

Product datasheet for **RC211607**

COG5 (NM_006348) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COG5 (NM_006348) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COG5
Synonyms:	CDG2I; GOLTC1; GTC90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC211607 representing NM_006348.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Protein Sequence: >Peptide sequence encoded by RC211607
Blue=ORF Red=Cloning site Green=Tag(s)

MGWVGGRRRDSASPPGRSRSAAADDINPAPANMEGGGGSVAVAGLGARGSGAAAATVRELLQDGCYSDFL
NEDFDVKTYTSQSIHQAVIAEQLAKLAQGISQLDRELHLQVVARHEDLLAQATGIESLEGVLQMMQTRI
GALQGAVDRIKAKIVEPYNKIVARTACLARLQVACDLLRRIIRILNLSKRLQGLQGGREITKAAQSL
NELDYLSTQIDLSGIEVIENDLLFIARARLEVENQAKRLEQGLETONPTQVGTALQVFYNLGTKDITI
TSVVDGYCATLEENINSALDIKVLTPSQSAVRGGPGRSTMPGNTAALRASLWTNMEKLMDSHIYAVC
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC211607 also available, [TP311607](#)

Chromatograms: https://cdn.origene.com/chromatograms/mk6596_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_006348

ORF Size: 2580 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 Size: 3604 bp

RefSeq ORF: 2490 bp

Locus ID: 10466

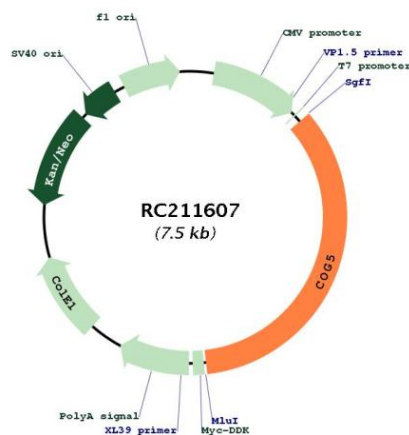
UniProt ID: [Q9UP83](#)

Cytogenetics: 7q22.3

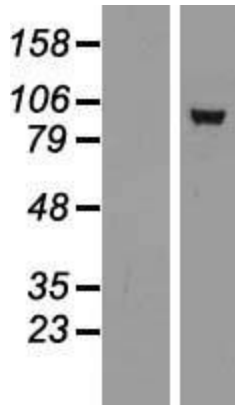
MW: 94.9 kDa

Gene Summary: The protein encoded by this gene is one of eight proteins (Cog1-8) which form a Golgi-localized complex (COG) required for normal Golgi morphology and function. The encoded protein is organized with conserved oligomeric Golgi complex components 6, 7 and 8 into a sub-complex referred to as lobe B. Alternative splicing results in multiple transcript variants. Mutations in this gene result in congenital disorder of glycosylation type 2I.[provided by RefSeq, Jan 2011]

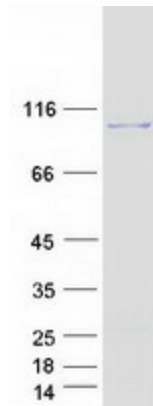
Product images:



Circular map for RC211607



Western blot validation of overexpression lysate (Cat# [LY416703]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211607 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COG5 protein (Cat# [TP311607]). The protein was produced from HEK293T cells transfected with COG5 cDNA clone (Cat# RC211607) using MegaTran 2.0 (Cat# [TT210002]).