

Product datasheet for TR701867

Gna13 Rat shRNA Plasmid (Locus ID 303634)

Product data:

Product Type: shRNA Plasmids

Product Name: Gna13 Rat shRNA Plasmid (Locus ID 303634)

Locus ID: 303634 Synonyms: Galpha13

pRS (TR20003) Vector:

E. coli Selection: **Ampicillin** Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Gna13 - Rat, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

303634). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

NM 001013119, NM 001013119.1 RefSeq:

UniProt ID: Q6Q7Y5

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers **Summary:**

> in various transmembrane signaling systems (PubMed:12176367). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF1/p115RhoGEF, ARHGEF11/PDZ-RhoGEF and ARHGEF12/LARG) (By similarity). GNA13-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) (By similarity). Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway (By similarity). Inhibits CDH1mediated cell adhesion in process independent from Rho activation (By similarity).

[UniProtKB/Swiss-Prot Function]

These shRNA constructs were designed against multiple splice variants at this gene locus. To shRNA Design:

> 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).