

Product datasheet for **RG202243**

G protein alpha 16 (GNA15) (NM_002068) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein alpha 16 (GNA15) (NM_002068) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	G protein alpha 16
Synonyms:	GNA16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202243 representing NM_002068 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCGCTCGCTGACCTGGCGCTGCTGCCCTGGTGCCTGACGGAGGATGAGAAGGCCCGCCCGGG
TGGACCAGGAGATCAACAGGATCCTCTTGGAGCAGAAGAAGCAGGACCGCGGGGAGCTGAAGCTGCTGCT
TTTGGGCCAGGCGAGAGCGGGAAGAGCACCTTCATCAAGCAGATGCGGATCATCCACGGCCCGGCTAC
TCGGAGGAGGAGCGCAAGGGCTTCGGCCCTGGTCTACCAGAACATCTTCGTGCCATGCGGGCCATGA
TCGAGGCCATGGAGCGGCTGCAGATTCCATTACAGCAGGCCGAGAGCAAGCACCACGCTAGCCTGGTCAT
GAGCCAGGACCCCTATAAAGTGACCACGTTTGAAGCGCTACGCTGCGGCCATGCAAGTGGCTGTGGAGG
GATGCCCGCATCCGGCCCTGCTATGAGCGTCGGCGGAATTCACCTGCTCGATTAGCCGTGTAATACC
TGTCCCACCTGGAGCGCATCACCGAGGAGGGCTACGTCCCACAGCTCAGGACGTGCTCCGACGCCGAT
GCCCACCACTGGCATCAACGAGTACTGCTTCTCCGTGCAGAAAACCAACTGCGGATCGTGGACGTGCGG
GGCCAGAAGTCAGAGCGTAAGAAATGGATCCATTGTTTCGAGAACGTGATCGCCCTATCTACCTGGCCT
CACTGAGTGAATACGACCAGTGCCTGGAGGAGAACAACCAGGAGAACCAGCATGAAGGAGAGCCTCGCATT
GTTTGGGACTATCCTGGAATACCCTGGTTCAAAAGCACATCCGTCATCCTCTTCTCAACAAAACCGAC
ATCCTGGAGGAGAAAATCCCCACCTCCCACCTGGCTACCTATTTCCAGTTTCCAGGGCCCTAAGCAGG
ATGCTGAGGCAGCCAAGAGGTTTCATCCTGGACATGTACAGGAGGATGTACACCGGGTGCCTGGACGGCCC
CGAGGGCAGCAAGAAGGGCGCACGATCCCGACGCTCTTCAGCCACTACACATGTGCCACAGACACACAG
AACATCCGCAAGGTCTTCAAGGACGTGCGGGACTCGGTGCTCGCCGCTACCTGGACGAGATCAACCTGC
TG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202243 representing NM_002068
 Red=Cloning site Green=Tags(s)

MARSLTWRCCPWCLTEDEKAAARVDQEINRILLEQKKQDRGELKLLLLGPGESGKSTFIKQMRIIHGAGY
 SEERKGFRLVYQNI FVSMRAMIEAMERLQIPFSRPESKHASLVMSQDPYKVTTFEKRYAAMQWLWR
 DAGIRACYERRREFHLLDSAVYYLSHLERITEEGYVPTAQDVLRSRMPPTGINEYCF SVQKTNLRIVDVG
 GQKSERKKWIHCFENVIALIYLASLSEYDQCLENNQENRMKESLALFGTILELPWFKSTSVILFLNKTD
 ILEEKIPTSHLATYFSPFQGPQDAEAAKRFILDMYTRMYTGCVDGPEGSKKGARSRRLLFSHYTCATDQT
 NIRKVFKDVRDSVLARYLDEINLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002068

ORF Size: 1122 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_002068.4](#)

RefSeq Size: 2060 bp

RefSeq ORF: 1125 bp

Locus ID: 2769

UniProt ID: [P30679](#)

Cytogenetics: 19p13.3

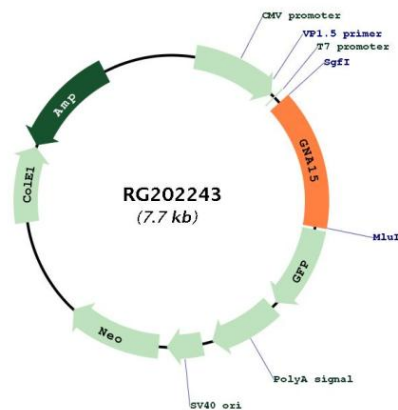
Domains: G-alpha

Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway

Gene Summary: Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202243