

## Product datasheet for **MG205399**

### Gnat2 (NM\_008141) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gnat2 (NM\_008141) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gnat2  
**Synonyms:** AW490837; Gnat-2; Gt-2; Tcalpha  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205399 representing NM\_008141  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGAGTGGCATCAGTGCTGAGGACAAAGAAGCTTCCAGGAGGTCCAAGGAGCTGGAGAAGAAGCTGC  
 AGGAGGATGCTGACAAGGAAGCCAAGACTGTCAAGCTGCTGTTGCTCGGTGCGGGCGAGTCAGGGAAGAG  
 CACTATCGTCAACAGATGAAGATCATTACCAGGATGGCTACTACCCGAAGAGTGCCTAGAGTTCAAG  
 TCTGTCATCTATGGGAACGTGCTGCAGTCCATCCTGGCCATCATCAGAGCCATGTCCACACTAGGCATTG  
 ACTATGCAGAGCCAAGCTGTGCGGATGCCGGGAGACAGCTCAACAACCTGGCTGACTCCACCGAGGAGGG  
 GACCATGCCTCCTGAGTTGGTGGACGTATCAGGAAGTTGTGGAAGGACGGTGGAGTTCAAGCCTGCTTT  
 GACAGAGCTGCAGAGTTCAGCTCAATGACTCGGCATCTTACTACCTGAACCAGCTGGACCGGATTACAG  
 ACCCTAACTACCTCCCTAACGAGCAGGACGTGCTTCGATCCAGAGTCAAGACAACAGGCATCATCGAGAC  
 CAAGTTTTCTGTTAAAGATTTGAATTTCAAGATGTTTGTGTGGGAGGGCAGAGATCAGAGAGGAAGAAA  
 TGGATCCACTGCTTCGAGGGAGTCACCTGCATCATTTTCTGTGCGGCCCTCAGTGCCTACGACATGGTGC  
 TGGTGGAGGATGACGAAGTGAATCGCATGCACGAGTCTTTCATCTGTTCACAGCATCTGCAACCACAA  
 GTTCTTTGCGGCTACGTCCATCGTTCTCTTTCTCAACAAGAAGGACCTCTTTGAGGAAAAAATTAAGAAA  
 GTCCACCTCAGTATCTGTTTTCCGGAGTATGACGGAAACAACCTCCTATGAGGATGCCGGGAATTATATCA  
 AGAGTCAGTTCCTTGACCTCAACATGAGGAAAGATGTCAAAGAAATCTACAGTCACATGACCTGTGCTAC  
 AGACACACAGAACGTCAAATTCGTGTTTCGATGCAGTTACAGACATCATCATCAAAGAAAACCTCAAGGAC  
 TGTGGGCTCTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205399 representing NM\_008141  
 Red=Cloning site Green=Tags(s)

```

MGSGIS AEDKELARRSKELEKLLQEDADKEAKTVKLLLLGAGESGKSTIVKQMKIIHQDGYSP EECLEFK
SVIYGNVLQSILAIIRAMSTLGDIDYAEPSCADAGRQLN LADSTEEGTMPP ELVDVIRKLWKDGGVQACF
DRAAEFQLNDSASYLNLQDRITDPNYLPNEQDVLRSRVKTTGI IETKFSVKDLNFRMFVDVGGQRSEK K
WIHCFEGVTCIIFCAALSAYDMVLVEDDEVNRMHESLHLFNSICNHKFFAATSIVLFLNKKDLFE EKIKK
VHLSICFPEYDGNNSYEDAGNYIKSQFLDLNMRKDVKEIYSHMTCATDTQNVKVFVDAVTDII IKENLKD
CGLF
  
```

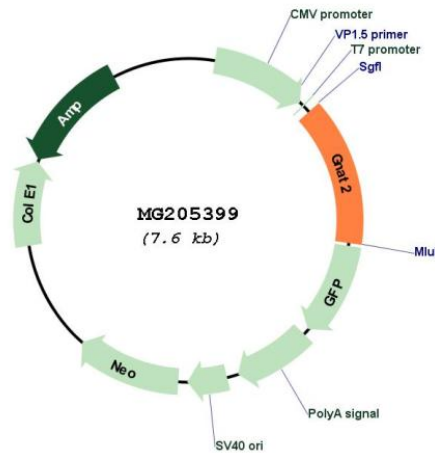
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_008141

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1062 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_008141.3</a>   |
| <b>RefSeq Size:</b>           | 1643 bp   |
| <b>RefSeq ORF:</b>            | 1065 bp   |
| <b>Locus ID:</b>              | 14686   |
| <b>UniProt ID:</b>            | <a href="#">P50149</a>  |
| <b>Cytogenetics:</b>          | 3 46.83 cM  |
| <b>Gene Summary:</b>          | Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Transducin is an amplifier and one of the transducers of a visual impulse that performs the coupling between rhodopsin and cGMP-phosphodiesterase.[UniProtKB/Swiss-Prot Function]  |