

Product datasheet for SC119899

COL5A2 (NM_000393) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL5A2 (NM_000393) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL5A2
Synonyms:	EDSC; EDSCL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000393, the custom clone sequence may differ by one or more nucleotides

GAAAAAGGGGTTTGCAGAGGCTGCCCTGGGGCTGGTGCTGAAAGAAGAGCCACAGCTGACTTCATGGT
GCTACAATAACCTCAGAATCTACTTTTCACTCTCAGGAGAACCCACATGTCTAATATTTAGACATGATGG
CAAACCTGGGCGGAAGCAAGACCTCTCCTCATTCTTATTGTTTTATTAGGGCAATTTGTCTCAATAAAAGC
CCAGGAAGAAGACGAGGATGAAGGATATGGTGAAGAAATAGCCTGCACTCAGAATGGCCAGATGACTTA
AACAGGGACATTTGAAACCTGCCCTTGTGAGATCTGTGTCTGTGACAATGGAGCCATTCTCTGTGACA
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TTCACAAAACCTGGAGGTGGCAATACAAATTTTGGTAGAGGAAGAAAGGGACAAAAGGGAGAACCAGGA
TTAGTGCCTGTTGTAACAGGCATACGTGGTCGTCCAGGACCGGCAGGACCTCCAGGATCACAGGGACCAA
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CCGTTTTTCAGCTCAATGGCTGGGTTGGATGAAAAATCTGGACTTGGGAGTCAAGTAGGACTAATGCCTG
GCTCTGTGGGTCCTGTTGGCCAAAGGGGACCACAGGGTTTACAAGGACAGCAAGGTGGTGCAGGACCTAC
AGGACCTCCTGGTGAACCTGGTATCCTGGACCAATGGTCCGATTGGTTCACGTGGACCAGAGGGCCCT
CCTGGTAAACCTGGGGAAGATGGTGAACCTGGCAGAAATGGAAATCCTGGTGAAGTGGGATTTGCAGGAT
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TCTTGAAGGCCCTAAAGGTGAAGTTGGAGCACCTGGTTCGAAGGGTGAAGCTGGCCCACTGGTCCAATG
GGTGCCATGGGTCCTCTGGGTCCGAGGGGAATGCCAGGAGAGAGAGGGGAGACTTGGGCCACAGGGTGCTC
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TTCTGGTTTTCCAGGAAATCCTGGAATGAAGGGAGAAGCAGGTCTACAGGGGCGCAGGGCCCTGAAGGT
CCTCAGGGGCAGAGAGGTGAACTGGGCCCCAGGTCCAGTTGGCTCTCCAGGTCTTCTGGTGCATAG
GAACTGATGGTACTCCTGGTGCCAAAGGCCAACGGGCTCTCCGGTACCTCTGGTCTCTGGCTCAGC
AGGGCCTCCTGGATCTCCAGGACCTCAGGGTAGCACTGGTCTCAGGGAATTCGAGGCCAACGGGTGAT
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CGATAGGCCACCCGGTGAAGAAGGCAAAAAGAGTCCCAGAGGTGACCCAGGAACAGTTGGTCTCCAGG
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 GGTGCTCAAGGAGAACGGGGTCTGTAGTTTCTCAGGACCCAAAGGAAGCCAGGGGGATCCAGGACGTC
 CAGGGGAACCTGGGCTCCAGGTGCTCGGGTTTGACAGGAAATCCTGGTGTTCAGGTCCTGAAGGAAA
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TTAAATAGTATATATTCAGTGGCATTGAGAGACAAAGTGAATTTACTTCGACTTCTTAAATTTTGTAAAGACTATAAGTTTAGACATCTTTCTCATTCAAATTTAAAGATATCTTTCTCCTCTTGATCAATCTATCAATATTGATAGAAGTCACTAGTATATACCATTTAATACATTTACACTTCTTATTTAAGAAGATTTGAATGCAAATAAATTGACATATAGAATTTACAACATATGTCCAAGGACTCTAAATTGAGACTCTCCACATGTACAATCTCATCCTGAAGCCTAATGAAGAAAAAGTCTAGAACTGAGTTGTGGAGCTGACTCTAATCAAATGTGATGATTGGAATTAGACCATTTGGCCTTGAACCTTCATAGGAAAAATGACCAACATTTCTTAGCATGAGCTACCTCATCTCTAGAAGCTGGGATGGACTTACTATTCTTGTATATTTTAGATAC TGAAAGGTGCTATGCTTCTGTTATTATTCCAAGACTGGAGATAGGCAGGGCTAAAAAGGTATTATT TTCTTTAATGATGGTGCTAAAATTTCTCTATAAAAATTCCTTAAAAATAAAGATGGTTTAACTACTACCATTGTGAAAACATAACTGTTAGACTTCCCGTTTCTGAAAGAAAGAGCATCGTTCCAATGCTTGTCTACTGTTCTCTGTCATACTGTATCTGGAATGCTTGTAACTTGCATGCTTCTTAGACCAGAACATGTAGGTC CCCTTGTGCTCAATACTTTTTTTTTCTTAATTGCATTTGTTGGCTCTATTTTAAATTTTTTTCTTTTAAATAAACAGCTGGGACCATCCAAAAGACAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000393 unedited
 GGGGGGGGGGNNNNNNNNNNNTTNNNNNNNTTTTTTACC CGCCGTTGNCCCAAAGGGCGGTAGGCGTGTACGGTGGNGAGTCTATATAAGCAGAGCTCATTTAGGTGACACTA TAGAATACAAGCTACTTGTCTTTTTGCAGCGCCGCAATTCGGCACGAGGGAAAAAGGGTTTGACAGAGGCTGCCCTGGGGCTGGTGTGAAAGAAGAGCCACAGCTGACTTCATGGTGCTACAATAACCTCAGAATCTACTTTTACTCTCAGGAGAACCACATGTCTAATATTTAGACATGATGGCAAACCTGGGCGGAAGCAAGACCTCTCCTATTCTATTGTTTTATTAGG GCAATTTGTCTCAATAAAAGCCAGGAAGAAGACGAGGATGAAGGATATGGTGAAGAAATAGCCTGCACTCAGAATGGCCAGATGTACTTAAACAGGGACATTTGGAAACCTGCCCTTGT CAGATCTGTGTCTGTGACAATGGAGCCATTCTCTGTGACAAGATAGAATGCCAGGATGTGCTGGACTGTGCCGACCCTGTAACGCCCTGGGGAAATGCTGTCTGTCTGTTTCAAAACACCTGGAGGTGGCAATACAAATTTTGGTAGAGGAAGAAAGGGACAAAAGGGAGAACCAGGATTAGTGCCTGTGTAAACAGGCATACGTGGTCCAGGACCGGCAGGACCTCCAGGATCACAGGGACCAAGAGGAGCGAGGGCCAAAAGGAAGACCTGGCCCTCGTGGACCTCAGGGAATTGATGGAGAACCAGGTGTTCTGGTCAACCTGGTGTCCAGGACCTNCTGGACATCCGTCCCACCCAGGACCCGATGGCTTGAGCAGGCCGTTTTTCAGCTCAATGGCTGGGTTGGATGAAAATCTGNACTTGGAGTCAGTNAGACTAATGCTGNCTCTGTGGGTCCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000393 unedited
 AACTACGTGTANGTGGCCGCTTCTANGATCGGTTTTTTCTTTTTTTTTTGTCTTTTGGGATGGTCCCAGCTGTTTTATTTTAAAAGAAAAAATTAATAAGAGCCAACAATGCAATT AAGAAAAAAAAGTTTGAGACACAAGGGGACCTACATGTTCTGGTCTAAGAAGCATGCAAGTATTACAAAGCATTCCAGATACAGTATGACAGATGAACAGTGAACAAGCATTGGAACGATGCTCTTTCTTTTCAAGAACGGGAAGTCTAACAGTTATGTTTTTCACAATGGTAGTGATTAACCATCTTTATTTTAAAGGAATTTATAGGAAGAATTTAGCACCATCATTAAAGGAAAAATAATAATACCTTTTAGCCCTGCCTATCTCCAGTCTTGGAAATAACAGAAGCATAGCACCTTTCAGTATCTAAAATAAACAAGAATAGTAAGTCCATCCCAGCTTCTAGAGATGAGTAGCTCATGCTAAGAAATGTTGGTCATTTTTCTATGAAAGTTCAAAGGCCAAATGGTCTAATCCAATCATCACATTTGATTAGAGTCAGCTCCACAACCTCAGTTTCTAGATCTTTTCTTTCATTATAAGCTTCANGATGATGAGATTGTACATGTGGAAGAGTCTCAATTTAGATCCTTGGACATATGTTTGTAAAGTTCTATATGTCAATTATTTGCAATCAATATCTTCTTAAATTAGAAAGTGAATGTATTAATGTATATACTANTGTGACTTCTATCAATATTGATAGATTGATCAAGAAGAGGAAAGATATCCTTAAATTTGAATGAGAAAGAATGTCTAAACTTATAGTGCTTTTACAAAAATTTAGAAAGTCAAGTAAATTCACCTTGGTCTCCAATGGC CA

Restriction Sites:

NotI-NotI

ACCN:

NM_000393

Insert Size:	6000 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_000393.2, NP_000384.1</u>
RefSeq Size:	6930 bp
RefSeq ORF:	6930 bp
Locus ID:	1290
UniProt ID:	<u>P05997</u>
Cytogenetics:	2q32.2
Domains:	COLFI, VWC, Collagen
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion
Gene Summary:	This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. Mutations in this gene are associated with Ehlers-Danlos syndrome, types I and II. [provided by RefSeq, Jul 2008]