

OriGene Technologies, Inc.

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Product datasheet for RG221950

Dectin 1 (CLEC7A) (NM_197948) Human Tagged ORF Clone

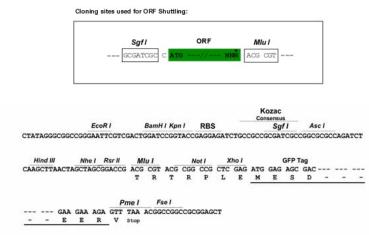
Product data:

Product Type:	Expression Plasmids
Product Name:	Dectin 1 (CLEC7A) (NM_197948) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLEC7A
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:	<pre>>RG221950 representing NM_197948 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGAATATCATCCTGATTTAGAAAATTTGGATGAAGATGGATATACTCAATTACACTTCGACTCTCAAA GCAATACCAGGATAGCTGTTGTTTCAGAGAAAGGATCGTGTGCTGCATCTCCTCCTCGGCGCCTCATTGC TGTAATTTTGGGAATCCTATGCTTGGTAATACTGGTGATAGCTGTGGTCCTGGGTACCATGGCTATTTGG AGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTACTTTCTATCAAGAAATAAAGAGAACCACAGTC AACCCACACATCATCTTTAGAAGACAGTGTGACTCCTACCAAAGCTGTCAAAACCACAGGGGTTCTTTC CAGCCCTTGTCCTCCTAATTGGATTATATATGAGAAGAGGCTGTTATCTATTCAGCATGTCACTAAATTCC TGGGATGGAAGTAAAAGACAATGCTGGCAACTGGGCTCTAATCTCCTAAAGATAGACAGCTCAAATGAAT TGATTTCAGATCAGA
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>RG221950 representing NM_197948 Red=Cloning site Green=Tags(s)</pre>
	MEYHPDLENLDEDGYTQLHFDSQSNTRIAVVSEKGSCAASPPWRLIAVILGILCLVILVIAVVLGTMAIW RSNSGSNTLENGYFLSRNKENHSQPTQSSLEDSVTPTKAVKTTGVLSSPCPPNWIIYEKSCYLFSMSLNS WDGSKRQCWQLGSNLLKIDSSNELISDQNHSYPRKPISKLCMDSRVSHL
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul

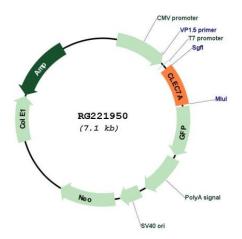


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Cloning Scheme:



Plasmid Map:



ACCN:	NM_197948
ORF Size:	567 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. <u>More info</u>
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).

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Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 197948.3</u>
RefSeq Size:	2503 bp
RefSeq ORF:	570 bp
Locus ID:	64581
UniProt ID:	<u>Q9BXN2</u>
Cytogenetics:	12p13.2
Protein Families:	Druggable Genome, Transmembrane
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]

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