

Product datasheet for **MR211034**

Copg1 (NM_017477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Copg1 (NM_017477) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Copg1
Synonyms:	AU019265; BC056168; Copg; D6Ertd71e; D6Wsu16e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR211034 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTGAAGAAATTCGACAAGAAGGACGAGGAGTCTGGTGGAGGCTCCAACCCCTCCAGCACCTGGAGA
AGAGTGCCGTA CTCCAAGAGGCTCGGGTCTTTAACGAACTCCCATCAATCCCGGAAATGTGCTCACAT
CCTCACCAAGATCCTTTATCTCATAAACACGAGGGGAGCACCTGGGGACCACGGAAGCAACTGAGGCTTTC
TTTGCCATGACCAAGCTCTTCCAGTCCAATGATCCACACTCCGCCGCATGTGCTATTTGACCATCAAGG
AGATGTCCTGCATCGCTGAGGATGTCACTATTGTGACAAGCAGCCTGACAAAAGACATGACTGGGAAAGA
GGATAATTACCGCGTCTGCTGTCCGTGCCCTCTGCCAGATCACTGACAGCACCATGCTGCAGGCTGTT
GAACGCTACATGAAACAAGCAATTGTGGACAAGGTTCCAGTGTCTCCAGCTCCGCCCTCGTGTCTTCCC
TGCACCTGCTGAAATGCAGCTTCGATGTGGTCAAGCGCTGGGTGAACGAGGCCAGGAGGCGGCTCCAG
TGACAACATCATGGTCCAGTACCATGCCCTAGGACTTCTGTACCATGTGCGGAAGATGACCGACTGGCC
GTGAGTAAAGATGATCAGTAAGTTCACCCGGCACGGCTCAAGTCCCCCTTTGCTACTGCATGATGATCC
GAGTGGCCAGCAAGCAACTAGAGGAAGAAGACGGCAGCCGTGACAGCCCGCTGTTTGACTTCATCGAGAG
CTGCCTGCGTAACAAGCATGAGATGGTGGTGTATGAAGCTGCCTCAGCCATTGTCAAACCTGCCAGGCTGC
AGTGCCAAAGAGCTGGCCCTGCTGTGTGCTGCTCCAGCTTTTCTGTAGCTCACCAAGGCTGCACTTC
GCTATGCTGCTGTGCGCACCCCTCAATAAGGTGGCTATGAAGCACCTTCAGCGGTGACTGCCTGCAATCT
AGATCTGGAACCTGGTTACAGACTCAAACAGGAGCATCGCCACATTGGCCATCACACCTGCTCAAG
ACAGGGAGCGAGAGCAGCATTGACCGCTTATGAAGCAGATTTCTCCTTCATGTGCGAGATCTCAGATG
AGTTCAAGGTGGTGGTTGTCCAGGCCATCAGTCCCTGTGCCAGAAGTATCCTCGAAAGCATCTGCTGCT
CATGAACCTCCTGTTACCCATGCTAAGGGAAGAGGGTGGCTTTGAGTACAAGCGTGCCATTGTGGACTGC
ATCATCAGCATCATCGAGGAGAAGTCAAGAGCAAGGAGACAGGATTGTACACCTGTGCGAGTTTATTG
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CAACCCCTCCAAGTACATTGCTTTATCTACAACCGTGTGGTCTTGAGCATGAAGAAGTTCGGGAGGT
GCAGTAAGTGCTCTGGCCAAGTTGGAGCTCAGAACGAAGAGATGTTGCCTAGTATCTTGGTGTGCTGA
AGAGGTGTGTGATGGACGACGACAATGAAGTGAGAGACAGAGCCACCTTCTATCTGAACGTTCTGGAACA
GAAGCAGAAGGCTCTCAACGCAGGTTACATCCTAAATGGTCTGACCGTGTCCATCCCTGGTCTGGAGAAA
GCCCTGCAGCAGTACACACTCGAACCATCAGAGAAGCCATTTGACCTCAAGTCTGTGCCCTCTGGCCACCA
CGCCTATGGCAGAGCAGAGACCAGAAAGCACCGCCACCGCAGCAGTCAAACAGCCGGAGAAGGTAGCAGC
CACACGGCAGGAGATTTCCAAGAGCAGCTAGCAGCGGTGCCGTGAGTTCAGGGACTAGGGCCTCTCTTC
AAGTCTCTCCTGAGCCAGTGGCCCTCACAGAGTCCGAGACCGAGTATGTCATCCGTTGCACCAAACACA
CCTTCTCTGATCACTTGGTGTCCAGTTTACTGACACAAACCCCTCAATGACCAGACTCTGGAGAATGT
CACAGTGCAGATGGAGCCACTGAGGCATACGAAGTGTCTCTGTATGTGCTGCGCGGAGCTTGCCTAC
AACCAGCTGGGACCTGCTACACACTAGTGGCTCTGCCACTGAAGACCCACAGCTGTGGCATGCACGT
TCAGCTGTGTGATGAAGTTCAGTGTAAAGGACTGTGATCCCAACACAGGAGAAAATCGATGAAGAAGGCTA
TGAGGATGAGTATGTGCTGGAGGATCTGGAAGTTACTGTGGCTGATCACATCCAAAAGTCATGAAAGT
AACTTTGAGGCAGCCTGGGATGAGGTTGGGGATGAATTTGAGAAGGAGGAAACGTTACCCCTGTCTACTA
TCAAGACTCGAAGAGGCTGTGGCAATATTGTGAAGTCTCGGAATGCCTCCTTGTGAGAGGTGAGA
CAAAGTGCAGAAAAAAGAACCCACACGCTGCTGCTAGCTGGAGTATTCGGGGTGGTTCATGACATC
CTTGTGCGTTCTCGGCTTCTGCTTTTGGACACAGTACAGTGCAGGTGACAGCCAGAAGCTCAGAGGAGC
TGCCAGTAGATATCATCTTGGCATCCGTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211034 protein sequence
 Red=Cloning site Green=Tags(s)

MLKKFDKDEESGGGSNPLQHLEKSAVLQEARVFNETPINPRKCAHILTKILYLINQGEHLGTTEATEAF
 FAMTKLFQSNPDLRRMICYLTIKEMSCIAEDVIVTSSLTKDMTGKEDNYRGPVAVRALCQITDSTMLQAV
 ERYMKQAIVDKVPVSSSSALVSSLHLLKCSFDVVKRWVNEAQEAASDNIMVQYHALGLLYHVRKNDRLA
 VSKMISKFTRHGLKSPFAYCMMIRVASKQLEEDGSRDSPLDFDIESCLRKNHEMVVYEAASAIVNLPGC
 SAKELAPAVSVLQLFCSSPKAALRYAAVRTLNKVMKHPASAVTACNLLENLVTDSNRSIATLAITLLK
 TGSESSIDRLMKQISSFMSEISDEFKVVVVQAIASALCQKYPRKHAVLMNFLTMLREEGGFEYKRAIVDC
 IISIIEENSEKETGLSHLCEFIEDCEFTVLATRILHLLGQEGPKTNNPSKYIRFIYNRVLEHEEVVAG
 AVSALAKFGAQNEEMLPSILVLLKRCVMDDNEVRDRATFYLVNLEQKQKALNAGYILNGLTVSIPGLEK
 ALQYQYTLPESEKPFDLKSVPLATTPMAEQRPESTATAAVKQPEKVAATRQEIFQEQLAAVPEFQGLGPLF
 KSSPEPVALTESETEYVIRCTKHTFSDHLVFQDCTNTLNDQTLNENTVQMEPTEAYEVL SYVPARSLPY
 NQPGTCYTLVALPTEDPTAVACTFCVMKFTVKDCDPNTGEIDEEGYEDEVVLEDELTVDADHIQKVMKV
 NFEAAWDEVGDEFEKEETFLLSTIKTLEEAVGNIVKFLGMPPCERSDKVPENKNTHTLLLAGVFRGGHDI
 LVRSRLLLLDTVTMQVTARSSEELPVDIILASVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

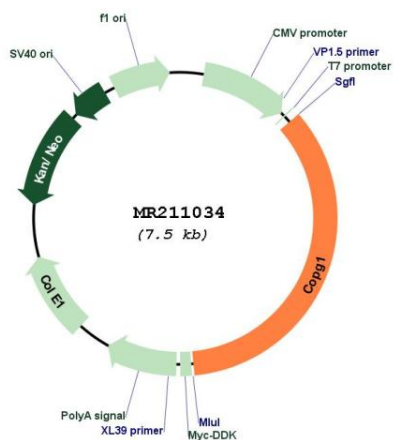
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_017477
ORF Size:	2625 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).
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:	NM_017477.1 , NM_017477.2 , NP_059505.1
RefSeq Size:	4014 bp
RefSeq ORF:	2625 bp
Locus ID:	54161
UniProt ID:	Q9QZE5
Cytogenetics:	6 39.13 cM
MW:	97.5 kDa
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>

Product images:



Circular map for MR211034