

Product datasheet for RC237566

G protein alpha Inhibitor 2 (GNAI2) (NM_001282619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein alpha Inhibitor 2 (GNAI2) (NM_001282619) 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:	>RC237566 representing NM_001282619 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTATGCAGGGCATCTTCCTGCCAGCTCTGCCAGGGCACCATTGGCATGCACCAGCTGCACAG
GTGCTGGGGAGTCAGGGAAGAGCACCATCGTCAAGCAGATGAAGATCATCCACGAGGATGGCTACTCCGA
GGAGGAATGCCGGCAGTACCGGGCGGTTGTCTACAGCAACACCATCCAGTCCATCATGGCCATTGTCAA
GCCATGGGCAACCTGCAGATCGACTTTGCCGACCCTCCAGAGCGGACGACGCCAGGCAGCTATTTGCAC
TGTCTGCACCGCCGAGGAGCAAGGCGTCTCCCTGATGACCTGTCCGGCGTCATCCGGAGGCTCTGGGC
TGACCATGGTGTGCAGGCCTGCTTTGGCCGCTCAAGGGAATACCAGCTCAACGACTCAGCTGCCTACTAC
CTGAACGACCTGGAGCGTATTGCACAGAGTGACTACATCCCCACACAGCAAGATGTGCTACGGACCCGCG
TAAAGACCACGGGGATCGTGGAGACACACTTCACTTCAAGGACCTACACTTCAAGATGTTTGATGTGGG
TGGTCAGCGGTCTGAGCGGAAGAAGTGGATCCACTGCTTTGAGGGCGTCACAGCCATCATCTTCTGCGTA
GCCTTGAGCGCTATGACTTGGTGTAGCTGAGGACGAGGAGATGAACCGCATGCATGAGAGCATGAAGC
TATTCGATAGCATCTGCAACAACAAGTGGTTCACAGACAGTCCATCATCTTCTCAACAAGAAGGA
CCTGTTTGAGGAGAAGTACACACAGTCCCCTGACCATCTGCTTCCCTGAGTACACAGGGGCCAACAAA
TATGATGAGGCAGCCAGCTACATCCAGAGTAAGTTTGGAGACCTGAATAAGCGCAAGACACCAAGGAGA
TCTACACGCACTTACGTGCGCCACCGACACCAAGAACGTGCAGTTCGTGTTGACGCCGTACCCGATGT
CATCATCAAGAACAACCTGAAGGACTGCGGCCTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237566 representing NM_001282619
 Red=Cloning site Green=Tags(s)

MEYAGHLPASSAQGTILACTSCTGAGESGKSTIVKQMKIIHEDGYSEEECRQYRAVVYSNTIQSIMAIVK
 AMGNLQIDFADPSRADDARQLFALSCTAEEQGVLPDDL SGVIRRLWADHGVOACFGRSREYQLNDSAAYY
 LNDLERIAQSDYIPTQQDVLRTVRKTTGIVETHFTFKDLHFKMFDVGGQRSERKKWIHC FEGVTAIIFCV
 ALSAYDLVLAEDEEMNRMHESMKLFD S ICNKNWFTDTSIILFLNKKDLFEEKITHSPLTICFPEYTGANK
 YDEAASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDAVTDVVIKNNLKDCGLF

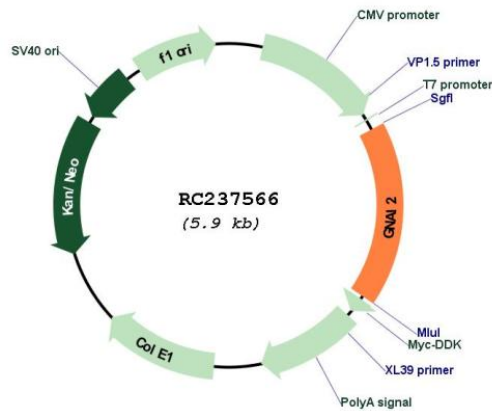
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282619

ORF Size: 1017 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_001282619.2
RefSeq Size:	2591 bp
RefSeq ORF:	1020 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:	38.9 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]