

# Product datasheet for RC208768

### GNG7 (NM\_052847) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	GNG7 (NM_052847) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GNG7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC208768 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCAGCCACTAACAACATAGCCCAGGCCCGGAAGCTGGTGGAACAGCTACGCATAGAAGCCGGGATTG AGCGCATCAAGGTCTCCAAAGCGGCGTCTGACCTCATGAGCTACTGTGAGCAACATGCCCGGAACGACCC CCTGCTGGTCGGAGTCCCTGCCTCGGAGAACCCCCTTTAAGGACAAGAAACCTTGTATTATTTTA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC208768 protein sequence <mark>Red=</mark> Cloning site Green=Tags(s)
	MSATNNIAQARKLVEQLRIEAGIERIKVSKAASDLMSYCEQHARNDPLLVGVPASENPFKDKKPCIIL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6353_f05.zip
Restriction Sites:	Sgfl-Mlul



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#### **Cloning Scheme:**



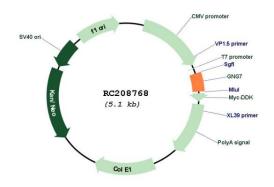
\* The last codon before the Stop codon of the ORF

ACCN:	NM_052847
ORF Size:	204 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. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

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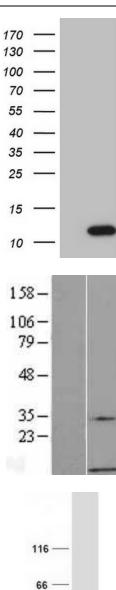
	IG7 (NM_052847) Human Tagged ORF Clone – RC208768
RefSeq:	<u>NM 052847.3</u>
RefSeq Size:	4264 bp
RefSeq ORF:	207 bp
Locus ID:	2788
UniProt ID:	<u>O60262</u>
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway
MW:	7.5 kDa
Gene Summary:	Guanine nucleotide-binding 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. Plays a role in the regulation of adenylyl cyclase signaling in certain regions of the brain. Plays a role in the formation or stabilzation 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]

## **Product images:**



Circular map for RC208768

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45

35 -25 -18 - HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GNG7 (Cat# RC208768, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GNG7 (1:2000) (Cat# [TA804188]). Positive lysates [LY409457] (100ug) and [LC409457] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY409457]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208768 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified GNG7 protein (Cat# [TP308768]). The protein was produced from HEK293T cells transfected with GNG7 cDNA clone (Cat# RC208768) using MegaTran 2.0 (Cat# [TT210002]).

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