

Product datasheet for **RN203050**

Col5a1 (NM_134452) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col5a1 (NM_134452) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Col5a1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN203050 representing NM_134452 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGTACACACCCGCTGAAAGCTCCGCGCCCGGGCCCGCTGCTGTCTCGCCGCTGCTCTGCTC
TCCTGCTGCTGTGGCGCCGCTCCGAGCCGCGCAGCTCAGCCAACAGATCTTCTGGAGATGCTAGA
TTTTACAATTTGCCCTCAGGCGTAACGAAAACACAGGTTTCTGTGCCACTCGACGATCTTCAAAGAG
CCGGATGTTGCCTACCGAGTCTCTAAAGATGCACAGCTCAGCATGCCACCAAGCAGCTGTACCCTGAGT
CTGACTTTCTGAGGACTTCTCCATCCTGACAACCGTGAAAGCCAAGAAAGGCAGTCAGGCTTCTCGGT
CTCCGTTTACAATGAGCAGGGCATCCAGCAGTTGGGACTGGAGCTGGGCCGCTCCCTGTCTTCTCTAT
GAGGACCACACAGGGAAGCCCGGCCCTGAAGAGTATCCACTCTTCCCTGGCATCAACCTGTCCGATGGCA
AGTGGCACCGAATCGCTATCAGTGTATAACAAGAAAATGTCACCTTGATCCTCGACTGTAAGAAAGAGAT
CACGAAGTTCTCAACCGCGCCGACCACCCATAATAGATGTCAACGGTATCATCATGTTTGGCTCCCGG
ATTCTGGATGATGAAATATTTGAGGTTGACATCCAACAGTTGCTCTTCGTCCTCCGACCACCGAGCTGCCT
ATGATTACTGTGAGCACTACAGCCCGACTGTGACACAGCGGTCCCTGACACACCTCAGTCACAGGACCC
TAACCCAGATGAATATTACCCAGAAGGAGAGGGTGAGACCTATTACTATGAGTACCCATATTATGAAGAC
CCTGAAGACCCGGGAAAGGAGCCCGCCCTCTCAGAAGCCAGTGGAAGCCGCCAGAGAAACCACGGAGG
TTCTGAGGAGCAGACCCAGCCCATCCGAAGCCCTACAGTGCCTGAGACCAGTGACACGGCTGGCAA
GGAGGACAATCCAGGGATCGGGGACTACGACTATGTGCCACTGACGACTACTACACTACATCCCCGTAT
GAAGACTTCGGCTATGGCGAGGGCGTGGAGAACCCGACCAGCCACCAACCTGACTCAGGGGCCGAGA
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CCTGGGAGGTGAGTTCACCGAGGAGACCATCAAGAATCTAGATGAAAACACTACGACCCGTACTTTGAC
CCGGACTCCGACTCCAATGTCTCTCCATCGGAGATAGGGCCAGGCATGCCTGCTAACCCAGGACACCATCT
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GCTGATAGAGGGGCCCTGACCCTGAAGGCCCTGCTGCTTCCAGGACCTCCAGGAACTACGGGTCTCT
ACTGGCCAAATGGGTGACCCTGGAGAAAGGGTCCCCCTGGGCGCCAGGTCTTCTGGGGCTGATGGCT
TGCCAGGTCCCCCGGGACCATGCTCATGCTGCCGTTCCGTTTTGGAGGTGGTGGCGACGCCGTTCTAA
GGGCCCATGGTCTCTGCCAGGAATCCAGGCACAGGCTATCCTTCAGCAAGCCAGGTTGGCACTAAGG



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GGACCAGCTGGTCCAATGGGTCTCACCGGAGACCTGGCCCCATGGGTCCTCCTGGGAGTGGAGTTTGA
 AGGGTGAGCCAGGAGACATGGGACCTCAGGGTCTCGAGGTGTGCAAGGTCCACCCGGCCCAACAGGGAA
 GCCTGGAAGACGGGGCCGTGCTGGGAGTGTGGTCCAGAGGCATGCCTGGACAAACAGGCCCAAGGGT
 GACCGTGGCTTTGATGGTCTGGCTGGGTTGCCGGGAGAGAAAGGCCATAGAGGTGACCCTGGTCTTCTG
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 AGCAGGGTAATCCTGGTGCCAGGGTCTTCCCGTCCCAGGGTGCCATTGGTCTCAGGAGAAAAGGG
 TCCTTTGGGAAAACAGGTCTCCAGGAATGCCGGAGCTGATGGACCCCGGGGACCCCTGGCAAAGAA
 GGTCTCCAGGAGAGAAAGGAGGCCAGGGTCTCCCGGCCCCAGGGTCCATTGGCTACCCAGGTCCAC
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 GGGCAGAGAGGGGAGACTGGTTTCAAGGCAAGACTGGCCCTCCAGGCCCTCCAGGAGTGGTTGGCCCTC
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 GAGAAAAGGGAGAGCCTGGCGAAGCTGGAGAGCCTGGCCTTCCAGGAGAAGGAGGTCCCTGGGACCTAA
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 CCTGGAGATGATGGCCCCAAAGGCAGCCCCGGCCCGTGGGCTTCTGGAGACCCTGGGCCCCCTGGAG
 AGCCAGGCCCAGCAGGTCAAGATGGCCACCTGGTGACAAAGGGGATGATGGAGAACCCTGGGAGACGGG
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 GGCCCTGAAGGCAGGCAGGGGGAGAAAGGAGCCAAGGGAGAAAGCTGGCTTAGAAGGCCCTCTGGGAAGA
 CTGGCCCCATTGGTCCCCAAGGGGCCCTGGGAAGCCTGGCCCTGATGGTCTTCTGGGATCCCTGGTCC
 TGTGGTGAGCAAGGCCCTCCAGGATCCCAGGCCCTGATGGTCCACCCGGCCCATGGGTCTCCAGGA
 CTCCTGGCCTCAAAGGAGACTCCGGTCCCAAAGGTGAAAAGGGCCATCCGGGCCTGATTGGACTCATCG
 GACCTCCGGGCGAACAAGGTGAAAAGGTGACCGAGGACTCCCAGGCCCCAGGGCTCATCTGGTCTTAA
 AGGAGAACAGGGCATTACAGGTCTTCTGGCCCGCTTGGGCTCCTGGTCCCCCAGGCTTCCCGGGCCCT
 CCAGGTCCCAAAGGTGCTAAAGGTTTCACTGGGTCCCACTGGCCCGAAGGGCGAGGAGCCATCCAGGAC
 TCCCTGGTCCACCGGGCTCCAGGCGAGGTATCCAGCCCTGCCAATCCAGGCGTCCAGGACTCGGGC
 GAACATTGATGCCAGTCACTCCTGGATGATGGGGCTGGGAGAGCTACGTGGATTATGCAGATGGCATG
 GAAGAGATCTTTGGTCCCTCAACTCCCTGAAGCTGGAGATTGAGCAGATGAAGCGGCCACTGGGCACAC
 AGCAGAACCCAGCCGTACTGCAAGGACCTTCAACTCTGCCATCCTGATTTCCAGACGGCGAATACTG
 GGTGATCCCAACCAAGGGTGTCCAGGGACTCCTTCAAAGTCTACTGCAATTTACAGCTGGAGGGTCC
 ACGTGCCTTCCCTGACAAGAAGTCTGAGGGAGCCAGAATCACTTCTTGGCCAAAAGAAAACCCAGGTT
 CCTGGTTCAGTGAATTAAGCGTGGGAACTGCTCCTATGTGGATGCTGAAGGCAACCCTGTGGGCGT
 GGTACAAATGACCTTCTGCGGTGCTGAGTGCCTCTGCCAGCAGAATCACCTACAAGTGTACCCAG
 TCCGTGGCCTGGCAGGATGCCGCCACAGGCAGTACGATAAGGCTATCCGCTTCTGGGCTCCAACGATG

AGGAAATGTCTTATGATAACAACCCCTACATCCGTGCCCTGGTGGATGGCTGTGCTACCAAGAAAGGCTA
CCAGAAGACGGTGTGGAGATTGACACGCCCAAAGTTGAGCAAGTCCCCATTGTGGACATCATGTTCAAC
GACTTTGGTGAAGCCTCACAGAAATTTGGATTTGAAGTAGGGCCAGCTTGCTTCTAGGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_134452
Insert Size:	5523 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:	<u>NM_134452.1</u> , <u>NP_604447.1</u>
RefSeq Size:	5551 bp
RefSeq ORF:	5523 bp
Locus ID:	85490
UniProt ID:	<u>Q9JI03</u>
Cytogenetics:	3p12
Gene Summary:	alpha chain of type V collagen; binds heparin with high affinity [RGD, Feb 2006]