

## Product datasheet for **TR309445**

### Siglec 7 (SIGLEC7) Human shRNA Plasmid Kit (Locus ID 27036)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Siglec 7 (SIGLEC7) Human shRNA Plasmid Kit (Locus ID 27036)
Locus ID:	27036
Synonyms:	AIRM-1; AIRM1; CD328; CDw328; D-siglec; p75; p75/AIRM1; QA79; SIGLEC-7; SIGLEC19P; SIGLECP2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SIGLEC7 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 27036). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001277201</a> , <a href="#">NM_014385</a> , <a href="#">NM_016543</a> , <a href="#">NR_102350</a> , <a href="#">NM_014385.1</a> , <a href="#">NM_014385.2</a> , <a href="#">NM_014385.3</a> , <a href="#">NM_016543.1</a> , <a href="#">NM_016543.2</a> , <a href="#">NM_016543.3</a> , <a href="#">NM_001277201.1</a> , <a href="#">BC028150</a> , <a href="#">BC028150.1</a>
UniProt ID:	<a href="#">Q9Y286</a>
Summary:	Putative adhesion molecule that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,3- and alpha-2,6-linked sialic acid. Also binds disialogangliosides (disialogalactosyl globoside, disialyl lactotetraosylceramide and disialyl GalNAc lactotetraosylceramide). The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. Mediates inhibition of natural killer cells cytotoxicity. May play a role in hemopoiesis. Inhibits differentiation of CD34+ cell precursors towards myelomonocytic cell lineage and proliferation of leukemic myeloid cells (in vitro). [UniProtKB/Swiss-Prot Function]



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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](mailto: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](mailto: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).