

Product datasheet for **SC320813**

Lumican (LUM) (NM_002345) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lumican (LUM) (NM_002345) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lumican
Synonyms:	LDC; SLRR2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_002345.3
 GTATCACTCAGAACTGGCAGCCAGTTCCTGCTGACAGAGTTACAGCATATATTGGTG
 GATTCTTGTCCATAGTGCATCTGCTTTAAGAATTAACGAAAGCAGTGTCAAGACAGTAAG
 GATTCAAACCATTTGCCAAAAATGAGTCTAAGTGCATTTACTCTTCTTCTGGCATTGATT
 GGTGGTACCAGTGGCCAGTACTATGATTATGATTTTCCCTATCAATTTATGGGCAATCA
 TCACCAAACTGTCACCAGAATGTAACCTGCCCTGAAAGCTACCCAAGTCCATGTACTGT
 GATGAGCTGAAATGAAAAGTGTACCAATGGTGCCTCCTGGAATCAAGTATCTTTACCTT
 AGGAATAACCAGATTGACCATATTGATGAAAAGGCCCTTGAGAATGTAAGTATGATCTGCAG
 TGGCTCATTCTAGATCACAACCTTCTAGAAAACCTCAAGATAAAAAGGGAGAGTTTTCTCT
 AAATTGAAACAACCTGAAGAAGCTGCATATAAACCAACAACAACCTGACAGAGTCTGTGGG
 CCACCTCCCAAATCTCTGGAGGATCTGCAGCTTACTCATAACAAGATCACAAAGCTGGGC
 TCTTTTGAAGGATTGGTAAACCTGACCTTCATCCATCTCCAGCACAATCGGCTGAAAGAG
 GATGCTGTTTTCAGCTGCTTTTAAAGGTCTTAAATCACTCGAATACCTTGACTTGAGCTTC
 AATCAGATAGCCAGACTGCCTTCTGGTCTCCCTGTCTCTTCTAACTCTCTACTTAGAC
 AACAAATAGATCAGCAACATCCCTGATGAGTATTTCAAGCGTTTTAATGCATTGCAGTAT
 CTGCGTTTATCTCACAACGAACTGGCTGATAGTGAATACCTGGAATTTCTTCAATGTG
 TCATCCCTGGTTGAGCTGGATCTGTCTATAAACAAGCTTAAAAACATACCAACTGTCAAT
 GAAAACCTTGAAAATATTACCTGGAGGTCATCAACTTGAGAAGTTTGACATAAAGAGC
 TTCTGCAAGATCTCTGGGGCCATTATCCTACTCCAAGATCAAGCATTGCGTTTGGATGGC
 AATCGCATCTCAGAAACAGTCTCCACCGGATATGTATGAATGTCTACGTGTTGCTAAC
 GAAGTCACTCTTAATTAATATCTGTATCCTGGAACAATATTTTATGGTTATGTTTTCTG
 TGTGTCAGTTTTTCATAGTATCCATATTTTATTACTGTTTATTACTTCCATGAATTTTAA
 ATCTGAGGGAATGTTTTGTAACATTTATTTTTTTTAAAGAAAAGATGAAAGGCAGGCC
 TATTTTCATCACAAGAACACACACATATACACGAATAGACATCAAACCTCAATGCTTTATTT
 GTAATTTAGTGTTTTTTTTATTTCTACTGTCAAATGATGTGCAAAAACCTTTTACTGGTTG
 CATGGAATCAGCCAAGTTTTATAATCCTTAAATCTTAATGTTCTCAAAGCTTGGATTA
 AATACATATGGATGTTACTCTCTTGACCAAAATATCTTGATACATTCAAATTTGTCTGG
 TTAATAAATAGGTGGTAGATATTGAGGCCAAGAATATTGCAAAATACATGAAGCTTCATG
 CACTTAAAGAAGTATTTTGAATAAGAATTTGCATACTACCTAGTGAAACTTTTCTAG
 AATTTTTTTCACTCTAAGTCATGTATGTTTCTCTTTGATTATTTGCATGTTATGTTTAA
 TAAGCTACTAGCAAAATAAAACATAGCAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAA

Restriction Sites: Please inquire

ACCN: NM_002345

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).

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:

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_002345.3](#), [NP_002336.1](#)

RefSeq Size: 2116 bp

RefSeq ORF: 1017 bp

Locus ID: 4060

UniProt ID: [P51884](#)

Cytogenetics: 12q21.33

Domains: LRRNT, LRR, LRR_TYP, LRR_SD22, LRR_BAC

Protein Families: Secreted Protein

Gene Summary: This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphykan, and osteoglycin. In these bifunctional molecules, the protein moiety binds collagen fibrils and the highly charged hydrophilic glycosaminoglycans regulate interfibrillar spacings. Lumican is the major keratan sulfate proteoglycan of the cornea but is also distributed in interstitial collagenous matrices throughout the body. Lumican may regulate collagen fibril organization and circumferential growth, corneal transparency, and epithelial cell migration and tissue repair. [provided by RefSeq, Jul 2008]