

Product datasheet for **TR305355**

CD299 (CLEC4M) Human shRNA Plasmid Kit (Locus ID 10332)

Product data:

Product Type:	shRNA Plasmids
Product Name:	CD299 (CLEC4M) Human shRNA Plasmid Kit (Locus ID 10332)
Locus ID:	10332
Synonyms:	CD209L; CD299; DC-SIGN2; DC-SIGNR; DCSIGNR; HP10347; L-SIGN; LSIGN
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	CLEC4M - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 10332). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<u>BC038851</u> , <u>NM_001144904</u> , <u>NM_001144905</u> , <u>NM_001144906</u> , <u>NM_001144907</u> , <u>NM_001144908</u> , <u>NM_001144909</u> , <u>NM_001144910</u> , <u>NM_001144911</u> , <u>NM_014257</u> , <u>NM_214675</u> , <u>NM_214676</u> , <u>NM_214677</u> , <u>NM_214678</u> , <u>NM_214679</u> , <u>NR_026707</u> , <u>NR_026708</u> , <u>NR_026709</u> , <u>NM_014257.1</u> , <u>NM_014257.2</u> , <u>NM_014257.3</u> , <u>NM_014257.4</u> , <u>NM_214675.1</u> , <u>NM_001144904.1</u> , <u>NM_001144905.1</u> , <u>NM_001144906.1</u> , <u>NM_001144907.1</u> , <u>NM_001144908.1</u> , <u>NM_001144909.1</u> , <u>NM_001144910.1</u> , <u>NM_001144911.1</u> , <u>NM_214678.1</u> , <u>NM_214679.1</u> , <u>NM_214677.1</u> , <u>BC038851.1</u> , <u>BC110614</u> , <u>NM_001144910.2</u> , <u>NM_001144911.2</u> , <u>NM_014257.5</u> , <u>NM_001144908.2</u> , <u>NM_001144906.2</u>
UniProt ID:	<u>Q9H2X3</u>



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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 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>
shRNA Design:	<p>These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.</p>
Performance Guaranteed:	<p>OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.</p> <p>For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).</p>