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Product datasheet for TL305522V

CD1E Human shRNA Lentiviral Particle (Locus ID 913)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	CD1E Human shRNA Lentiviral Particle (Locus ID 913)
Locus ID:	913
Synonyms:	CD1A; R2
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	CD1E - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001042583, NM_001042584, NM_001042585, NM_001042586, NM_001042587, NM_001185107, NM_001185108, NM_001185110, NM_001185112, NM_001185113, NM_001185114, NM_001185115, NM_030893, NM_001042584.1, NM_001042584.2, NM_030893.1, NM_030893.2, NM_030893.3, NM_001042583.1, NM_001042583.2, NM_001042585.1, NM_001042585.2, NM_001042586.1, NM_001042586.2, NM_001042587.1, NM_001042587.2, NM_001185110.1, NM_001185113.1, NM_001185112.1, NM_001185108.1, NM_001185115.1, NM_001185114.1, BC131693, NM_001185113.2, NM_001185110.2, NM_001185107.2, NM_001185115.2, NM_001042583.3, NM_001042585.3, NM_001185108.2, NM_001042587.3, NM_001042584.3, NM_001185112.2, NM_001042586.3, NM_030893.4
UniProt ID:	P15812
Summary:	This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes within Golgi compartments, endosomes, and lysosomes, and is cleaved into a stable soluble form. The soluble form is required for the intracellular processing of some glycolipids into a form that can be presented by other CD1 family members. Many alternatively spliced transcript variants encoding different isoforms have been described. Additional transcript variants have been found; however, their biological validity has not been determined. [provided by RefSeq, Jun 2010]

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shRNA Design: 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.

Performance Guaranteed: 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.

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).