

## Product datasheet for **SC305721**

### GNG2 (NM\_053064) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNG2 (NM_053064) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene ORF sequence for NM_053064 edited</p> <p>ATGGCCAGCAACAACACCGCCAGCATAGCACAAGCCAGGAAGCTGGTAGAGCAGCTTAAG  ATGGAAGCCAATATCGACAGGATAAAGGTGTCCAAGGCAGCTGCAGATTTGATGGCCTAC  TGTGAAGCACATGCCAAGGAAGACCCCTCCTGACCCCTGTTCCGGCTTCAGAAAACCCG  TTTAGGGAGAAGAAGTTTTCTGTGCCATCCTTTAA</p>
5' Read Nucleotide Sequence:	<p>&gt;OriGene 5' read for NM_053064 unedited</p> <p>TTAGGAACTGAAGAGTGTCTGAAAGATCTATCCAGCACTCCGATGGCCAGCAACAACA  CCGCCAGCATAGCACAAGCCAGGAAGCTGGTAGAGCAGCTTAAGATGGAAGCCAATATCG  ACAGGATAAAGGTGTCCAAGGCAGCTGCAGATTTGATGGCCTACTGTGAAGCACATGCCA  AGGAAGACCCCTCCTGACCCCTGTTCCGGCTTCAGAAAACCCGTTTAGGGAGAAGAAGT  TTTTCTGTGCCATCCTTTAAGTCTTTGAGAGGGGCCTGAAGAGCCTCCGGGCTCCTGGGA  CATTGATGTAGAGTTTTAGTGAAGTGGGCACCTTTCTAGTCCACGGCATTGGAAGAGAG  CGAGGAGAACCATTCTGGAAGCTCTAGGCTATGCATGTTTAAAGATCTGGTCCCCCTTTAT  GAGAATGCAAGCCGATCCACATCCTGACTTAAGAGATCTGATTCTGACGAACTGCCTGGA  GGAGGGGAATATATAAAATAAAATTGGTGTCACTTCTTTCTGCTATCCCCAGCCCC  CCCCAAAATCCTCATGTTTCTGCTTCATATTTGAAAAATAACAATTAACAGACAGC  TGTAAGGTAAGATATGTGTGACCTTCTGGATGAATATTGTCTTTAGAATACCTTTT  GATAGCTGAGCTGTCCCGTGAATGCANTNCNNGTTAATGCATTGAGTATAGNCACTGTG  CTTTCTTTTTTTNTNCTTTNNCTTACCCTNCTTCCACCCTCCATANAGTATGTGAGAT  AAGCTGGACTGTCTATCAGATGACTCCAGAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_053064
Insert Size:	3000 bp



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<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_053064.2</a> , <a href="#">NP_444292.1</a>
<b>RefSeq Size:</b>	3460 bp
<b>RefSeq ORF:</b>	216 bp
<b>Locus ID:</b>	54331
<b>UniProt ID:</b>	<a href="#">P59768</a>
<b>Cytogenetics:</b>	14q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Chemokine signaling pathway

**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]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.