

Product datasheet for **RG239426**

COPG2 (NM_001290033) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COPG2 (NM_001290033) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COPG2
Synonyms:	2-COP; gamma-2-COP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG239426 representing NM_001290033.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGATTAATAAAATTCGACAAGAAGGACGAGGAGTCTGGTAGTGGCTCCAATCCTTTCCAGCATCTGGAG
AAGAGTGTCTGTTTACAGGAGGCTCGTATATTCAATGAAACTCCAATCAATCCAAGAAGATGTTTGCAT
ATTCTTACAAAGATTCTTTACTTACTGAACCGGGTGAACACTTTGGAACAACGGAAGCTACAGAAGCC
TTCTTTGCAATGACGCGATTGTTTCAATCTAATGATCAAACATTGAGGAGAATGTGCTACCTTACCATC
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TTCATTGAGAGCTGCTTGCAGAAATAAACATGAAATGGTATTTTATGAAGCTGCTTCAGCTATCATCCAT
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CGGGCCATTGTGGACTGTATAATCAGCATTGTGGAAGAGAACCCTGAGAGTAAAGAAGCAGGCCTAGCC
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GACCAGCTGTGGAAAAAGTGACAGTGCAGATGGAGCCATCAGATTCTATGAAGTGTCTTGTATC
CCAGCCCCAGCCTTCTTATAACCAACCAGGAATATGTTACACTCTTGTTCGTTTGCCTGATGATGAC
CCTACAGCAGGTACTAACCTCAGAAGGGAGGAGATACG
ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239426
 Blue=ORF Red=Cloning site Green=Tag(s)

MIKKFDKKDEESGSGSNPFQHLEKSAVLQEARIFNETPINPRCLHLTKILYLLNQGEHFGTTEATEA
 FFAMTRLFQSNQTLRRMCYLTIKEMATISEDVIIVTSSLTKDMTGKEDVYRGPALRALCRITDGTMLQ
 AIERYMKQAIVDKVSSVSSALVSSLHMMKISYDVVKRWINEAQEAASSDNIMVQYHALGVLVHLRKNL
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 LPNCTARELAPAVSVLQLFCSSPKPALRYAAVRTLNVKVMKHPSAVTACNLDLENLITDSNRSIATLAI
 TTLKKTGSESSVDRMLMKQISSFVSEISDEFKVVVVQAIASALCQKYPRKHSVMMTFLSNMLRDDGGFEYK
 RAIVDCIISIVEENPESKEAGLAHLCEFIEDCEHTVLATKILHLLGKEGPRTPVPSKYIRFIFNRVLE
 NEAVRAAAVSALAKFGAQNESLLPSILVLLQRCMMDDDEVRDRATFYLVNLVQQRQMALNATYIFNGLT
 VSVPGMEKALHQYTLPESEKPFDMKSIPLAMAPVFEQKAEITLVATKPEKLAPSRQDIFQEQLAAIPEF
 LNI GPLFKSSEPVLTEAETEYVRCIKHMFNTNII VFQDCTNTLNDQLLEKVTVMPESDSYEVLSCI
 PAPS LPYNQPGICYTLVRLPDDPTAGTNPQKGGDT
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290033

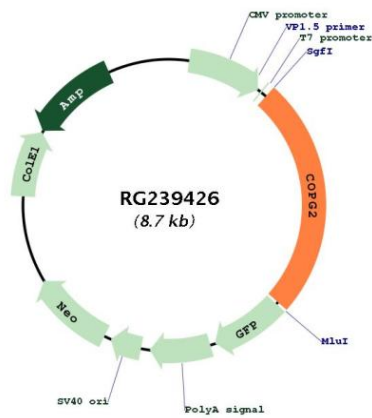
ORF Size: 2178 bp

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).
RefSeq:	<u>NM_001290033.1, NP_001276962.1</u>
RefSeq Size:	3142 bp
RefSeq ORF:	2181 bp
Locus ID:	26958
UniProt ID:	<u>Q9UBF2</u>
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 RG239426