

#### OriGene Technologies, Inc.

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# Product datasheet for RC226695

#### DC SIGN (CD209) (NM\_001144896) Human Tagged ORF Clone

### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DC SIGN (CD209) (NM_001144896) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DC SIGN
Synonyms:	CDSIGN; CLEC4L; DC-SIGN; DC-SIGN1; hDC-SIGN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



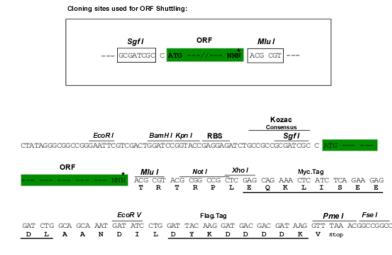
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	DC SIGN (CD209) (NM_001144896) Human Tagged ORF Clone – RC226695
ORF Nucleotide	<pre>&gt;RC226695 ORF sequence, codon optimized.</pre>
Sequence:	Due to the complexity of NM_001144896, the ORF clone is codon optimized for mammaliar Expression.
	The nucleotide sequence differs from the reference sequence, yet the amino acid
	sequence remains identical.
	<pre>Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAGCGACAGCAAAGAGCCTAGGCTGCAGCAACTCGGTCTTCTCGAAGAAGAGCAGCTTAGGGGGCCTGG
	GTTTTCGACAGACTCGGGGCTATAAAAGTCTTGCGGTGAGCAAGGTCCCTTCCTCAATCTCACAGGAACA
	GAGCAGACAGGACGCTATTTATCAGAATCTGACACAGTTGAAGGCAGCTGTAGGGGAACTGTCTGAAAAA
	AGTAAGTTGCAGGAGATATATCAAGAGCTGACCCAACTGAAAGCAGCTGTGGGGGGGG
	CTAAGCTGCAAGAAATCTATCAGGAACTGACACGGCTGAAGGCTGCCGTAGGCGAGCTCCCAGAAAAGAG
	CAAGCTGCAAGAAATTTACCAGGAACTCACATGGCTCAAGGCCGCCGTGGGGGGAACTCCCCGAAAAATCA
	AAGATGCAAGAGATCTACCAGGAACTGACGCGGCTGAAAGCGGCAGTCGGCGAGCTCCCTGAGAAAAGTA
	AACAACAGGAGATCTACCAGGAGCTTACACGCCTTAAGGCCGCAGTCGGGGAGCTTCCTGAAAAGTCCAA
	GCAGCAGGAGATCTACCAAGAACTGACCAGACTCAAGGCCGCAGTGGGTGAATTGCCGGAGAAGTCTAAG
	CAACAGGAGATCTATCAGGAGCTCACCCAATTGAAGGCGGCAGTAGAGAGGTTGTGCCACCCGTGTCCAT
	GGGAGTGGACTTTCTTCCAGGGCAACTGTTACTTCATGAGTAATTCACAGCGCAACTGGCATGACAGCAT
	CACAGCGTGCAAAGAAGTTGGCGCTCAGCTGGTGGTCATTAAGAGTGCTGAGGAACAGAACTTTCTTCAA
	CTGCAGAGCAGCCGATCAAATAGGTTCACTTGGATGGGGCTCAGCGACCTTAACCAGGAAGGA
	AGTGGGTAGATGGAAGTCCACTGCTCCCGTCATTCAAACAATATTGGAACAGGGGAGAGCCTAATAACGT
	GGGCGAGGAGGACTGTGCTGAGTTCAGCGGCAATGGCTGGAACGATGATAAATGCAACCTGGCCAAGTTT
	TGGATCTGCAAAAAGTCAGCAGCAGCAGCTGTAGCAGAGACGAAGAACAGTTCCTGAGTCCCGCTCCCGCTA
	CGCCTAATCCTCCGCCCGCT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
	ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC226695 representing NM_001144896
	Red=Cloning site Green=Tags(s)
	MSDSKEPRLQQLGLLEEEQLRGLGFRQTRGYKSLAVSKVPSSISQEQSRQDAIYQNLTQLKAAVGELSEK
	SKLQEIYQELTQLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTWLKAAVGELPEKS
	KMQEIYQELTRLKAAVGELPEKSKQQEIYQELTRLKAAVGELPEKSKQQEIYQELTRLKAAVGELPEKSK
	QQEIYQELTQLKAAVERLCHPCPWEWTFFQGNCYFMSNSQRNWHDSITACKEVGAQLVVIKSAEEQNFLQ
	LQSSRSNRFTWMGLSDLNQEGTWQWVDGSPLLPSFKQYWNRGEPNNVGEEDCAEFSGNGWNDDKCNLAKF
	WICKKSAASCSRDEEQFLSPAPATPNPPPA
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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#### **Cloning Scheme:**

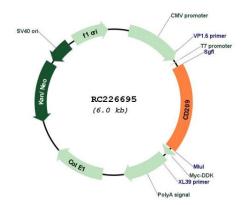


\* The last codon before the Ston codon of the ORF ACCN: NM 001144896 **ORF Size:** 1140 bp **OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene 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 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. **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:** 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.

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CRIGENE DC SIGN (CD209) (NM_001144896) Human Tagged ORF Clone – RC226695		
RefSeq:	<u>NM 001144896.1, NP 001138368.1</u>	
RefSeq Size:	4256 bp	
RefSeq ORF:	1143 bp	
Locus ID:	30835	
UniProt ID:	<u>Q9NNX6</u>	
Cytogenetics:	19p13.2	
Protein Families:	Druggable Genome	
MW:	43.3 kDa	
Gene Summary:	This gene encodes a C-type lectin that functions in cell adhesion and pathogen recognition. This receptor recognizes a wide range of evolutionarily divergent pathogens with a large impact on public health, including leprosy and tuberculosis mycobacteria, the Ebola, hepatitis C, HIV-1 and Dengue viruses, and the SARS-CoV acute respiratory syndrome coronavirus. The protein is organized into four distinct domains: a C-terminal carbohydrate recognition domain, a flexible tandem-repeat neck domain, a transmembrane region and an N-terminal cytoplasmic domain involved in internalization. This gene is closely related in terms of both sequence and function to a neighboring gene, CLEC4M (Gene ID: 10332), also known as L- SIGN. The two genes differ in viral recognition and expression patterns, with this gene showing high expression on the surface of dendritic cells. Polymorphisms in the neck region are associated with protection from HIV-1 infection, while single nucleotide polymorphisms in the promoter of this gene are associated with differing resistance and susceptibility to and severity of infectious disease, including rs4804803, which is associated with SARS severity. [provided by RefSeq, May 2020]	

## Product images:



Circular map for RC226695

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