

Product datasheet for **RG221249**

COG4 (NM_015386) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COG4 (NM_015386) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COG4
Synonyms:	CDG2J; COD1; SWILS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG221249 representing NM_015386
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACCAAGATGGCGGACCTTGATTGCGCTCCGAAGCTGTACAGGGTGCAGCAGCCGTCTGAGGGG
TGGGAGGTGGCCGCTGCTCCGAAATCTCCGCTGAGCTCATTGCTCCCTGACAGAGCTGCAGGAGCTGGA
GGCTGTATACGAACGGCTCTGCGCGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGAACAG
CAAAACACCATTGAAAGTAAAGTGGTCACTCTCCACCGAATGGGTCTAATCTGCAGCTGATTGAGGGAG
ATGCAAAGCAGCTGGCTGGAATGATCACCTTACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCC
TCAGCTTGACCTGGCCAAGAACCCTCTATCAGGCCATTCAGAGAGCTGATGACATCTTGACCTGAAG
TTCTGCATGGATGGAGTTCAGACTGCTTTGAGGAGTGAAGATTATGAGCAGGCTGCAGCACATACTCATC
GCTACTTGTGCCTGGACAAGTCGGTCATTGAGCTCAGCCGACAGGGCAAAGAGGGGAGCATGATTGATGC
CAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTGGCAGAGAAGTTTGCCATTGCC
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GAAGGGATTGCCCGCATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTCT
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GCAAAGGGACTACCACAGCAGTTCGGCATGTTCAGAACAACCTGATGAGAAATTTACAACAGAAAAA
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TACGTTCTCTCAAGAAGAGGATTAGCTCTGATTTTGGAGTGGGAGACTCCATGGCCTCAGAGGAAGTAAA
GCAAGAGCACCAAGTGTCTGGACAAACTCTCAATAACTGCCTTTTGGAGCTGTACCATGCAGGAGCTA
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CCTATGAGAAGGGCCAGCTGACATCCAGCATGGTGGATGATGTCTTCTACATTGTTAAGAAGTGCATTGG
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TCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATGGGCTTCTGCCACCACCTTCCAGGACATCC
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CATCGAGAGTACTGACGAGGCGAAGATGTCCTTCTGGTACTCTGAACAACGTGGAAGTCTGCAGTGAA
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CAGCCTAACCGGCTCATGACTAGCCTTGTGCGTGCAGTTGGAGAAAGTGGTGTGAAATCCACCTTT
AACCGGCTGGGTGGTCTGCAGTTTGACAAGGAGCTGAGGTGCTCATTGCCTACCTACCACGGTGACCA
CCTGGACCATCCGAGACAAGTTTGGCCGGCTCTCCAGATGGCCACCATCCTCAATCTGGAGCGGGTGAC
CGAGATCTCGATTACTGGGGACCCAATTCGGGCCATTGACGTGGCGCCTCACCCCTGCTGAAGTGGC
CAGGTGCTGGCCCTGCGGATAGACTTCCGACGTGAAGATATCAAGAGGCTGCGCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG221249 representing NM_015386
Red=Cloning site Green=Tags(s)

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MGTKMADLDSPPKLSGVQQPSEGVGGGRCSEISAELIRSLTELQLEAVYERLCGEEKVVERELDALLEQ
QNTIESKMVTLHRMGPNLQLIEGDAKQLAGMITFTCNLAENVSSKVRQLDLAKNRLYQAIQRADDILDK
FCMDGVQ TALRSEDYEQAAAATHRYLCLDKSVIELSRQKKEGSMIDANLKLQEAQRLKAIVAEKFAIA
TKEGDL PQVERFFKIFPLLGLHEEGLRKFSEYLCKQVASKAEENLLMVLGTDMSDRRAAVIFADTLTLFF
EGIARIVETHQPIVETYYPGRLYTLIKYLQVECDRQVEKVVDKFIKQRDYHQFQFRHVQNNLMRNSTTEK
IEPRELDPILTEVTLMNARSEL YL RFLKKRISDFE VGD SMASEEVKQEHQKCLDKLLNNCLL SCTMQEL
IGLYVTMEEYFMRETVNKAVALD TYEKQLTSSMVDDVFYIVKKCIGRALSSSSIDCLC AMINLATTELE
SDFRDVLCNKLRMGFPATTFQDIQRGVTSAVNIMHSSLQQKGFDTKGIESTDEAKMSFLVTLNNVEVCSE
NISTLKKTLSDCTKLF SQGIGGEQAQAKFDSCLSDLA AVSNKFRDLLQ EGL TELNSTAIK PQVQPWINS
FFSVSHNIEEEEFNDYE ANDPWVQQF ILNLEQQMAEFKASLSPVIYDSL TGLMTSLVAVELEKVV LKSTF
NRLGGLQFDKELRSLIAYLTTVTWTIRDKFARLSQMATILNLERVTEILDYWGPN SGPLTWRLTPAEVR
QVLALRIDFRSEDIKRLRL
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015386

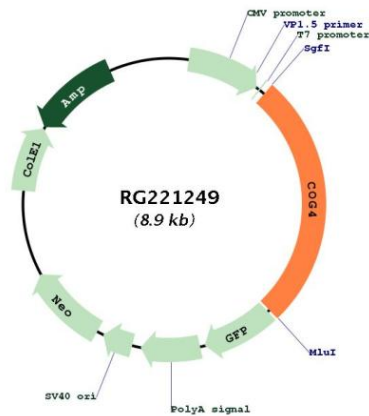
ORF Size: 2367 bp

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
- 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 RG221249