

## Product datasheet for **RG221893**

### 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:	TurboGFP
Symbol:	Dectin 1
Synonyms:	BGR; CANDF4; CD369; CLECSF12; DECTIN1; SCARE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221893 representing NM_197947 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATATCATCCTGATTTAGAAAATTTGGATGAAGATGGATATACTCAATTACACTTCGACTCTCAA  
GCAATACCAGGATAGCTGTTGTTTCAGAGAAAGGATCGTGTGCTGCATCTCCTTGGCGCCTCATTGC  
TGTAATTTGGGAATCCTATGCTTGTAATACTGGTGATAGCTGTGGTCTGGTACCATGGCTATTTGG  
AGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTACTTTCTATCAAGAAATAAAGAGAACCACAGTC  
AACCCACACAATCATCTTTAGAAGACAGTGTGACTCCTACCAAAGCTGTCAAACCACAGGGTTCTTTC  
CAGCCCTTGCTCCTAATTGGATTATATGAGAAGAGCTGTTATCTATTCAGCATGCTACTAAATTC  
TGGGATGGAAGTAAAAGACAATGCTGGCAACTGGGCTCTAATCTCCTAAAGATAGACAGCTCAAATGAAT  
TGGGATTTATAGTAAAACAAGTGTCTTCCCAACCTGATAATTCATTTTGGATAGGCCTTTCTCGGCCCA  
GACTGAGGTACCATGGCTCTGGGAGGATGGATCAACATTCTTCTAACTTATTTAGATCAGAACCACA  
GCTACCAAGAAAACCATCTCCAAATTGTGTATGGATTACGTGTGTCAGTCATTTATGACCAACTGTGTA  
GTGTGCCCTCATATAGTATTTGTGAGAAGAAGTTTCAATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221893 representing NM\_197947  
 Red=Cloning site Green=Tags(s)

```
MEYHPDLENLDEDGYQLHFDSQSNTRIAVVSEKGSAAAPPWRLIAVILGILCLVILVIAVVLGTMAIW
RSNSGSNTLENGYFLSRNKENHSQPTQSSLEDSVTPTKAVKTTGVLSSPCPPNWIIYEKSCYLFMSLNS
WDGSKRQCWQLGSNLLKIDSSNELGFIVKQVSSQPDNSFWIGLSRPQTEVPWLWEDGSTFSSNLFQIRTT
ATQENPSPNCVWIHVSVIYDQLCSVPSYSICEKKFSM
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_197947

**ORF Size:** 741 bp

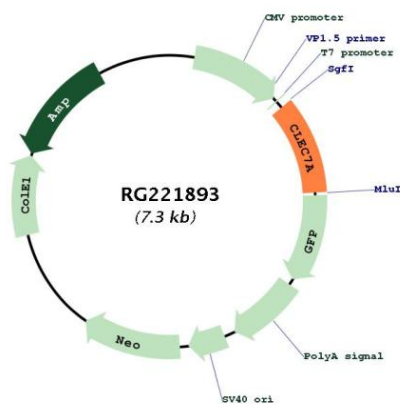
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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>RefSeq:</b>	<u>NM_197947.3</u>
<b>RefSeq Size:</b>	2592 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	64581
<b>UniProt ID:</b>	<u>Q9BXN2</u>
<b>Cytogenetics:</b>	12p13.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<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 RG221893