

## **Product datasheet for RC227078**

## DC SIGN (CD209) (NM\_001144899) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Tag: Myc-DDK

Symbol: DC SIGN

Synonyms: CDSIGN; CLEC4L; DC-SIGN; DC-SIGN1; hDC-SIGN

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC227078 representing NM\_001144899

Red=Cloning site Blue=ORF Green=Tags(s)

CCCCTGCCACCCCAAACCCCCCTCCTGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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EU: info-de@origene.com CN: techsupport@origene.cn Protein Sequence: >RC227078 representing NM\_001144899

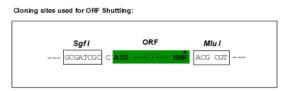
Red=Cloning site Green=Tags(s)

MSDSKEPRLQQLGLLEEEQLRGLGFRQTRGYKSLAGCLGHGPLVLQLLSFTLLAGLLVQVSKVPSSISQE QSRQDAIYQNLTQLKAAVERLCHPCPWEWTFFQGNCYFMSNSQRNWHDSITACKEVGAQLVVIKSAEEQN FLQLQSSRSNRFTWMGLSDLNQEGTWQWVDGSPLLPSFKQYWNRGEPNNVGEEDCAEFSGNGWNDDKCNL AKFWICKKSAASCSRDEEQFLSPAPATPNPPPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 



CTATAGGGCGGC	EcoR CGGGAAT1	₹/ 		HI K	pn I STACO	RB	<b>S</b> AGAT	CTGC	Co			c c <b>!</b>	TG -		
ORF			Miui cccc rR	r acī		ot/ G CCC P	_	hol GAG	CAG	AA/		a.Tag ATC	TCA S	GAA E	GAG E
GAT CTG GCA	GAT	Flag.Tag GAT TAC AAG GAT GAC								me I	TAA ACGGCCG				
D L A	A N	D I	L	D	Y	K	D	D	D	D	K	v	Stop		

<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001144899

ORF Size: 729 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. 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um

filter is required.

**RefSeq:** <u>NM\_001144899.2</u>

RefSeq ORF: 732 bp

**Locus ID:** 30835

Cytogenetics: 19p13.2

**Protein Families:** Druggable Genome

**MW:** 27.2 kDa

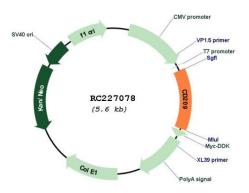
Gene Summary: This gene encodes a C-type lectin that functions in cell adhesion and pathogen recognition.

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 RC227078