

Product datasheet for **RC239426**

COPG2 (NM_001290033) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COPG2 (NM_001290033) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COPG2
Synonyms:	2-COP; gamma-2-COP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC239426 representing NM_001290033
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTAATAAAATTCGACAAGAAGGACGAGGAGTCTGGTGTGGCTCCAATCCTTTCCAGCATCTGGAGA
 AGAGTGTGTTTTACAGGAGGCTCGTATATTCAATGAAACTCCAATCAATCCAAGAAGATGTTTGCATAT
 TCTTACAAGATTCTTTACTTACTGAACCAAGGTGAACACTTTGGAACAACGGAAGCTACAGAAGCCTTC
 TTTGCAATGACGCGATTGTTTCAATCTAATGATCAAACATTGAGGAGAATGTGCTACCTTACCATCAAAG
 AAATGGCTACCATCTCTGAGGATGTGATAATTGTCACAAGCAGTCTGACTAAAGACATGACTGGAAAAGA
 AGATGTATACCGAGGCCCGCCATCAGAGCTCTCTGCAGGATCACCGATGGAACAATGTTGCAAGCCATT
 GAAAGATACATGAAGCAGGCCATTGTGGATAAAGTTTCCAGTGTATCCAGTTCAGCACTGGTATCTTCCC
 TGCACATGATGAAGATAAGCTATGATGTGGTTAAGCGCTGGATCAATGAAGCCCAAGAAGCTGCATCAAG
 TGATAATATTATGGTCCAGTACCATGCATTGGGAGTCTGTATCACCTTAGAAAGAAATGATCGACTTGCT
 GTTCCAAGATGTTGAATAAGTTTACTAAATCTGGTCTCAAGTCACAGTTTGCTTACTGCATGCTGATCC
 GAATTGCCAGTCGCTTACTAAAAGAAACTGAGGATGGCCATGAAAGTCCACTGTTTGATTTCATTGAGAG
 CTGCTTGGCAAATAAACATGAAATGGTTATTTATGAAGCTGCTTCAGCTATCATCCATCTTCTAACTGC
 ACTGCAAGAGAGTTGGCACCTGCTGTTTCACTTTCTGTAGTTCTCCTAAGCCAGCCTTGA
 GATATGCAGCTGTGAGGACCTTGAACAAGGTGGCAATGAAGCACCCTCTGCTGTTACTGCCTGCAATCT
 GGACTTAGAAAATTAATCACAGACTCAAACAGAAGCATTGCTACCTTAGCCATTACTACACTCCTCAA
 ACAGGAAGTGAGAGCAGTGTGGACCGCTCATGAAGCAGATATCTTCTTTGTGTCTGAAATCTCAGATG
 AGTTCAAGGTGGTGGTTGTACAGGCAATTAGTCTCTCTGTGCAAAATACCCTCGAAAGCACAGTGCAT
 GATGACTTTCCTCTCCAACATGCTCCGAGATGATGGAGGCTTTGAGTACAAGCGGCCATTGTGGACTGT
 ATAATCAGCATTGTGGAAGAGAACCCTGAGAGTAAAGAAGCAGGCCTAGCCACCTTTGTGAATTCATTG
 AGGACTGTGAACACACTGTTCTGGCTACTAAGATTCTACACTTGTGGGCAAAGAGGGCCCTAGAAGGCC
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 GAGGCAGATGGCACTAAATGCCACATATATCTTAAATGGTTTGACGGTCTCTGTACCAGGGATGGAAAA
 GCCTTACACCAGTACACGTTGGAGCCTTCAGAAAACCGTTTGACATGAAATCAATTCCTCTTGCTATGG
 CTCTGTCTTTGAACAGAAAGCAGAAATCACACTTGTGGCTACTAAGCCAGAGAAGTTGGCTCCTCCAG
 GCAAGACATTTTCCAAGAACAATTGGCTGCCATTCCTGAGTTTCTGAATATAGGACCCTTGTCAAGTCT
 TCTGAGCCTGTTCAACTACAGAAGCAGAGACAGAATATTTGTTTCGATGTATCAAGCACATGTTTACCA
 ATCACATCGTGTCCAGTTTGTGCTGCACCAACTCTCAATGACCAGCTGCTGGAAAAAGTGACAGTGCA
 GATGGAGCCATCAGATTCCTATGAAGTGTCTTGTATCCCAGCCCCAGCCTTCTTATAACCAACCA
 GGAATATGTTACACTCTTGTTCGTTTGCCTGATGATGACCCTACAGCAGGTAACCCCTCAGAAGGGAG
 GAGATACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239426 representing NM_001290033
Red=Cloning site Green=Tags(s)

MIKKFDKKDEESGSGSNPFQHLEKSAVLQEARIFNETPINPRRCLHILTKILYLLNQGEHFGTTEATEAF
 FAMTRLFQSNQTLRRMICYLTIKEMATISEDVIVTSSLTKDMTGKEDVYRGPALRALCRITDGTMLQAI
 ERYMKQAIIVDKVSVSSSALVSSLHMMKISYDVVVRWINEAQEAASSDNIMVQYHALGVL YHLRKNDRLA
 VSKMLNKFTKSGLKSQFAYCMLIRIASRLLKETEDGHESPLDFDIESCLRKNKHEMVIYEAASAIHLPNC
 TARELAPAVSVLQLFCSSPKPALRYAAVRTLNKVAMKHPSAVTACNLLENLITDSNRSIATLAITLLK
 TGSESSVDRLMKQISSFVSEISDEFKVVVVQAIASALCQKYPRKHSVMMTFLSNMLRDDGGFEYKRAIVDC
 IISIVEENPESKEAGLAHLCEFIEDCEHTVLATKILHLLGKEGPRTPVPSKYIRFIFNRVLENEAVRAA
 AVSALAKFQAQNESLLPSILVLLQRCMMTDDEVRDRATFYLNVLQQRQMALNATYIFNGLTVSPVGMK
 ALHQYTLEPSEKPFDMKSIPLAMAPVFEQKAEITLVATKPEKLAPSRQDIFQEQLAAIPEFLNIGPLFKS
 SEPVQLTEAETEYFVRCIKHMFVNHIVFQFDCTNTLNDQLLEKVTVQMEPSDSYEVLSVIPAPSLPYNQP
 GICYTLVRLPDDPTAGTNPQGGDT

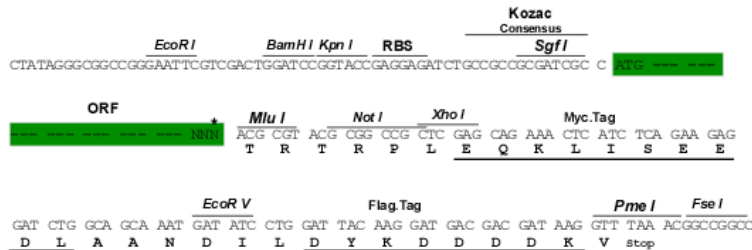
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001290033

ORF Size: 2178 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_001290033.1](#), [NP_001276962.1](#)

RefSeq Size: 3142 bp

RefSeq ORF: 2181 bp

Locus ID: 26958

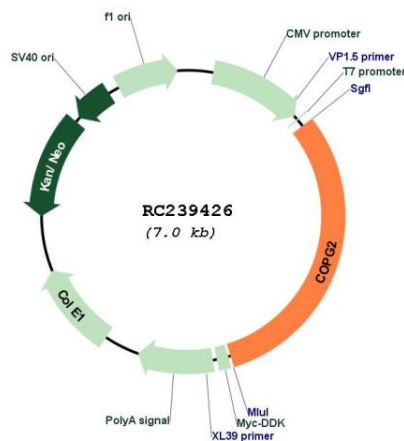
UniProt ID: [Q9UBF2](#)

Cytogenetics: 7q32.2

MW: 81.9 kDa

Gene Summary: The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239426