

Product datasheet for **TR306836**

ADAMTS18 Human shRNA Plasmid Kit (Locus ID 170692)

Product data:

Product Type:	shRNA Plasmids
Product Name:	ADAMTS18 Human shRNA Plasmid Kit (Locus ID 170692)
Locus ID:	170692
Synonyms:	9630038L21; ADAMTS21; a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 18; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 18; E130314N14Rik
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ADAMTS18 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector (Gene ID = 170692). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_139054 , NM_199355 , NM_001326358 , NM_199355.1 , NM_199355.2 , NM_199355.3 , NM_139054.2 , BC063283 , BC063283.1 , BM684970 , NM_199355.4
UniProt ID:	Q8TE60
Summary:	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. ADAMTS family members share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The encoded preproprotein is proteolytically processed to generate the mature protein, which may regulate hemostatic balance and function as a tumor suppressor. Mutations in this gene may be associated with microcornea, myopic chorioretinal atrophy, and telecanthus (MMCAT) and cone-rod dystrophy in human patients. [provided by RefSeq, May 2016]
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 . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).