

## Product datasheet for **RG237566**

### 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:	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:	>RG237566 representing NM_001282619. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGAGTATGCAGGGCATCTTCTGCCAGCTCTGCCAGGGCACCATTGGCATGCACCAGCTGCACA
GGTGCTGGGGAGTCAGGGAAGAGCACCATCGTCAAGCAGATGAAGATCATCCACGAGGATGGCTACTCC
GAGGAGGAATGCCGGCAGTACCGGGCGGTTGTCTACAGCAACACCATCCAGTCCATCATGGCCATTGTC
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GCACTGTCCTGCACCGCCGAGGAGCAAGGCGTGCTCCCTGATGACCTGTCCGGCGTCATCCGGAGGCTC
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TACTACCTGAACGACCTGGAGCGTATTGCACAGAGTGACTACATCCCCACACAGCAAGATGTGCTACGG
ACCCGCGTAAAGACCACGGGGATCGTGGAGACACACTTCACTTCAAGGACCTACTTCAAGATGTTT
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TTCTGCGTAGCCTTGAGCGCCTATGACTTGGTGTAGCTGAGGACGAGGAGATGAACCGCATGCATGAG
AGCATGAAGCTATTTCGATAGCATCTGCAACAACAAGTGGTTCACAGACACGTCCATCATCTCTTCTC
ACAAGAAGGACCTGTTTGAGGAGAAGATCACACACAGTCCCCTGACCATCTGCTCCCTGAGTACACA
GGGCAACAATAATGATGAGGCAGCCAGCTACATCCAGAGTAAGTTTGAGGACCTGAATAAGCGCAAA
GACACCAAGGAGATCTACAGCACTTACAGTGCGCCACCGACCAAGAACGTGCAGTTTCGTGTTTGAC
GCCGTCACCGATGTCATCATCAAGAACAACCTGAAGGACTGCGGCCTCTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237566  
 Blue=ORF Red=Cloning site Green=Tag(s)

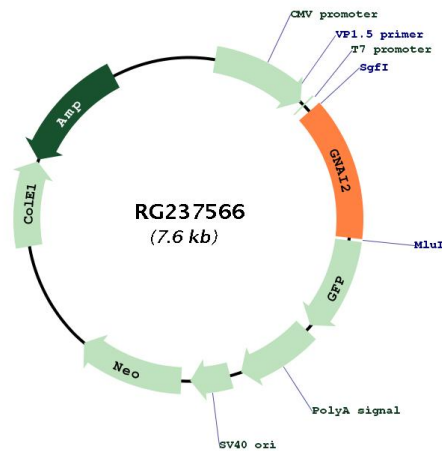
MEYAGHLPASSAQGTILACTSCTGAGESGKSTIVKQMKIIHEDGYSEEECRQYRAVVYSNTIQSIMAIV  
 KAMGNLQIDFADPSRADDARQLFALSCTAEEQGVLPDDL SGVIRRLWADHGVQACFGRSREYQLNDSAA  
 YYLNDLERIAQSDYIPTQQDVLRTVKTTGIVETHFTFKDLHFKMFDVGGQRSEKRWIHC FEGVTAII  
 FCVALSAYDLVLAEDEEMNRMHESMKLFDSICNNKWFDTDSIILFLNKKDLFEKITHSPLTICFPEYT  
 GANKYDEAASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQVFVDAVTDVVIKNNLKDCGLF  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001282619

<b>ORF Size:</b>	1017 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001282619.2</a>
<b>RefSeq Size:</b>	2591 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	2771
<b>UniProt ID:</b>	<a href="#">P04899</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Axon guidance, Chemokine signaling pathway, Gap junction, Leukocyte transendothelial migration, Long-term depression, Melanogenesis, Progesterone-mediated oocyte maturation, Tight junction
<b>MW:</b>	38.9 kDa
<b>Gene Summary:</b>	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]