

Product datasheet for RC209018L3V

OriGene Technologies, Inc.

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COPG (COPG1) (NM_016128) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: COPG (COPG1) (NM_016128) Human Tagged ORF Clone Lentiviral Particle

Symbol: COPG
Synonyms: COPG

Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-Myc-DDK-P2A-Puro (PS100092)

 Tag:
 Myc-DDK

 ACCN:
 NM_016128

 ORF Size:
 2622 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC209018).

Sequence:
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.

RefSeq: <u>NM 016128.3</u>

 RefSeq Size:
 3114 bp

 RefSeq ORF:
 2625 bp

 Locus ID:
 22820

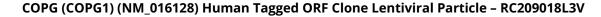
 UniProt ID:
 Q9Y678

 Cytogenetics:
 3q21.3

Domains: Adaptin_N

Protein Families: Druggable Genome





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MW: 97.7 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. Required for limiting lipid storage in lipid droplets. Involved in lipid homeostasis by regulating the presence of perilipin family members PLIN2 and PLIN3 at the lipid droplet surface and promoting the association of adipocyte triglyceride lipase (PNPLA2) with the lipid droplet surface to mediate lipolysis (By similarity).[UniProtKB/Swiss-Prot Function]