

## 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 Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231965 representing NM\_001261444  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTGTGTTGGTGGCCAGAGGGATGAGAGGAGAAAAATGGATCCAGTGCTTTAACGATGTCACAGCTA  
TCATTTACGTCGCAGCCTGCAGTAGCTACAACATGGTATTGAGAGATAACAACACCAACAGGCTGAG  
AGAGTCCCTGGATCTTTTGAAGCATCTGGAACAACAGGTGGTACGGACATTTCTATCATCTTGTTT  
TTGAACAACAAGATATGCTGGCAGAAAAAGTCTTGGCAGGAAATCAAAAATTGAAGACTATTTCCAG  
AATATGCAAATTATACTGTTCTGAAGACGCAACACCAGATGCAGGAGAAGATCCCAAAGTTACAAGAGC  
CAAGTTCTTTATCCGGGACCTGTTTTGAGGATCAGCACGGCCACCGGTGACGGCAAACATTACTGCTAC  
CCGCACCTTCACTGCGCGTGGACACAGAGAACATCCGCAGGGTGTCAACGACTGCCGGCAGATCATCC  
AGCGGATGCACCTCAAGCAGTATGAGCTTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231965 representing NM\_001261444  
Red=Cloning site Green=Tags(s)

MFDVGGQRDERRKWIQCFNDVTAIIYVAACSSYNMVIREDNNTNRLRESLDLFEIWNRRWLRTISIIILF  
LNKQDMLAEKVLGKSKIETYFPEYANYTVPEDATPDAGEDPKVTRAKFFIRDFLRISTATGDGKHYCY  
PHFTCAVDTENIRRVFNDCRDIIQRMHLKQYELL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001261444.2</a></u>
<b>RefSeq Size:</b>	5568 bp
<b>RefSeq ORF:</b>	525 bp
<b>Locus ID:</b>	2774
<b>UniProt ID:</b>	<u><a href="#">P38405</a></u>
<b>Cytogenetics:</b>	18p11.21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Calcium signaling pathway, Olfactory transduction
<b>Gene Summary:</b>	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]