

## Product datasheet for **MR219697**

### Gng12 (NM\_001177556) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gng12 (NM\_001177556) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gng12  
**Synonyms:** 2010305F15Rik; AA536815; AI115529; AI314170; AI842738  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR219697 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCAGCAAGACGGCAAGCACCAACAGCATAGCCCAAGCCAGGAGAACTGTGCAGCAGCTGAGATTGG  
AAGCCTCCATCGAAAGAATAAAGGTCTCAAAGCATCAGCAGACCTGATGTCATACTGTGAGGAGCATGC  
CCGGAGCGACCCCTGCTGATGGGCATACCGACCTCAGAAAACCCGTTCAAGGATAAGAAGACCTGCATC  
ATCTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR219697 protein sequence  
Red=Cloning site Green=Tags(s)  
MSSKTASTNSIAQARRTVQQLRLEASIERIKVSKASADLMSYCEEHARSDPLLMGIPTSENPFKDKKTCI  
IL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**



**ACCN:** NM\_001177556

**ORF Size:** 219 bp

**OTI Disclaimer:** 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\\_001177556.1](#), [NP\\_001171027.1](#)

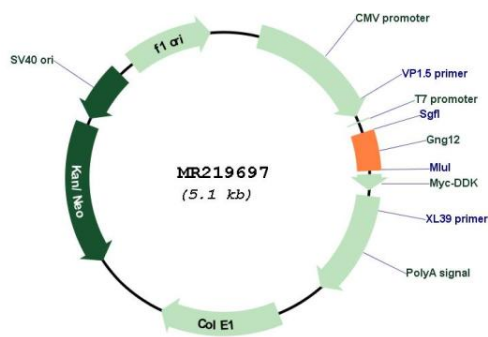
**RefSeq Size:** 4194 bp

**RefSeq ORF:** 219 bp

**Locus ID:** 14701  
**UniProt ID:** [Q9DAS9](#)  
**Cytogenetics:** 6 30.68 cM  
**MW:** 8 kDa

**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]

**Product images:**



Circular map for MR219697