

Product datasheet for **SC122767**

LECT1 (CNMD) (NM_007015) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: LECT1 (CNMD) (NM_007015) Human Untagged Clone
Tag: Tag Free
Symbol: CNMD
Synonyms: BRICD3; CHM-I; CHM1; LECT1; MYETS1
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Cell Selection: None
Fully Sequenced ORF: >OriGene sequence for NM_007015 edited

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CCGTGCACCGTGTGTGCGCGCGGCGTTGAAATGCCCTGCACGTGCGGGCAGCGGGACAGA
TCCCAGGGTGCCAGGGAGTCTCCAAGTGCCTCACTCCTCCCGCCGCAAACATGACAGAG
AACTCCGACAAAGTTCCATTGCCCTGGTGGGACCTGATGACGTGGAATTCTGCAGCCCC
CCGGCGTACGCTACGCTGACGGTGAAGCCCTCCAGCCCCGCGGGCTGCTCAAGTGGGA
GCCGTGGTCTCATTTCCGGAGCTGTGCTGCTCTTTGGGGCCATCGGGGCCCTCTAC
TTCTGGAAGGGGAGCGACAGTCAATTTACAATGTCCATTACACCATGAGTATCAATGGG
AAATTACAAGATGGGTCAATGAAATAGACGCTGGGAACAACCTGGAGACCTTTAAATG
GGAAGTGGAGCTGAAGAAGCAATTGCAGTTAATGATTTCCAGAATGGCATCACAGGAATT
CGTTTTGCTGGAGGAGAGAAGTGCTACATTAAGCGCAAGTGAAGGCTCGTATTCCCTGAG
GTGGGCGCGGTGACCAAACAGAGCATCTCCTCCAAACTGGAAGGCAAGATCATGCCAGTC
AAATATGAAGAAAATTCTTTATCTGGGTGGCTGTAGATCAGCCTGTGAAGGACAACAGC
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ACCTATCCAAAAGAAATCCAGAGGGAAAGAGAAGTGGTAAGAAAAATGTTCCAACCT
ACCACAAAAGACCACACAGTGGACCACGGAGCAACCCAGGCGCTGGAAGACTGAATAAT
GAAACCAGACCCAGTGTCAAGAGGACTCACAAGCCTTCAATCCTGATAATCCTTATCAT
CAGGAAGGGGAAAGCATGACATTCGACCCTAGACTGGATCACGAAGGAATCTGTTGTATA
GAATGTAGGCGGAGCTACACCCACTGCCAGAAGATCTGTGAACCCCTGGGGGGCTATTAC
CCATGGCCTTATAATTATCAAGGCTGCCGTTCCGCTGCAGAGTCATCATGCCATGTAGC
TGGTGGGTGGCCGATCTTGGGCATGGTGTGAAATCACTTCATATATCATGTGCTGTAA
AATAAGAACTAGCTGAAGAGACAACCAAAGAAGCATTAAAGGCAGTTGATGCTGATGGGA
CCATAAAATATTTTACACTCAACCTGAGCGGTTATTCTTGACACTCTTAAACAGAAATTT
TTCAATTGTTTTCCAGAACTTTAGTATATGCAAATGTAAGGAGGTTCAAGTCTA
AAATGCCATAACCCCTTTATTATTTGTTATTTTTATTTGCATTGCTTTGCCATAAGTCT
TCCCTTGCTGTATCTTCAAAGCTATTTTGAATAAACATGAAAATTTACAGTTTGCCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
  
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_007015 unedited TCAGCATTTGTATACGACTCATATAGGCGGGCCGCGATTCAAATCTGGTACCGGTCCGGA ATTCCCGGGATCCGTGCACCGTGTGTGCGCGGGCGTTGAAATGCCCTGCACGTCCGGGC AGCGGGACAGATCCCAGGGTGCCCAGGGAGTCTCCAAGTGCTCACTCTCCCGCCGCAA ACATGACAGAGAAGTCCGACAAAGTTCCATTGCCCTGGTGGGACCTGATGACGTGGAAT TCTGCAGCCCCCGGCGTACGCTACGCTGACGGTGAAGCCCTCCAGCCCCGCGGGCTGC TCAAGGTGGGAGCCGTGGTCTCATTTCGGGAGCTGTGCTGCTCTTTGGGGCCATCG GGGCCTTCTACTTCTGGAAGGGGAGCGACAGTCACATTTACAATGTCCATTACACCATGA GTATCAATGGGAAATTACAAGATGGGTCAATGGAATAGACGCTGGGAACAACCTGGAGA CCTTTAAATGGGAAGTGGAGCTGAAGAAGCAATTGCAGTTAATGATTTCCAGAATGGCA TCACAGGAATTCGTTTTGCTGGAGGAGAGAAGTGTACATTAAGCGCAAGTGAATGCTC GTATTCTGATGTGGGCGCCGTGACCAACAGAGCATCTCCTCAAACCTGGAATGCAAGA TCATGCCAGTCAAATATGAAGAAAAATCTTTATCTGGGTGGCTGTAGATCAGCCTGTGA AGACAACAGCTTCTTGAGTTCTAAAGTGTAGAACTCTGCGGTGACCTTTCTATTTTCTG GCTTAAACCAACCTTCCAAAAGAAATCCAGAGGGAAAGAAGAGACTGTGCAAAAAATTG TTCCACTACCCCAAAAAGAACCCCGGGGACCCGAGCAACCCAGCGCTGGAAGAGGAAT AAGGAACCGACCCC
Restriction Sites:	Please inquire
ACCN:	NM_007015
Insert Size:	1535 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:	<u>NM_007015.2</u> , <u>NP_008946.1</u>
RefSeq Size:	1538 bp
RefSeq ORF:	1005 bp
Locus ID:	11061
UniProt ID:	<u>O75829</u>
Cytogenetics:	13q14.3
Protein Families:	Secreted Protein, Transmembrane

Gene Summary:

This gene encodes a glycosylated transmembrane protein that is cleaved to form a mature, secreted protein. The N-terminus of the precursor protein shares characteristics with other surfactant proteins and is sometimes called chondrosurfactant protein although no biological activity has yet been defined for it. The C-terminus of the precursor protein contains a 25 kDa mature protein called leukocyte cell-derived chemotaxin-1 or chondromodulin-1. The mature protein promotes chondrocyte growth and inhibits angiogenesis. This gene is expressed in the avascular zone of prehypertrophic cartilage and its expression decreases during chondrocyte hypertrophy and vascular invasion. The mature protein likely plays a role in endochondral bone development by permitting cartilaginous anlagen to be vascularized and replaced by bone. It may be involved also in the broad control of tissue vascularization during development. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).