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Product datasheet for RC210790

LECT2 (NM_002302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LECT2 (NM_002302) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LECT2
Synonyms:	chm-II; chm2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210790 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTTCCACCAAAGCCCTCCTTTTGGCTGGTCTGATTTCTACCGCACTGGCAGGGCCATGGGCTAATA
TATGTGCTGGCAAGTCTTCCAATGAGATCCGGACGTGTGACCGCCATGGCTGTGGACAGTACTCTGCTCA
AAGAAGTCAGAGGCCTCACCAGGGTGTGGACGTCTTGTGCTCTGCTGGATCTACTGTGTACGCACCATTC
ACTGGAATGATTGTGGGCCAGGAGAAACCTTATCAAAACAAGAATGCTATCAATAATGGTGTTCGAATAT
CTGGAAGAGGTTTTTGTGTCAAAATGTTCTACATTAAGCCAATTAAGTATAAAGGTCCTATTAAGAAGGG
AGAAAAACTTGGAACTCTATTGCCCTTGCAGAAAGTTTATCCTGGCATACAATCGCATGTGCACATTGAA
AACTGTGACTCGAGTGACCCTACTGCATACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210790 protein sequence
Red=Cloning site Green=Tags(s)

MFSTKALLLAGLISTALAGPWANICAGKSSNEIRTCDRHGCGQYSAQRSQRPHQGVDVLCSAGSTVYAPF
TGMIVGQEKPYQNKNAINNGVRISGRGFCVKMFYIKPIKYKGPIKKGEKLGTLLPLQKVYPGIQSHVHIE
NCDSSDPTAYL

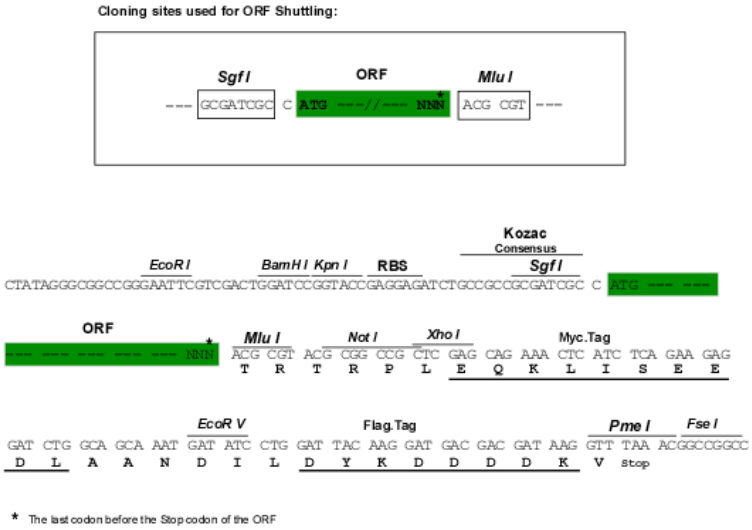
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6382_d05.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002302

ORF Size: 453 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_002302.1

RefSeq Size: 1077 bp

RefSeq ORF: 456 bp

Locus ID: 3950

UniProt ID: O14960

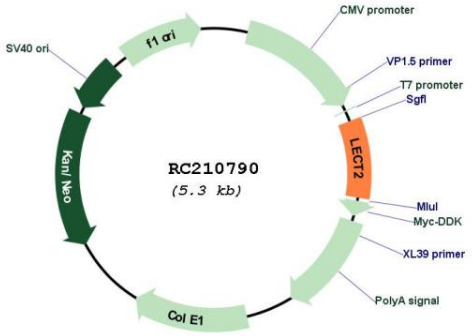
Cytogenetics: 5q31.1

Protein Families: Druggable Genome, Secreted Protein

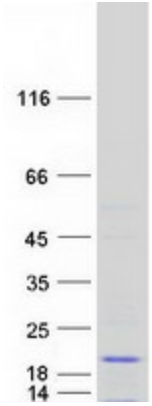
MW: 16.4 kDa

Gene Summary: This gene encodes a secreted, 16 kDa protein that acts as a chemotactic factor to neutrophils and stimulates the growth of chondrocytes and osteoblasts. This protein has high sequence similarity to the chondromodulin repeat regions of the chicken myb-induced myeloid 1 protein. A polymorphism in this gene may be associated with rheumatoid arthritis. [provided by RefSeq, Jul 2008]

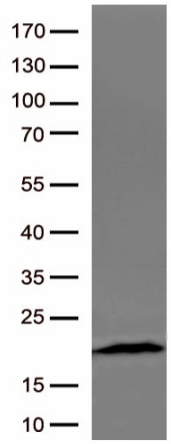
Product images:



Circular map for RC210790



Coomassie blue staining of purified LECT2 protein (Cat# [TP310790]). The protein was produced from HEK293T cells transfected with LECT2 cDNA clone (Cat# RC210790) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LECT2 (Cat# RC210790, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LECT2(Cat# [TA504091]).