

Product datasheet for **RC210828**

GNG13 (NM_016541) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GNG13 (NM_016541) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GNG13
Synonyms: G(gamma)13; h2-35
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210828 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGTGGGACGTGCCACAGATGAAGAAAGAGGTGGAGAGCCTCAAGTACCAGCTGGCCTTCCAGC
GGGAGATGGCGTCCAAGACCATCCCCGAGCTGCTGAAGTGGATCGAGGACGGGATCCCCAAGGACCCCTT
CCTGAACCCCGACCTGATGAAGAACAACCCATGGGTGGAAAGGGCAAATGCACCATCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210828 protein sequence
Red=Cloning site Green=Tags(s)

MEEWDVPQMKKEVESLKYQLAFQREMASKTIPELLKWIEDGIPKDPFLNPDLMKNNPWVEKGKCTIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6374_e01.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_016541

ORF Size: 201 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. [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.

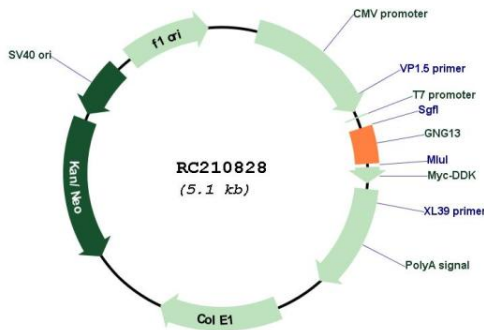
RefSeq: [NM_016541.3](#)

RefSeq Size: 1001 bp

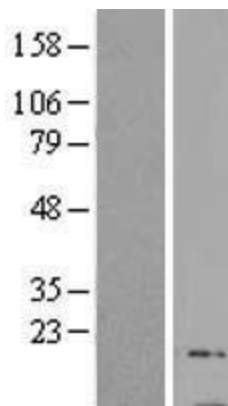
RefSeq ORF: 204 bp

Locus ID: 51764
UniProt ID: [Q9P2W3](#)
Cytogenetics: 16p13.3
Protein Families: Druggable Genome
Protein Pathways: Chemokine signaling pathway, Taste transduction
MW: 7.9 kDa
Gene Summary: Heterotrimeric G proteins, which consist of alpha (see MIM 139320), beta (see MIM 139380), and gamma subunits, function as signal transducers for the 7-transmembrane-helix G protein-coupled receptors. GNG13 is a gamma subunit that is expressed in taste, retinal, and neuronal tissues and plays a key role in taste transduction (Li et al., 2006 [PubMed 16473877]).[supplied by OMIM, Oct 2009]

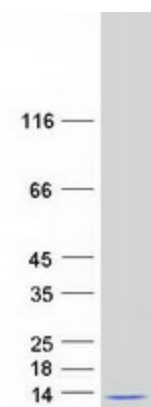
Product images:



Circular map for RC210828



Western blot validation of overexpression lysate (Cat# [LY413914]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210828 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GNG13 protein (Cat# [TP310828]). The protein was produced from HEK293T cells transfected with GNG13 cDNA clone (Cat# RC210828) using MegaTran 2.0 (Cat# [TT210002]).