

Product datasheet for **MG205403**

Gnai2 (BC065159) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnai2 (BC065159) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gnai2
Synonyms:	C76432; Galphai2; Gia; Gnai-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205403 representing BC065159 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTGCACCGTGAGCGCCGAGGACAAGGCGGCAGCCGAGCGCTCTAAAATGATCGACAAGAACCTGC
GGGAGGACGGCGAGAAGGCGCGGGAGGTGAAGTTGCTTCTGTTAGGTGCTGGAGAGTCAGGGAAGAG
CACCATCGTCAAGCAGATGAAGATCATCCATGAAGATGGCTACTCAGAAGAGGAGTGCCGGCAGTACCGT
GCCGTGGTCTACAGCAACACCATCCAGTCTATCATGGCCATCGTGAAGGCCATGGCAACCTGCAGATCG
ACTTTGCTGATCCCCAGCGTGCGGATGATGCCAGGCAGCTGTTCCGCTGTCCTGTGCTGCAGAGGAACA
AGGGATGCTTCTGAAGACCTGTCCGGTGTATCCGGAGGCTCTGGGCTGACCACGGTGTCAAGCCTGC
TTTGGCCGCTCACGAGAATACCAGCTCAATGACTCAGCCGCTTACTACCTGAATGATCTGGAGCGCATTG
CACAGAGTGACTACATCCCTACACAGCAGGATGTGCTGCGGACCCGTGTGAAGACCACGGGCATCGTGGA
AACACACTTACCTTCAAGGACTTACACTTCAAGATGTTTGTGTGGGTGGTCAGCGGTCTGAGCGCAAG
AAGTGGATCCACTGCTTTGAGGGCGTCACGGCCATCATCTTCTGTGTGCGCTTGAGCGCTTATGACTTGG
TGCTGGCTGAGGATGAGGAGATGAACCGCATGCATGAGAGCATGAAGCTGTTTGAAGAAAAGATCACA
CAAGTGGTTCACAGACACCTCCATCATCTTCTTCTCAACAAGAAGGACCTGTTTGAAGAAAAGATCACA
CAGAGCTCCCTGACCATCTGTTCCCTGAGTACACGGGGCCCAACAAGTACGACGAGGCAGCCAGTACA
TCCAGAGCAAGTTTGAAGATCTAAATAAGCGCAAAGACACCAAGGAGATCTACACGCACTTACGTTGCGC
CACCGACACCAAGAACGTGCAGTTTGTGTTGATGCCGCTACTGACGTATCATCAAGAACAACCTGAAG
GACTGTGGCTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205403 representing BC065159
 Red=Cloning site Green=Tags(s)

MGCTVSAEDKAAAERSKMIDKNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEDGYSEEECRQYR
 AVVYSNTIQSIMAIVKAMGNLQIDFADPQRADDARQLFALSAAEEQGMLPEDLSGVIRRLWADHGVOAC
 FGRSREYQLNDSAAAYLNDLERIAQSDYIPTQQDVLRTVKTGIVETHFTFKDLHFKMFDVGGQRSERK
 KWIHC FEGVTAIIFCVALSAYDLVLAEDEEMNRMHESMKLFDSICNNKWF TDTSIILFLNKKDLFEKIKT
 QSSLTICFPEYTGANKYDEAASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDVAVTDVVIKNNLK
 DCLF

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2360_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC065159

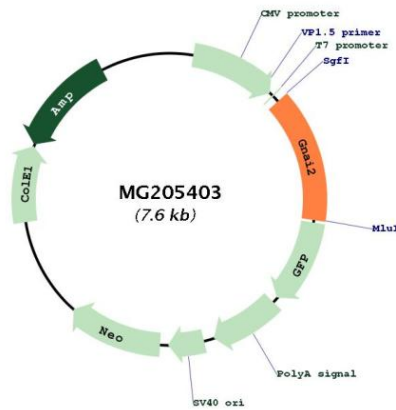
ORF Size: 1065 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:** [BC065159](#), [AAH65159](#)
- RefSeq Size:** 1993 bp
- RefSeq ORF:** 1067 bp
- Locus ID:** 14678
- Cytogenetics:** 9 58.43 cM
- Gene Summary:** Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The G(i) proteins are involved in hormonal regulation of adenylate cyclase: they inhibit the cyclase in response to beta-adrenergic stimuli. May play a role in cell division.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205403