

Product datasheet for **SC320831**

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: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001920.3
 ATAAAAAGGTTCCCTGGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCC
 TCCTTCTGCTTGCACAAGTTTCTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACT
 TTATGCTAGAAGATGAGGCTTCTGGGATAGGCCAGAAAGTTCTGATGACCGCGACTTCG
 AGCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTCGAGTGGTCCAGT
 GTTCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCCCTGACACAACCTGCTAG
 ACCTGCAAAACAACAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACC
 TTCACGCATTGATTCTTGTCAACAATAAAATTAGCAAAGTTAGTCCTGGAGCATTACAC
 CTTTGGTGAAGTTGGAACGACTTATCTGTCCAAGAATCAGCTGAAGGAATTGCCAGAAA
 AAATGCCCAAACTCTTCAGGAGCTGCGTGCCCATGAGAATGAGATCACCAAAGTGC
 GAAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAGAAGTGGGCACCAATCCGCTGA
 AGAGCTCAGGAATTGAAAATGGGGCTTTCCAGGAATGAAGAAGCTCTCCTACATCCGCA
 TTGCTGATACCAATATCACCAGCATTCCCTCAAGGTCTTCCCTTCCCTTACGGAATTAC
 ATCTTGATGGCAACAAAATCAGCAGAGTTGATGCAGCTAGCCTGAAAGGACTGAATAATT
 TGGCTAAGTTGGGATTGAGTTTCAACAGCATCTCTGCTGTTGACAATGGCTCTCTGGCCA
 ACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAGCTTACCAGAGTACCTGGTG
 GGCTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTATAACAACAATATCTCTGTAG
 TTGGATCAAGTGACTTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTG
 TGAGTCTTTTTCAGCAACCCGGTCCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTG
 TCTACGTGCGCTCTGCCATTCAACTCGGAAACTATAAGTAATTCTCAAGAAAGCCCTCAT
 TTTTATAACCTGGCAAAATCTTGTAAATGTCATTGCTAAAAAATAAATAAAGCTAGATA
 CTGGAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAA
 ATTTCCAGTTAAGTAATTGCCTACAATAAAAAGAAATTTGCCTGCCATTTTCAGAATC
 ATCTTTTGAAGCTTTCTGTTGATGTTAACTGAGCTACTAGAGATATTCTTATTTCACTAA
 ATGTAATAATTTGGAGTAAATATATATGTCAATATTTAGTAAAGCTTTTCTTTTTAATTT
 CCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_001920
Insert Size:	1500 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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.