

Product datasheet for TR312721

OriGene Technologies, Inc.

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GNAT1 Human shRNA Plasmid Kit (Locus ID 2779)

Product data:

Product Type: shRNA Plasmids

Product Name: GNAT1 Human shRNA Plasmid Kit (Locus ID 2779)

Locus ID: 2779

Synonyms: CSNB1G; CSNBAD3; GBT1; GNATR

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection:

Format:

Retroviral plasmids

Components: GNAT1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

2779). 5µg purified plasmid DNA per construct

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

RefSeq: NM 000172, NM 144499, NM 000172.1, NM 000172.2, NM 000172.3, NM 144499.1,

NM 144499.2, BC095505, NM 144499.3, NM 000172.4

UniProt ID: P11488

Summary: Transducin is a 3-subunit guanine nucleotide-binding protein (G protein) which stimulates the

coupling of rhodopsin and cGMP-phoshodiesterase during visual impulses. The transducin alpha subunits in rods and cones are encoded by separate genes. This gene encodes the alpha subunit in rods. This gene is also expressed in other cells, and has been implicated in bitter taste transduction in rat taste cells. Mutations in this gene result in autosomal

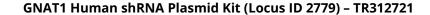
encoding the same protein, have been identified. [provided by RefSeq, Feb 2009]

dominant congenital stationary night blindness. Multiple alternatively spliced variants,

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 <u>techsupport@origene.com</u>. 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).