

## Product datasheet for **MC225508**

### Gngt2 (NM\_001284397) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gngt2 (NM\_001284397) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gngt2  
**Synonyms:** AV096488  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225508 representing NM\_001284397  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATG**CCCCAGGACCTCAGTGAGAAGGAGCTGTTGAGGATGGAGGTGGAGCAGCTGAAGAAGGAAGTGAAGA  
ACCCACGTGATCTGATTTCCAAGACAGGAAAGGAAATCAAGGATTATGTAGAGGCCCAAGCAGGGACAGA  
CCCTCTTCTCAAAGGCATCCCAGAAGACAAGAATCCCTTCAAGGAGAAAGGCACCTGTGTGCTAAGCT**G**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001284397  
**Insert Size:** 210 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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).



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**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\\_001284397.1](#), [NP\\_001271326.1](#)

**RefSeq Size:** 587 bp

**RefSeq ORF:** 210 bp

**Locus ID:** 14710

**UniProt ID:** [Q61017](#)

**Cytogenetics:** 11 59.01 cM

**Gene Summary:** Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (4) has an alternate 5' UTR exon and also lacks an internal segment in the 5' UTR, compared to variant 3. variant 3. Variants 1, 2, 3 and 4 encode the same protein.