

## Product datasheet for MC203947

### Gnat2 (NM\_008141) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gnat2 (NM\_008141) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gnat2  
**Synonyms:** AW490837; Gnat-2; Gt-2; Tcalpha  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC016272  
GCTCGGGTAAGGAGTCTCAAGGCAAGATAGGAAAAATTTAAGAGCCAGAGGGAACGTCCCTTCTCAGAGG  
AGACAGCAGAAAATGGGGAGTGGCATCAGTCTGAGGACAAAGAAGCTTCCAGGAGGTCCAAGGAGCTGGA  
GAAGAAGCTGCAGGAGGATGCTGACAAGGAAGCCAAGACTGTCAAGCTGCTGTTGCTCGGTGCGGGCGAG  
TCAGGGAAGAGCACTATCGTCAAACAGATGAAGATCATTACCAGGATGGCTACTCACCCGAAGAGTGCC  
TAGAGTTCAAGTCTGTCTATGGGAACGTGCTGCAGTCCATCCTGGCCATCATCAGAGCCATGTCCAC  
ACTAGGCATTGACTATGCAGAGCCAAGCTGTGCGGATGCCGGGAGACAGCTCAACAACCTGGCTGACTCC  
ACCGAGGAGGGGACCATGCCTCTGAGTTGGTGGACGTGCATCAGGAAGTTGTGGAAGGACGGTGGAGTTC  
AAGCCTGCTTTGACAGAGCTGCAGAGTCCAGCTCAATGACTCGGCATCTTACTACCTGAACCAGCTGGA  
CCGGATTACAGACCCTAACTACCTCCCTAACGAGCAGGACGTGCTTCGATCCAGAGTCAAGACAACAGGC  
ATCATCGAGACCAAGTTTTCTGTTAAAGATTTGAATTTCCAGGATGTTTGATGTGGGAGGGCAGAGATCAG  
AGAGGAAGAAAATGGATCCACTGCTTCGAGGGAGTCACTGCATCATTTTTCTGTGCGGCCCTCAGTGCCTA  
CGACATGGTGCTGGTGGAGGATGACGAAGTGAATCGCATGCACGAGTCTTTGCATCTGTTCAACAGCATC  
TGCAACCACAAGTTCTTTGCGGCTACGTCCATCGTTCTTTCTCAACAAGAAGGACCTCTTTGAGGAAA  
AAATTAAGAAAAGTCCACCTCAGTATCTGTTTTCCGGAGTATGACGGAAACAACCTCTATGAGGATGCCGG  
GAATTATATCAAGAGTCAAGTTCCTTGACCTCAACATGAGGAAAGATGTCAAAGAAATCTACAGTCACATG  
ACCTGTGCTACAGACACACAGAAGCTCAAATTCGTGTTTCGATGCAGTTACAGACATCATCAAAGAAA  
ACCTCAAGGACTGTGGGCTCTTTAATGCTCAGTTCCTCGAATATACATTCTATAAGCAAGCTTAGAATC  
TGAGGCTTCATGCAGAAAATAGTTCGCATGTACCAGAATGTGTCAAATCAGCCCATCCTGTTGGTGAT  
GAGAAGGCATGCTCAGGACTGTTAGCAGTGTGGCCAGTTCACTGTAACGAAGGCATGGCCAGCGACCCCTA  
ACGCCCCAGGTTCCAAGGCTGTTCTGTTTGTAGTATAAGAACAGAAAAGCTTCATTTCTCCGATGCAGAAGT  
CCCAGTCTGTATGATGAAGGTAACCTCCCTGCCTACTTACAGGGTCACTCTGAAGAGCAGACAGCTAAC  
TGAAGGGGAGGCCAGGGTAGCTGGCTGCTGTGGTTGGCCACAGAAAGCGGCCATGACAGCTGCCTGATG  
GACTACCATACTTGTTATTAGAAGAAACCACCCCAAAGCCTAACAGCAAGCCTTCTTACGTTGAGCGA  
TAAAGTATTAATAAATTAATAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI



[View online »](#)

<b>ACCN:</b>	NM_008141
<b>Insert Size:</b>	1065 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">BC016272</a> , <a href="#">AAH16272</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]