

Product datasheet for **SC330422**

G protein alpha inhibitor 1 (GNAI1) (NM_001256414) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein alpha inhibitor 1 (GNAI1) (NM_001256414) Human Untagged Clone
Tag:	Tag Free
Symbol:	G protein alpha inhibitor 1
Synonyms:	Gi
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330422 representing NM_001256414. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAAAATTATCCATGAAGCTGGTTATTCAGAAGAGGAGTGTAAACAATACAAAGCAGTGGTCTACAGT
AACACCATCCAGTCAATTATTGCTATCATTAGGGCTATGGGGAGGTTGAAGATAGACTTTGGTGACTCA
GCCCGGGCGGATGATGCACGCCAACTCTTTGTGCTAGCTGGAGCTGCTGAAGAAGGCTTTATGACTGCA
GAACTTGTGGAGTTATAAAGAGATTGTGGAAAGATAGTGGTGTACAAGCCTGTTCAACAGATCCCGA
GAGTACCAGCTTAATGATTCTGCAGCATACTATTTGAATGACTTGGACAGAATAGCTCAACCAAATTAC
ATCCCGACTCAACAAGATGTTCTCAGAAGTACTAGAGTGAAAACACTACAGGAATTGTTGAAACCCATTTACT
TTCAAAGATCTTCATTTTAAAATGTTTGTATGTGGGAGGTGAGAGATCTGAGCGGAAGAAGTGGATTGAT
TGCTTCGAAGGAGTGACGGCGATCATCTTCTGTGTAGCACTGAGTACTACGACCTGGTTCTAGCTGAA
GATGAAGAAATGAACCGAATGCATGAAAGCATGAAATTGTTTGACAGCATATGTAACAACAAGTGGTTT
ACAGATACATCCATTATACTTTTTCTAAACAAGAAGGATCTCTTTGAAGAAAAATCAAAAAGAGCCCT
CTCACTATATGCTATCCAGAATATGCAGGATCAAACACATATGAAGAGGCAGCTGCATATATTCAATGT
CAGTTTGAAGACCTCAATAAAAAGAAAGGACACAAAGGAAATATACACCCACTTCACATGTGCCACAGAT
ACTAAGAATGTGCAGTTTGTGTTTGTATGCTGTAACAGATGTCATCATAAAAAATAATCTAAAAGATTGT
GGTCTCTTTTAA
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001256414
Insert Size:	909 bp
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).
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).



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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.

RefSeq: [NM_001256414.1](#)

RefSeq Size: 3181 bp

RefSeq ORF: 909 bp

Locus ID: 2770

UniProt ID: [P63096](#)

Cytogenetics: 7q21.11

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

MW: 34.8 kDa

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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.