

## Product datasheet for **TR305506**

### CD97 (ADGRE5) Human shRNA Plasmid Kit (Locus ID 976)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	CD97 (ADGRE5) Human shRNA Plasmid Kit (Locus ID 976)
Locus ID:	976
Synonyms:	CD97; TM7LN1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ADGRE5 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 976). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001025160</a> , <a href="#">NM_001784</a> , <a href="#">NM_078481</a> , <a href="#">NM_001784.1</a> , <a href="#">NM_001784.2</a> , <a href="#">NM_001784.3</a> , <a href="#">NM_001784.4</a> , <a href="#">NM_078481.1</a> , <a href="#">NM_078481.2</a> , <a href="#">NM_078481.3</a> , <a href="#">NM_001025160.1</a> , <a href="#">NM_001025160.2</a> , <a href="#">BC026690</a> , <a href="#">BC026690.2</a> , <a href="#">BM545710</a> , <a href="#">NM_001784.5</a> , <a href="#">NM_078481.4</a>
UniProt ID:	<a href="#">P48960</a>
Summary:	This gene encodes a member of the EGF-TM7 subfamily of adhesion G protein-coupled receptors, which mediate cell-cell interactions. These proteins are cleaved by self-catalytic proteolysis into a large extracellular subunit and seven-span transmembrane subunit, which associate at the cell surface as a receptor complex. The encoded protein may play a role in cell adhesion as well as leukocyte recruitment, activation and migration, and contains multiple extracellular EGF-like repeats which mediate binding to chondroitin sulfate and the cell surface complement regulatory protein CD55. Expression of this gene may play a role in the progression of several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms with 3 to 5 EGF-like repeats have been observed for this gene. This gene is found in a cluster with other EGF-TM7 genes on the short arm of chromosome 19. [provided by RefSeq, Jun 2011]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**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).