

# **Product datasheet for RG231965**

## **GNAL (NM 001261444) Human Tagged ORF Clone**

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** GNAL (NM\_001261444) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: GNAL

Synonyms: DYT25

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG231965 representing NM\_001261444
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTTTGATGTTGGTGGCCAGAGGGATGAGAGAGAAAATGGATCCAGTGCTTTAACGATGTCACAGCTA
TCATTTACGTCGCAGCCTGCAGTAGCTACAACATGGTGATTCGAGAAGATAACAACACCAACAGGCTGAG
AGAGTCCCTGGATCTTTTTGAAAGCATCTGGAACAACAGGTGGTTACGGACCATTTCTATCATCTTGTTC
TTGAACAAACAAGATATGCTGGCAGAAAAAGTCTTGGCAGGGAAATCAAAAATTGAAGACTATTTCCCAG
AATATGCAAATTATACTGTTCCTGAAGACGCAACACCAGATGCAGGAGAAGATCCCAAAGTTACAAGAGC
CAAGTTCTTTATCCGGGACCTGTTTTTTGAGGATCAGCACGGCCACCGGTGACGGCAAACATTACTGCTAC
CCGCACTTCACCTGCGCCGTGGACACAGAGAACATCCGCAGGGTGTTCAACGACTGCCGCGACATCATCC

AGCGGATGCACCTCAAGCAGTATGAGCTCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231965 representing NM\_001261444

Red=Cloning site Green=Tags(s)

MFDVGGQRDERRKWIQCFNDVTAIIYVAACSSYNMVIREDNNTNRLRESLDLFESIWNNRWLRTISIILF LNKQDMLAEKVLAGKSKIEDYFPEYANYTVPEDATPDAGEDPKVTRAKFFIRDLFLRISTATGDGKHYCY

PHFTCAVDTENIRRVFNDCRDIIQRMHLKQYELL

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



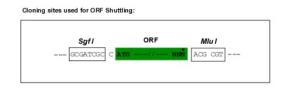
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

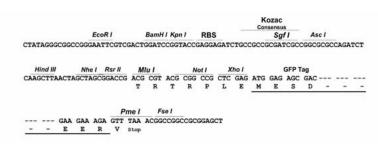
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

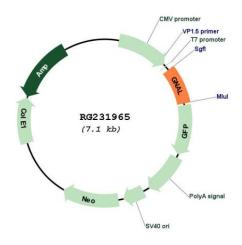


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM 001261444

ORF Size: 522 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.



### GNAL (NM\_001261444) Human Tagged ORF Clone - RG231965

**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:** 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 001261444.2</u>

RefSeq Size: 5568 bp
RefSeq ORF: 525 bp
Locus ID: 2774
UniProt ID: P38405

Cytogenetics: 18p11.21

**Protein Families:** Druggable Genome

**Protein Pathways:** Calcium signaling pathway, Olfactory transduction

**Gene Summary:** This gene encodes a stimulatory G protein alpha subunit which mediates odorant signaling in

the olfactory epithelium. This protein couples dopamine type 1 receptors and adenosine A2A receptors and is widely expressed in the central nervous system. Mutations in this gene have been associated with dystonia 25 and this gene is located in a susceptibility region for bipolar

disorder and schizophrenia. Alternative splicing results in multiple transcript variants.

[provided by RefSeq, Dec 2013]