

## Product datasheet for **RC221249**

### COG4 (NM\_015386) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | COG4 (NM_015386) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | COG4                                    |
| Synonyms:                 | CDG2J; COD1; SWILS                      |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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ORF Nucleotide  
Sequence:

>RC221249 representing NM\_015386  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGGGACCAAGATGGCGGACCTTGATTGCGCTCCGAAGCTGTACAGGGTGCAGCAGCCGTCTGAGGGG  
TGGGAGGTGGCCGCTGCTCCGAAATCTCCGCTGAGCTCATTGCTCCCTGACAGAGCTGCAGGAGCTGGA  
GGCTGTATACGAACGGCTCTGCGCGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGAACAG  
CAAAACACCATTGAAAGTAAAGTGGTCACTCTCCACCGAATGGGTCTAATCTGCAGCTGATTGAGGGAG  
ATGCAAAGCAGCTGGCTGGAATGATCACCTTACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCC  
TCAGCTTGACCTGGCCAAGAACCCTCTATCAGGCCATTCAGAGAGCTGATGACATCTTGGACCTGAAG  
TTCTGCATGGATGGAGTTCAGACTGCTTTGAGGAGTGAAGATTATGAGCAGGCTGCAGCACATACTCATC  
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CAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTGGCAGAGAAGTTTGCCATTGCC  
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GGTGTGGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTGAGATACACTTACTCTTCTGTTT  
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ATACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGTGGTAGACAAGTTCATCAA  
GCAAAGGGACTACCACAGCAGTTCGGCATGTTCAGAACAACCTGATGAGAAATTTACAACAGAAAAA  
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TACGCTTCTCAAGAAGAGGATTAGCTCTGATTTTGGAGTGGGAGACTCCATGGCCTCAGAGGAGTAAA  
GCAAGAGCACCAAGTGTCTGGACAACTCTCAATAACTGCCTTTTGGAGCTGTACCATGCAGGAGCTA  
ATTGGCTTATATGTTACCATGGAGGAGTACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACA  
CCTATGAGAAGGGCCAGCTGACATCCAGCATGGTGGATGATGTCTTCTACATTGTTAAGAAGTGCATTGG  
GCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTCTGTGCCATGATCAACCTCGCCACCACAGAGCTGGAG  
TCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATGGGCTTCTGCCACCACCTTCCAGGACATCC  
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CATCGAGAGTACTGACGAGGCGAAGATGTCCTTCTGGTACTCTGAACAACGTGGAAGTCTGCAGTGAA  
AACATCTCCACTCTGAAGAAGACTGGAGAGTACTGCACCAAGCTCTCAGCCAGGGCATTGGAGGGG  
AGCAGGCCAGGCAAGTTTACAGCTGCCTTTCTGACTTGGCCGCCGTGTCACAAATTTCCGAGACCT  
CTTGACAGGAAGGGCTGACGGAGCTCAACAGCACAGCCATCAAGCCACAGGTGCAGCTTGGATCAACAGC  
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CAGCCTAACCGGCTCATGACTAGCCTTGTGCGTGGAGTGGAGAAAGTGGTGTGAAATCCACCTTT  
AACCGGCTGGGTGGTCTGCAGTTTGACAAGGAGCTGAGGTGCTCATTGCCTACCTACCACGGTGACCA  
CCTGGACCATCCGAGACAAGTTTGGCCGGCTCTCCAGATGGCCACCATCCTCAATCTGGAGCGGGTGAC  
CGAGATCTCGATTACTGGGGACCAATTCCGGCCATTGACGTGGCGCCTCACCCCTGCTGAAGTGGC  
CAGGTGCTGGCCCTGCGGATAGACTTCCGCAGTGAAGATATCAAGAGGCTGCGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221249 representing NM\_015386  
Red=Cloning site Green=Tags(s)

MGTKMADLDSPPKLSGVQQPSEGVGGGRCSEISAELIRSLTELQELEAVYERLCGEEKVVERELDALLEQ  
QNTIESKMVTLHRMGPNLQLIEGDAKQLAGMITFTCNLAENVSSKVRQLDLAKNRLYQAIQRADDILDK  
FCMDGVQTALRSEDYEQAAAHTHRYLCLDKSVIELSRQGKEGSMIDANLKLQEAERLKAIVA EKFAIA  
TKEGDLPQVERFFKIFPLLGLHEEGLRKFSEYLCKQVASKAEENLLMVLGTDMSDRRAAVIFADTLTLF  
EGIARIVETHQPIVETYYPGRLYTLIKYLQVECDRQVEKVVDKFIKQRDYHQFRHVQNNLMRNSTTEK  
IEPRELDPILTEVTLMNARSEL YL RFLKKRISDFEVDGSMASEEVKQEHQKCLDKLLNCLL SCTMQEL  
IGLYVTMEEYFMRET VNKAVALD TYEKQLTSSMVDDVFYIVKKCIGRALSSSSIDCLC AMINLATTELE  
SDFRDVLCNKLRMGFPATTFQDIQRGVTS AVNIMHSSLQQGKFDTKGIESTDEAKMSFLVTLNNVEVCSE  
NISTLKKTLSDCTKLF SQGIGGEQAQAKFDSCLSDLA AVSNKFRDLLQEGL TELNSTAIKPQVQPWINS  
FFSVSHNIEEEEEFN DYEANDPWVQQF ILNLEQQMAEFKASLSPVIYDSL TGLMTSLVAVELEKVV LKSTF  
NRLGGLQFDKELRSLIAYLTTVTTWTIRDKFARLSQMATILNLERVTEILDYWGPN SGPLTWRLTPAEVR  
QVLALRIDFRSEDIKRLRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8101\\_b02.zip](https://cdn.origene.com/chromatograms/mk8101_b02.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_015386

**ORF Size:** 2367 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\\_015386.3](#)

**RefSeq Size:** 2838 bp

**RefSeq ORF:** 2370 bp

**Locus ID:** 25839

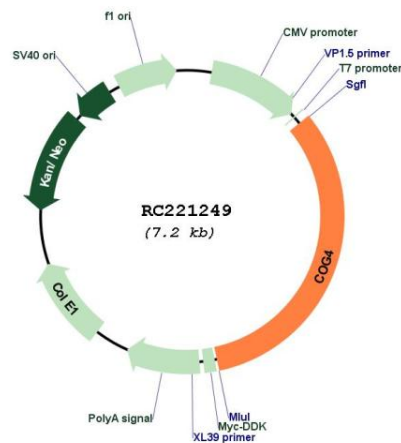
**UniProt ID:** [Q9H9E3](#)

**Cytogenetics:** 16q22.1

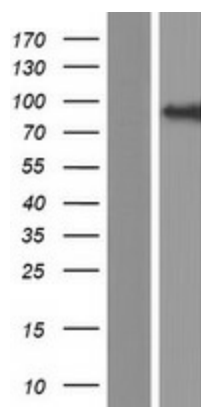
**MW:** 89.5 kDa

**Gene Summary:** The protein encoded by this gene is a component of an oligomeric protein complex involved in the structure and function of the Golgi apparatus. Defects in this gene may be a cause of congenital disorder of glycosylation type IIj. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2010]

### Product images:



Circular map for RC221249



Western blot validation of overexpression lysate (Cat# [LY414561]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221249 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).