

Product datasheet for **SC320935**

G protein alpha Inhibitor 2 (GNAI2) (NM_002070) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein alpha Inhibitor 2 (GNAI2) (NM_002070) Human Untagged Clone
Tag:	Tag Free
Symbol:	G protein alpha Inhibitor 2
Synonyms:	GIP; GNAI2B; H_LUCA15.1; H_LUCA16.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002070.2
 GCGCGGCGGTAGGGAAGGCGCCTCCCGCAGTCGCTCGGAACTGCCGACCCGAGTGCTTCC
 CGCAGAGGGCTGGTGGTGGGAGCGGAGTGGGTCGGGCGGGGCCGAGCCGGGCCGTGGGCC
 GTGTGGGGGCCGGGCGGCGGGCCGGCGGACGGCGGGATGGGCTGCACCGTGAGCGC
 CGAGGACAAGGCGGCGGCGGAGCGCTCTAAGATGATCGACAAGAACCCTGCCGGAGGACGG
 AGAGAAGGCGGCGGGAGGTGAAGTTGCTGCTGTTGGGTGCTGGGGAGTCAGGGAAGAG
 CACCATCGTCAAGCAGATGAAGATCATCCACAGGATGGCTACTCCGAGGAGGAATGCCG
 GCAGTACCGGGCGGTTGTCTACAGCAACCCATCCAGTCCATCATGGCCATTGTCAAAGC
 CATGGGCAACCTGCAGATCGACTTTGCCGACCCCTCCAGAGCGGACGACGCCAGGCACT
 ATTTGCACTGTCTGCACCGCCGAGGAGCAAGGCGTGCTCCCTGATGACCTGTCCGGCGT
 CATCCGGAGGCTCTGGGCTGACCATGGTGTGCAGGCTGCTTTGGCCGCTCAAGGGAATA
 CCAGCTCAACGACTCAGCTGCCTACTACCTGAACGACCTGGAGCGTATTGCACAGAGTGA
 CTACATCCCACACAGCAAGATGTGCTACGGACCCGCGTAAAGACCACGGGGATCGTGGA
 GACACACTTACCTTCAAGGACTACACTTCAAGATGTTTGTATGTGGTGGTCAGCGGTC
 TGAGCGGAAGAAGTGGATCCACTGCTTTGAGGGCGTCACAGCCATCATCTTCTGCGTAGC
 CTTGAGCCCTATGACTTGGTGTAGCTGAGGACGAGGAGATGAACCGCATGCATGAGAG
 CATGAAGCTATTCGATAGCATCTGCAACAACAAGTGGTTCACAGACACGTCCATCATCT
 CTTCTCAACAAGAAGGACCTGTTTGGGAGAAGATCACACACAGTCCCCTGACCATCTG
 CTTCCCTGAGTACACAGGGGCCAACAAATATGATGAGGACGCCAGCTACATCCAGAGTAA
 GTTTGAGGACCTGAATAAGCGCAAAGACACCAAGGAGATCTACACGCACTTACCTGCGC
 CACCGACACCAAGAACGTGCAGTTCGTGTTGACGCCGTACCGATGTATCATCAAGAA
 CAACCTGAAGGACTGCGGCCTCTTCTGAGGGGCAGCGGGCCCTGGCGGGATGGGCCACCC
 CCGACTTTGTACCCCAACCCCTGAGGAAGATGGGGCAAGAAGATCACGCTCCCGCC
 TGTTCGCCCGCCGCTTTTCTCCTTTTCTCTTTGTTCTCAGCTCCCGCTGTCCCGCTC
 AGCTCCAGACTTAGGGGAGGGTGGCCACAGCCCTCCCTGTTTGAAGCCTGCCCTTGTCT
 GAGATGCTGGTAATGGCCATGGTACCCCTTCTGGGCATCTGTTCTGGTTTTTAACCATT
 GTCTTGTCTGTGATGAGGGGAGGGGGCACATGCTGAGTCTCCAAGGCTGCGTCTGGA
 GGGGCCCTGCTTCTCCAGCCTGGACCCAGCTTTGCCAACACCAGCCCTGCCCCAG
 CCCAAGTCCAAATGTTTACAGGGAGCCTCTGCCAGTCCCCAACCCAGCCGCTCGGA
 GGCCCCAAGGAAAAAGCACAAGAAGCGTGAGACGCCACCATTCTGGAAACCACAGTCC
 ACCTGCTATTCTCGTAGCTTTTTAAAAAATGAAAGTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002070

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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	<u>NM_002070.2</u> , <u>NP_002061.1</u>
RefSeq Size:	2200 bp
RefSeq ORF:	1068 bp
Locus ID:	2771
UniProt ID:	<u>P04899</u>
Cytogenetics:	3p21.31
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:	<p>The protein encoded by this gene is an alpha subunit of guanine nucleotide binding proteins (G proteins). The encoded protein contains the guanine nucleotide binding site and is involved in the hormonal regulation of adenylate cyclase. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>