LUM cDNA Clone – Lumican (Human)

PRODUCT OVERVIEW

Product Name	LUM, cDNA Clone
Full Product Name	LUM cDNA Clone
Product Gene Name	LUM cdna clone
Sequence	atgagtctaa gtgcatttac tctcttcctg gcattgattg gtggtaccag tggccagtac tatgattatg attttcccct atcaatttat gggcaatcat caccaaactg tgcaccagaa tgtaactgcc ctgaaagcta cccaagtgcc atgtactgtg atgagctgaa attgaaaagt gtaccaatgg tgcctcctgg aatcaagtat ctttacctta ggaataacca gattgaccat attgatgaaa aggcctttga gaatgtaact gatctgcagt ggctcattct agatcacaac cttctagaaa actccaagat aaaagggaga gttttctcta aattgaaaca actgaagaag ctgcatataa accacaacaa cctgacagag tctgtgggcc cacttcccaa atctctggag gatctgcagc ttactcataa caagatcaca aagctgggct cttttgaagg attggtaaac ctgaccttca tccatctcca gcacaaccgg ctgaaagagg atgctgtttc agctgctttt aaaggtctta aatcactcga ataccttgac ttgagcttca atcagatagc cagactgcct tctggtctcc ctgtctctct tctaactctc tacttagaca acaataagat cagcaacatc cctgatgagt atttcaagcg ttttaatgca ttgcagtatc tgcgtttatc tcacaacgaa ctggctgata gtggaatacc tggaaattct ttcaatgtgt catccctggt tgagctggat ctgtcctata acaagcttaa aaacatacca actgtcaatg aaaaccttga aaactattac ctggaggtca atcaacttga gaagtttgac ataaagagct tctgcaagat cctggggcca ttatcctact ccaagatcaa gcatttgcgt ttggatggca atcgcatctc agaaaccagt cttccaccgg atatgtatga atgtctacgt gttgctaacg aagtcactct taattaa
Molecular Weight	38,429 Da
OMIM	600616
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LUM cdna clone	MBS1276777 is a cDNA clone targeting LUM.
Other Notes	Small volumes of LUM cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LUM. It may not necessarily be applicable to this product.

NCBI GI #	23271182
NCBI GeneID	4060
NCBI Accession #	BC035997
UniProt Secondary Accession #	Q96QM7; B2R6R5
UniProt Related Accession #	P51884
NCBI Official Full Name	Homo sapiens lumican, mRNA
NCBI Official Synonym Full Names	lumican
NCBI Official Symbol	LUM
NCBI Official Synonym Symbols	LDC; SLRR2D
UniProt Protein Name	Lumican

UniProt Synonym Protein Names	Keratan sulfate proteoglycan lumican; KSPG lumican
Protein Family	Lumican
UniProt Gene Name	LUM
UniProt Synonym Gene Names	LDC; SLRR2D; KSPG lumican
UniProt Entry Name	LUM_HUMAN
NCBI Protein Information	lumican
NCBI Summary for LUM	This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphycan, 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]
UniProt Comments for LUM	LUM: a member of the small leucine-rich proteoglycan (SLRP) family that includes decorin, biglycan, fibromodulin, keratocan, epiphycan, 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] Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 12q21.33 Cellular Component: extracellular matrix; extracellular region; extracellular space; fibrillar collagen; Golgi lumen; lysosomal lumen; proteinaceous extracellular matrix Molecular Function: collagen binding; protein binding Biological Process: axonogenesis; extracellular matrix organization and biogenesis; keratan sulfate biosynthetic process; keratan sulfate catabolic process
Research Articles on LUM	**1.** fibroblasts stimulated with the fibrocyte-secreted inflammatory signal tumor necrosis factor-alpha secrete the small leucine-rich proteoglycan lumican.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.