OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG206635

LECT1 (CNMD) (NM_001011705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LECT1 (CNMD) (NM_001011705) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNMD
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:

>RG206635 representing NM_001011705
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGAGAACTCCGACAAAGTTCCCATTGCCCTGGTGGGACCTGATGACGTGGAATTCTGCAGCCCCC
CGGCGTACGCTACGCTGACGGTGAAGCCCTCCAGCCCCGCGCGGCTGCTCAAGGTGGGAGCCGTGGTCCT
CATTTCGGGAGCTGTGCTGCTGCTCTTTGGGGCCATCGGGGCCTTCTACTTCTGGAAGGGGAGCGACAGT
CACATTTACAATGTCCATTACACCATGAGTATCAATGGGAAATTACAAGATGGGTCAATGGAAATAGACG
CTGGGAACAACTTGGAGACCTTTAAAATGGGAAGTGGAGCTGAAGAAGCAATTGCAGTTAATGATTTCCA
GAATGGCATCACAGGAATTCGTTTTGCTGGAGGAGAGAAGTGCTACATTAAAGCGCAAGTGAAGGCTCGT
ATTCCTGAGGTGGGCGCCGTGACCAAACAGAGCATCTCCTCCAAACTGGAAGGCAAGATCATGCCAGTCA
AATATGAAGAAAATTCTCTTATCTGGGTGGCTGTAGATCAGCCTGTGAAGGACAACAGCTTCTTGAGTTC
TAAGGTGTTAGAACTCTGCGGTGACCTTCCTATTTTCTGGCTTAAACCAACCTATCCAAAAGAAATCCAG
AGGGAAAGAAGAGAAGTGGTAAGAAAAATTGTTCCAACTACCACAAAAAGACCACACAGTGGACCACGGA
GCAACCCAGGCGCTGGAAGACTGAATAATGAAACCAGACCCAGTGTTCAAGAGGACTCACAAGCCTTCAA
TCCTGATAATCCTTATCATCAGGAAGGGGAAAGCATGACATTCGACCCTAGACTGGATCACGAAGGAATC
TGTTGTATAGAATGTAGGCGGAGCTACACCCACTGCCAGAAGATCTGTGAACCCCTGGGGGGCTATTACC
CATGGCCTTATAATTATCAAGGCTGCCGTTCGGCCTGCAGAGTCATCATGCCATGTAGCTGGTGGGTGGC
CCGTATCTTGGGCATGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

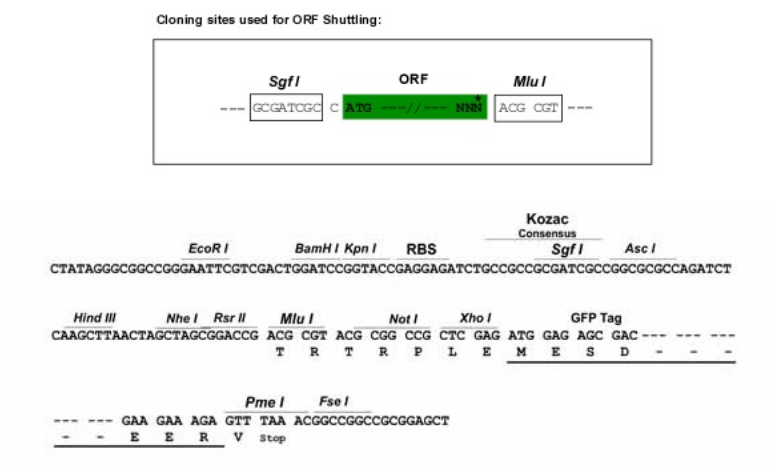
>RG206635 representing NM_001011705
Red=Cloning site Green=Tags(s)

MTENSDKVPIALVGPDDVEFCSPPAYATLTVKPSSPARLLKVGAVVLISGAVLLLFGAIGAFYFWKGSDS
HIYNVHYTMSINGKLQDGSMEIDAGNNLETFKMGSGAEEAIAVNDFQNGITGIRFAGGEKCYIKAQVKAR
IPEVGAVTKQSISSKLEGKIMPVKYEENSLIWVAVDQPVKDNSFLSSKVLELCGDLPIFWLKPTYPKEIQ
RERREVVRKIVPTTTKRPHSGPRSNPGAGRLNNETRPSVQEDSQAFNPDNPYHQEGESMTFDPRLDHEGI
CCIECRRSYTHCQKICEPLGGYYPWPYNYQGCRSACRVIMPCSWWVARILGMV

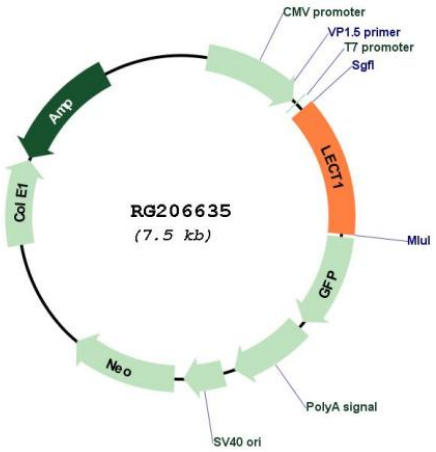
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001011705

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).
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_001011705.2
RefSeq Size:	1535 bp
RefSeq ORF:	1002 bp
Locus ID:	11061
UniProt ID:	O75829
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]