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Product datasheet for SC108411

COPG (COPG1) (NM_016128) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COPG (COPG1) (NM_016128) Human Untagged Clone
Tag:	Tag Free
Symbol:	COPG
Synonyms:	COPG
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC108411 sequence for NM_016128 edited (data generated by NextGen Sequencing)

ATGTTGAAGAAATTCGACAAGAAGGATGAGGAGTCAGGTGGAGGCTCCAACCCATTCCAG
CACCTTGAGAAGAGTGCGGTACTCCAGGAGGCCCGTGTATTTAATGAAACTCCCATCAAC
CCTCGGAAATGTGCCCACATCCTCACCAAGATTCTTTATCTCATAAACCAGGGGGAGCAC
CTGGGGACCACGGAAGCGACCGAGGCCTTCTTTGCCATGACCAAGCTCTTTCAGTCCAAT
GATCCCACACTCCGTCGGATGTGCTACTTGACCATCAAGGAGATGTCTTGCATTGCAGAG
GATGTCATCATTGTCACCAGCAGCCTAACAAAAGACATGACTGGGAAAGAAGACAACTAC
CGGGGCCCGGCCGTGCGAGCCCTCTGCCAGATCACTGATAGCACCATGCTGCAGGCTATT
GAGCGCTACATGAAACAAGCCATTGTGGACAAGGTGCCCAGTGTCTCCAGCTCTGCCCTC
GTGTCTTCCTTGCACCTGCTGAAGTGCAGCTTTGACGTGGTCAAGCGCTGGGTGAATGAG
GCTCAGGAGGCAGCATCCAGTGATAACATCATGGTCCAGTACCACGCACTAGGGCTCCTG
TACCATGTGCGTAAGAATGACCGCCTAGCCGTCAATAAGATGATCAGCAAGGTCACACGG
CATGGCCTTAAGTCTCCCTTTGCCTACTGCATGATGATCCGGGTGGCCAGCAAGCAGCTG
GAAGAGGAGGATGGCAGCCGTGACAGCCCACTGTTTGACTTCATCGAGAGCTGCTTGCGC
AACAAGCACGAGATGGTGGTGTATGAAGCCGCCTCGGCCATCGTCAATCTGCCAGGCTGC
AGTGCCAAAGAGCTGGCCCCGGCTGTGTCAGTGCTCCAGCTTTTCTGCAGCTCACCCAAG
GCTGCTCTCCGCTATGCTGCTGTTCGTACCCTCAATAAGGTTGCCATGAAGCATCCGTCA
GCTGTGACAGCTTGTAATCTGGATCTGGAGAACCTGGTCACAGATTCAAACCGCAGCATT
GCCACGCTGGCCATCACCACCCTCCTTAAGACGGGCAGCGAGAGCAGCATCGACCGCCTC
ATGAAGCAGATCTCCTCCTTCATGTCAGAAATCTCGGATGAATTCAAGGTGGTGGTTGTC
CAGGCCATCAGTGCCCTGTGTCAGAAATATCCTCGCAAACACGCCGTCCTTATGAACTTC
CTGTTCACCATGCTGCGGGAAGAGGGTGGCTTTGAGTATAAGCGCGCTATCGTGGACTGC
ATCATCAGCATCATTGAAGAGAACTCAGAGAGCAAGGAGACAGGGCTGTCACATCTGTGC
GAGTTCATCGAGGACTGCGAGTTCACAGTGCTGGCCACCCGTATTCTACATCTCCTGGGC
CAGGAGGGGCCCAAGACCACCAATCCCTCAAAGTACATCCGCTTCATCTATAACCGAGTG
GTCTTGGAGCATGAGGAGGTCCGGGCAGGTGCTGTGAGTGCTCTGGCGAAGTTTGGAGCC
CAGAATGAAGAGATGTTACCCAGTATCTTGGTGTTGCTGAAGAGGTGTGTGATGGATGAT
GACAATGAAGTAAGGGACCGAGCCACCTTCTACCTAAATGTCCTGGAGCAGAAGCAGAAG
GCCCTTAATGCAGGCTATATCCTAAATGGTCTGACTGTGTCCATCCCTGGTCTGGAGAGG
GCTCTGCAGCAGTACACTCTAGAACCATCAGAAAAACCTTTTGACCTCAAGTCTGTGCCC
CTGGCCACGGCGCCCATGGCAGAGCAGAGAACAGAAAGTACCCCCATCACAGCAGTCAAA
CAGCCTGAGAAAGTGGCAGCTACCAGGCAGGAGATCTTCCAGGAGCAGTTGGCAGCAGTG
CCAGAGTTCCGCGGTCTTGGGCCCCTCTTCAAGTCCTCGCCTGAGCCCGTGGCCCTCACC
GAGTCAGAGACGGAGTATGTCATCCGCTGCACCAAACACACCTTCACCAACCACATGGTT
TTTCAGTTTGACTGCACAAACACACTCAATGACCAGACCTTGGAGAATGTCACAGTGCAG
ATGGAGCCCACTGAGGCCTATGAGGTGCTCTGTTACGTGCCTGCCCGGAGCCTGCCCTAC
AACCAGCCCGGGACCTGCTACACACTGGTGGCACTGCCCAAAGAAGACCCCACAGCTGTG
GCCTGCACATTCAGCTGCATGATGAAGTTCACTGTCAAGGACTGTGATCCCACCACTGGG
GAGACTGATGACGAAGGCTATGAGGATGAGTATGTGCTGGAAGATCTGGAAGTTACTGTA
GCTGATCACATTCAAAAGGTCATGAAACTGAACTTCGAAGCAGCCTGGGATGAGGTAGGG
GATGAATTTGAGAAGGAGGAAACGTTCACCTTGTCTACCATCAAGACACTTGAAGAGGCT
GTGGGTAATATTGTGAAGTTCTTGGGAATGCACCCTTGTGAGAGGTCAGACAAAGTGCCG
GATAACAAGAACACCCACACGTTGCTCCTGGCTGGTGTGTTCCGGGGTGGTCATGACATC
CTGGTGCGCTCCCGGCTGCTGCTTTTGGACACAGTGACAATGCAGGTGACAGCCAGAAGT
TTGGAGGAGCTGCCAGTAGACATCATCTTGGCATCTGTGGGATAA

Clone variation with respect to NM_016128.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016128 unedited
NTGTTCGAATTTTGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGCGTT
GCTGCATTGCGCCCCACCGACTCCACTATGTTGAAGAAATTCGACAAGAAGGATGAGGAG
TCAGGTGGAGGCTCCAACCCATTCCAGCACCTTGAGAAGAGTGCGGTACTCCAGGAGGCC
CGTGTATTTAATGAAACTCCCATCAACCCTCGGAAATGTGCCCACATCCTCACCAAGATT
CTTTATCTCATAAACCAGGGGGAGCACCTGGGGACCACGGAAGCGACCGAGGCCTTCTTT
GCCATGACCAAGCTCTTTCAGTCCAATGATCCCACACTCCGTCGGATGTGCTACTTGACC
ATCAAGGAGATGTCTTGCATTGCAGAGGATGTCATCATTGTCACCAGCAGCCTAACAAAA
GACATGACTGGGAAAGAAGACAACTACCGGGGCCCGGCCGTGCGAGCCCTCTGCCAGATC
ACTGATAGCACCATGCTGCAGGCTATTGAGCGCTACATGAAACAAGCCATTGTGGACAAG
GTGCCCAGTGTCTCCAGCTCTGCCCTCGTGTCTTCCTTGCACCTGCTGAAGTGCAGCTTT
GACGTGGTCAAGCGCTGGGTGAATGAGGCTCAGGAGGCAGCATCCAGTGATAACATCATG
GTCCAGTACCACGCACTAGGGCTCCTGTACCATGTGCGTAAGAATGACCGCCTAGCCGTC
AATAAGATGATCAGCAAGGTCACACGGCATGGCCTTAAGTCTCCCTTTGCCTACTGCATG
ATGATCCGGGTGGCCAGCAAGCAGCTGGAAGAGGAGGATGGCAGCCGTGACAGCCCACTG
TTTGACTTCATCGAGAGCTGCTTGCGCAACAGCACGAGATGGTGGTGTATGAAGCCGNNC
TCGCCATCGTCAATCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016128 unedited
TTGGACCGGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCATAAATACATG
CTGATTTATTACAGGGATAAGATGGTTTCTTGGGGGATAGATTCAAGAGGAGTTGAGAAT
GTTTTATTCATTTACAATGTCCCTTTCCTGGAAGGGTGGACAGCAAGATTTAGGACAAGC
TAAAATCATCCCCTATTTAAAAAAAAAAAAAAAAAAAGTCACCAGCAAGTATTCCCGGGT
GGGAGGTGGGAGCAGAATAAAAAAAAATCTGCAATGATTCCTAATTGTTTTTCAATACAG
AAGCTTGGGAAGGGGTTTCTGCCAGTTTCATGAGGAAGGCACAACTTCCAGGTAGTGTTG
GGGAAGGGTATGAGGTCCTATGCAGGCTGGCCTCTTATCCCACAGATGCCAAGATGATGT
CTACTGGCAGCTCCTCCAAACTTCTGGCTGTCACCTGCATTGTCACTGTGTCCAAAAGCA
GCAGCCGGGAGCGCACCAGGATGTCATGACCACCCCGGAACACACCAGCCAGGAGCAACG
TGTGGGTGTTCTTGTTATCCGGCACTTTGTCTGACCTCTACAAGGGTGCATTCCCAAGAA
CTTCACAATATTACCCACAGCCTCTTCAAGTGTCTTGATGGTAGACAAGGTGAACGTTTC
CTCCTTCTCAAATTCATCCCCTACCTCATCCCAGGCTGCTTCGAAGTTCAGTTTCATGAC
CTTTTGAATGTGATCAGCTACAGTAACTTNCAGATCTTCCAGCACATACTCATCCTCATA
GCCTTCGTCATCAGTCTCCCCAGTGGTGGGATCACAGTCCTTGACAGTGAACTTCATCAT
GCAGCTGAATGTGCAGGCCACAGCTGTGGGGGTCTTCTTTGGGCANTGCCACAGTGTGTA
NCAGGTCCCGGNNCTGGTGTAGG

Restriction Sites: NotI-NotI

ACCN: NM_016128

Insert Size: 3180 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_016128.3, NP_057212.1
RefSeq Size:	3114 bp
RefSeq ORF:	2625 bp
Locus ID:	22820
UniProt ID:	Q9Y678
Cytogenetics:	3q21.3
Domains:	Adaptin_N
Protein Families:	Druggable Genome
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]