

## Product datasheet for SC309030

### OriGene Technologies, Inc.

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# G protein alpha inhibitor 1 (GNAI1) (NM\_002069) Human Untagged Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: G protein alpha inhibitor 1 (GNAI1) (NM 002069) Human Untagged Clone

Tag: Tag Free

Symbol: G protein alpha inhibitor 1

Synonyms: Gi

Mammalian Cell None

Selection:

Vector: pCMV6-XL4

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM\_002069 edited

ATGGGCTGCACGCTGAGCGCCGAGGACAAGGCGGCGGTGGAGCGGAGTAAGATGATCGAC CGCAACCTCCGTGAGGACGGCGAGAAGGCGGCGCGCGAGGTCAAGCTGCTGCTCGGT GCTGGTGAATCTGGTAAAAGTACAATTGTGAAGCAGATGAAAATTATCCATGAAGCTGGT TATTCAGAAGAGGAGTGTAAACAATACAAAGCAGTGGTCTACAGTAACACCCATCCAGTCA ATTATTGCTATCATTAGGGCTATGGGGAGGTTGAAGATAGACTTTGGTGACTCAGCCCGG GCGGATGATGCACGCCAACTCTTTGTGCTAGCTGGAGCTGCTGAAGAAGGCTTTATGACT GCAGAACTTGCTGGAGTTATAAAGAGATTGTGGAAAGATAGTGGTGTACAAGCCTGTTTC AACAGATCCCGAGAGTACCAGCTTAATGATTCTGCAGCATACTATTTGAATGACTTGGAC AGAATAGCTCAACCAAATTACATCCCGACTCAACAAGATGTTCTCAGAACTAGAGTGAAA ACTACAGGAATTGTTGAAACCCATTTTACTTTCAAAGATCTTCATTTTAAAATGTTTGAT GTGGGAGGTCAGAGATCTGAGCGGAAGAAGTGGATTCATTGCTTCGAAGGAGTGACGGCG ATCATCTTCTGTGTAGCACTGAGTGACTACGACCTGGTTCTAGCTGAAGATGAAGAAATG AACCGAATGCATGAAAGCATGAAATTGTTTGACAGCATATGTAACAACAAGTGGTTTACA GATACATCCATTATACTTTTTCTAAACAAGAAGGATCTCTTTGAAGAAAAAATCAAAAAG AGCCCTCTCACTATATGCTATCCAGAATATGCAGGATCAAACACATATGAAGAGGCAGCT 

GATGTCATCATAAAAAATAATCTAAAAGATTGTGGTCTCTTTTAA

**Restriction Sites:** Please inquire ACCN: NM 002069

**Insert Size:** 2300 bp



### G protein alpha inhibitor 1 (GNAI1) (NM\_002069) Human Untagged Clone - SC309030

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a

point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative

RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** The open reading frame of this clone has been fully sequenced and found to be a perfect

match to the protein associated with this reference, NM\_002069.5.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 002069.4, NP 002060.4</u>

RefSeq Size:3342 bpRefSeq ORF:1065 bpLocus ID:2770

 UniProt ID:
 P63096

 Cytogenetics:
 7q21.11

**Domains:** G-alpha

**Protein Families:** Druggable Genome

**Protein Pathways:** Axon guidance, Chemokine signaling pathway, Gap junction, Leukocyte transendothelial

migration, Long-term depression, Melanogenesis, Progesterone-mediated oocyte maturation,

Tight junction



#### **Gene Summary:**

Guanine nucleotide binding proteins are heterotrimeric signal-transducing molecules consisting of alpha, beta, and gamma subunits. The alpha subunit binds guanine nucleotide, can hydrolyze GTP, and can interact with other proteins. The protein encoded by this gene represents the alpha subunit of an inhibitory complex. The encoded protein is part of a complex that responds to beta-adrenergic signals by inhibiting adenylate cyclase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.