

Product datasheet for **MR211294**

Copb1 (NM_033370) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Copb1 (NM_033370) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Copb1 |
| Synonyms: | 2610019B04Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>MR211294 representing NM_033370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGCAGCCGAGAACGTGTGCTATACGTTAATTAACGTGCCAATGGATTGAGAACCCCTTCGGAAA
 TCAGCTTAAAAAATGACCTGGAGAAAGGCGATGTGAAGTCAAAGACTGAACTTTGAAGAAAGTGATCAT
 TATGATTCTGAATGGGAAAAGCTTCCCGACTCCTGATGACAATCATTGCTTCGTGCTGCCTCTTCAG
 GATCACACCATCAAAAAGTTGCTCCTGGTCTTCTGGGAGATTGTTCTAAAACAACTCCAGATGGAAGGC
 TCTTACATGAAATGATTCTGTGTGTGATGCATACAGAAAGGATCTCCAGCACCCCAATGAGTTTATTCG
 TGGATCTACTCTTCGTTTCTTTGCAAATTAAGGAAGCAGAATTGCTGGAACCTTTAATGCCTGCTATC
 CGTGCCTGCTTGAACATCGTCACAGCTATGTTAGGAGAAATGCTGTTTTGGCCATCTATACCATCTACA
 GAAATTTTGAACATCTTACCTGATGCTCCTGAACTGATACATGATTTTCTGTGAATGAGAAGGATGC
 AAGCTGCAAAAGAAATGCATTTATGATGCTAATTCACGCAGATCAGGATCGAGCTTTGGATTATTTAAGT
 ACATGTATTGATCAAGTTCAGACATTTGGAGACATTCTACAGTTGGTTATTGTTGAACTAATTTATAAGG
 TCTGTCATGCTAATCCATCAGAAAGGGCCCGCTTCATTGCTGTATCTATAACTTACTGCAGTCACTAG
 TCCTGCTGTAATAATGAGGCTGCTGGGACACTGGTAACACTGTCAAGTGCACCAACTGCAATAAAGGCT
 GCTGCTCAGTGTTACATTGATTTAATTATTAAGGAGAGTGATAACAATGTAAGCTCATCGCTCGGACC
 GCTTGGTGGAAATTAAGAGCATCCTGCTCATGAACGAGTCTGCAGGATCTGGTCATGGACATCCTAAG
 AGTACTGAGTACGCCAGACTTAGAAGTGCCTAAGAAAACGCTGCAGTTAGCACTGGATCTGTCTCATCT
 AGGAATGTTGAAGAGTTGGTTATTGTCTTAAAGAAGGAAGTAATTAACAATAAATGTGTCTGAGCATG
 AAGACTGACAAATACCGACAGCTTCTCGTGCAGAACACTGCATTCCTGCTGTCCGATTCCAGATAT
 GGCTGCAAAATGTTATTCCTGTGTTAATGGAATTTCTCAGTGACAGTAATGAAGCAGCAGCTGCTGATGTC
 TTAGAGTTTGTTCGTGAAGCCATTCAGCGCTTTGACAACCTGAGAATGCTGATTGTTGAGAAGATGCTGG
 AAGTCTTCCATGCTATTAAGTCTGTCAAGATTTACCGAGGAGCATTGTGGATCCTGGGAGAGTACTGCAG
 TACAAAGGAAGACATTCAGAGTGTGATGACTGAGTCCGCGAGTCCCTTGGGAGATACCAATTGTAGAA
 TCAGAAATAAAGAAAGAGCTGGCGAGTTAAAACCAGAAGAAGAAATAACTGTTGGGCCCGTTCAGAAAT
 TGGTTACGGAGATGGGCACCTATGCTACTCAGAGTGCCTCAGCAGTCCAGACCTACCAAGAAAGAAGA
 AGACAGACCACCCTTGAGAGGGTTCCTCCTGGATGGAGATTTCTTTGTTGCTGCTCCCTCGCCACAAC
 CTAAACCAAGATTGCATTGCGCTATGTAGCGTTGGTTTCCAGGAGAAGAAAAGCAAAATTTCTTTGTTGCTG
 AGGCTATGTTGCTTATGGCAACTATCCTTCATTTGGGAAAATCCTCTCTTCTTAAGAAGCCAATTAAGTGA
 TGATGATGTAGATCGAATTTCCCTGTGCCTCAAGGCTTATCTGAATGCTCACCTTTAATGAATGACATC
 TTTAATAAGGAGTGCAGACAGTCTTTTCCCAATGTTATCTGCCAAACTCGAAGAAGAGAAACTATCCC
 AGAAGAAAGAAATCTGAAAAGAGAAATGTGACAGTACAGCCTGTGACCCCATTTCTTTCATGCAACTAAC
 TGCGAAGAATGAAATGAACTGCAAGGAAGATCAGTTCAGCTGAGTTTGTGGCAGCAATGGGTAATACT
 CAGAGGAAAGAGGCGAGCTGATCCCCTAGCATCCAACTTAACAAGGCTCACTCAGTTGACAGGCTTCTCGG
 ATCCAGTGTATGCAGAAGCCTATGTTTATGTCAATCAGTACGACATCGTCTGGATGTTCTGGTTGTAAA
 CCAAAACAGTGATACTTTGCAGAACTGCACATTAGAGTTAGCCACTTAGGGGATCTGAAACTTGTGGAA
 AAACCATCTCCTTTGACTCTTGCTCCTCATGACTTTGCAAAATTTAAAGCTAATGTCAAGGTAGCATCAA
 CAGAAAACGGAATAATTTTGGCAATATAGTTTATGATGTTTCTGGAGCAGCAAGTGCAGAAAAGTGTG
 GGTCTCAGTGACATCCACATTGACATCATGGACTATATCCAGCCTGCAACTTGCAGTGTGCTGAGTTC
 CGTCAGATGTGGGCCGAATTTGAATGGGAAAATAAAGTGACAGTTAACACCAACATGACTGACCTGAATG
 ACTACTTACAGCACATCCTCAAGTCGACCAACATGAAGTGCCTGACTCCAGAGAAGGCCCTTTCTGGATA
 CTGTGGCTTTATGGCAGCAATCTTTATGCACGTTCTATTTGGAGAGGATGCACTTGCAAAATGTCAGC
 ATTGAGAAGCCAGTTCACCAGGGACCAGATGCTGCCGTTACTGGCCATATAAGAATTCGTGCAAAAAGTC
 AGGGAATGGCCTTGAGCCTTGAGATAAAAATCAACCTGTCTCAAAGAAGACTAGTCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211294 representing NM_033370
 Red=Cloning site Green=Tags(s)

MTAAENVCYTLINVPMDSEPPSEISLKNLDEKGDVKSKEALKKVIIMILNGEKLPGLLMTIIRFVLPLO
 DHTIKKLLLVFWEIVPKTTPDGRLLHEMILVCDAYRKDLQHPNEFIRGSTLRFLCKLKEAELLEPLMPAI
 RACLEHRHSYVRRNAVLAIYTIYRNFEHLIPDAPELIHDFLVNEKDASCKRNAFMMLIHADQDRALDYL
 TCIDQVQTFGDILQLVIVELIYKVCANPSEARAFIRCIYNLLQSSSPAVKYEAAGTLVTLSSAPTAIKA
 AAQCYIDLIIKESDNNVKLIVLDRLVELKEHPAHERVLQDLVMDILRVLSTPDLEVRKKTLLALDLVSS
 RNVEELVIVLKKEVIKTNVSEHEDTDKYRQLLVRTLHSCSVRFPDMAANVIPVLMFLSDSNEAAAADV
 LEFVREAIQRFDNLRMLIVEKMLEVFHAIKSVKIYRGALWILGEYCSTKEDIQSVMTEVRRSLGEIPIVE
 SEIKKEAGELKPEEEITVGPVQKLVTEMGTYATQSALSSSRPTKKEEDRPLRGFLLDGDDFFVAASLATT
 LTKIALRYVALVQEKKKQNSFVAEAMLLMATILHLGKSSLPKKPIITDDDVDRI SLCKVLSECSPLMNDI
 FNKECRQSLSQMLSAKLEEEKLSQKKESEKRNVTVQDDPISFMQLTAKNEMNCKEDQFQLSLLAAMGNT
 QRKEAADPLASKLNKVTQLTGFSDPVYAEAYVHVNOYDVLVLDV VVNQTSDTLQNCTLELATLGDLLKVE
 KPSPPLTAPHDFANIKANVKVASTENGIIFGNIVYDVSGAASDRNCVVLSDIHIDIMDYIQPATCTDAEF
 RQMWAEFEWENKVTVNTNMTDLNDYLQHILKSTNMKCLTPEKALSGYCGFMAANLYARSIFGEDALANVS
 IEKPVHQGPDAAVTGHIRIRAKSQGMALSLGDKINLSQKKTSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033370

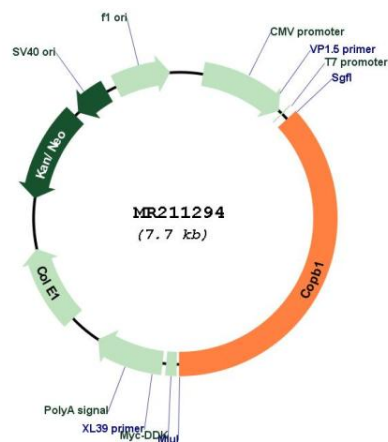
ORF Size: 2859 bp

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|-------------------------------|---|
| 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_033370.3 , NP_203534.1 |
| RefSeq Size: | 3315 bp |
| RefSeq ORF: | 2862 bp |
| Locus ID: | 70349 |
| UniProt ID: | Q9JIF7 |
| Cytogenetics: | 7 59.31 cM |
| MW: | 107.5 kDa |

Gene Summary:

The coatamer 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. Coatamer 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 coatamer 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. Involved in the Golgi disassembly and reassembly processes during cell cycle. Involved in autophagy by playing a role in early endosome function. Plays a role in organellar compartmentalization of secretory compartments including endoplasmic reticulum (ER)-Golgi intermediate compartment (ERGIC), Golgi, trans-Golgi network (TGN) and recycling endosomes, and in biosynthetic transport of CAV1 (By similarity). Plays a functional role in facilitating the transport of kappa-type opioid receptor mRNAs into axons and enhances translation of these proteins in cortical neurons. 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]

Product images:



Circular map for MR211294