

# Product datasheet for TL500828

## Gnai1 Mouse shRNA Plasmid (Locus ID 14677)

## **Product data:**

### OriGene Technologies, Inc.

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| Product Type:shRNA PlasmidsProduct Name:Gnai1 Mouse shRNA Plasmid (Locus ID 14677)Locus ID:14677Synonyms:AU046200; Gialpha1; Gnai-1Vector:pGFP-C-shLenti (TR30023)E. coli Selection:Chloramphenicol (34 ug/ml)Marmalian CellPuromycinSelection:Entiviral plasmidsFormat:Lentiviral plasmid DNA per construct<br>29-mer scrambled shRNA constructs in lentiviral GFP vector(Gene ID = 14677),<br>Sµg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.RefSeq:NM 010305, NM 010305.1, BC138862, BC032995, BC138865UniProt ID:B2RSH2Summary:Guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G<br>protein-coupled receptors (GPCRs) in numerous signaling cascades. The alpha chain contains<br>the guanine nucleotide binding site and alternates between an active, GTP-bound state and<br>an inactive, GDP-bound state. Signaling by an activated GPCR promotes GDP release and GTP<br>binding. The alpha subunit has a low GTPase activity, hading to decreased intracellular<br>cAMP levels (By similarity). Signaling is mediated via effector proteins, such<br>as adenylate cyclase. Inhibits adenylate cyclase activity, heading to decreased intracellular<br>cAMP levels (By similarity). The inactive GDP-bound form prevents the association of RGS14<br>with centrosomes and is required for normal cytokinesis during mitosis. Required for cortical<br>dynein-dynactin complex recruitment during metaphase (By similarity).[UniProtKB/Swiss-Prot<br>Function]shRNA Design:These shRNA constructs were designed against multiple splice variants at this gene locus. To<br>be certain that your variant of interest is   |                    |   |
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### **Gnai1 Mouse shRNA Plasmid (Locus ID 14677) – TL500828**

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).

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