

Product datasheet for **MC222788**

Copb1 (NM_033370) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF:

>MC222788 representing NM_033370
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGCAGCCGAGAACGTGTGCTATACGTTAATTAACGTGCCAATGGATTGAGAACCCCTTCGGAAA
 TCAGCTTAAAAAATGACCTGGAGAAAGGCGATGTGAAGTCAAAGACTGAACTTTGAAGAAAGTGATCAT
 TATGATTCTGAATGGGAAAAGCTTCCCGACTCCTGATGACAATCATTGCTTCGTGCTGCCTCTTCAG
 GATCACACCATCAAAAAGTTGCTCCTGGTCTTCTGGGAGATTGTTCTAAAACAACTCCAGATGGAAGGC
 TCTTACATGAAATGATTCTGTGTGTGATGCATACAGAAAGGATCTCCAGCACCCCAATGAGTTTATTCG
 TGGATCTACTCTTCGTTTCTTTGCAAATTAAGGAAGCAGAATTGCTGGAACCTTTAATGCCTGCTATC
 CGTGCCTGCTTGAACATCGTCACAGCTATGTTAGGAGAAATGCTGTTTTGGCCATCTATACCATCTACA
 GAAATTTTGAACATCTTACCTGATGCTCCTGAACTGATACATGATTTTCTTGTGAATGAGAAGGATGC
 AAGCTGCAAAAGAAATGCATTTATGATGCTAATTCACGCAGATCAGGATCGAGCTTTGGATTATTTAAGT
 ACATGTATTGATCAAGTTCAGACATTTGGAGACATTCTACAGTTGGTTATTGTTGAACTAATTTATAAGG
 TCTGTCATGCTAATCCATCAGAAAGGGCCCGCTTCATTGCTGTATCTATAAATTAAGTGCAGTCACTAG
 TCCTGCTGTAATAATGAGGCTGCTGGGACACTGGTAACACTGTCAAGTGACCAACTGCAATAAAGGCT
 GCTGCTCAGTGTTACATTGATTTAATTATTAAGGAGAGTGATAACAATGTAAGCTCATCGCTCGGACC
 GCTTGGTGGAAATTAAGAGCATCCTGCTCATGAACGAGTCTGCAGGATCTGGTCATGGACATCCTAAG
 AGTACTGAGTACGCCAGACTTAGAAGTGCCTAAGAAAACGCTGCAGTTAGCACTGGATCTTGTCTCATCT
 AGGAATGTTGAAGAGTTGGTTATTGTCTTAAAGAAGGAAGTAATTAACAATAAATGTGTCTGAGCATG
 AAGCACTGACAAATACCGACAGCTTCTCGTGCAACACTGCATTCCTGCTGTGCCGATTTCCAGATAT
 GGCTGCAAAATGTTATTCCTGTGTTAATGGAATTTCTCAGTGACAGTAATGAAGCAGCAGCTGCTGATGTC
 TTAGAGTTTGTTCGTGAAGCCATTCAGCGCTTTGACAACCTGAGAATGCTGATTGTTGAGAAGATGCTGG
 AAGTCTTCCATGCTATTAAGTCTGTCAAGATTTACCGAGGAGCATTGTGGATCCTGGGAGAGTACTGCAG
 TACAAAGGAAGACATTCAGAGTGTGATGACTGAGTCCGCAGGTCCTTGGGAGATACCAATTGTAGAA
 TCAGAAATAAAGAAAGAGCTGGCGAGTTAAAACCAGAAGAAGAAATAACTGTTGGGCCCGTTCAGAAAT
 TGGTTACGGAGATGGGCACCTATGCTACTCAGAGTGCCTCAGCAGTCCAGACCTACCAAGAAAGAAGA
 AGACAGACCACCCTTGAGAGGGTTCCTCCTGGATGGAGATTTCTTTGTTGCTGCTCCCTCGCCACAAC
 CTAACCAAGATTGCATTGCGCTATGTAGCGTTGGTTTCCAGGAGAAGAAAAGCAAAATTTCTTTGTTGCTG
 AGGCTATGTTGCTTATGGCAACTATCCTTCATTTGGGAAAATCCTCTCTTCTTAAGAAGCCAATTAAGTGA
 TGATGATGTAGATCGAATTTCCCTGTGCCTCAAGGCTTATCTGAATGCTCACCTTTAATGAATGACATC
 TTTAATAAGGAGTGCAGACAGTCTTTTCCAAATGTTATCTGCCAAACTCGAAGAAGAGAAACTATCCC
 AGAAGAAAGAAATCTGAAAAGAGAAATGTGACAGTACAGCCTGTGACCCCATTTCTTATGCAACTAAC
 TGCGAAGAATGAAATGAACTGCAAGGAAGATCAGTTCCAGCTGAGTTTGTGGCAGCAATGGGTAATACT
 CAGAGGAAAGAGGCGAGCTGATCCCCTAGCATCCAACTTAACAAGGCTCACTCAGTTGACAGGCTTCTCGG
 ATCCAGTGTATGCAGAAGCCTATGTTTATGTCAATCAGTACGACATCGTCTGGATGTTCTGGTTGTAAA
 CCAAACCAAGTACTTTGCAGAACTGCACATTAGAGTTAGCCACTTAGGGGATCTGAAACTTGTGGAA
 AAACCATCTCCTTTGACTCTTGCTCCTCATGACTTTGCAAAATTTAAAGCTAATGTCAAGGTAGCATCAA
 CAGAAAACGGAATAATTTTGGCAATATAGTTTATGATGTTTCTGGAGCAGCAAGTGCAGAAAAGTGTG
 GGTCTCAGTGACATCCACATTGACATCATGGACTATATCCAGCCTGCAACTTGCAGTGTGCTGAGTTC
 CGTCAGATGTGGGCCGAATTTGAATGGGAAAATAAAGTGACAGTTAACACCAACATGACTGACCTGAATG
 ACTACTTACAGCACATCCTCAAGTCGACCAACATGAAGTGCCTGACTCCAGAGAAGGCCCTTTCTGGATA
 CTGTGGCTTTATGGCAGCAATCTTTATGCACGTTCTATTTGGAGAGGATGCAGTTGCAAAATGTCAGC
 ATTGAGAAGCCAGTTCACCAGGGACCAGATGCTGCCGTTACTGGCCATATAAGAATTCGTGCAAAAAGTC
 AGGGAATGGCCTTGAGCCTTGAGATAAAATCAACCTGTCTCAAAGAAGACTAGTCTA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:	NM_033370
Insert Size:	2862 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:	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
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. 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]</p>