

## Product datasheet for **TR517316**

### Cd44 Mouse shRNA Plasmid (Locus ID 12505)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Cd44 Mouse shRNA Plasmid (Locus ID 12505)
Locus ID:	12505
Synonyms:	AU023126; AW121933; AW146109; HERMES; Ly-24; Pgp-1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Cd44 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 12505). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">BC051388</a> , <a href="#">NM_001039150</a> , <a href="#">NM_001039151</a> , <a href="#">NM_001177785</a> , <a href="#">NM_001177786</a> , <a href="#">NM_001177787</a> , <a href="#">NM_009851</a> , <a href="#">NM_009851.1</a> , <a href="#">NM_009851.2</a> , <a href="#">NM_001177785.1</a> , <a href="#">NM_001039150.1</a> , <a href="#">NM_001039151.1</a> , <a href="#">NM_001177786.1</a> , <a href="#">NM_001177787.1</a> , <a href="#">BC005676</a> , <a href="#">BC025635</a>
UniProt ID:	<a href="#">P15379</a>
Summary:	Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment. Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection. Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases (PubMed:8343954, PubMed:25065622). Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion (By similarity). [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).