

Product datasheet for **SC309302**

GNG7 (NM_052847) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNG7 (NM_052847) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNG7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_052847, the custom clone sequence may differ by one or more nucleotides

[ATGTCAGCCACTAACACATAGCCCAGGCCCGGAAGCTGGTGGAACAGCTACGCATAGAAGCCGGGATTG
AGCGCATCAAGGTCTCCAAAGCGGCGTCTGACCTCATGAGCTACTGTGAGCAACATGCCCGGAACGACCC
CCTGCTGGTCGGAGTCCCTGCCTCGGAGAACCCTTTAAGGACAAGAACCTTGTATTATTTTATAA](#)

Restriction Sites:	Please inquire
ACCN:	NM_052847
Insert Size:	1000 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_052847.1](#), [NP_443079.1](#)

RefSeq Size: 4175 bp

RefSeq ORF: 207 bp

Locus ID: 2788

UniProt ID: [O60262](#)

Cytogenetics: 19p13.3

Protein Families: Druggable Genome

Protein Pathways: Chemokine signaling pathway

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. Plays a role in the regulation of adenylyl cyclase signaling in certain regions of the brain. Plays a role in the formation or stabilization of a G protein heterotrimer (G(olf) subunit alpha-beta-gamma-7) that is required for adenylyl cyclase activity in the striatum (By similarity). [UniProtKB/Swiss-Prot Function]