

Product datasheet for SC109144

Decorin (DCN) (NM_133503) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Decorin (DCN) (NM_133503) 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:	>OriGene ORF within SC109144 sequence for NM_133503 edited (data generated by NextGen Sequencing)

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ATGAAGGCCACTATCATCCTCCTCTGCTTGCACAAGTTTCTGGGCTGGACCGTTTCAA
CAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCCAGAAGTT
CCTGATGACCGGACTTCGAGCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATGC
CATCTTCGAGTGGTCCAGTGTCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCC
CCTGACACAACCTGCTAGACCTGCAAAACAACAAAATAACCGAAATCAAAGATGGAGAC
TTAAGAACCTGAAGAACCTTACGCATTGATTCTTGTCAACAATAAAATTAGCAAAGTT
AGTCTGGAGCATTTACACCTTTGGTGAAGTTGGAACGACTTTATCTGTCCAAGAATCAG
CTGAAGGAATTGCCAGAAAAATGCCAAAACCTTTCAGGAGCTGCGTGCCCATGAGAAT
GAGATCACCAAAGTGCGAAAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAGAA
CTGGGCACCAATCCGCTGAAGAGCTCAGGAATTGAAAATGGGGCTTCCAGGGAATGAAG
AAGCTCTCCTACATCCGATTGCTGATACCAATATCACCAGCATTCTCAAGGTCTTCTCT
CCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAGCAGAGTTGATGCAGCTAGC
CTGAAAGGACTGAATAATTTGGCTAAGTTGGGATTGAGTTTCAACAGCATCTCTGCTGTT
GACAATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAG
CTTACCAGAGTACCTGGTGGGCTGGCAGAGCATAAGTACATCCAGTTGTCTACCTTCAT
AACAAACATATCTCTGTAGTTGGATCAAGTGACTTCTGCCACCTGGACACAACACAAA
AAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTACTGGGAGATACAG
CCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAACTATAAGTAA

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Clone variation with respect to NM_133503.2



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_133503 unedited
 GGTGGATTAGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGATAAGTTCT
 TTA AAAAGGTAAGAGCAACGTGCTTTGGGAGCAGAGAAGAGGGAGAAAGCAGCATCTTG
 CCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCATTTAATCTTTACAACCT
 TCTTGCAAGGTTCCCTGGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATC
 CTCCTTCTGCTTGACAAGTTTCTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGAC
 TTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCAGAAGTTCTGATGACCCGCACTTC
 GAGCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTCGAGTGGTCCAG
 TGTTCGATTTGGTCTGGACAAAAGTGCCAAAAGGATCTTCCCTGACACAACCTCTGCTA
 GACCTGCAAAAACAACAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAAC
 CTTACGCATTGATTCTGTCAACAATAAAATTAGCAAAGTTAGTCTGGAGCATTTACA
 CCTTTGGTGAAGTTGGAACGACTTATCTGTCCAAGAATCAGCTGAAGGAATTGCCAGAA
 AAAATGCCAAAACCTTTCAGGAGCTGCGTGCCCATGAGAATGAGATCACCAAAGTGCGA
 AAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAGAAGTGGGCACCAATCCGCTG
 AAGAGCTCAGGAATTGAAAATGGGGCTTTTCAGGAATGAAGAAGCTCTCTACATCCGC
 ATTGCTGATACCATATACCAGCATTCTCAAGTCTTCTCCTTCCCTACGGAATACC
 ATCTGATGGGCACAAATNAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_133503 unedited
 GACCGCGCCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATTTGAATGTATT
 TTTAAATTTATTTTTTCAAATAATGACATTAGTAAAAATTTACATAGCCTGTATTGAA
 TTCACACATTCAAATGAGGCTTTACCAGTAATGATGGGGATTAATACAGAGCTAGTGT
 GGCATTTGACTTTATCTCAAATGAGCTAACTGCTCAATGAATTACAGAAGACTCATACTC
 TTTTTATTTTTTCTGGAATTA AAAAAGAAAAGCTTTACTAAATATTGACATATATATT
 TACTCAAATTTTACATTTAGTGAATAAGAATATCTCTAGTAGCTCAGTTAACATCAAC
 AGAAAGCTTCAAAGATGATTCTGAAAATGGCAGGCAAAATTTCTTTTTATTGTAGGCAA
 TTACTTAAACTGGAAATTTGGCTTTATGCATAATAAGTCATGTGGGTAAACATCCACAT
 TGCAGTTAGGTTTCCAGTATCTAGCTTTTATTTATTTTTTAGCAATGACATTAACAAGAT
 TTTGCCAGGTTATAAAAATGAGGGCTTTCTTGAGAATTAATAGTTTCCGAGTTGAAT
 GGCAGAGCGCACGTAGACACATCTGAAGGTGGATGGCTGTATCTCCAGTACTGGACCGG
 AAGTCACTTGATCCAACACAGAGATATTGTTGTTATGAAAAGTAGACACCCTGGATGTAC
 TTATGCTCTGCCAGCCACCAGTACTCTGTAAGCTTGTGTTGCCCAATGAAACCTCCTC
 ANATGAGCGTGTGCCAGAAAGCATTGTCACAGCAAAAAGCTGTTGAACTCATCCCACTT
 ACCCAATATTCAGCCTTCAGCTAATGCTCACC

Restriction Sites:

NotI-NotI

ACCN:

NM_133503

Insert Size:

1800 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:

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_133503.2](#), [NP_598010.1](#)

RefSeq Size: 2151 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 (A2) differs in the 5' UTR compared to variant A1. 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.