

## Product datasheet for **RC221893**

### Dectin 1 (CLEC7A) (NM\_197947) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dectin 1 (CLEC7A) (NM_197947) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dectin 1
Synonyms:	BGR; CANDF4; CD369; CLECSF12; DECTIN1; SCARE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221893 representing NM_197947 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAATATCATCCTGATTTAGAAAATTTGGATGAAGATGGATATACTCAATTACACTTCGACTCTCAA  
 GCAATACCAGGATAGCTGTTGTTTCAGAGAAAGGATCGTGTGCTGCATCTCCTTGGCGCCTCATTGC  
 TGTAATTTTGGGAATCCTATGCTTGGTAATACTGGTGATAGCTGTGGTCTGGGTACCATGGCTATTTGG  
 AGATCCAATTAGGAAGCAACACATTGGAGAATGGCTACTTTCTATCAAGAAATAAGAGAACCACAGTC  
 AACCCACACAATCATCTTTAGAAGACAGTGTGACTCCTACCAAAGCTGTCAAACACAGGGTTCTTTC  
 CAGCCCTTGCTCCTAATTGGATTATATATGAGAAGAGCTGTTATCTATTACGATGTCACTAAATTCC  
 TGGGATGGAAGTAAAAGACAATGCTGGCAACTGGGCTCTAATCTCCTAAAGATAGACAGCTCAAATGAAT  
 TGGGATTATAGTAAACAAGTGTCTTCCCAACCTGATAATTCATTTTGGATAGGCCTTTCTCGGCCCA  
 GACTGAGGTACCATGGCTCTGGGAGGATGGATCAACATTCTTCTAACTTATTTAGATCAGAACCACA  
 GCTACCCAAGAAAACCATCTCCAAATTGTGTATGGATTACGTGTCACTGTCAGTCATTTATGACCAACTGTGA  
 GTGTGCCCTCATATAGTATTTGTGAGAAGAAGTTTCAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC221893 representing NM\_197947  
 Red=Cloning site Green=Tags(s)

MEYHPDLENLDEDGYTQLHFDSQSNTRIAVVSEKGSAAAPPWRLIAVILGILCLVILVIAVVLGTMAIW  
 RNSGSGNTLENGYFLSRNKENHSQPTQSSLEDSVTPTKAVKTTGVLSSPCPNWIIYEKSCYLFMSLNS  
 WDGSKRQCWQLGSNLLKIDSSNELGFIVKQVSSQPDNSFWIGLSRPQTEVPWLWEDGSTFSSNLFQIRTT  
 ATQENPSPNCVWIVHSVIYDQLCSVPSYSICEKKFSM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3289\\_g01.zip](https://cdn.origene.com/chromatograms/mg3289_g01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_197947

**ORF Size:** 741 bp

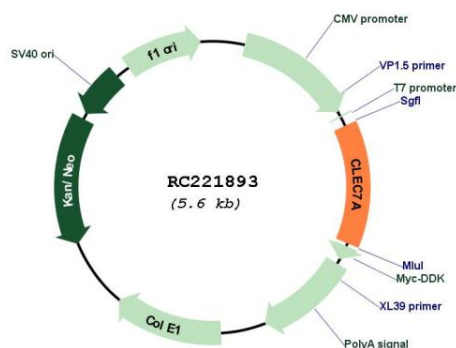
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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](#)

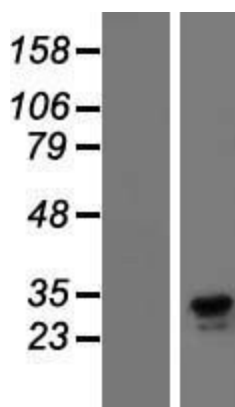
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_197947.3</a>
<b>RefSeq Size:</b>	2592 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	64581
<b>UniProt ID:</b>	<a href="#">Q9BXN2</a>
<b>Cytogenetics:</b>	12p13.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	27.4 kDa
<b>Gene Summary:</b>	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]

## Product images:



Circular map for RC221893



Western blot validation of overexpression lysate (Cat# [LY405148]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221893 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).