

Product datasheet for **RG207326**

GNAZ (NM_002073) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GNAZ (NM_002073) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GNAZ |
| Synonyms: | gz-alpha |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG207326 representing NM_002073 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGATGTCGGCAAAGCTCAGAGGAAAAAGAAGCAGCCCGGGTCCCGGAGAATTGACCGCCACCTGC
GCTCAGAGAGCCAGCGCAACGCCGCGAAATCAAGCTGCTCCTGCTGGCACCAGCAACTCAGGCAAGAG
CACCATCGTCAACAGATGAAGATCATCCACAGCGGGCTTCAACCTGGAGTCTGCAAGGAGTACAAG
CCCCTCATCATCTACAATGCCATCGACTCGCTGACCCGCATCATCCGGGCCCTGGCCGCCCTCAGGATCG
ACTTCCACAACCCGACCGGCCTACGACGCTGTGCAGCTCTTTGCGCTGACGGGCCCGCTGAGAGCAA
GGGCGAGATCACACCCGAGCTGCTGGGTGTCATGCGACGGCTCTGGGCCGACCCAGGGGCACAGGCCTGC
TTCAGCCGCTCCAGCGAGTACCACCTGGAGGACAACGCGGCCCTACTACCTGAACGACCTGGAGCGCATCG
CCGCAGCTGACTATATCCCCACTGTGAGGACATCCTGCGCTCCCGGGACATGACCACGGGCATTGTGGA
GAACAAGTTCACCTTCAAGGAGCTCACCTTCAAGATGGTGAGCTGGGGGGCAGAGGTCAGAGCGCAAA
AAGTGGATCCACTGCTTCGAGGGCGTCACAGCCATCATCTTGTGTGGAGCTCAGTGGCTACGACCTGA
AACTCTACGAGGATAACCAGACAAGTCGGATGGCAGAGAGCTTGCCTCTTTGACTCCATCTGCAACAA
CAACTGGTTCATCAACACCTCACTCATCTCTTCTGAAACAAGAAGGACCTGCTGGCAGAGAAGATCCGC
CGCATCCCGCTCACCATCTGCTTCCCGAGTACAAGGGCCAGAACACGTACGAGGAGCCGCTGTCTACA
TCCAGCGCAGTTTGAAGACCTGAACCGCAACAAGGAGACCAAGGAGATCTACTCCACTTCACCTGCGC
CACCGACACCAAGTAAATCCAGTTTGTCTTCGACGCGGTGACAGACGTCATACAGAACAATCTCAAG
TACATTGGCCTTTGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207326 representing NM_002073
 Red=Cloning site Green=Tags(s)

MGCRQSSEEKEAARRSRRIDRHLRSESQRQRREIKLLLLGTSNSGKSTIVKQMKIIHSGGFNLESCKEYK
 PLIIYNAIDSL TRIIRALAALRIDFHNPDRAYDAVQLFALTGPAESKGEITPELLGVMRRLWADPGAQAC
 FRSSEYHLEDNAAYYLNDLERIAAADYIPTVEDILRSRDMTTGIVENKFTFKELTFKMVDVGGQRSERK
 KWIHC FEGVTAIIFCVELSGYDLKLYEDNQTSRMAESLRLFDSICNNWFINTSLILFLNKKDLLAEKIR
 RIPLTICFPEYKQNTYEEAAVYIQRQFEDLNRNKETKEIYSHFTCATDTSNIQFVFDVAVTDVIIQNLLK
 YIGLC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002073

ORF Size: 1065 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_002073.2](#), [NP_002064.1](#)

RefSeq Size: 3225 bp

RefSeq ORF: 1068 bp

Locus ID: 2781

UniProt ID: [P19086](#)

Cytogenetics: 22q11.22-q11.23

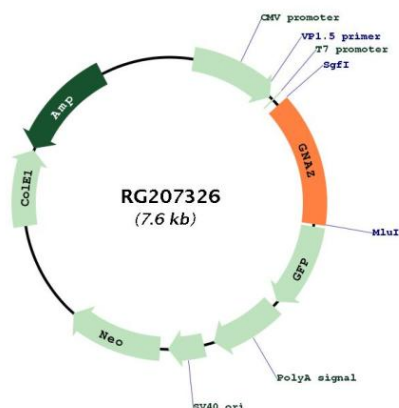
Domains: G-alpha

Protein Families: Druggable Genome

Protein Pathways: Long-term depression

Gene Summary: The protein encoded by this gene is a member of a G protein subfamily that mediates signal transduction in pertussis toxin-insensitive systems. This encoded protein may play a role in maintaining the ionic balance of perilymphatic and endolymphatic cochlear fluids. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207326