

## Product datasheet for **SC115079**

### CD299 (CLEC4M) (NM\_014257) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD299 (CLEC4M) (NM_014257) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD299
Synonyms:	CD209L; CD299; DC-SIGN2; DC-SIGNR; DCSIGNR; HP10347; L-SIGN; LSIGN
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_014257 edited  
 TGAGGATCAGAGGGTGGAAAATAAAAGCTGTGGTCCCCAGGAGTCTGAACATCTGGGGA  
 CAGCGGAAAACATGAGTGACTCCAAGGAACCAAGGGTGCAGCAGCTGGGCCTCTGGAA  
 GAAGATCCAACAACCAAGTGGCATCAGACTTTTTCCAAGAGACTTTCAATTCCAGCAGATA  
 CATGGCCACAAGAGCTCTACAGGGTGTCTTGGCCATGGCGCCCTGGTGTGCAACTCCTC  
 TCCTTCATGCTCTTGGCTGGGGTCTGGTGGCCATCCTTGTCCAAGTGTCCAAGTCCCC  
 AGCTCCCTAAGTCAGGAACAATCCGAGCAAGACGCAATCTACCAGAACCTGACCCAGCTT  
 AAAGCTGCAGTGGGTGAGCTCTCAGAGAAATCCAAGCTGCAGGAGATCTACCAGGAGCTG  
 ACCCAGCTGAAGGCTGCAGTGGGTGAGTTGCCAGAGAAATCCAAGCTGCAGGAGATCTAC  
 CAGGAGCTGACCCGGCTGAAGGCTGCAGTGGGTGAGTTGCCAGAGAAATCCAAGCTGCAG  
 GAGATCTACCAGGAGCTGACCCGGCTGAAGGCTGCAGTGGGTGAGTTGCCAGAGAAATCC  
 AAGCTGCAGGAGATCTACCAGGAGCTGACCCGGCTGAAGGCTGCAGTGGGTGAGTTGCCA  
 GAGAAATCCAAGCTGCAGGAGATCTACCAGGAGCTGACGGAGCTGAAGGCTGCAGTGGGT  
 GAGTTGCCAGAGAAATCCAAGCTGCAGGAGATCTACCAGGAGCTGACCCAGCTGAAGGCT  
 GCAGTGGGTGAGTTGCCAGACCAGTCCAAGCAGCAGCAAATCTATCAAGAACTGACCGAT  
 TTGAAGACTGCATTTGAACGCCTGTGCCGCCACTGTCCAAGGACTGGACATTCTCCAA  
 GGAAACTGTTACTTTCATGTCTAACTCCCAGCGAACTGGCACGACTCCGTACCCGCTGC  
 CAGGAAGTGAGGGCCAGCTCGTCGTAATCAAAGCTGCTGAGGAGCAGAACTTCTACAG  
 CTGCAGACTTCCAGGAGTAACCGCTTCTCCTGGATGGGACTTTCAGACCTAAATCAGGAA  
 GGCACGTGGCAATGGGTGGACGGCTCACCTCTGTACCCAGCTTCCAGCGGTACTGGAAC  
 AGTGGAGAACCAACAATAGCGGGAATGAAGACTGTGCGGAATTTAGTGGCAGTGGCTGG  
 AACGACAATCGATGTGACGTTGACAATTACTGGATCTGCAAAAAGCCCGCAGCCTGCTTC  
 AGAGACGAATAGTTGTTTCCCTAGCCTCAGCCTCCATTGTGGTATAGCAGAACTTCA  
 CCCACTTGTAAGCCAGCGCTTCTTCTCCTCATCCTTGGACCTTACAAATGCCCTGAGAC  
 GGTCTCTGTTCGATTTTTTCATCCCCTATGAACCTGGGTCTTATTCTGTCTTCTGATGC  
 CTCCAAGTTCCCTGGTGTAGAGCTTGTGTTCTTGGCCATCCTTGGAGCTTTATAAGTG  
 ACCTGAGTGGGATGCATTTAGGGGGCGGGCTTGGTATGTTGTATGAATCCACTCTCTGTT  
 CCTTTTGGAGATTAGACTATTTGGATTCATGTGTAGCTGCCCTGTCCCCTGGGGCTTTAT  
 CTCATCCATGCAAACCTACCATCTGCTCAACTCCAGCTACACCCCGTGCACCTTTTGAC  
 TGGGGACTTGCTGGTGAAGGAGCTCATCTTGCAGGCTGGAAGCACCAGGGAATTAATTC  
 CCCAGTCAACCAATGGCATCCAGAGAGGGCATGGAGGCTCCATACAACCTCTTCCACCC  
 CCACATCTTTCTTGTCTATACATGTCTTCCATTTGGCTGTTTTCTGAGTTGTAGCCTTT  
 ATAATAAAGTGGTAAATGTTGTAAGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014257 unedited  
 NGGACGTTACATTTGTAACGACTCATATAGGGCGGCCGATTCCCGGATTGAGGAT  
 CAGAGGGTGNGAAAATAAAAGCTGTGGTCCCCAGGAGTCTGACATCTGGGGACAGCGGG  
 AAAACATGAGTGACTCCAAGGAACCAAGGGTGCAGCAGCTGGGCCTCCTGGAAGAAGATC  
 CAACAACCAAGTGGCATCAGACTTTTTCCAAGAGACTTTCAATTCCAGCAGATACATGGCC  
 ACAAGAGCTCTACAGGGTGTCTTGGCCATGGCGCCCTGGTGTGCAACTCCTCTCCTTCA  
 TGCTCTTGGCTGGGGTCTGGTGGCCATCCTTGTCCAAGTGTCCAAGTCCCCAGCTCCC  
 TAAGTCAGGAACAATCCGAGCAAGACGCAATCTACCAGAACCTGACCCAGCTTAAAGCTG  
 CAGTGGGTGAGCTCTCAGAGAAATCCAAGCTGCAGGAGATCTACCAGGAGCTGACCCAGC  
 TGAAGGCTGCAGTGGGTGAGTTGCCAGAGAAATCCAAGCTGCAGGAGATCTACCAGGAGC  
 TGACCCGGCTGAAGGCTGCAGTGGGTGAGTTGCCAGAGAAATCCAAGCTGCAGGAGATCT  
 ACCAGGAGCTGACCCGGCTGAAGGCTGCAGTGGGTGAGTTGCCAGAGAAATCCAAGCTGC  
 AGGAGATCTACCAGGAGCTGACCCGGCTGAAGGCTGCAGTGGGTGAGTTGCCAGAGAAAT  
 CCAAGCTGCAGGAGATCTACCAGGAGCTGACGGAGCTGAAGGCTGCAGTGGGTGAGTTGC  
 CAGAGAAATCCAAGCTGCANGAGATCTACCAGGAGCTGACCCAGCTGAANGCTGCAGTGG  
 GTGAGTTGCCAGACCAGTCCAAGCAGCAGCAAATCTATCAAGAACTGACCGATTGNGAGA  
 CTGCA

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_014257
<b>Insert Size:</b>	1930 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014257.3</a> , <a href="#">NP_055072.3</a>
<b>RefSeq Size:</b>	1930 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	10332
<b>UniProt ID:</b>	<a href="#">Q9H2X3</a>
<b>Cytogenetics:</b>	19p13.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<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 tuberculosis mycobacteria, and viruses including Ebola, hepatitis C, HIV-1, influenza A, West Nile virus 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 of variable length, 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, CD209 (Gene ID: 30835), also known as DC-SIGN. The two genes differ in viral recognition and expression patterns, with this gene showing high expression in endothelial cells of the liver, lymph node and placenta. Polymorphisms in the tandem repeat neck domain are associated with resistance to SARS infection. [provided by RefSeq, May 2020]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>