

Product datasheet for RC237082

G protein alpha Inhibitor 2 (GNAI2) (NM_001282618) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein alpha Inhibitor 2 (GNAI2) (NM_001282618) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GNAI2
Synonyms:	GIP; GNAI2B; H_LUCA15.1; H_LUCA16.1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237082 representing NM_001282618 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCATTGTCAAAGCCATGGGCAACCTGCAGATCGACTTTGCCGACCCTCCAGAGCGGACGACGCCA
GGCAGCTATTTGCACTGTCCTGCACCGCCGAGGAGCAAGGCGTGCTCCCTGATGACCTGTCCGGCGTCAT
CCGGAGGCTCTGGGCTGACCATGGTGTGCAGGCCTGCTTTGGCCGCTCAAGGGAATACCAGCTCAACGAC
TCAGCTGCCTACTACCTGAACGACCTGGAGCGTATTGCACAGAGTGACTACATCCCCACACAGCAAGATG
TGCTACGGACCCGCGTAAAGACCACGGGATCGTGGAGACACACTTCACCTTCAAGGACCTACACTTCAA
GATGTTTGATGTGGTGGTCTCAGCGGTCTGAGCGGAAGAAGTGGATCCACTGCTTTGAGGGCGTCACAGCC
ATCATCTTCTGCGTAGCCTTGAGCGCCTATGACTTGGTGTAGCTGAGGACGAGGAGATGAACCGCATGC
ATGAGAGCATGAAGCTATTCGATAGCATCTGCAACAACAAGTGGTTCACAGACACGTCCATCATCTCTT
CCTCAACAAGAAGGACCTGTTTGAGGAGAAGATCACACACAGTCCCCTGACCATCTGCTTCCCTGAGTAC
ACAGGGGCCAACAATATGATGAGGCAGCCAGCTACATCCAGAGTAAGTTTGAGGACCTGAATAAGCGCA
AAGACACCAAGGAGATCTACACGCACTTACGTGCGCCACCGACACCAAGAACGTGCAGTTCGTGTTTGA
CGCCGTCACCGATGTCATCATCAAGAACAACCTGAAGGACTGCGGCCTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237082 representing NM_001282618
Red=Cloning site Green=Tags(s)

MAIVKAMGNLQIDFADPSRADDARQLFALSCTAEEQGVLPDDL SGVIRRLWADHGVQACFGRSREYQLND
 SAAYYLNDLERIAQSDYIPTQQDVL RTRVKT TGIVETHF TFKDLHFKMFDVGGQRSERKKWIHC FEGVTA
 IIFCVALSAYDLVLAEDEEMNRMHESMKLFDSICNNKWF TDTSIILFLNKKDLFEKITHSPLTICFPEY
 TGANKYDEAASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQVFDAVTDVVIKNNLKDCGLF

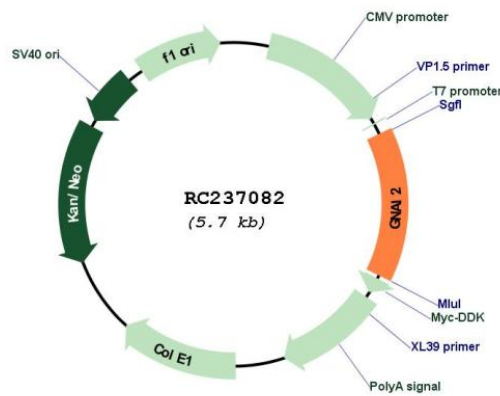
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282618
ORF Size: 822 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001282618.2
RefSeq Size:	2215 bp
RefSeq ORF:	825 bp
Locus ID:	2771
UniProt ID:	P04899
Cytogenetics:	3p21.31
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:	31.9 kDa
Gene Summary:	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]