

## Product datasheet for MC224965

### Col5a1 (NM\_015734) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Col5a1 (NM_015734) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Col5a1
Synonyms:	AI413331
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224965 representing NM_015734 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGTACACACCCGCTGAAAGCTGCGCGCCAGGCGCCCTGCTGCTGTCTTCGCCGCTACTCCTGT  
TCCTGCTGCTGTGGCGCCGCTTCGAGCCGCGCAGCTCAGCCAGCAGATCTTCTGGAGATGCTAGA  
TTTTACAATTTGCCCTCAGGGTAACGAAAACACAGGTTTCTGTGCTACTCGAAGATCTCCAGCGAG  
CCGGATGTTGCCCTACCGAGTCTCTAAAGATGCACAGCTCAGCATGCCACCAAGCAGCTGTACCCTGAGT  
CTGGTTTTCCCGAGGACTTCTCCATCCTGACAACCGTGAAAGCCAAGAAAGGCAGCCAGGCCCTTCTAGT  
CTCCATTTACAATGAGCAGGGCATCCAGCAGTTGGGGCTGGAGCTGGGCCGCTCCCTGTCTTCTCTAT  
GAGGACCACACAGGGAAGCCCGGCCCTGAAGAGTATCCGCTTTTCCCTGGCATCAACTTGTCCGATGGCA  
AGTGGCACCGAATTGCTCTCAGTGTCTACAAGAAAAATGTCACCTTGATCCTCGACTGTAAGAAGAAGAT  
TACGAAGTTCTCAGCCGAGTGACCACCCATAATAGACACCAATGGGATTGTCATGTTGGCTCCCGG  
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TAACCCGATGAATATTACCCAGAAGGAGAGGGTGAGACCTATTACTATGAGTATCCATATTATGAAGAC  
CCTGAAGACCCGGAAAGGAGCCTGCCCTACTCAGAAGCCAGTGGAAGCTGCCAGAGAAACCACAGAGG  
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GGAGGACAGTCTAGGATCGGGACTATGACTACGTGCCCCAGATGACTATTACACTCCACCCCATAT  
GAAGACTTTGGATATGGCGAGGGTGTGGAGAACCCTGACCAGCCACCAACCCCGACTCAGGGGCTGAGG  
TCCCCACCAGCACCCTGTTACCTCCAACCTCCAATCCAGCTCCAGGAGAAGGGAAGGATGACCTGGG  
CGCGGAATTCACCGAGGAAACCATCAAGAATCTAGAGGAAAACCTACTATGACCCGTACTTTGACCCGAC  
TCCGACTCCAGTGTCTCTCCATCAGAGATAGGGCCAGGCATGCCGCTAACCCAGGACACCATCTTTGAGG  
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CAATGGGTGACCTGGAGAAAGGGTCCCCCTGGGCGCCAGGTCTTCTGGAGCTGATGGCTTGCCTG



GCCCCCAGGTACCATGCTCATGCTGCCGTTCCGGTTTGGAGGCGGTGGCGATGCCGTTCTAAGGGCCC  
 CATGGTCTCTGCGCAGGAGTCCCAGGCCAGGCTATCCTCCAGCAAGCCAGGTTGGCACTGAGGGGACCA  
 GCTGGCCCAATGGGTCTCACC GGAGACCTGGCCCCATGGGTCTCTCTGGGAGTGGCGGTTTAAAGGTG  
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 AAGACGGGGCCGTGCTGGAAGTATGGAGCCAGAGGCATGCTGGACAAACAGGCCCAAGGTTGACCGT  
 GGCTTTGATGGTCTGGCTGGGTTGCCGGAGAGAAAAGGCCATAGAGGTGACCTGGTCTCTGGCCCGC  
 CCGGAATCCCAGGAGATGATGGAGAAAGGGTGACGATGGAGAAGTTGGGCCAGGGGACTGCCCGGGGA  
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 CGGCTTCTGGACCAAGGTTCCCGGGGCCACCAGGCAAGGACGGACTCCCTGGACACCTGGGCAG  
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 AAGGCAGTGAAGGCCCCCTGGCCACCAGTCTGCGGGTTCTCCAGGGGAGAGAGGACCAGTGGTGC  
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 CTTCTGGCGAGAAAAGTCCACAAGGCCAGCTGGCCGAGATGGCTCCAAGTCCCGTGGGGCTCCCTG  
 GACCAGCCGGCCAGTGGTCTCTGGAGAAGATGGAGATAAGGGAGAGATCGGAGAGCCAGGGCAGAA  
 GGGAAAGCAAGGGCGACAAAGGCGAGCAGGTCCTCTGGCCCTACCGTCTCAAGGCCGATTGGACAG  
 CCAGGCCCTTCCGGAGCAGATGGTGAACCTGGCCCTCGTGACAGCAGGGCTGTTGGGAGAAAAGGAG  
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 AGAAAAGGGCGAGACAGGAGACGTGGGCCAGATGGGCCCTCTGGTCCACCAGGCCCCCGAGGACCTCT  
 GGAGCTCCAGGTGCCGATGGACCACAGGTCCTCTGGAGGGATTGGCAACCCTGGTGCAGTCGGAGAAA  
 AGGGAGAACCTGGTGAAGCTGGAGATCCTGGCCTTCCAGGAGAAGGAGGTTCCCTGGGACCTAAAGGAGA  
 AAGAGGGGAGAAAGGAGAGGCTGGCCCTCTGGTGTGCTGGACCCCTGGACCCAAAGGCCCTCTGGA  
 GATGATGGCCCCAAAGGCAGCCCTGGCCCTGTGGGCTTCTGGAGATCCTGGTCCCTGGAGAGCCAG  
 GCCCCGACGTCAGACGGCCACCTGGTGACAAAGGGGACGATGGTGAACCTGGGACAGCGGGTCCCC  
 GGGCCCTACTGGTGAACCTGGTCCATCTGGCCCTCCAGGAAAGAGGGTCCCCAGGCCCTGCAGGCCCT  
 GAAGGCAGGCAGGGGGAGAAAAGGAGCCAAAGGAGAAGCTGGCTTAGAAGGCCCTCTGGGAAGACTGGCC  
 CCATTGGCCCCCAAGGGGCCCTGGGAAGCCTGGCCCGATGGTCTCCGTGGAATCCCTGGTCTGTGGG  
 TGAGCAAGGCCTCCAGGATCCCAGGCCCGATGGTCCACCCGCCCCATGGTCTCCAGGACTCCCT  
 GGCCTCAAAGGAGACTCCGGTCCCAAAGGTGAAAAGGGCCATCCAGGCCTGATTGGACTCATCGGCCCTC  
 CGGGAGAGCAAGGTGAAAAGGTTGACCGTGGACTCCCAGGCCCCAGGTTTCTGGTCTAAAGGAGA  
 TCAGGGCATCACAGTCTTCTGGCCACTTGGCCCTCTGGTCTCTGGCTTGGCGGGCCCTCCAGGT  
 CCCAAAGGTGCTAAGGGCTTTCGGGTCCACCGGCCGAAGGTTGAGGCAGGCCACCCAGGACTCCCCG  
 GCCACCTGGCCCTCCGGGTGAGGTCTCCAGCCCTGCCAATCCAGGCCTCCAGGACTCGGCGGAACAT  
 TGATGCCAGCCAGTCTGGACGATGGGGTGGGAGAGCTACGTGGATTATGCAGATGGCATGGAAGAG  
 ATCTTTGGTTCCCTCAACTCCCTGAAGCTGGAGATTGAACAGATGAAGCGACCACTGGGCACCCAGCAGA  
 ACCCAGCCGTACTGCAAGGATCTACAGCTCTGTCTACTGACTTCCCAGATGGCGAATACTGGGTGCA  
 TCCCAACCAAGGGTGGTCCAGGGACTCCTTCAAAGTCTACTGCAATTTCCAGCTGGAGGGTCCACGTGC  
 GTCTTCCCTGACAAGAAGTCTGAGGGAGCCAGAATCACTTCTTGGCCCAAGAAAACCCAGGTTCTGGT  
 TCAGTGAATCAAGCGTGGGAACTGCTCTCTATGTGGATGCTGAAGGCAACCCCGTGGGCGTGGTACA

AATGACCTTCCTGCGGCTGCTGAGCGCCTCTGCCACCAGAACGTACCTACAACCTGCTACCAGTCCGTG  
GCCTGGCAGGATGCCGCCACAGGCAGCTATGATAAGGCTATCCGCTTCTTGGGCTCCAACGATGAGGAAA  
TGTCTTATGATAACAACCCCTACATCCGTGCCCTGGTGGATGGCTGTGCTACCAAGAAAGGCTACCAGAA  
GACGGTGTGGAGATCGACACGCCCAAAGTAGAGCAAGTCCCCATTGTGGACATCATGTTCAACGACTTT  
GGCGAAGCCTCACAGAAATTTGGATTTGAAGTGGGCCAGCTTGCTTCTAGGC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_015734
<b>Insert Size:</b>	5517 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="#">NM_015734.2</a> , <a href="#">NP_056549.2</a>
<b>RefSeq Size:</b>	8420 bp
<b>RefSeq ORF:</b>	5517 bp
<b>Locus ID:</b>	12831
<b>UniProt ID:</b>	<a href="#">O88207</a>
<b>Cytogenetics:</b>	2 19.38 cM
<b>Gene Summary:</b>	Type V collagen is a member of group I collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin (By similarity). Transcriptionally activated by CEBPZ, which recognizes a CCAAT-like motif, CAAAT in the COL5A1 promoter. [UniProtKB/Swiss-Prot Function]