

## Product datasheet for **RG200685**

### GNAT2 (NM\_005272) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNAT2 (NM_005272) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNAT2
Synonyms:	ACHM4; GNATC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200685 representing NM_005272 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAAGTGGAGCCAGTCTGAGGACAAAGAAGTGGCCAAGAGGTCCAAGGAGCTAGAAAAGAAGCTGC  
AGGAGGATGCTGATAAGGAAGCCAAGACTGTCAAGCTGCTACTGCTGGGTGCTGGGGAGTCAGGAAAGAG  
CACCATCGTCAACAGATGAAGATCATTACCAGGATGGCTATTCACCAGAAGAATGCCTGGAGTTCAG  
GCTATCATCTATGAAAATGTGCTGCAGTCCATCCTGGCTATCATCCGGGCCATGACCACACTGGGCATCG  
ATTATGCTGAACCAAGCTGTGCGGATGACGGGCGACAGCTCAACAACCTGGCTGACTCCATTGAGGAGGG  
AACCATGCCTCCTGAGCTCGTGGAGTCAATAGGAGGTTGTGGAAGGATGGTGGGGTCAAGCCTGCCTC  
GAGAGAGCTGCAGAATACCAGCTTAATGACTCCGCATCTTACTACCTGAACCAATTAGAACGAATTACAG  
ACCCTGAGTACCTCCCTAGTGAGCAAGATGTGCTCCGATCCAGAGTCAAAACCACAGGCATCATTGAAAC  
CAAGTTTTCCGTCAAAGACTTGAATTTCCAGGATGTTTGTATGTGGGAGGGCAGAGATCCGAGAGAAAGAA  
TGGATCCACTGCTTCGAGGGAGTCACCTGCATCATTTCTGTGCAGCCCTCAGTGCTATGATATGGTGC  
TGGTGAAGATGACGAAGTGAATCGATGCATGAGTCTTGTCACTGTTCACAGCATATGTAACCACAA  
ATCTTTGCGGCTACTTCCATTGTCCTTTCTCAACAAGAAGGACCTCTTTGAGGAAAAATCAAGAAA  
GTCCATCTCAGCATTTGTTTTCCAGAGTATGATGGTAACAACCTCCTATGATGATGCGGGGAATTACATA  
AGAGCCAGTTCCTTGACCTCAATATGCGAAAAGATGTCAAAGAAATCTACAGTCACATGACCTGTGCTAC  
AGATACACAGAATGTCAAATTTGTGTTTGTATGCAGTTACAGATATTATCATCAAAGAAAACCTCAAGGAC  
TGCGGCCTCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200685 representing NM\_005272  
Red=Cloning site Green=Tags(s)

MGSGASAEKELAKRSKELEKQLQEDADKEAKTVKLLLLGAGESGKSTIVKQMKIIHQDGYSPPECLEFK  
 AIIYGNVLQSILAIIRAMTTLGIDYAEPSCADDGRQLNNLADSIIEEGTMPPELVEVIRRLWKDGGVQACF  
 ERAAEYQLNDSASYLNQLERITDPEYLPSEQDVLRSRVKTTGIETKFSVKDLNFRMFVGGQRSERKK  
 WIHCFEGVTCIIFCAALSAYDMVLVEDDEVNRMHESLHLFNSICNHKFFAATSIVLFLNKKDLFEKIKK  
 VHL.SICFPEYDGNNSYDDAGNYIKSQFLDLNMRKDVKEIYSHMTCATDTQNVKVFVDAVTDIIKENLKD  
 CGLF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005272

**ORF Size:** 1062 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\\_005272.1](#)

**RefSeq Size:** 1516 bp

**RefSeq ORF:** 1065 bp

**Locus ID:** 2780

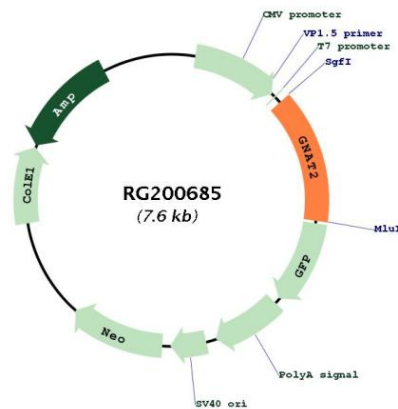
**UniProt ID:** [P19087](#)

**Cytogenetics:** 1p13.3

**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 cones. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG200685