

Product datasheet for **RG203268**

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
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203268 representing NM_018841
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCAGCAAACAGCAAGCACCAACAATATAGCCCAGGCAAGGAGAACTGTGCAGCAGTTAAGATTAG
 AAGCCTCCATTGAAGGAATAAAGGTTTCGAAGGCATCAGCGGACCTCATGTCTACTGTGAGGAACATGC
 CAGGAGTGACCCTTTGCTGATAGGAATACCAACTTCAGAAAACCCCTTTCAAGGATAAAAAAATTGCATC
 ATCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203268 representing NM_018841
 Red=Cloning site Green=Tags(s)
 MSSKTASTNNIAQARRTVQQLRLEASIEGIKVSASADLMSYCEEHARSDPLLIGIPTSENPFKDKKTCI
 IL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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: [NM_018841.2](#)

RefSeq Size:	4399 bp
RefSeq ORF:	219 bp
Locus ID:	55970
UniProt ID:	Q9UBI6
Cytogenetics:	1p31.3
Domains:	G-gamma
Protein Families:	Druggable Genome
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]

Product images:



Circular map for RG203268