAGAGGTGAAAGAGGATCTGA  
 GGGCTCGCAGGCCACCCTGGACAGCCAGGACCCCTGGACCCCTGGTGGCCCTGGTCCCTGCTGTGGT  
 GGTGGTGTCTGCCATTGCTGGAGTTGGAGGTGAAAAGTCTGGTGGCTTTTACCCTATTATGGAGACG  
 ATCCAATGGATTTCAAGATCAACACTGAAGAGATTATGTCTTCACTCAAGTCTGTTAATGGACAAATAGA  
 GAGTCTTATAAGCCCTGATGGTTCTCGAAAAACCTGCTCGAACTGCAGAGACCTAAAATTCTGCCAC  
 CCCGAACCTCAAGAGTGGAGAATACTGGGTGATCCTAACCAAGGTGCAAGATGGATGCTATAAAAGTAT  
 TCTGTAACATGGAACTGGGGAACATGCATAAATGCCAGCCCATGACTGTCCCACGTAAGCACTGGTG  
 GACAGATTCTGGTGCAGAGAAGAAACATGTTTGGTTTGGAGAATCTATGAATGGTGGTTTTCAAGTTCAGC  
 TATGGCCCTCTGATCTTCTGAAGATGTCTGTGATGTGCAGCTGGCATTCTCAGACTTCTTCCAGCC  
 GGGCTCCCAGAACATTACATACCCTGCAAAAACAGTATTGCCTATATGGATCAGGCCAGTGGCAATGT  
 AAAGAAGTCTCTGAAGCTGATGGGATCAAATGAAGGCGAATTCAAGGCTGAAGGAAACAGCAAATCACT  
 TACACAGTTCTAGAGGATGGCTGTACTAAACACTGGGGAATGGAGCAAGACAGTCTTTGAATATCAA  
 CACGCAAGGCAATGAGACTACCCATCATAGATATCGCACCTATGACATTGGGGGCTCTGATCAAGAATT  
 TGGTGTGGACATTGGCCCTGTTTGTCTTTTATAAGCCAACTCTGAAACCCAGCAAAAACAAAAACCA  
 CATCCATGTGTTTCTTTGTTTAACTTATCAACCAGTCAAGTGACCAACTAAATCCAGTTATTTAT  
 TTCCAACTTTTGGAAAAAGCATAATTTGACAAAAAAGAATACAATTTTTTGTGTTTTCAACCACCCAA  
 TACAGGTCAAATGCTTTTGTATTTTTTACCAATTCCAACCTCAAAATGTCTCAATGGTGTATAAT  
 AAATAACGTCAACACTTTTATGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI  
**ACCN:** NM\_009930  
**Insert Size:** 4395 bp

<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="#">BC058724</a> , <a href="#">AAH58724</a>
<b>RefSeq Size:</b>	4812 bp
<b>RefSeq ORF:</b>	4395 bp
<b>Locus ID:</b>	12825
<b>UniProt ID:</b>	<a href="#">P08121</a>
<b>Cytogenetics:</b>	1 23.67 cM
<b>Gene Summary:</b>	This gene encodes the alpha-1 subunit of the fibril-forming type III collagen found in bone, cartilage, dentin, tendon, bone marrow stroma and other connective tissue. The encoded protein forms homotrimeric type III procollagen that undergoes proteolytic processing during fibril formation. A majority of mice lacking the encoded protein die within two days of birth but about 5% of the animals survive to adulthood. The surviving mice exhibit severe cortical malformation and experience significantly shorter lifespan. The mutant mouse named "tight skin 2" exhibiting systemic sclerosis phenotype was found to harbor a missense point mutation in this gene. A pseudogene of this gene has been defined on chromosome 8. [provided by RefSeq, Nov 2015]