

## Product datasheet for **RG231407**

### **COG4 (NM\_001195139) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | COG4 (NM_001195139) 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:**

>RG231407 representing NM\_001195139  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGACCAAGATGGCGGACCTTGATTGCGCTCCGAAGCTGTACAGGGTGCAGCAGCCGCTGAGGGG  
 TGGGAGGTGGCCGCTGCTCCGAAATCTCCGCTGAGCTCATTGCTCCCTGACAGAGCTGCAGGAGCTGGA  
 GGCTGTATACGAACGGCTCTGCGCGGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAAACAG  
 CAAAACACCATTGAAAGTAAAGTGGTCACTCTCCACCGAATGGGTCTAATCTGCAGCTGATTGAGGGAG  
 ATGCAAAGCAGCTGGCTGGAATGATCACCTTTACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCCG  
 TCAGCTTGACCTGGCCAAGAACCCTCTATCAGGCCATTCAGAGAGCTGATGACATCTTGACCTGAAG  
 TTCTGCATGGATGGAGTTCAGACTGCTTTGAGGAGTGAAGATTATGAGCAGGCTGCAGCACATACTCATC  
 GCTACTTGTGCCTGGACAAGTCGGTCATTGAGCTCAGCCGACAGGGCAAAGAGGGGAGCATGATTGATGC  
 CAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTGGCAGAGAAGTTTGCCATTGCC  
 ACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCACTGCTGGGTTTGCATGAGG  
 AGGGATTAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAGAATCTGCTCAT  
 GGTGCTGGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTGAGATACTTACTCTTCTGTTT  
 GAAGGGATTGCCCGCATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTCT  
 ATACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGTGGTAGACAAGTTCATCAA  
 GCAAAGGGACTACCACAGCAGTTCGGCATGTTCAGAACAACCTGATGAGAAATTTACAACAGAAAAA  
 ATCGAACCAAGAGAAGTGGACCCATCTGACTGAGGTCAACCTGATGAATGCCCGCAGTGAGCTATACT  
 TACGCTTCTCAAGAAGAGGATTAGCTCTGATTTTGGAGTGGGAGACTCCATGGCCTCAGAGGAAGTAAA  
 GCAAGAGCACCAAGTGTCTGGACAACTCCTCAATAACTGCCTTTTGGAGCTGTACCATGCAGGAGGCTA  
 ATTGGCTTATATGTTACCATGGAGGAGTACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACA  
 CCTATGAGAAGGGCCAGCTGACATCCAGCATGGTGGATGATGTCTTCTACATTGTTAAGAAGTGCATTGG  
 GCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTCTGTGCCATGATCAACCTCGCCACCACAGAGCTGGAG  
 TCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATGGGCTTCTGCCACCACCTTCCAGGACATCC  
 AGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCTCCAGCAAGGCAAATTTGACACAAAAGG  
 CATCGAGAGTACTGACGAGGCGAAGATGTCCTTCTGAGTGACTGCACCAAGCTCTTCCAGCCAGGGCATT  
 GGAGGGGAGCAGGCCAGGCAAGTTTACAGCTGCCTTCTGACTTGGCCGCCGTGTCCAACAAATTC  
 GAGACCTTTGCAGGAAGGGCTGACGGAGCTCAACAGCACAGCCATCAAGCCACAGGTGCAGCCTTGGAT  
 CAACAGCTTTTTCTCCGCTCTCCCAACATCGAGGAGGAAGAATCAATGACTATGAGGCCAACGACCTT  
 TGGGTACAACAGTTTATCCTTAACCTGGAGCAGCAAATGGCAGAGTTCAAGGCCAGCCTGTCCCCGGTCA  
 TCTACGACAGCCTAACCGCCTCATGACTAGCCTTGTGCGCTCGAGTTGGAGAAAGTGGTGTGAAATC  
 CACCTTTAACCGGCTGGGTGGTCTGCAGTTTGACAAGGAGCTGAGGTGCTCATTGCCTACCTTACCACG  
 GTGACCACCTGGACCATCCGAGACAAGTTTCCCGGCTCTCCAGATGGCCACCATCCTCAATCTGGAGC  
 GGGTGACCGAGATCCTCGATTACTGGGGACCAATTCCGGCCATTGACGTGGCGCTCACCCCTGCTGA  
 AGTGCGCCAGGTGCTGGCCCTGCGGATAGACTTCCGCAGTGAAGATATCAAGAGGCTGCGCCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231407 representing NM\_001195139  
Red=Cloning site Green=Tags(s)

```

MGTKMADLDSPPKLSGVQQPSEGVGGGRCSEISAELIRSLTELQELEAVYERLCGEEKVVERELDALLEQ
QNTIESKMVTLHRMGPNLQLIEGDAKQLAGMITFTCNLAENVSSKVRQLDLAKNRLYQAIQRADDILDLK
FCMDGVQTLRSEDYEQAAAHTHRYLCLDKSVIELSRQKKEGSMIDANLKLQEAERLKAIVAEKFAIA
TKEGDLPQVERFFKIFPLLGLHEEGLRKFSEYLCKQVASKAEENLLMVLGTDMSDRRAAVIFADTLTLF
EGIARIVETHQPIVETYYPGRLYTLIKYLQVECDRQVEKVVDKFIKQRDYHQQFRHVQNNLMRNSTTEK
IEPRELDPILTEVTLMNARSELYLRFLLKRISSDFEVDGSMASEEVKQEHQKCLDKLLNCLLCTMQEL
IGLYVTMEEYFMRETVNKAVALDYEKQQLTSSMVDDVFYIVKCKIGRALSSSIDCLCAMLNATTELE
SDFRDVLCNKLRMGFPATTFQDIQRGVTSAVNIMHSSLQQKGFDTKGIESTDEAKMSFLSDCTKLFSGQI
GGEQAQAKFDSCLSDLAAVSNKFRDLLQEGLTELNSTAIKPQVQPWINSFFSVSHNIEEEEFNDYEANDP
WVQQFILNLEQQMAEFKASLSPVIYDSL TGLMTSLVAVELEKVVVKSTFNRLGGLQFDKELRSLIAYLTT
VTTWTIRDKFARLSQMATILNLERVTEILDYWGPNSSGPLTWRLTPAEVRQVLALRIDFRSEDIKRLRL
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001195139

**ORF Size:** 2304 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\\_001195139.1](#), [NP\\_001182068.1](#)

**RefSeq Size:** 2775 bp

**RefSeq ORF:** 2295 bp

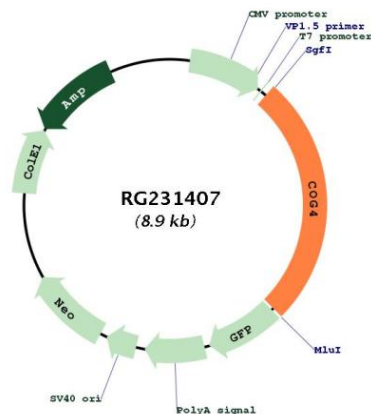
**Locus ID:** 25839

**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 RG231407