

Product datasheet for RC227717

DC SIGN (CD209) (NM_001144893) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DC SIGN (CD209) (NM_001144893) 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)
ORF Nucleotide Sequence:	>RC227717 representing NM_001144893 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAGTGACTCCAAGGAACCAAGACTGCAGCAGCTGGGCCTCCTGGTGTCCAAGTCCCCAGCTCCATAA
GTCAGGAACAATCCAGGCAAGACGCGATCTACCAGAACCTGACCCAGCTTAAAGCTGCAGTGGGTGAGCT
CTCAGAGAAATCCAAGCTGCAGGAGATCTACCAGGAGCTGACCCAGCTGAAGGCTGCAGTGGGTGAGCTT
CCAGAGAAATCTAAGCTGCAGGAGATCTACCAGGAGCTGACCCGGCTGAAGGCTGCAGTGGGTGAGCTT
CAGAGAAATCTAAGCTGCAGGAGATCTACCAGGAGCTGACCTGGCTGAAGGCTGCAGTGGAACGCCTGTG
CCACCCCTGTCCCTGGGAATGGACATTCTCCAAGGAACTGTTACTTCAATGCTAACTCCAGCGGAAC
TGGCAGACTCCATCACCGCCTGCAAAGAAGTGGGGGCCAGCTCGTCGTAATCAAAAGTCTGAGGAGC
AGAACTTCTACAGCTGCAGTCTTCCAGAAGTAACCGCTTACCTGGATGGGACTTTCAGATCTAAATCA
GGAAGGCACGTGGCAATGGGTGGACGGCTCACCTCTGTTGCCAGCTTCAAGCAGTATTGGAACAGAGGA
GAGCCCAACAACGTTGGGGAGGAAGACTGCGCGGAATTTAGTGGCAATGGCTGGAACGACGACAAATGTA
ATCTTGCCAAATCTGGATCTGCAAAAAGTCCGCAGCCTCTGCTCCAGGGATGAAGAACAGTTTCTTTC
TCCAGCCCCTGCCACCCCAACCCCTCTGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227717 representing NM_001144893
Red=Cloning site Green=Tags(s)

MSDSKEPRLQQLGLLVSKVPSSISQEQSRQDAIYQNLTLKAAVAVGELSEKSKLQEIYQELTLKAAVAVGEL
 PEKSKLQEIYQELTRLKAAVAVGELPEKSKLQEIYQELTWLKAVERLCHPCPWEWTFQGNCFMNSNSQRN
 WHDSITACKEVGAQLVVIKSAEEQNFLQLQSSRSNRFTWMGLSDLNQEQTWQWVDGSPLLPSFKQYWNRG
 EPNNVGEEDCAEFSGNGWDDKCNLAKFWICKKSAASCSRDEEQFLSPAPATPNPPPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001144893

ORF Size: 804 bp

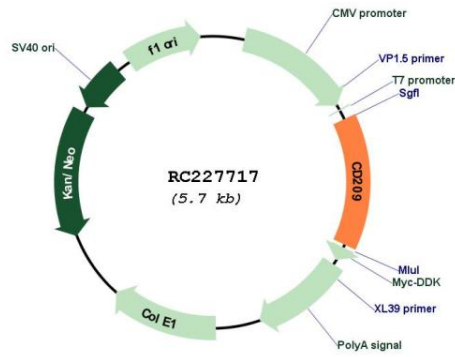
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_001144893.2
RefSeq ORF:	807 bp
Locus ID:	30835
UniProt ID:	Q9NNX6
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome
MW:	30.3 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC227717