

Product datasheet for **RC207130**

COG7 (NM_153603) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COG7 (NM_153603) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COG7
Synonyms:	CDG2E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC207130 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTTCTCCAAGTTCCTGGCAGACGACTTCGACGTGAAGGAGTGGATCAATGCGGCCTTCAGGGCCG
 GCTCCAAGGAGGCGCGTCCGGGAAGGCGGATGGCCACGCAGCCACCCTGGTGATGAAGCTGCAGCTGTT
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 TTTACTGAAATTGACCGGATGCCCCAGCTCCTGGCCTACTACTACAAGTGCACAAGGTGCAGCTTTTAG
 CAGCCTGGCAAGAGCTGTGTCAAAGTGACCTATCCCTGGACCGGAGCTTACCGGACTCTATGATGCCTT
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 GGGCAGGGCCCGAGCAGGAGCTCACCAGGCTGTGGAGTCTACGACGCCACCGCCCACTTCGCCAAGGG
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 TGGCATTGCACGCTGAAAGCTGCCATTTCTCCTGAGCAGGGGGATGAATTGCCCGAGCTGGACAACAT
 GGCTGACAACCTGGCTGGGCTCGATCGCCAGAGCCACAATGCAGACCTACTGTGATGCGATCCTACAGATC
 CCTGAGCTGAGCCCACTCTGCCAAGCAGCTGGCCACTGACATCGACTATCTGATCAACGTGATGGATG
 CCCTGGGCTGCAGCCGTCGCCACCCTCCAGCACATCGTGACGCTACTGAAGACCAGGCTGAGGACTA
 TAGACAGGTCAGCAAAGGCTGCCCCGTGCCTGGCCACCACCGTGGCCACCATGCGGAGTGTGAATTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207130 protein sequence
Red=Cloning site Green=Tags(s)

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MDFSKFLADDFVKWEINAAFRAGSKEAASGKADGHAATLVMKLQLFIQEVNHAVEETSHQALQNMPKVL
RDVEALKQEASFLKEQMILVKEDIKKFEQDTSQSMQVLVEIDQVKSRMQLAAESLQEADKWSTLSADIEE
TFKTQDIAVISAKLTGMQNSLMMLVDTDPDYSEKCVHLEALKNRLEALASPQIVAAFTSQAVDQSKVFVKV
FTEIDRMPQLLAYYYKCHKVQLLAAWQELCQSDLSLDRQLTGLYDALLGAWHTQIQWATQVFQKPHEVVM
VLLLIQTLGALMPSLPSCLSNVERAGPEQELTRLLEFYDATAHFAGKLEMALLPHLHEHNLYKVTELVDA
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LLSALKSLFAKYVSDFTSTLQSIKKCKLDHIPPNSLFQEDWTAQNSIRI IATCGELLRHCGDFEQQLA
NRILSTAGKYLSDSCSPRSLAGFQESILTDKNSAKNPWEYNYLQKDNPAEYASLMEILYTLKEKGSSN
HNLLAAPRAALTRLNQAHLAFDSVFLRIKQQLLLISKMDSWNTAGIGETLTDELPAFSLTPLEYISNI
GQYIMSLPLNLEPFVTQEDSALELALHAGKLPFPPEQGDELPELDNMADNWLGSARATMQTYCDAILQI
PELSPHSAKQLATDIDYLVMDALGLQPSRTLQHIIVTLKTRPEDYRQVSKGLPRRLATTVATMRSVNY
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6334_d08.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_153603

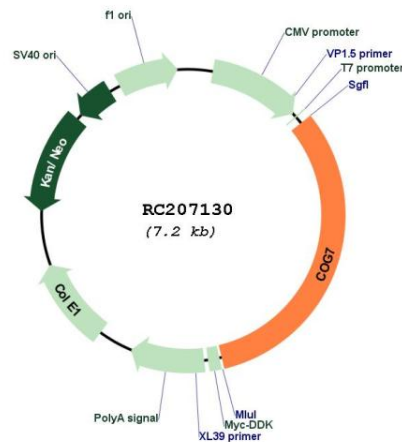
ORF Size: 2310 bp

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](#)

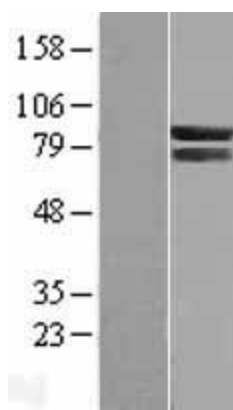
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	2943 bp
RefSeq ORF:	2313 bp
Locus ID:	91949
UniProt ID:	P83436
Cytogenetics:	16p12.2
MW:	86.3 kDa
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]

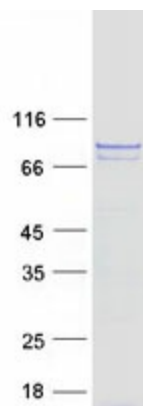
Product images:



Circular map for RC207130



Western blot validation of overexpression lysate (Cat# [LY407018]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207130 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COG7 protein (Cat# [TP307130]). The protein was produced from HEK293T cells transfected with COG7 cDNA clone (Cat# RC207130) using MegaTran 2.0 (Cat# [TT210002]).