

## Product datasheet for **MG219701**

### Gng12 (NM\_001177560) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gng12 (NM\_001177560) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gng12  
**Synonyms:** 2010305F15Rik; AA536815; AI115529; AI314170; AI842738  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219701 representing NM\_001177560  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCAGCAAGACGGCAAGCACCAACAGCATAGCCCAAGCCAGGAGAACTGTCAGCAGCTGAGATTGG  
AAGCCTCCATCGAAAGAATAAAGGTCTCAAAGCATCAGCAGACCTGATGTCATACTGTGAGGAGCATGC  
CCGGAGCGACCCCTGCTGATGGGCATACCGACCTCAGAAAACCCGTTCAAGGATAAGAAGACCTGCATC  
ATCTTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219701 representing NM\_001177560  
Red=Cloning site Green=Tags(s)  
MSSKTASTNSIAQARRTVQQLRLEASIERIKVSKASADLMSYCEEHARSDPLLMGIPTSENPFKDKKTCI  
IL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<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_001177560.1</a> , <a href="#">NP_001171031.1</a>
<b>RefSeq Size:</b>	4264 bp
<b>RefSeq ORF:</b>	219 bp
<b>Locus ID:</b>	14701
<b>UniProt ID:</b>	<a href="#">Q9DAS9</a>
<b>Cytogenetics:</b>	6 30.68 cM
<b>Gene Summary:</b>	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]