

Product datasheet for **RC203892**

GNGT2 (NM_031498) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GNGT2 (NM_031498) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GNGT2
Synonyms: G-GAMMA-8; G-GAMMA-C; GNG9; GNGT8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203892 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

**ATGGCCCAGGATCTCAGCGAGAAGGACCTGTTGAAGATGGAGGTGGAGCAGCTGAAGAAAGAAGTGAAAA
ACACAAGAATTCGATTTCAAAGCGGGAAAGGAAATCAAGGAGTACGTGGAGGCCCAAGCAGGAAACGA
TCCTTTTCTCAAAGGCATCCCTGAGGACAAGAATCCCTTCAAGGAGAAAGGTGGCTGTCTGATAAGC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC203892 protein sequence
Red=Cloning site Green=Tags(s)

MAQDLSEKDLLKMEVEQLKKEVKNTRIPISKAGKEIKEYVEAQAGNDPFLKGIPEDKNPFKEKGGCLIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6302_h03.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_031498

ORF Size: 207 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.

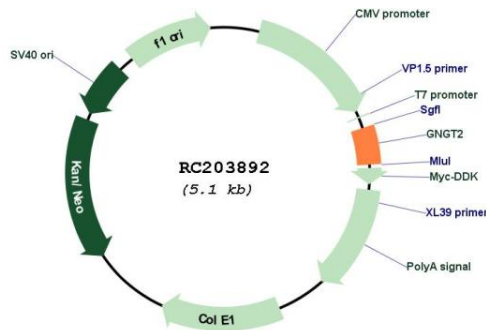
RefSeq: [NM_031498.2](#), [NP_113686.1](#)

RefSeq Size: 1057 bp

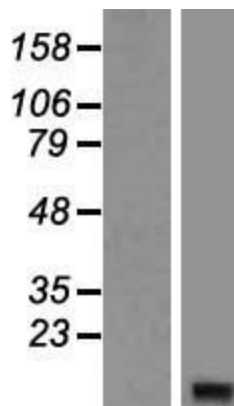
RefSeq ORF: 210 bp

Locus ID: 2793
UniProt ID: [O14610](#)
Cytogenetics: 17q21.32
Protein Families: Druggable Genome
Protein Pathways: Chemokine signaling pathway
MW: 7.7 kDa
Gene Summary: Phototransduction in rod and cone photoreceptors is regulated by groups of signaling proteins. The encoded protein is thought to play a crucial role in cone phototransduction. It belongs to the G protein gamma family and localized specifically in cones. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Nov 2010]

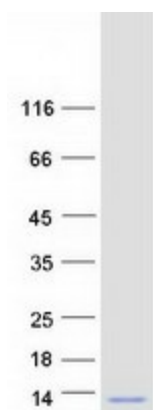
Product images:



Circular map for RC203892



Western blot validation of overexpression lysate (Cat# [LY410491]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203892 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GNGT2 protein (Cat# [TP303892]). The protein was produced from HEK293T cells transfected with GNGT2 cDNA clone (Cat# RC203892) using MegaTran 2.0 (Cat# [TT210002]).