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Product datasheet for TL511427

Adcy6 Mouse shRNA Plasmid (Locus ID 11512)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Adcy6 Mouse shRNA Plasmid (Locus ID 11512)
Locus ID:	11512
Synonyms:	AC6; mKIAA0422
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Adcy6 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 11512). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_007405, NM_007405.1, NM_007405.2, BC145101, BC156960, NM_001368413, NM_007405.3
UniProt ID:	Q01341

View online »

Summary:

Catalyzes the formation of the signaling molecule cAMP downstream of G protein-coupled receptors (PubMed:18071070, PubMed:24363043). Functions in signaling cascades downstream of beta-adrenergic receptors in the heart and in vascular smooth muscle cells (PubMed:18071070). Functions in signaling cascades downstream of the vasopressin receptor in the kidney and has a role in renal water reabsorption (PubMed:20466003, PubMed:20864687). Functions in signaling cascades downstream of PTH1R and plays a role in regulating renal phosphate excretion (PubMed:24854272). Functions in signaling cascades downstream of the VIP and SCT receptors in pancreas and contributes to the regulation of pancreatic amylase and fluid secretion (PubMed:23753526). Signaling mediates cAMP-dependent activation of protein kinase PKA and promotes increased phosphorylation of various proteins, including AKT (PubMed:18071070, PubMed:23753526). Plays a role in regulating cardiac sarcoplasmic reticulum Ca(2+) uptake and storage, and is required for normal heart ventricular contractibility (PubMed:18071070). May contribute to normal heart function (PubMed:18071070, PubMed:20359598). Mediates vasodilatation after activation of beta-adrenergic receptors by isoproterenol (By similarity). Contributes to bone cell responses to mechanical stimuli (PubMed:20371630, PubMed:24277577).[UniProtKB/Swiss-Prot Function]

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.

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).