

Product datasheet for **SC110867**

Decorin (DCN) (NM_001920) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Decorin (DCN) (NM_001920) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Decorin |
| Synonyms: | CSCD; DSPG2; PG40; PGII; PGS2; SLRR1B |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001920, the custom clone sequence may differ by one or more nucleotides |

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ATGAAGGCCACTATCATCCTCCTCTGCTTGCACAAGTTTCTGGGCTGGACCGTTTCAACAGAGAGGCT
TATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCAGAAAGTTCTGATGACCGCGACTTCGA
GCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTCGAGTGGTCCAGTGTCTGATTTG
GGTCTGGACAAAGTGCCAAAGGATCTTCCCCTGACACAACCTCTGCTAGACCTGCAAAACAACAAAATAA
CCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACCTTCACGCATTGATTCTTGTCAACAATAAAAT
TAGCAAAGTTAGTCTGGAGCATTACACCTTTGGTGAAGTTGGAACGACTTTATCTGTCCAAGAATCAG
CTGAAGGAATTGCCAGAAAAATGCCAAAACCTTTCAGGAGCTGCGTGCCCATGAGAATGAGATCACCA
AAGTGCGAAAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAGAACTGGGCACCAATCCGCTGAA
GAGCTCAGGAATTGAAAATGGGGCTTTCAGGGAATGAAGAAGCTCTCCTACATCCGCATTGCTGATACC
AATATCACCAGCATTCTCAAGGTCTTCTCCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCA
GCAGAGTTGATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCTAAGTTGGGATTGAGTTTCAACAGCAT
CTCTGCTGTTGACAATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAG
CTTACCAGGTACCTGGTGGGCTGGCAGAGCATAAGTACATCCAGTTGTCTACCTTCATAACAACAATA
TCTCTGTAGTTGGATCAAGTGACTTCTGCCACCTGGACACAACCAAAAAGGCTTCTTATTGGGTGT
GAGTCTTTTCAGCAACCCGGTCCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGC
TCTGCCATTCAACTCGGAAACTATAAGTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001920 unedited
 CGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTCGGCACGAG
 GGAAGCAGGAGGTTTTCAACCTAGTCACAGAGCAGCACCTACCCCTCCTCTTTCCACA
 CCTGCAAACCTCTTTACTTGGGCTGAATATTTAGTGTAATTACATCTCAGCTTTGAGGGC
 TCCTGTGGCAAATCCCGGATTAAGAGTTCCCTGGTTGTGAAAATACATGAGATAAATC
 ATGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCTGGGCTGGACCGTTTCAA
 CAGAACAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCCAGAAGT
 TCCTGATGACCGGACTTCGAGCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATG
 CCATCTTCGAGTGGTCCAGTGTTCTGATTTGGGCTGGACAAAAGTGCCAAAGGATCTTCC
 CCCTGACACAACCTCTGCTAGACCTGCAAAAACAACAAAATAACCGAAATCAAAGATGGAGA
 CTTTAAGAACCTGAAGAACCTTCACGCATTGATTCTTGCAACAATAAAATTAGCAAAGT
 TAGTCCTGGAGCATTTACACCTTTGGTGAAGTTGGAACGACTNTATCTGTCCAAGATCA
 GCTGAAGGAATTGCCAGAAAAAATGCCANNAACTCTTCANGAGCTGCGTGCCCATGAGA
 ATGAGATCACAAAGTGCAGAAAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAG
 AACTGGGCACCAATCCGCTGAAGAGCTCANGAATTGANAATGGGGCTTTCCAGNGAATG
 AAGAAGNCTCTCTACATTCCGCATTGCTGATACCAATATCACCCAGCATTCTCAAGGNN
 CTTCTCCTTNCCTTAGGNNNATACATCTGATGGGCACAATCANCANAGTGATGCANCTAG
 CTGAAGGACTNNGATATTNGCTAAGTGGGATGAGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001920 unedited
 CCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATTTGAATGTATTTTT
 AAATTTATTTTTCAAATAATGACATTAGTAAAAATTTACATAGCCTGTATTGAATTC
 ACACATTCAAATGAGGCTTTACCAGTAATGATGGGGATTAATACAGAGCTAGTGTGGC
 ATTTGACTTTATCTCAAATGAGCTAACTGCTCAATGAATTACAGAAGACTCATACTCTTT
 TTTTTTTTTCTGGAAATTAAGAAAGAAAAGCTTTACTAAATATTGACATATATATTTAC
 TCCAAATTTTACATTTAGTGAATAAGAATATCTCTAGTAGCTCAGTTAACATCAACAGA
 AAGCTTCAAAGATGATTCTGAAAATGGCAGGCAAAATTTCTTTTTATTGTAGGCAATTA
 CTTAAACTGGAATTTGGCTTTATGCATAATAAGTCATGTGGGTAACATCCACATTGC
 AGTTAGGTTTCCAGTATCTAGCTTTTATTTATTTTTAGCAATGACATTAACAAGATTTT
 GCCAGGTATAAAAAATGAGGGCTTTCTTGAGAATTACTTATAGTTTCCGAGTTGAATGGC
 AGAGCGCACGTAGACACATCTGAAGGTGGATGGCTGTATCTCCAGTACTGGACCGGGTT
 GCTGAAAAGACTCACACCCGAATAAGAAGCCTTTNTGGNTGTTGTGTCCAGTGGGCAGA
 AGTCACTTGATCCCACTACAGAGATATTGNTGNTATGAANGTAGACAACCTGNATGACT
 TATGCTCTGCCAGCCACCCAGTACTCTGGTAAAGCTGTTGTGTCCAAGTGAAGCTCCTC
 AATGAAGCGTGTGCCAGNAAGCATNGTCACAGCAGAGATGCTGTGAACTCATCCNACTA
 GCCAANTATCAGTCTTCAGCTACTGCATCACTTGCTGATTTGTGCATCAGATGA

Restriction Sites:

NotI-NotI

ACCN:

NM_001920

Insert Size:

1770 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:

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_001920.3](#), [NP_001911.1](#)

RefSeq Size: 2305 bp

RefSeq ORF: 1080 bp

Locus ID: 1634

UniProt ID: [P07585](#)

Cytogenetics: 12q21.33

Domains: LRRNT, LRR, LRR_TYP, LRR_BAC, LRR_PS

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: TGF-beta signaling pathway

Gene Summary:

This gene encodes a member of the small leucine-rich proteoglycan family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. This protein plays a role in collagen fibril assembly. Binding of this protein to multiple cell surface receptors mediates its role in tumor suppression, including a stimulatory effect on autophagy and inflammation and an inhibitory effect on angiogenesis and tumorigenesis. This gene and the related gene biglycan are thought to be the result of a gene duplication. Mutations in this gene are associated with congenital stromal corneal dystrophy in human patients. [provided by RefSeq, Nov 2015]

Transcript Variant: This variant (A1) represents the longest transcript and encodes the longest isoform. Both variants A1 and A2 encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.