

Product datasheet for **RN208493**

Copg1 (NM_001031822) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Copg1 (NM_001031822) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Copg1
Synonyms:	Copg
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN208493 representing NM_001031822
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGAAGAAATTCGACAAGAAGGACGAGGAGTCTGGTGGAGGTTCCAACCCCTCCAGCACCTGGAGA
 AGAGTGCAGTACTCCAAGAGGCTCGGGTCTTTAACGAACTCCTATCAACCCCGGAAATGTGCCACAT
 CCTCACCAAGATCCTTTACCTCATAAACACGAGGGGAGCACCTGGGGACCACAGAAGCAACTGAGGCTTTC
 TTTGCCATGACCAAGCTCTTTCAGTCCAATGATCCACACTCCGCCGAATGTGCTACTTGACCATCAAGG
 AGATGCTCTGCATCGCTGAGGATGTCACTATTGTGACGAGCAGCCTGACAAAAGACATGACTGGGAAAGA
 GGATAATTACCGTGGTCTGCTGCTCCGTGCCCTCTGCCAGATCACTGATAGCACCATGCTGCAGGCCGTT
 GAGCGCTACATGAAACAAGCGATTGTGGACAAGGTGCCAGTGTCTCCAGCTCCGCCCTCGTGTCTTCCC
 TGCACCTGCTGAAATGCAGCTTCGATGTGGTCAAGCGCTGGGTGAACGAGGCCAGGAAGCGGCATCCAG
 TGATAACATCATGGTGCAGTACCATGCCCTGGGACTTCTGTACCATGTGCGGAAGAAATGACCGCCTGGCT
 GTGAGTAAAGATGATCAGTAAGTTCACCCGGCACGGCCTGAAGTCCCCCTTCGCCTACTGCATGATGATCC
 GAGTGGCCAGCAAGCAACTAGAAGAAGAAGACGGAAGCCGTGACAGCCCGCTGTTTGACTTCATTGAGAG
 CTGCCTGCGTAACAAGCATGAGATGGTGGTGTATGAAGCTGCCTCAGCCATTGTCAAACCTGCCAGGCTGC
 AGTGCCAAAGAGCTGGCTCCTGCCGTGTGAGTGTCCAGCTTTTCTGTAGCTCTCCCAAGGCTGCTCTTC
 GCTATGCTGCTGTGCGCACTCTCAATAAGGTGGCCATGAAGCACCATCAGCCGTGACTGCCTGCAATCT
 AGATCTGAAAACCTGGTACAGACTCGAACCGTAGCATCGCCACTTTGGCCATCACCACACTCCTCAAG
 ACAGGGAGCGAGAGCAGCATTGACCGCCTATGAAGCAGATTTCTTCTCATGTGCGAGATCTCAGATG
 AGTTCAAGGTGGTGGTTGTCCAGGCCATCAGCGCCCTGTGCCAGAAGTATCCCCGAAAGCATCTGCTGCT
 CATGAACCTCCTGTTACCCATGCTACGGGAAGAGGGTGGCTTTGAGTACAAGCGTGCCATCGTGGACTGC
 ATCATCAGCATCATTGAGGAGAAGTACAGAGCAAGGAGACAGGGTTGTACACCTGTGCGAGTTTATCG
 AGGACTGCGAGTTCAGTGTGCTGCCACCCGCATCCTGCACCTGTTGGGCCAGGAGGGGCCAAAGACCAA
 CAACCCCTCCAAGTACATTGCTTTATCTACAACCGTGTGGTCTTGGAGCACGAAGAGTTTCGGGCAGGT
 GCAGTGTGCTCTGGCCAAGTTGGAGCCAGAACAAGAGATGCTGCCAGCATCTTGGTGTGCTGA
 AGAGGTGTGTGATGGACGACGACAATGAAGTGAAGACAGAGCCACCTTCTATCTGAACGTTCTAGAGCA
 GAAGCAGAAGGCTCTCAATGCAGGTTACATCCTAAACGGTCTGACCGTGTCCATCCCTGGACTGGAGAAA
 GCCCTACAGCAGTATACACTAGAACCATCAGAAAAGCCATTTGACCTCAAGTCTGTGCCCTCTGGCCACA
 CACCTATGACAGAGCAGAGACCAGAAAAGCACCTCCACTGCAGCAGTCAAACAGCCAGAGAAGGTGGCAGC
 CACACGGCAGGAGATATCCAGGAGCAGTTAGCAGCGGTGCCAGAGTTCAGGGGCTAGGGCCCTCTTC
 AAGTCTCTCCTGAGCCGGTGGCCCTCACCGAGTACAGAGACCGAGTATGTCATCCGTTGCACCAAACACA
 CCTTCTCTGACCACTTGGTGTCCAGTTTACTGACACAAACCCCTCAATGACCAGACTCTGGAGAATGT
 CACAGTGCAAATGGAACCCACTGAGGCATATGAAGTGTCTCTTATGTGCTGTGCGAAGCTTGCCTAC
 AACCAGCTGGGACCTGTACACTAGTGGCTCTGCCAAGGAAGACCCACAGCTGTGGCATGCACAT
 TCAGCTGTGTGATGAAGTTCAGTGTAAAGACTGTGACCCCAACTGGAGAAAATCGATGAAGAAGGCTA
 TGAGGATGAGTATGTGCTGGAGGATCTAGAAGTTACTGTAGCTGATCACATCCAGAAAAGTCAAGAAAGT
 AACTTTGAAGCAGCTGGGATGAGGTGGGAGATGAGTTTGAGAAGGAGGAAACATTACCCCTGTCTACTA
 TCAAAAACACTTGAAGAGGCTGTGGCAATATTGTGAAGTTTTTGGGAATGCATCCTTGTGAAGGTGAGA
 CAAAGTGCAGAAAAAAGAACAAGCACTCACACGCTGCTGCTAGTGGAGTGTCCGGGGTGGTTCATGACATC
 CTTGTGCGTTCCCGGCTTCTGCTTTTGGACACAGTGACAAATGCAGGTGACAGCCAGAAGCTCAGAGGAGC
 TGCCAGTAGATATCATCTTGGCTGTGGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001031822

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:	<u>NM_001031822.3</u> , <u>NP_001026992.1</u>
RefSeq Size:	2625 bp
RefSeq ORF:	2625 bp
Locus ID:	297428
UniProt ID:	<u>Q4AEF8</u>
Cytogenetics:	4q34
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. 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]</p>