

Product datasheet for **SC307612**

Dectin 1 (CLEC7A) (NM_197949) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dectin 1 (CLEC7A) (NM_197949) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLEC7A
Synonyms:	BGR; CANDF4; CD369; CLECSF12; DECTIN1; SCARE2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_197949, the custom clone sequence may differ by one or more nucleotides ATGGAATATCATCCTGATTAGAAAATTTGGATGAAGATGGATATACTCAATTACACTTC GACTCTCAAAGCAATACCAGGATAGCTGTTGTTTCAGAGAAAGGATCGTGTGCTGCATCT CCTCCTTGGCGCCTCATTGCTGTAATTTTGGGAATCCTATGCTTGGTAATACTGGTGATA GCTGTGGTCTGGGTACCATGGGGTTCTTTCCAGCCCTTGTCTCCTAATTGGATTATA TATGAGAAGAGCTGTTATCTATTAGCATGTCCTAAATTCCTGGGATGGAAGTAAAGA CAATGCTGGCAACTGGGCTCTAATCTCCTAAAGATAGACAGCTCAAATGAATTGATTTC GATCAGAACCACAGCTACCCAAGAAAACCCATCTCCAAATTGTGTATGGATTACAGTGTC AGTCATTTATGA
Restriction Sites:	Please inquire
ACCN:	NM_197949
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:

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_197949.1](#), [NP_922940.1](#)

RefSeq Size: 2335 bp

RefSeq ORF: 432 bp

Locus ID: 64581

UniProt ID: [Q9BXN2](#)

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]

Transcript Variant: This variant (4) lacks two alternate exons, which results in a frameshift and an early stop codon, compared to variant 1. The resulting protein (isoform d) is shorter and contains a distinct C-terminus, compared to isoform a. Isoform d has been alternatively referred to as 'c' in the literature.