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Product datasheet for SC325654

DC SIGN (CD209) (NM_001144899) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DC SIGN (CD209) (NM_001144899) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD209
Synonyms:	CDSIGN; CLEC4L; DC-SIGN; DC-SIGN1; hDC-SIGN
Vector:	pCMV6 series
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001144899, the custom clone sequence may differ by one or more nucleotides ATGAGTGACTCCAAGGAACCAAGACTGCAGCAGCTGGGCCTCCTGGAGGAGGAACAGCTG AGAGGCCTTGGATTCCGACAGACTCGAGGATACAAGAGCTTAGCAGGGTGTCTTGGCCAT GGTCCCCTGGTGCTGCAACTCCTCTCCTTCACGCTCTTGGCTGGGCTCCTTGTCCAAGTG TCCAAGGTCCCCAGCTCCATAAGTCAGGAACAATCCAGGCAAGACGCGATCTACCAGAAC CTGACCCAGCTTAAAGCTGCAGTGGAACGCCTGTGCCACCCCTGTCCCTGGGAATGGACA TTCTTCCAAGGAAACTGTTACTTCATGTCTAACTCCCAGCGGAACTGGCACGACTCCATC ACCGCCTGCAAAGAAGTGGGGGCCCAGCTCGTCGTAATCAAAAGTGCTGAGGAGCAGAAC TTCCTACAGCTGCAGTCTTCCAGAAGTAACCGCTTCACCTGGATGGGACTTTCAGATCTA AATCAGGAAGGCACGTGGCAATGGGTGGACGGCTCACCTCTGTTGCCCAGCTTCAAGCAG TATTGGAACAGAGGAGAGCCCAACAACGTTGGGGAGGAAGACTGCGCGGAATTTAGTGGC AATGGCTGGAACGACGACAAATGTAATCTTGCCAAATTCTGGATCTGCAAAAAGTCCGCA GCCTCCTGCTCCAGGGATGAAGAACAGTTTCTTTCTCCAGCCCCTGCCACCCCAAACCCC CCTCCTGCG
Restriction Sites:	Please inquire
ACCN:	NM_001144899
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_001144899.1, NP_001138371.1

RefSeq Size: 3845 bp

RefSeq ORF: 732 bp

Locus ID: 30835

Cytogenetics: 19p13.2

Protein Families: Druggable Genome

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]
Transcript Variant: This variant (8) uses an alternate in-frame splice site in the coding region, compared to variant 1. This results in a shorter protein (isoform 8) compared to isoform 1. The encoded isoform (8) has 1.5 repeats in the neck domain.