

Product datasheet for SC118686

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118686 sequence for NM_002345 edited (data generated by NextGen Sequencing)

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ATGAGTCTAAGTGCATTTACTCTCTTCCTGGCATTGATTGGTGGTACCAGTGGCCAGTAC
TATGATTATGATTTTCCCTATCAATTTATGGGCAATCATCACCAAAGTGCACCAGAA
TGTAAGTCCCTGAAAGCTACCCAAGTGCCATGTACTGTGATGAGCTGAAATTGAAAAGT
GTACCAATGGTGCCTCCTGGAATCAAGTATCTTTACCTTAGGAATAACCAGATTGACCAT
ATTGATGAAAAGGCCTTTGAGAAATGTAAGTATCTGAGTCTGCAGTGGCTCATTCTAGATCACAAC
CTTCTAGAAAAGTCCAAGATAAAAGGGAGAGTTTTCTCTAAATTGAAACAAGTGAAGAAG
CTGCATATAAACCAACAACCTGACAGAGTCTGTGGGCCACTCCCAAATCTCTGGAG
GATCTGCAGCTTACTCATAACAAGATCACAAAGCTGGGCTTTTTGAAGGATTGGTAAAC
CTGACCTTCATCCATCTCCAGCACAAATCGGCTGAAAGAGGATGCTGTTTTAGCTGCTTTT
AAAGGTCTAAATCACTCGAATACCTTGACTTGAGCTTCAATCAGATAGCCAGACTGCCT
TCTGGTCTCCCTGTCTCTTCTAACTCTACTTAGACAACAATAAGATCAGCAACATC
CCTGATGAGTATTTCAAGCGTTTTAATGCATTGCAGTATCTGCGTTTATCTCACAAAGAA
CTGGCTGATAGTGAATACCTGGAAATCTTTCAATGTGTATCCCTGGTTGAGCTGGAT
CTGTCCTATAACAAGCTTAAAAACATACCAACTGTCAATGAAAACCTTAAAAACTATTAC
CTGGAGGTCATCAACTTGAAGAAGTTTGACATAAAGAGCTTCTGCAAGATCCTGGGGCCA
TTATCCTACTCCAAGATCAAGCATTGCGTTTGGATGGCAATCGCATCTCAGAAACCCAGT
CTTCCACCGGATATGTATGAATGTCTACGTGTTGCTAACGAAGTCACTCTTAATTTAA

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Clone variation with respect to NM_002345.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002345 unedited GTATTTGTAAACGACTACTATAGCGCGCCGCGCAATTCGCACGAGGGTTCACAGCATATA TTGGTGGATTCTGTCCATAGTGCACTGCTTTAAGAATTAACGAAAGCAGTGTCAAGAC AGTAAGGATTCAAACCATTTGCCAAAAATGAGTCTAAGTGCATTTACTCTCTTCCGCA TTGATTGGTGGTACCAGTGGCCAGTACTATGATTATGATTTTCCCTATCAATTTATGGG CAATCATCACAAAAGTGCACCAGAATGTAAGTGCCTGAAAGCTACCCAAGTGCCATG TACTGTGATGAGCTGAAATTGAAAAGTGTACCAATGGTGCCTCCTGGAATCAAGTATCTT TACCTTAGGAATAACCAGATTGACCATATTGATGAAAAGGCCTTTGAGAATGTAAGTAT CTGCAGTGGCTCATTCTAGATCACAACTTCTAGAAAAGTCCCAAGATAAAAGGGAGAGTT TTCTCTAAATTGAAACAAGTGAAGAAGTGCATATAAACCCACAACAACCTGACAGAGTCT GTGGGCCCACTTCCCAAATCTCTGGAGGATCTGCAGCTTACTCATAACAAGATCACAAAG CCTGNGCTCTTTCTGAAGGATTGGTAAACCTGACCTTCATCCATCTCCAGCACAATCCGC TGAAAGAGGATGCTGTTTCACTGCTCTTAAAAGTCTTAAATCACTCGAATACCTTGACT TGAGCCTCAATCAGATAGCCAGACTGCCTTTTGGTCTCCCTGCCTTTTTTAACTCTCT ACTTAGACCACAATAAGATCAGCACATCCCTGAAGAGTATTTCAAGCGTTTTAATGCATT GCAGGATTCTGCGTTATCTTACAACCAACTGGCTGATAATGGAATACCTGGAAATCTTTC AAGGGCTCCCTGCTGAACTGAACTGTCTAAACAAGCTATAAACT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002345 unedited ACCGCGCGCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTGCCTTTGCTATGGTTTATTTTGTAGTAGCTTATTAACATAACATGCCAATA ATCAAAGAGAAACCTACCTGACTTAAAGTGAAAAATAATTCTAAAAAGTTTCACTAGGG AAGTATGCAAATCTTATTCTAAAAACTTCTTTAAGTGCCTGAAGCTTCATGTATTTT GCAATATTTCTTGGCTCAATATCTACCACCTATTTTTTAAACCGACCAATTTGAATGGAT CAAGATAATTTGGGGCCAGAAAGTAACATCCCTATGTATTTAATCCAAGCTTTGAGGAAC CTTAAGATTTAAGGGTTATAAACTTGGCTGGTTTCCATGCCACCAGTAAAAGGGTTTCG CCATCATTTGCCCGTAGAAATAAAAAACACTAAATTTACCAATAAAGCACTTGAGTTCCG AAGGCCATTTCCCGGATATGTGGGCGCTCTGGGACGAAAAAGCCCGCCTTCATCTTTT CTTTAAAAAAGGTTACAAAACATTTCCCTTAAATTTTAAAAATCCATGGGAAGT AATCAACCCGCCATAACAATTGGGTCCCATGAAAACCGCCCAACGAAAAACCTCCCTCC TACATTTTGGTCCCAGCACCCATTTTTAATAAGAAGGGCCTCCCTCTGCACCACCTAA CATTTCTTATCCGGGGGAAAACCGGTTTTGCAAACCATCGCCTTCCAACCAATGCT TTGTCTGGGGGAGGATAAGGCCCGCGATCTTGCAAACCTCTTTTGGACAACCTCCTAA CTGATGACCTCCAGCAAACCTCCACGGGCTCCTTGACCCTGGCCACCTACAACCTCCC CTN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002345
Insert Size:	1970 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:	<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_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, epiphygan, 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]