

Product datasheet for **MC205439**

Copg1 (NM_017477) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Copg1 (NM_017477) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Copg1
Synonyms:	AU019265; BC056168; Copg; D6Ertd71e; D6Wsu16e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC024686
 GCAGGGAGAAGCTGTTCTCACCGCTACTCTGAGCATCTTCTGCTGCGTGGAGCTACCGCTGACACCATG
 TTGAAGAAATTCGACAAGAAGGACGAGGAGTCTGGTGGAGGCTCCAACCCCTCCAGCACCTGGAGAAGA
 GTGCCGTACTCCAAGAGGCTCGGGTCTTTAACGAACTCCCATCAATCCCGGAAATGTGCCACATCCT
 CACCAAGATCCTTTATCTCATAAACAGGGGAGCACCTGGGGACCACGGAAGCAACTGAGGCTTTCTTT
 GCCATGACCAAGCTCTCCAGTCCAATGATCCCACACTCCGCCGATGTGCTATTTGACCATCAAGGAGA
 TGTCTGTCATCGCTGAGGATGTCACTATTGTGACGAGCAGCCTGACAAAAGACATGACTGGGAAAGAGGA
 TAATTACCGCGTCTGCTGTCCGTGCCCTCTGCCAGATCACTGACAGCACCATGCTGCAGGCTGTTGAA
 CGCTACATGAAACAAGCAATTGTGGACAAGGTTCCAGTGTCTCCAGCTCCGCCCTCGTGTCTTCCCTGC
 ACCTGCTGAAATGCAGCTTCGATGTGGTCAAGCGCTGGTGAACGAGGCCAGGAGGCTGCGTCCAGTGA
 CAACATCATGGTCCAGTACCATGCCCTAGGACTTCTGTACCATGTGCGGAAGAATGACCGACTAGCCGTG
 AGTAAGATGATCAGTAAGTTCACCCGGCACGGCTCAAGTCCCCCTTTGCCTACTGCATGATGATCCGAG
 TGGCCAGCAAGCAACTAGAGGAAGAAGACGGCAGCCGTGACAGCCCGCTGTTTGACTTCATCGAGAGCTG
 CCTGCGTAACAAGCATGAGATGGTGGTGTATGAAGCTGCCTCAGCCATTGTCAACCTGCCAGGCTGCAGT
 GCCAAAGAGCTGGCCCTGCTGTGTGAGTGTCCAGCTTTTCTGTAGCTACCCAAGGCTGCACTTCGCT
 ATGCTGCTGTGCGCACCTCAATAAGGTGGCTATGAAGCACCCCTCAGCGGTGACTGCCTGCAATCTAGA
 TCTGGA AACCTGGTTACAGACTCAAACAGGAGCATCGCCACATTGGCCATCACCACCCTGCTCAAGACA
 GGGAGCGAGAGCAGCATTGACCGCCTTATGAAGCAGATTTCTCCTTCATGTCCGAGATCTCAGATGAGT
 TCAAGGTGGTGGTGTCCAGGCCATCAGTGCCTGTGCCAGAAGTATCCTCGAAAGCATGCTGTGCTCAT
 GAACCTCCTGTTACCATGCTAAGGGAAGAGGGTGGCTTTGAGTACAAGCGTGCCATTGTGGACTGCATC
 ATCAGCATCATCGAGGAGAACTCAGAGAGCAAGGAGACAGGATTGTCACACCTGTGCGAGTTCATTGAGG
 ACTGCGAGTTCAGTGTGCTGGCCACCCGCATCCTGCACCTGTTGGGCCAGGAGGGGCCAAAGACCAACAA
 CCCTTCCAAGTACATTCGCTTTATCTACAACCGTGTGGTCTGGAGCATGAAGAAGTTCGGGCAGGTGCA
 GTAAGTGTCTGCGCCAAGTTGGAGCTCAGAACGAAGAGATGTTGCCATAGTATCTTGGTGTGCTGAAGA
 GGTGTGTGATGGACGACGACAATGAAGTGAAGACAGAGCCACCTTCTATCTGAACGTTCTGGAACAGAA
 GCAGAAGGCTCTCAACGCAGGTTACATCCTAAATGGTCTGACCGTGTCCATCCCTGGTCTGGAGAAAGCC
 CTGCAGCAGTACACGCTTGAACCATCAGAGAAGCCATTTGACCTCAAGTCTGTGCCTCTGGCCACCACAC
 CTATGGCAGAGCAGAGACCAGAAAGCACCCGCCACCGCAGCAGTCAAACAGCCGGAGAAGGTAGCAGCCAC
 ACGGCAGGAGATTTTCCAAGAGCAGCTAGCAGCGGTGCCTGAGTCCAGGGACTAGGGCCTCTCTTCAAG
 TCCTCTCCTGAGCCAGTGGCCCTCACCGAGTCCGAGACAGAGTACGTATCCGTTGCACCAACACACCT
 TCTCTGATCACTTGGTGTTCAGTTTGACTGCACAAACACCTCAATGACCAGACTCTGGAGAATGTCAC
 AGTGCAGATGGAGCCACTGAGGCATACGAAGTCTCTCGTATGTGCCTGCGCGGAGCTTGCCTACAAC
 CAGCCTGGGACCTGCTACACACTAGTGGCTCTGCCACTGAAGACCCACAGCTGTGGCATGCAGTTCA
 GCTGTGTGATGAAGTTCAGTGTAAAGACTGTGATCCCAACACAGGAGAAATCGATGAAGAAGGCTATGA
 GGATGAGTATGTGCTGGAGGATCTGGAAGTTACTGTGGCTGATCACATCCAAAAGTAAATGAAAAGTGAAC
 TTTGAGGCAGCCTGGGATGAGGTGCGGGATGAATTTGAGAAGGAGGAAACGTTACCCTGTCTACTATCA
 AGACACTCGAAGAGGCTGTGGGCAATATTGTGAAGTTCCTGGGAATGCATCCTTGTGAGAGGTGAGACAA
 AGTGCCAGAAAACAAGAACCCACACGCTGCTGCTAGCTGGAGTGTCCGGGGTGGTATGACATCCTT
 GTGCGTTCTCGGCTTCTGCTTTTGGACACAGTGCAGATGCAGGTGACAGCCAGAAGCTCAGAGGAGCTGC
 CAGTAGATATCATCTTGGCATCCGTGGCTAGAGGTGGCCTAAGCCCACTCCTATCTTGTCCAACACTA
 CGTCAAGCCACTTCTCCCTGTGAAGCCGGTGGAAACCTTCCCGACAGCCAGTGTAAAGAAACAATC
 AAGAGTCAATACAGATTTTTTTTTAATTCATCCTATCATTAGGAATGCTAGGGTAGATTTTGTACCA
 TGCTGCAAGGAGAGACAATGAATAAAATGTTGAGACTTCTCTTAATATTTTACTCAAAAAAAAAAAAA AAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_017477
Insert Size: 2625 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:	<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:	BC024686 , AAH24686
RefSeq Size:	2945 bp
RefSeq ORF:	2625 bp
Locus ID:	54161
UniProt ID:	Q9QZE5
Cytogenetics:	6 39.13 cM
Gene Summary:	<p>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). 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. [UniProtKB/Swiss-Prot Function]</p>