

## Product datasheet for **TL306822**

### ADCY4 Human shRNA Plasmid Kit (Locus ID 196883)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	ADCY4 Human shRNA Plasmid Kit (Locus ID 196883)
Locus ID:	196883
Synonyms:	AC4
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ADCY4 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 196883). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001198568</a> , <a href="#">NM_001198592</a> , <a href="#">NM_139247</a> , <a href="#">NM_139247.1</a> , <a href="#">NM_139247.2</a> , <a href="#">NM_139247.3</a> , <a href="#">NM_001198568.1</a> , <a href="#">NM_001198592.1</a> , <a href="#">BC015982</a> , <a href="#">BC027943</a> , <a href="#">BC117473</a> , <a href="#">BC117475</a> , <a href="#">BC143947</a> , <a href="#">NM_001198568.2</a> , <a href="#">NM_001198592.2</a> , <a href="#">NM_139247.4</a>
UniProt ID:	<a href="#">Q8NFM4</a>
Summary:	This gene encodes a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). Mouse studies show that adenylate cyclase 4, along with adenylate cyclases 2 and 3, is expressed in olfactory cilia, suggesting that several different adenylate cyclases may couple to olfactory receptors and that there may be multiple receptor-mediated mechanisms for the generation of cAMP signals. Alternative splicing results in transcript variants. [provided by RefSeq, Nov 2010]
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).