

Product datasheet for **RC208768**

GNG7 (NM_052847) Human Tagged ORF Clone

Product data:

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: >RC208768 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGCCACTAACACATAGCCCAGGCCCGGAAGCTGGTGAACAGCTACGCATAGAAGCCGGGATTG
AGCGCATCAAGGTCTCAAAGCGGCGTCTGACCTCATGAGCTACTGTGAGCAACATGCCCGGAACGACCC
CCTGCTGGTCGGAGTCCCTGCCTCGGAGAACCCCTTAAGGACAAGAACCTTGATTATTTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208768 protein sequence
Red=Cloning site Green=Tags(s)

MSATNNTIAQARKLVEQLRIEAGIERIKVSKAASDLMSYCEQHARNDPLLVGVPASENPFKDKKPCIIIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6353_f05.zip

Restriction Sites: SgfI-MluI

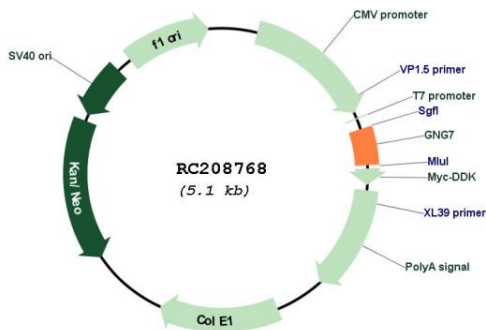


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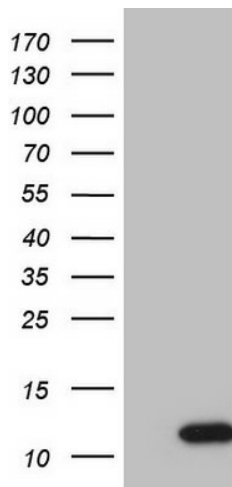
RefSeq: [NM_052847.3](#)
RefSeq Size: 4264 bp
RefSeq ORF: 207 bp
Locus ID: 2788
UniProt ID: [O60262](#)
Cytogenetics: 19p13.3
Protein Families: Druggable Genome
Protein Pathways: Chemokine signaling pathway
MW: 7.5 kDa

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 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]

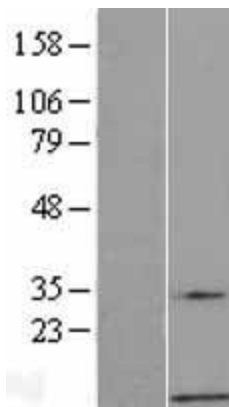
Product images:



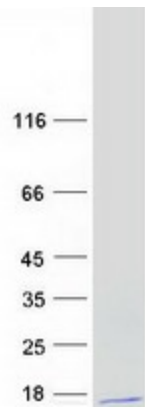
Circular map for RC208768



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]).