

## Product datasheet for RG203268

### OriGene Technologies, Inc.

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### G gamma12 (GNG12) (NM 018841) Human Tagged ORF Clone

#### **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** G gamma12 (GNG12) (NM\_018841) Human Tagged ORF Clone

Tag: **TurboGFP** Symbol: G gamma12 **Mammalian Cell** 

Selection:

Neomycin

pCMV6-AC-GFP (PS100010) Vector:

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

**ORF Nucleotide** >RG203268 representing NM\_018841

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

**GCCGCGATCGCC** 

ATGTCCAGCAAAACAGCAAGCACCAACAATATAGCCCAGGCAAGGAACTGTGCAGCAGTTAAGATTAG AAGCCTCCATTGAAGGAATAAAGGTTTCGAAGGCATCAGCGGACCTCATGTCCTACTGTGAGGAACATGC CAGGAGTGACCCTTTGCTGATAGGAATACCAACTTCAGAAAACCCTTTCAAGGATAAAAAAACTTGCATC

ATCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

>RG203268 representing NM\_018841 **Protein Sequence:** 

Red=Cloning site Green=Tags(s)

MSSKTASTNNIAQARRTVQQLRLEASIEGIKVSKASADLMSYCEEHARSDPLLIGIPTSENPFKDKKTCI

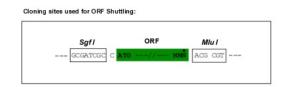
TRTRPLE - GFP Tag - V

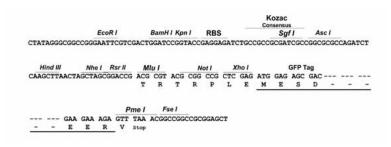
**Restriction Sites:** Sgfl-Mlul





#### **Cloning Scheme:**





**ACCN:** NM\_018841

ORF Size: 216 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:** 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 018841.2</u>



RefSeq Size: 4399 bp RefSeq ORF: 219 bp Locus ID: 55970 **UniProt ID:** Q9UBI6 Cytogenetics: 1p31.3 **Domains:** 

G-gamma

**Protein Pathways:** Chemokine signaling pathway, MAPK signaling pathway, Regulation of actin cytoskeleton

**Gene Summary:** Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer

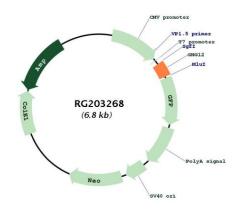
> in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction.

[UniProtKB/Swiss-Prot Function]

Druggable Genome

# **Product images:**

**Protein Families:** 



Circular map for RG203268