

## Product datasheet for **MC205628**

### Copb2 (NM\_015827) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Copb2 (NM_015827) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Copb2
Synonyms:	A1256832
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC006675  
 GTCCACGGGTCGGTGGGTTCTGAGTGTGTGCGCCTTGAGCCTGTGACGGGCAGGGGCTCGCTCGGACAGT  
 CGGAGCCATGCCTCTTCGACTTGACATCAAGAGAAAGCTGACTGCTAGGTCTGACCGAGTTAAGAGCGTG  
 GATTTGCATCCCACAGAGCCATGGATGTTGGCTAGTCTTTACAATGGCAGTGTGTGTGTTTGAATCATG  
 AAACCTCAGACACTGGTGAAGACGTTTGAAGTATGTGATCTTCTGTTTCGAGCTGCAAAGTTTGTGCGAAG  
 GAAGAACTGGGTGGTGACAGGAGCAGACGATATGCAGATCAGAGTGTTCATTATAACACCCTGGAGAGG  
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 AAAAAGGCGTGAATTGCATTGACTACTACAGTGGTGGTGACAAGCCATACCTCATTTTCAGGTGCAGATGA  
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 CCAAGCACATCTTCTGGTCTGACTCTGGAGAGCTGGTCTGTATCGCCACCGAGGAGTCAATTTTTATTCT  
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 TGGCGGATAAAGTCCCTCCCTACCATCCCCAAAAGAACAGAGGACCAGAGTGCACACTTTTTGAAAAACA  
 GGGCTTCAAGCAGCAAGCACTTACAGTATCCACAGATCCTGAACATCGTTTTGAGCTTGCTTCAACTT  
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 GGCAAAAAGGCTTTAGCCCTCAAGACCCACAGCCAGCAGGAACCTGATGAAAACCTGCTTCTAGCCCA  
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 ACTTGAATTAGAGGATATTGACACAACAGACATTAATCTGGATGAAGATATTCTGGATGATTAAGTTT  
 GCCATTTACTGCAGTAAGAGATTATATGGCATTTCAAATCAATCACCATCCTGACCAGAACTTTGGAA  
 ATCCTTGATTTGCATATGTAACAAGGGGGAACATAGCCACTTCATCTTCAGGAGTTGATGGGCAGCGTT  
 TAAGTTACTATGTTCTCCTTGGTAACTGAAACAGAAAACCTGCTTTTTTTCATATTGTTACTAGATCACCC  
 GTCATAAAATCTTTGAATTAGTAAAAAAGAAA A

Restriction Sites: RsrII-NotI  
 ACCN: NM\_015827  
 Insert Size: 2718 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC006675</a> , <a href="#">AAH06675</a>
<b>RefSeq Size:</b>	3081 bp
<b>RefSeq ORF:</b>	2718 bp
<b>Locus ID:</b>	50797
<b>UniProt ID:</b>	<a href="#">O55029</a>
<b>Cytogenetics:</b>	9 E3.3
<b>Gene Summary:</b>	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).[UniProtKB/Swiss-Prot Function]