

## Product datasheet for **TR314076**

### CD55 Human shRNA Plasmid Kit (Locus ID 1604)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	CD55 Human shRNA Plasmid Kit (Locus ID 1604)
Locus ID:	1604
Synonyms:	CHAPLE; CR; CROM; DAF; TC
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	CD55 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 1604). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<u><a href="#">NM_000574</a></u> , <u><a href="#">NM_001114752</a></u> , <u><a href="#">NM_001300902</a></u> , <u><a href="#">NM_001300903</a></u> , <u><a href="#">NM_001300904</a></u> , <u><a href="#">NR_125349</a></u> , <u><a href="#">NM_000574.1</a></u> , <u><a href="#">NM_000574.2</a></u> , <u><a href="#">NM_000574.3</a></u> , <u><a href="#">NM_000574.4</a></u> , <u><a href="#">NM_001114752.1</a></u> , <u><a href="#">NM_001114752.2</a></u> , <u><a href="#">NM_001300904.1</a></u> , <u><a href="#">NM_001300903.1</a></u> , <u><a href="#">NM_001300902.1</a></u> , <u><a href="#">BC001288</a></u> , <u><a href="#">BC001288.1</a></u> , <u><a href="#">NM_001114543</a></u> , <u><a href="#">NM_001114544</a></u> , <u><a href="#">NM_001300902.2</a></u> , <u><a href="#">NM_001300904.2</a></u> , <u><a href="#">NM_000574.5</a></u> , <u><a href="#">NM_001300903.2</a></u> , <u><a href="#">NM_001114752.3</a></u>
UniProt ID:	<u><a href="#">P08174</a></u>
Summary:	This gene encodes a glycoprotein involved in the regulation of the complement cascade. Binding of the encoded protein to complement proteins accelerates their decay, thereby disrupting the cascade and preventing damage to host cells. Antigens present on this protein constitute the Cromer blood group system (CROM). Alternative splicing results in multiple transcript variants. The predominant transcript variant encodes a membrane-bound protein, but alternatively spliced transcripts may produce soluble proteins. [provided by RefSeq, Jul 2014]
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).