

Product datasheet for RC214107

Dectin 1 (CLEC7A) (NM_197949) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dectin 1 (CLEC7A) (NM_197949) 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: >RC214107 representing NM_197949
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAATATCATCCTGATTTAGAAAATTTGGATGAAGATGGATATACTCAATTACACTTCGACTCTCAA
GCAATACCAGGATAGCTGTTGTTTCAGAGAAAGGATCGTGTGCTGCATCTCCTCCTGGCGCCTCATTGC
TGTAATTTGGGAATCCTATGCTTGGTAATACTGGTGATAGCTGTGGTCTGGGTACCATGGGGTTCTT
TCCAGCCCTGTCTCCTAATTGGATTATATGAGAAGAGCTGTTATCTATTCAGCATGTCACTAAATT
CCTGGGATGGAAGTAAAAGACAATGCTGGCAACTGGGCTCTAATCTCCTAAAGATAGACAGCTCAAATGA
ATTGATTTAGATCAGAACCACAGCTACCCAAGAAAACCCATCTCCAATTGTGTATGGATTACGTGTC
AGTCATTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214107 representing NM_197949
Red=Cloning site Green=Tags(s)
MEYHPDLENLDEDGYTLHFDSQSNTRIAVVSEKGSAAAPPWRLIAVILGILCLVILVIAVVLGTMGVL
SSPCPPNWIIYEKSCYLFMSLNSWDGSKRQCWQLGSNLLKIDSSNELISDQNHSPYRKPISKLCMDSRV
SHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

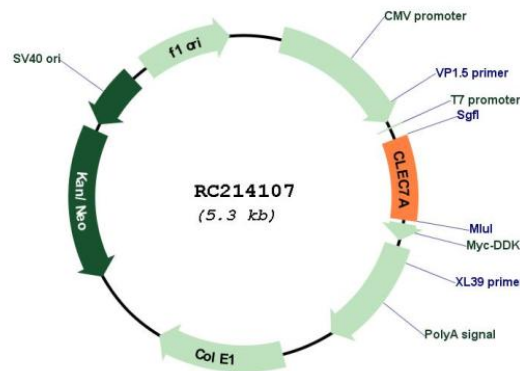
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_197949

ORF Size: 429 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:	<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_197949.3</u>
RefSeq Size:	2365 bp
RefSeq ORF:	432 bp
Locus ID:	64581
UniProt ID:	<u>Q9BXN2</u>
Cytogenetics:	12p13.2
Protein Families:	Druggable Genome, Transmembrane
MW:	16 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]