

Product datasheet for **RG221246**

GNAT1 (NM_144499) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GNAT1 (NM_144499) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GNAT1 |
| Synonyms: | CSNB1G; CSNBAD3; GBT1; GNATR |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG221246 representing NM_144499 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCTGGGGCCAGTGCTGAGGAGAAGCACTCCAGGGAGCTGGAAAAGAAGCTGAAAGAGGACGCTG
AGAAGGATGCTCGAACCGTGAAGCTGCTGCTTCTGGGTGCCGGTGAAGTCCGGGAAGAGCACCATCGTCAA
GCAGATGAAGATTATCCACCAGGACGGTACTCGCTGGAAGAGTGCCTCGAGTTTATCGCCATCATCTAC
GGCAACACGTTGCAGTCCATCCTGGCCATCGTACGCGCCATGACCACACTCAACATCCAGTACGGAGACT
CTGCACGCCAGGACGACGCCGGAAGCTGATGCACATGGCAGACACTATCGAGGAGGGCAGGATGCCCAA
GGAGATGTCGGACATCATCCAGCGGCTGTGGAAGGACTCCGGTATCCAGGCCTGTTTTGAGCGCGCCTCG
GAGTACCAGCTCAACGACTCGGGGGCTACTACCTCTCCGACCTGGAGCGCCTGGTAACCCCGGGTACG
TGCCACCCGAGCAGGACGTGCTGCGCTCGCGAGTCAAGACCCTGGCATCATCGAGACGAGTTCTCCTT
CAAGGATCTCAACTTCCGGATGTTTCGATGTGGCGGGCAGCGCTCGGAGCGCAAGAAGTGGATCCACTGC
TTCGAGGGCGTGACCTGCATCATCTTATCGCGGCGCTGAGCGCTACGACATGGTGCTAGTGGAGGACG
ACGAAGTGAACCGCATGCACGAGAGCCTGCACCTGTTCAACAGCATCTGCAACCACCGCTACTTCGCCAC
GACGTCATCGTGCTCTTCCTTAACAAGAAGGACGTCTTCTTCGAGAAGATCAAGAAGGGCGCACCTCAGC
ATCTGTTCCCGGACTACGATGGACCAACACCTACGAGGACCGGCAACTACATCAAGGTGCAGTTCC
TCGAGCTCAACATGCGGGCGGACGTGAAGGAGATCTATCCACATGACGTGCGCCACCGACAGCAGAA
CGTCAAATTTGTCTTCGACGCTGTCACCGACATCATCAAGGAGAACCCTCAAAGACTGTGCCTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221246 representing NM_144499
 Red=Cloning site Green=Tags(s)

MGAGASAEKHSRELEKCLKEDAEDARTVKLLLLGAGESGKSTIVKQMKIIHQDYSLEECLEFIAIYY
 GNTLQSI LAIVRAMTTLNIQYGD SARQDDARKLMHMADTIEEGTMPKEMSDIIQRLWKDSGIQACFERAS
 EYQLNDSAGYYLSDLERLVTGPYVTEQDVLRSRVKTTGIIETQFSFKDLNFRMFDVGGQSRERKKWIHC
 FEGVTCIIFIAALSAYDMVLVEDDEVNRMHESLHLFNSICNHRYPATTSIVLFLNKKDVF FEKIKKAHLS
 ICFPDYDGPNTYEDAGNYIKVQFLELNMRDVK E IYSHMTCATD TQNVKVFVDAVTDII IKENLKDCGLF

TRTRPLE - GFP Tag - V

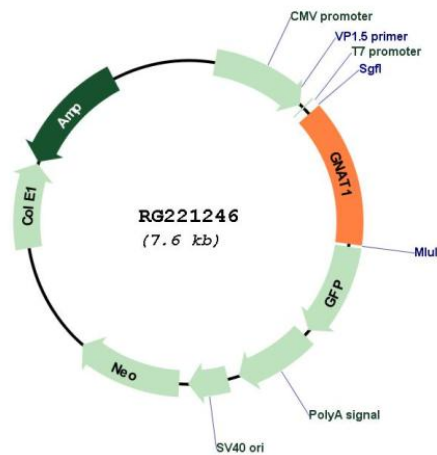
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_144499

ORF Size: 1050 bp

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| 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: | <ol style="list-style-type: none">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_144499.3 |
| RefSeq Size: | 2419 bp |
| RefSeq ORF: | 1053 bp |
| Locus ID: | 2779 |
| UniProt ID: | P11488 |
| Cytogenetics: | 3p21.31 |
| Protein Families: | Druggable Genome |
| Gene Summary: | Transducin is a 3-subunit guanine nucleotide-binding protein (G protein) which stimulates the coupling of rhodopsin and cGMP-phosphodiesterase during visual impulses. The transducin alpha subunits in rods and cones are encoded by separate genes. This gene encodes the alpha subunit in rods. This gene is also expressed in other cells, and has been implicated in bitter taste transduction in rat taste cells. Mutations in this gene result in autosomal dominant congenital stationary night blindness. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Feb 2009] |