

Product datasheet for **RG220704**

COG5 (NM_181733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COG5 (NM_181733) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COG5
Synonyms:	CDG2I; GOLTC1; GTC90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG220704 representing NM_181733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTGGGTGGCGGGCGGCCGGGATTCTGCGTCACCACCTGGGCGGAGCCGTTCTGCTGCTGACG
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 CAAAGAATTTGCACAGTTTATCCATAATGTTTCAGCTGCTTCAAAGGCTATGTCTGCTCTTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220704 representing NM_181733
 Red=Cloning site Green=Tags(s)

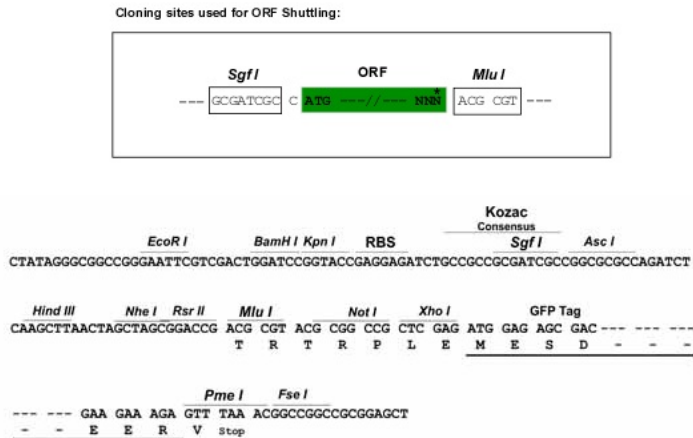
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_181733
ORF Size:	2517 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_181733.2](#), [NP_859422.2](#)

RefSeq Size: 4817 bp

RefSeq ORF: 2427 bp

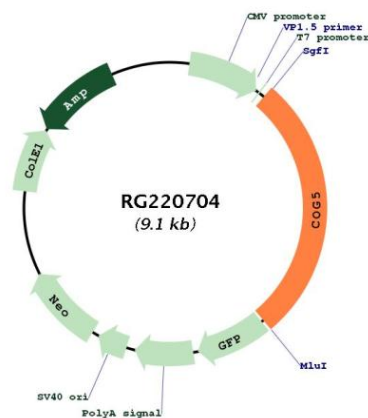
Locus ID: 10466

UniProt ID: [Q9UP83](#)

Cytogenetics: 7q22.3

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 RG220704