

Product datasheet for **RG237320**

G protein alpha Inhibitor 2 (GNAI2) (NM_001282617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein alpha Inhibitor 2 (GNAI2) (NM_001282617) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNAI2
Synonyms:	GIP; GNAI2B; H_LUCA15.1; H_LUCA16.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237320 representing NM_001282617. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGATCATCCACGAGGATGGCTACTCCGAGGAGGAATGCCGGCAGTACCGGGCGGTTGTCTACAGC
AACACCATCCAGTCCATCATGGCCATTGTCAAAGCCATGGGCAACCTGCAGATCGACTTTGCCGACCCC
TCCAGAGCGGACGACGCCAGGCAGCTATTTGCACTGTCTGCACCGCCGAGGAGCAAGGCGTGCTCCCT
GATGACCTGTCCGGCGTCATCCGGAGGCTCTGGGCTGACCATGGTGTGCAGGCCTGCTTTGGCCGCTCA
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TACATCCCACACAGCAAGATGTGCTACGGACCCGCGTAAAGACCACGGGGATCGTGAGACACACTTC
ACCTTCAAGGACCTACACTTCAAGATGTTTGATGTGGGTGGTACGCGGTCTGAGCGGAAGAAGTGGATC
CACTGCTTTGAGGGCGTCACAGCCATCATCTTCTGCGTAGCCTTGAGCGCCTATGACTTGGTGCTAGCT
GAGGACGAGGAGATGAACCGCATGCATGAGAGCATGAAGCTATTCGATAGCATCTGCAACAACAAGTGG
TTCACAGACACGTCCATCATCTCTTCCCTCAACAAGAAGGACCTGTTTGAGGAGAAGATCACACACAGT
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AGTAAGTTTGAGGACCTGAATAAGCGCAAAGACACCAAGGAGATCTACACGCACTTACGTCGCCACC
GACACCAAGAACGTGCAGTTCGTGTTTGACGCCGTCACCGATGTCATCATCAAGAACAACCTGAAGGAC
TGCGGCCTCTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237320
 Blue=ORF Red=Cloning site Green=Tag(s)

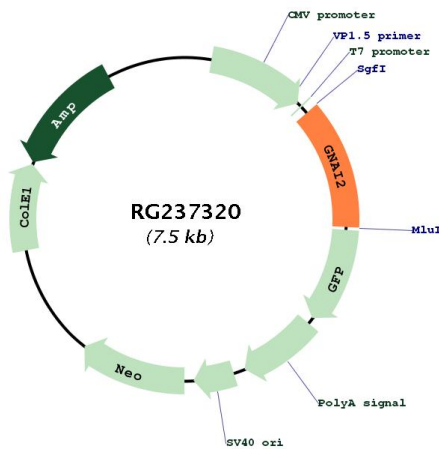
MKIIHEDGYSEEECRQYRAVVYSNTIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCTAEEQGVLP
 DDL SGVIRRLWADHGQACFGRSREYQLNDSAAYYLNDLERIAQSDYIPTQDVLTRVKTGIVETHF
 TFKDLHFKMFVGGQRSERKKWIHCFEGVTAIIFCVALSAYDLVLAEDEEMNRMHESMKLFDSICNNKW
 FTDTSIILFLNKKDLFEEKITHSPLTICFPEYTGANKYDEAASYIQSKFEDLNKRKDTKEIYTHFTCAT
 DTKNVQVFDAVTDVVIKNNLKDCGLF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282617

ORF Size:	909 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).
RefSeq:	NM_001282617.1 , NP_001269546.1
RefSeq Size:	2184 bp
RefSeq ORF:	912 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:	35.4 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]