

## Product datasheet for **RC209299**

### **GNG2 (NM\_053064) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: GNG2 (NM\_053064) Human Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: GNG2  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >RC209299 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGCAACAACACCGCCAGCATAGCACAAGCCAGGAAGCTGGTAGAGCAGCTTAAGATGGAAGCCA  
ATATCGACAGGATAAAGGTGTCCAAGGCAGCTGCAGATTTGATGGCCTACTGTGAAGCACATGCCAAGGA  
AGACCCCTCTGACCCCTGTTCCGGCTTCAGAAAACCCGTTTAGGGAGAAGAAGTTTTTCTGTGCCATC  
CTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209299 protein sequence  
Red=Cloning site Green=Tags(s)

MASNNTASIAQARKLVEQLKMEANIDRIKVSAAAADLMAYCEAHAKEDPLLTPVPAENPFREKKFFCAI  
L

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6126\\_c03.zip](https://cdn.origene.com/chromatograms/mk6126_c03.zip)

Restriction Sites: SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_053064

**ORF Size:** 213 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_053064.5](#)

**RefSeq Size:** 3903 bp

**RefSeq ORF:** 216 bp

**Locus ID:** 54331

**UniProt ID:** [P59768](#)

**Cytogenetics:** 14q22.1

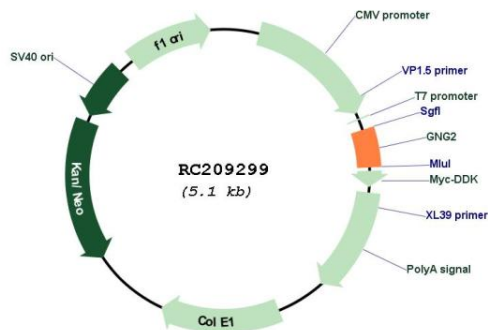
**Protein Families:** Druggable Genome

**Protein Pathways:** Chemokine signaling pathway

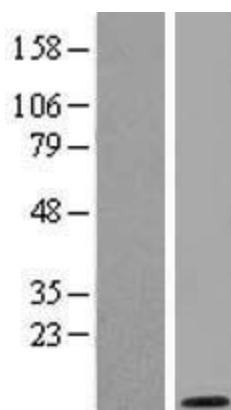
**MW:** 7.9 kDa

**Gene Summary:** This gene encodes one of the gamma subunits of a guanine nucleotide-binding protein. Such proteins are involved in signaling mechanisms across membranes. Various subunits forms heterodimers which then interact with the different signal molecules. [provided by RefSeq, Aug 2011]

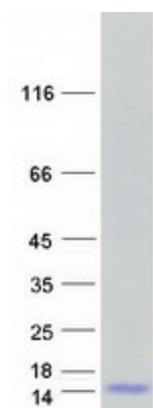
## Product images:



Circular map for RC209299



Western blot validation of overexpression lysate (Cat# [LY403285]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209299 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GNG2 protein (Cat# [TP309299]). The protein was produced from HEK293T cells transfected with GNG2 cDNA clone (Cat# RC209299) using MegaTran 2.0 (Cat# [TT210002]).