

## Product datasheet for **TR306847**

### ADAM22 Human shRNA Plasmid Kit (Locus ID 53616)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	ADAM22 Human shRNA Plasmid Kit (Locus ID 53616)
Locus ID:	53616
Synonyms:	ADAM 22; DEE61; EIEE61; MDC2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ADAM22 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 53616). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_004194</a> , <a href="#">NM_016351</a> , <a href="#">NM_021721</a> , <a href="#">NM_021722</a> , <a href="#">NM_021723</a> , <a href="#">NM_001324417</a> , <a href="#">NM_001324418</a> , <a href="#">NM_001324419</a> , <a href="#">NM_001324420</a> , <a href="#">NM_001324421</a> , <a href="#">NM_021721.1</a> , <a href="#">NM_021721.2</a> , <a href="#">NM_021721.3</a> , <a href="#">NM_021721.4</a> , <a href="#">NM_004194.1</a> , <a href="#">NM_004194.2</a> , <a href="#">NM_004194.3</a> , <a href="#">NM_004194.4</a> , <a href="#">NM_021723.1</a> , <a href="#">NM_021723.2</a> , <a href="#">NM_021723.3</a> , <a href="#">NM_021723.4</a> , <a href="#">NM_016351.1</a> , <a href="#">NM_016351.2</a> , <a href="#">NM_016351.3</a> , <a href="#">NM_016351.4</a> , <a href="#">NM_016351.5</a> , <a href="#">NM_021722.2</a> , <a href="#">NM_021722.3</a> , <a href="#">NM_021722.4</a> , <a href="#">NM_021722.5</a> , <a href="#">BC125118</a> , <a href="#">BC036029</a> , <a href="#">BC062433</a> , <a href="#">BC092465</a> , <a href="#">BC125117</a> , <a href="#">NM_021723.5</a> , <a href="#">NM_021722.6</a> , <a href="#">NM_016351.6</a>
UniProt ID:	<a href="#">Q9P0K1</a>
Summary:	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. Unlike other members of the ADAM protein family, the protein encoded by this gene lacks metalloprotease activity since it has no zinc-binding motif. This gene is highly expressed in the brain and may function as an integrin ligand in the brain. In mice, it has been shown to be essential for correct myelination in the peripheral nervous system. Alternative splicing results in several transcript variants.[provided by RefSeq, Dec 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).