

## Product datasheet for **TR305510**

### CD46 Human shRNA Plasmid Kit (Locus ID 4179)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	CD46 Human shRNA Plasmid Kit (Locus ID 4179)
Locus ID:	4179
Synonyms:	AHUS2; MCP; MIC10; TLX; TRA2.10
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	CD46 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 4179). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_002389</a> , <a href="#">NM_153826</a> , <a href="#">NM_172350</a> , <a href="#">NM_172351</a> , <a href="#">NM_172352</a> , <a href="#">NM_172353</a> , <a href="#">NM_172354</a> , <a href="#">NM_172355</a> , <a href="#">NM_172356</a> , <a href="#">NM_172357</a> , <a href="#">NM_172358</a> , <a href="#">NM_172359</a> , <a href="#">NM_172360</a> , <a href="#">NM_172361</a> , <a href="#">NM_153826.1</a> , <a href="#">NM_153826.2</a> , <a href="#">NM_153826.3</a> , <a href="#">NM_002389.1</a> , <a href="#">NM_002389.2</a> , <a href="#">NM_002389.3</a> , <a href="#">NM_002389.4</a> , <a href="#">NM_172351.1</a> , <a href="#">NM_172351.2</a> , <a href="#">NM_172354.1</a> , <a href="#">NM_172360.1</a> , <a href="#">NM_172361.1</a> , <a href="#">NM_172361.2</a> , <a href="#">NM_172350.2</a> , <a href="#">NM_172352.1</a> , <a href="#">NM_172352.2</a> , <a href="#">NM_172353.1</a> , <a href="#">NM_172353.2</a> , <a href="#">NM_172356.1</a> , <a href="#">NM_172359.1</a> , <a href="#">NM_172359.2</a> , <a href="#">NM_172358.1</a> , <a href="#">NM_172355.1</a> , <a href="#">NM_172357.1</a> , <a href="#">BC030594</a> , <a href="#">BC030594.2</a> , <a href="#">BC007046</a> , <a href="#">BC026273</a> , <a href="#">NM_153826.4</a> , <a href="#">NM_172353.3</a> , <a href="#">NM_172352.3</a> , <a href="#">NM_172351.3</a> , <a href="#">NM_172356.3</a> , <a href="#">NM_172358.3</a> , <a href="#">NM_172361.3</a> , <a href="#">NM_172350.3</a> , <a href="#">NM_172359.3</a>
UniProt ID:	<a href="#">P15529</a>
Summary:	The protein encoded by this gene is a type I membrane protein and is a regulatory part of the complement system. The encoded protein has cofactor activity for inactivation of complement components C3b and C4b by serum factor I, which protects the host cell from damage by complement. In addition, the encoded protein can act as a receptor for the Edmonston strain of measles virus, human herpesvirus-6, and type IV pili of pathogenic Neisseria. Finally, the protein encoded by this gene may be involved in the fusion of the spermatozoa with the oocyte during fertilization. Mutations at this locus have been associated with susceptibility to hemolytic uremic syndrome. Alternatively spliced transcript variants encoding different isoforms have been described. [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](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).