

Product datasheet for RC221791

Dectin 1 (CLEC7A) (NM_022570) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dectin 1 (CLEC7A) (NM_022570) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CLEC7A
Synonyms: BGR; CANDF4; CD369; CLECSF12; DECTIN1; SCARE2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC221791 representing NM_022570
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATATCATCCTGATTTAGAAAATTTGGATGAAGATGGATATACTCAATTACACTTCGACTCTCAA
 GCAATACCAGGATAGCTGTTGTTTCAGAGAAAGGATCGTGTGCTGCATCTCCTCCTTGGCGCCTCATTGC
 TGTAATTTTGGGAATCCTATGCTTGGTAATACTGGTGATAGCTGTGGTCTGGGTACCATGGGGTTCTT
 TCCAGCCCTGTCTCCTAATTGGATTATATGAGAAGAGCTGTATCTATTCAGCATGTCACTAAATT
 CCTGGGATGGAAGTAAAAGACAATGCTGGCAACTGGGCTCTAATCTCCTAAAGATAGACAGCTCAAATGA
 ATTTGGATTTATAGTAAAACAAGTGTCTTCCCAACCTGATAATTCATTTTGGATAGGCCTTTCTCGGCC
 CAGACTGAGGTACCATGGCTCTGGGAGGATGGATCAACATTCTCTTAACCTATTTTCAGATCAGAACCA
 CAGCTACCAAGAAAACCCATCTCCAAATTGTGTATGGATTACCGTGTACGTGATTTATGACCAACTGTG
 TAGTGTGCCCTCATATAGTATTTGTGAGAAGAAGTTTTCAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221791 representing NM_022570
 Red=Cloning site Green=Tags(s)

MEYHPDLENLDEDGYQLHFDSQSNTRIAVVSEKGSASPPWRLIAVILGILCLVILVIAVVLGTMGVL
 SSPCPPNWIIYEKSCYLFMSLNSWDGSKRQCWQLGSNLLKIDSSNELGFIVKQVSSQPDNSFWIGLSRP
 QTEVPWLWEDGSTFSSNLFQIRTTATQENPSPNCVWIHVSVIYDQLCSVPSYSICEKKFSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

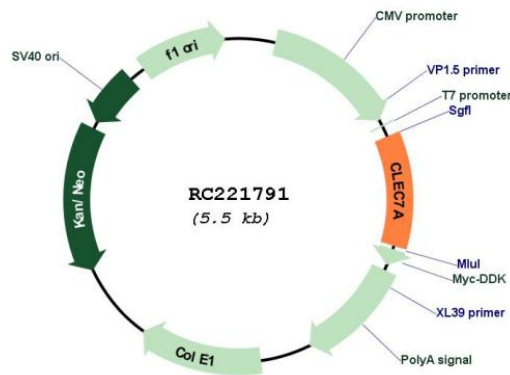


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Cloning Scheme:



Plasmid Map:



ACCN: NM_022570
 ORF Size: 603 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_022570.5](#)

RefSeq Size: 2484 bp

RefSeq ORF: 606 bp

Locus ID: 64581

UniProt ID: [Q9BXN2](#)

Cytogenetics: 12p13.2

Domains: CLECT

Protein Families: Druggable Genome, Transmembrane

MW: 22.6 kDa

Gene Summary:

This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. The encoded glycoprotein is a small type II membrane receptor with an extracellular C-type lectin-like domain fold and a cytoplasmic domain with an immunoreceptor tyrosine-based activation motif. It functions as a pattern-recognition receptor that recognizes a variety of beta-1,3-linked and beta-1,6-linked glucans from fungi and plants, and in this way plays a role in innate immune response. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. This gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural killer gene complex region. [provided by RefSeq, Jul 2008]