

## Product datasheet for **RC212053**

### Decorin (DCN) (NM\_133505) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Decorin (DCN) (NM_133505) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCN
Synonyms:	CSCD; DSPG2; PG40; PGII; PGS2; SLRR1B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC212053 representing NM_133505 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAAGGCCACTATCATCCTCCTTCTGCTTGACACAAGTTTCTGGGCTGGACCGTTTCAACAGAGAGGCT  
TATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCAGAAAGTTCTGTGACCGCGACTTCGA  
GCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTCGAGTGGTCCAGTGTCTGATTTG  
GGTCTTCCCTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAGCAGAGTTGATGCAGCTAGCC  
TGAAAGGACTGAATAATTTGGCTAAGTTGGGATTGAGTTTCAACAGCATCTCTGCTGTTGACAATGGCTC  
TCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAGCTTACCAGAGTACCTGGTGGG  
CTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTATAACAACAATATCTCTGTAGTTGGATCAAGTG  
ACTTCTGCCCACCTGGACACAACACAAAAAGGCTTCTTATTCCGGGTGTGAGTCTTTTCAGCAACCCGGT  
CCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAAAC  
TATAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC212053 representing NM\_133505  
 Red=Cloning site Green=Tags(s)

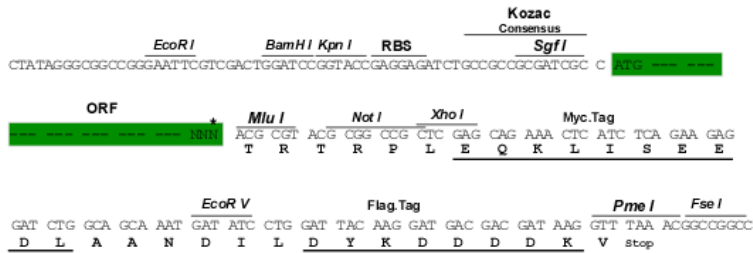
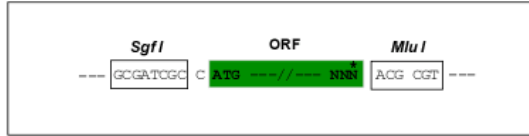
MKATIILLLLAQVSWAGPFQQRGLDFMLEDEASGIGPEVPDDRDFEPSLGPVPCPFRQCCHLRVVCSDL  
 GLPPSL TELHLDGNKISRVDASLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKL TRVPGG  
 LAEHKYIQVVYLHNNNISVVGSSDFCPPGHNTKKASYSVSLFSNPVQYWEIQPSTFRVCYVRSIAIQLGN  
 YK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

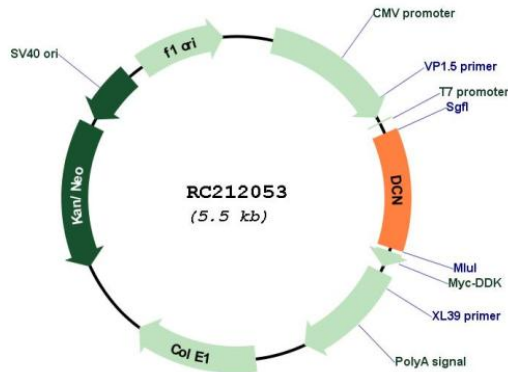
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_133505

**ORF Size:** 636 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133505.3</a>
<b>RefSeq Size:</b>	1456 bp
<b>RefSeq ORF:</b>	639 bp
<b>Locus ID:</b>	1634
<b>UniProt ID:</b>	<a href="#">P07585</a>
<b>Cytogenetics:</b>	12q21.33
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	TGF-beta signaling pathway
<b>MW:</b>	21.5 kDa
<b>Gene Summary:</b>	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]