

Product datasheet for **MG205409**

Gnaz (BC014702) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnaz (BC014702) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gnaz
Synonyms:	AI847979; Gz
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205409 representing BC014702 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGATGTCGGCAAAGCTCAGAGGAAAAAGAGGCAGCGAGGCGGTCCCGGAGAATTGACCGCCACCTGC
GCTCCGAAAGCCAGCGGCAGCGCGTGAATCAAATTCTCTGCTGGGCACCAGCAACTCGGGCAAGAG
CACCATCGTCAAGCAGATGAAGATCATCCACAGCGGGGCTTCAACCTGGACGCCTGCAAGGAGTACAAG
CCCCTCATCATCTACAACGCCATCGACTCGCTGACCCGGATCATCCGGGCCCTGGCTGCCCTCAAGATCG
ATTTCCACAACCTGACCGTGCCTACGACGCTGTGCAGCTCTTTGCTCTGACTGGCCAGCAGAGAGCAA
GGGTGAGATTACCTGAGCTGCTGGGTGTCATGCGACGGCTCTGGGCTGACCCAGGGGCCAGGCCTGC
TTTGGCCGCTCTAGCGAGTACCACCTGGAGGACATGCAGCCTACTACCTGAACGACCTGGAGCGCATCG
CAGCGCCCGACTACATCCCCACGGTGGAGGATATCCTACGCTCCCGGGACATGACCACGGGCATTGTGGA
GAACAAGTTCACCTTCAAGGAGCTTACCTTCAAGATGGTGGACGTGGCGGGCAGAGGTGAGAACGCAAA
AAGTGGATCCATTGCTTTGAAGGCGTCACAGCCATCATCTTCTGTGTGGAGCTCAGTGGCTATGACCTGA
AGCTCTATGAGGACAACCAGACGAGCCGGATGGCGGAGAGCCTGCGCCTCTTTGACTCCATCTGCAACAA
CAACTGGTTCATCAACACCTCGCTCATCTCTTCTGAACAAGAAGGACCTCTGGCAGAGAAGATCCGG
CGTATCCCGCTCAGCGTCTGCTTCCAGAGTACAAGGGTCAGAACACGTACGAGGAAGCCGCGGTCTACA
TCCAACGTCAAGTTCGAGGACCTCAACCGCAACAAGGAGACCAAGGAGATCTATTGCACTTCACTTGTGC
CACCGACACCAAGTAACATCCAGTTTGTGTTTGACGCAGTGACAGATGTCATCATACAGAACAATCTCAAG
TACATCGGCCTTTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205409 representing BC014702
 Red=Cloning site Green=Tags(s)

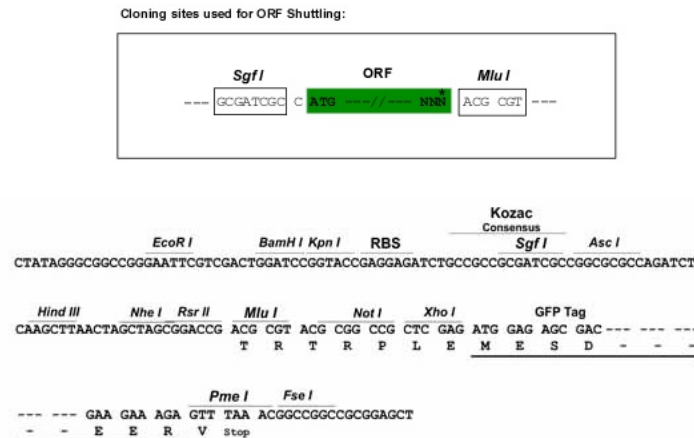
MGCRQSSEEKEAARRSRIDRLRSESQRQRREIKLLLLGTSNSGKSTIVKQMKIIHSGGFNLDAKEYK
 PLIIYNAIDSLTRIIRALAALKIDFHNPDRAYDAVQLFALTGPAESKGEITPELLGVMRRLWADPGAQAC
 FGRSSEYHLEDNAAYYLNDLERIAAPDYIPTVEDILRSRDMTTGIVENKFTFKELTFKMVDVGGQSRERK
 KWIHC FEGVTAIIFCVELSGYDLKLYEDNQTSRMAESLRLFDSICNNWFINTSLILFLNKKDLLAEKIR
 RIPLSVCFPEYKGQNTYEEAAVYIQRQFEDLNRNKETKEIYSHFTCATDTSNIQFVDAVTDVIIQNLLK
 YIGLC

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC014702

ORF Size: 1067 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: BC014702, AAH14702

RefSeq Size: 2182 bp

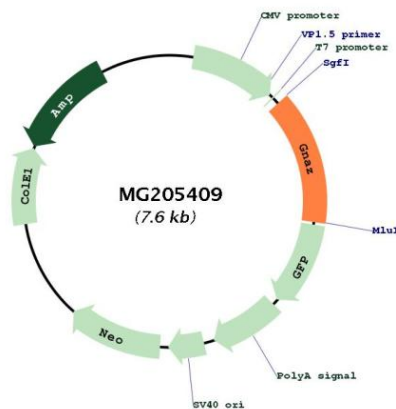
RefSeq ORF: 1067 bp

Locus ID: 14687

Cytogenetics: 10 38.48 cM

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 MG205409