

Product datasheet for **RG207130**

COG7 (NM_153603) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COG7 (NM_153603) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COG7
Synonyms:	CDG2E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG207130 representing NM_153603
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACTTCTCCAAGTTCCTGGCAGACGACTTCGACGTGAAGGAGTGGATCAATGCGGCCTTCAGGGCCG
GCTCCAAGGAGGCGCGTCCGGGAAGGCGGATGGCCACGACGCCACCCTGGTGATGAAGCTGCAGCTGTT
CATCCAAGAGGTGAACCACGCCGTGGAGGAAACAAGTACCAAGCTCTCCAGAACATGCCAAAAGTGCTC
CGTGATGTTGAAGCCCTAAAACAGGAGGCATCTTCTGAAAGAACAGATGATTCTGTCAAGGAGGACA
TAAAAAATTTGAACAGGACACATCTCAATCCATGCAGGTGTTGGTAGAAATTGACCAAGTGAAGTCCAG
AATGCAACTTGCTGCCGAATCTTTCAGGAAGCAGATAAGTGGAGCACGTTGAGCGCCGATATTGAGGAG
ACATTTAAGACTCAGGACATAGCTGTGATTTCTGCCAAGCTAACAGGTATGCAGAACAGCTTAATGATGC
TTGTTGATACACCAGACTACTCAGAAAAGTGTGTGCCTTGAGGCACTGAAGAACAGGCTGGAGGCCCT
AGCCAGTCCACAGATTGTAGCGCATTACCTCTCAGGCTGTAGATCAGTCCAAAGTGTTTGTGAAGGTG
TTTACTGAAATTGACCGGATGCCCCAGCTCCTGGCCTACTACTACAAGTGCACAAGGTGCAGCTTTTAG
CAGCCTGGCAAGAGCTGTGTCAAAGTGACCTATCCCTGGACCGGAGCTTACCGGACTCTATGATGCCTT
GCTTGGTGCTTGGCACACACAAATCCAGTGGGCTACACAGGTTTTCCAGAAGCCCCACGAGGTGGTAATG
GTGCTGCTGATTAGACCCCTGGGGGCCCTCATGCCCTCGCTGCCCTCCTGCCTCAGCAACGGCGTGGAGA
GGGCAGGGCCCGAGCAGGAGCTCACCAGGCTGTGGAGTCTACGACGCCACCGCCCACTTCGCCAAGGG
CTTGGAGATGGCACTGCTCCCCACCTACATGAACACAATCTGGTAAAAGTACGGAGCTGGTGGATGCT
GTGATGATCCATACAAACCCTACCAGCTGAAGTATGGCGACATGGAAGAGAGCAACCTCCTCATCCAGA
TGAGTCTGTGCCTCTGGAGCATGGGGAAGTATTGACTGTGTGCAGGAGCTGAGCCACTCCGTGAACAA
GCTGTTTGGTCTGGCGTCTGCAGCCGTTGACAGATGCGTCAGATTACCAATGGCCTGGGGACCTGCGGC
CTGTTGTGAGCCCTGAAATCCCTCTTGGCAAGTATGTGTCTGATTTACCAGCACTCTCCAGTCCATAC
GAAAGAAGTGAAACTGGACCACATTCCCTCCCACTCCCTCTTCCAGGAAGATTGGACGGCTTTTCAGAA
CTCCATTAGGATAATAGCCACCTGTGGAGAGCTTTTGGCGCATTGTGGGACTTCGAGCAGCAGCTAGCC
AACAGGATTTTGTCCACAGCTGGGAAGTATCTATCTGATTCTGCAGCCCCGGAGCCTGGCTGGTTTTT
AGGAGAGCATCTTGACAGACAAGAAGAACTCTGCCAAGAACCATGGCAAGAATAAATTACCTCCAGAA
AGATAACCCTGCTGAATATGCCAGTTTAAATGAAATACTTTATACCCTTAAGGAAAAAGGTCAGCAAC
CACAACCTGCTGGCTGCACCTCGAGCAGGCTGACTCGGCTTAACCAGCAGGCCACCAGCTGGCTTTTCG
ATTCCGTGTTCTGCGCATCAAACAACAGCTGTTGCTATTTTGAAGATGGACAGCTGGAATACGGCTGG
CATCGGAGAAACCCTCACAGATGAAGTCCCGCCTTTAGTCTACCCCTCTCGAGTACATCAGCAACATC
GGGAGTACATCATGTCCCTCCCTGAACTCTTGGCCATTTGTGACTCAGGAGGACTCTGCCTTAGAGT
TGGCATTGCAGCTGGAAGCTGCCATTTCTCCTGAGCAGGGGGATGAATTGCCCGAGCTGGACAACAT
GGCTGACAACCTGGCTGGCTCGATCGCCAGAGCCACAATGCAGACCTACTGTGATGCGATCCTACAGATC
CCTGAGCTGAGCCCACTCTGCCAAGCAGCTGGCCACTGACATCGACTATCTGATCAACGTGATGGATG
CCCTGGGCTGCAGCCGTCGCCACCCTCCAGCACATCGTGACGCTACTGAAGACCAGGCTGAGGACTA
TAGACAGGTCAGCAAAGGCTGCCCGTGCCTGGCCACCACCGTGGCCACCATGCGGAGTGTGAATTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207130 representing NM_153603
 Red=Cloning site Green=Tags(s)

MDFSKFLADDFVKEWINAAFRAGSKEAASGKADGHAATLVMKLQLFIQEVNHAVEETSHQALQNMPKVL
 RDVEALKQEASFLKEQMILVKEDIKKFEQDTSQSMQVLVEIDQVKSRMQLAAESLQEADKWLSTLADIEE
 TFKTQDIAVISAKLTGMQNSLMMLVDTDPDYSEKCVHLEALKNRLEALASPQIVAAFTSQAVDQSKVFKV
 FTEIDRMPQLLAYYYKCHKVQLLAAWQELCQSDLSLDRQLTGLYDALLGAWHTQIQWATQVFQKPHEVVM
 VLLLIQTLGALMPSLPSCLSNNGVERAGPEQELTRLLEFYDATAHFAGKLEMALLPHLHEHNLYKVTELVDA
 VYDPYKPYQLKYGDMEESNLLIQMSAVPLEHGEVIDCVQELSHSVNKLFLASAAVDRCVRFTNGLGTCG
 LLSALKSLFAKYVSDFTSTLQSIKCKLDHIPPNSLFQEDWTAQNSIRIIATCGELLRHCGDFEQQLA
 NRILSTAGKYLSDSCSPRSLAGFQESILTDKKNSAKNPWQYNYLQKDNPAEYASLMEILYTLKEKGSSN
 HNLLAAPRAALTRLNQQAHQLAFDSVFLRIKQQLLLISKMDSWNTAGIGETLTDELPAFSLTPLEYISNI
 GQYIMSLPLNLEPFVTQEDSALELALHAGKLPFPPEQGDELPELDNMADNWLGSARATMOTYCDAILQI
 PELSPHSAKQLATDIDYLVMDALGLQPSRTLQHIIVTLKTRPEDYRQVSKGLPRRLATTVATMRSVNY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153603

ORF Size: 2310 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_153603.4](#)

RefSeq Size: 2792 bp

RefSeq ORF: 2313 bp

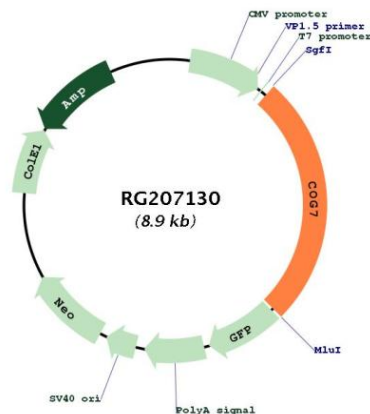
Locus ID: 91949

UniProt ID: [P83436](#)

Cytogenetics: 16p12.2

Gene Summary: The protein encoded by this gene resides in the golgi, and constitutes one of the 8 subunits of the conserved oligomeric Golgi (COG) complex, which is required for normal golgi morphology and localization. Mutations in this gene are associated with the congenital disorder of glycosylation type IIe.[provided by RefSeq, May 2010]

Product images:



Circular map for RG207130