

Product datasheet for **RG224201**

GNAT3 (NM_001102386) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNAT3 (NM_001102386) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNAT3
Synonyms:	GDCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224201 representing NM_001102386 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAGTGAATTAGTTCAGAGAGCAAGGAGTCAGCCAAAAGATCAAAGAAGCTGGAGAAAAAGCTTC
AGGAGGATGCTGAGCGAGATGCAAGAACCGTAAAGCTGCTACTATTAGGAGCAGGAGAATCTGGGAAAAG
TACTATTGTTAAACAAATGAAGATCATCCATAAGAATGGTTACAGTGAGCAAGAATGCATGGAGTTCAAA
GCAGTAATTTACAGTAATACATTGCAATCCATCCTAGCTATTGTGAAAGCCATGACTACCCTTGAATTG
ATTATGTAATCCAGAAGTGCAGAGGACCAACGACAACCTTTATGCAATGGCAAATACCCTGGAAGATGG
TGGCATGACACCTCAACTGGCTGAGGTAATAAAACGGCTGTGGAGAGATCCAGGAATTCAGGCCTGCTTT
GAAAGGGCATCTGAATATCAGCTCAATGACTCAGCAGCTTACTACCTTAATGATTAGATAGAATAACAG
CATCTGGGTATGTGCCAAATGAACAAGATGTTCTCCATTCTCGAGTGAAAACGACTGGAATCATTGAAAC
TCAATTCTCCTTTAAAGACTTGCACCTCAGGATGTTTGTAGTGTAGGTGGACAGAGATCTGAGAGAAAGAA
TGGATTCAGTCTTTGAAGGAGTTACATGCATTATTTTTGTGCTGCACTTAGTGCTATGACATGGTCC
TCGTGGAAGACGAAGAAGTGAATAGAATGCATGAAAGCCTCACCTGTCAACAGTATCTGTAATCACAA
GTATTTTTCAACAACCTCCATTGCTCTTCTCAACAAAAAAGATATCTTTCAAGAAAAGGTAACCAAG
GTGCATCTTAGTATCTGCTTTCCAGAATACACTGGGCCAAATACATTTGAAGATGCAGGAAACTACATCA
AGAACCAGTTTCTAGACCTGAATTTAAAAAAGAAGATAAGGAAATTTATTCCCACATGACCTGTGCTAC
TGACACCCAAAATGTCAAGTTTGTGTTGACGCAGTTACAGATATAATAATCAAAGAGAATCTAAAAGAC
TGTGGGCTTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224201 representing NM_001102386
Red=Cloning site Green=Tags(s)

MGSGISSESKESAKRSKELEKLLQEDAERDARTVKLLLLGAGESGKSTIVKQMKIIHKNGYSEQECMEFK
 AVIYSNTLQSILAIVKAMTTLGIDYVNPRSAEDQRQLYAMANTLEDGGMTPQLAEVIKRLWRDPGIQACF
 ERASEYQLNDSAAYYLNDLDRITASGYVPNEQDVLHSRVKTTGIIETQFSFKDLHFRMFVGGQRSERKK
 WIHCFEGVTCIIFCAALSAYDMVLVEDEEVNRMHESLHLFNSICNHKYFSTTSIVLFLNKKDIFQEKVTK
 VHLSICFPEYTGPNTEFEDAGNYIKNQFLDLNLKKEDKEIYSHMTCATDTQNVKVFVDAVTDIIKENLKD
 CGLF

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1905_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001102386

ORF Size: 1062 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: [NM_001102386.3](#)

RefSeq Size: 1065 bp

RefSeq ORF: 1065 bp

Locus ID: 346562

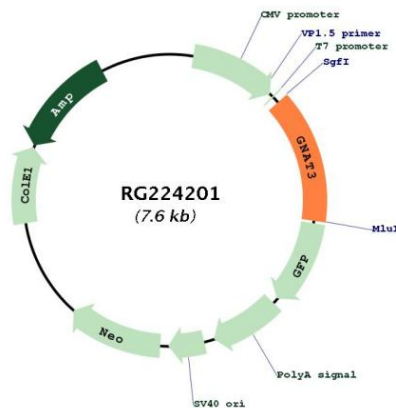
UniProt ID: [A8MTJ3](#)

Cytogenetics: 7q21.11

Protein Pathways: Taste transduction

Gene Summary: Sweet, bitter, and umami tastes are transmitted from taste receptors by a specific guanine nucleotide binding protein. The protein encoded by this gene is the alpha subunit of this heterotrimeric G protein, which is found not only in the oral epithelium but also in gut tissues. Variations in this gene have been linked to metabolic syndrome. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG224201