

## Product datasheet for **RG213301**

### LECT1 (CNMD) (NM\_007015) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LECT1 (CNMD) (NM_007015) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LECT1
Synonyms:	BRICD3; CHM-I; CHM1; LECT1; MYETS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213301 representing NM_007015 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGAGAAGCTCCGACAAAGTCCCATTGCCCTGGTGGGACCTGATGACGTGGAATTCTGCAGCCCC  
CGGCGTACGCTACGCTGACGGTGAAGCCCTCCAGCCCCGCGGGCTGCTCAAGGTGGGAGCCGTGGTCT  
CATTTCCGGAGCTGTGCTGCTCTTTGGGGCCATCGGGCCTTCTACTTCTGGAAGGGGAGCGACAGT  
CACATTTACAATGTCCATTACACCATGAGTATCAATGGGAAATTACAAGATGGGTCAATGGAATAGACG  
CTGGGAACAACCTTGAGACCTTTAAAATGGGAAGTGGAGCTGAAGAAGCAATTGCAGTTAATGATTTCCA  
GAATGGCATCACAGGAATTCGTTTTGCTGGAGGAGAGAAGTGTACATTAAGCGCAAGTGAAGGCTCGT  
ATTCCTGAGGTGGGCGCCGTGACCAAACAGAGCATCTCCTCCAAACTGGAAGGCAAGATCATGCCAGTCA  
AATATGAAGAAAATCTCTTATCTGGGTGGCTGTAGATCAGCCTGTGAAGGACAACAGCTTCTTGAGTTC  
TAAGGTGTTAGAACTCTGCGGTGACCTTCTATTTTCTGGCTTAAACCAACCTATCCAAAAGAAATCCAG  
AGGGAAGAAGAGAAGTGGTAAGAAAAATGTTCCAACCTACCACAAAAGACCACACAGTGGACCACGGA  
GCAACCCAGGCGCTGGAAGACTGAATAATGAAACCAGACCCAGTGTCAAGAGGACTCACAAGCCTTCAA  
TCCTGATAATCCTTATCATCAGGAAGGGGAAAGCATGACATTCGACCCTAGACTGGATCAGGAAGGAATC  
TGTTGTATAGAATGTAGGCGGAGCTACACCCACTGCCAGAAGATCTGTGAACCCCTGGGGGCTATTACC  
CATGGCCTTATAATTATCAAGGCTGCCGTTCCGGCTGCAGAGTCATCATGCCATGTAGCTGGTGGGTGGC  
CCGTATCTGGGCATGGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213301 representing NM\_007015  
 Red=Cloning site Green=Tags(s)

MTENSDKVPIALVGPDDVEFCSPPAYATLTVKPSSPARLLKVGAVVLISGAVLLLFGAIGAFYFWKGSDS  
 HIYNVHYTMSINGKLQDGSMEIDAGNNLETFKMGSGAEEAIAVNDVFQNGITGIRFAGGEKCYIKAQVKAR  
 IPEVGAVTKQSISSKLEKIMPVKYEENSLIWVAVDQPVKDNSFLSSKVLELCGDLPIFWLKPTYPKIEIQ  
 RERREVVRKIVPTTTTKRPHSGPRSNPGAGRLNNETRPSVQEDSQAFNPDNPHYHQEGESMTFDPRLDHEGI  
 CCIECRRSYTHCQKICEPLGGYYPWPYNYQGCRSACRVIMPSCSWVVARILGMV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007015

**ORF Size:** 999 bp

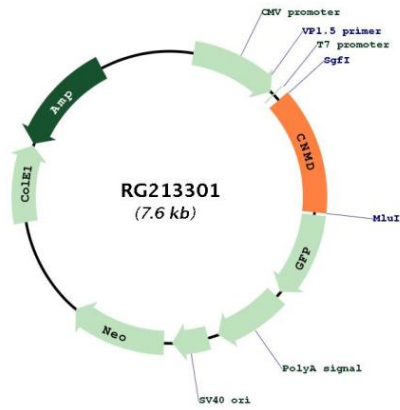
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

<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_007015.3</a>
<b>RefSeq Size:</b>	1538 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	11061
<b>UniProt ID:</b>	<a href="#">O75829</a>
<b>Cytogenetics:</b>	13q14.3
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG213301