

Product datasheet for SC117165

COPB2 (NM_004766) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COPB2 (NM_004766) Human Untagged Clone
Tag:	Tag Free
Symbol:	COPB2
Synonyms:	beta'-COP; MCPH19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004766 edited
 GAATTCGGCACGAGGGTCAGTGGATCGGTGGGTTTATCTCAAGGCCTGAGTAGCCGGTAA
 CAAACGAGGGTTCCCGGATTGGACCGACGAGCCATGCCTCTGGACTTGATATCAAAA
 GAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGTGTGGATCTGCATCCTACAGAGCCAT
 GGATGTTGGCAAGTCTTTACAATGGCAGTGTGTGTGTTTGAATCATGAAACACAGACAC
 TGGTGAAGACATTTGAAGTATGTGATCTTCTGTTCGAGCTGCAAAGTTTGTGCAAGGA
 AGAATTGGGTTGTGACAGGAGCGGATGACATGCAGATTAGAGTGTTCATTACAATACTC
 TGGAGAGAGTTTCATATGTTTGAAGCACACTCAGACTACATTTCGCTGTATTGCTGTTTCATC
 CAACCCAGCCTTTCATTCTAACTAGCAGTATGACATGCTTATTAAGCTCTGGGACTGGG
 ATAAAAATGGTCTTGTCTACAAGTGTGTTGAAGGACACACCCATTATGTTATGCAGATTG
 TGATCAACCCAAAGATAACAATCAGTTTCCAGTGCCTCTTTGGACAGGACTATCAAGG
 TGTGGCAGTTGGGCTCTTCGTCACCAAACCTTCACTTTGGAAGGACATGAGAAAGGCGTGA
 ATTGCATTGATTACTACAGTGGTGGGACAAGCCATACCTCATTTCAGGTGCAGATGACC
 GTCTTGTAAAATATGGGATTATCAGAATAAAACATGTGTGCAGACACTGGAAGGACATG
 CCCAAAATGTGTCTTGTGCCAGCTTTCATCCTGAGTTGCCAATCATTATCACAGGTTTCAG
 AAGATGGAACAGTACGTATTTGGCATTCAAGCACCTACCGGCTTGAGAGCACACTGAATT
 ATGGAATGGAGAGGGTATGGTGGTGGCCAGTCTAAGAGGGTCAAACAATGTCGCTTTGG
 GCTATGATGAAGGAGCATCATTGTTAAGCTTGGTGGGGAACCTGCCATGTCATGG
 ATGCCAATGAAAAGATAATTTGGGCAAGCATTGAGAAGTCCAGCAGGCCAACCTAAAAG
 CAATGGGAGATGCTGAAAATTAAGATGGTGAAGATTGCCACTGGCAGTAAAGGATATGG
 GCAGTTGTGAAATATACCTCAGACTATTCAGCAACAATCCTAATGGGCGGTTTGTGGTGG
 TGTGTGGTGTGAGGAGTATATCATCTACACAGCAATGGCATTGAGAAACAAGAGCTTTG
 GATCTGCTCAGGAGTTTGCATGGGCCACGATTCTTCAGAGTATGCAATAAGAGAGAGCA
 ACAGCATTGTAAGATATTTAAGAACTTTAAGGAAAAAATCATTTAAACCAGATTTTG
 GAGCAGAAAGTATCTACGGCGGCTTCTTATTGGGAGTCAAGTCTGTAATGGCTTAGCCT
 TCTATGACTGGGACAATACAGAACTCATACGAAGAATTGAAATTCAGCCCAAACATATTT
 TCTGGTCTGACTCTGGAGAGCTAGTCTGTATTGCTACTGAGGAATCATTTTTTATCCTTA



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AGTATCTGTCAGAAAAAGTCTTGGCTGCACAGGAAACACATGAGGGAGTTACTGAAGATG
 GCATTGAAGATGCCTTTGAGGTTCTTGGTGAGATTGAGGAAATTGTGAAAAACAGGGCTTT
 GGGTAGGCGATTGCTTCAATTTACACAAGTTCTGTGAACAGATTAATTTATGTTGGAG
 GAGAAATAGTCACCATTGCCACTTGGACAGGACGATGTATCTCCTAGGCTACATTCCTA
 AAGACAACAGGCTTTATCTGGGGGATAAAGAATTGAACATCATTAGCTATTCCTGCTGG
 TTTCACTCCTGGAATACCAGACAGCTGTCATGCGGAGGGACTTTAGCATGGCTGATAAGG
 TCCTTCCCTACCATTCCAAAAGAACAGAGACCAGAGTTGCACACTTTTTGGAAAAAGCAGG
 GCTTCAAGCAGCAAGCTTTACAGTATCCACAGATCCTGAGCATCGTTTTGAGCTTGCTC
 TTCAGCTTGGAGAGTTAAAAATTGCATACCAGTTAGCAGTGGAAGCAGAGTCAGAACAGA
 AGTGAAAACAACTTGCTGAACTTGCCATTAGTAAATGTCAGTTTGGCCTAGCCAGGAGT
 GCCTGCATCATGCACAGGATTATGGGGCCTGCTGCTTTTGGCCACTGCCTCTGGAATG
 CTAATATGGTGAACAAGCTAGCAGAGGGTGCAGAGAGAGATGGCAAAAAAATGTGGCAT
 TCATGAGTACTTTTTACAGGGCAAGGTTGATGCCTGCCTAGAGCTCTTAATTAGAAGT
 GACGGCTGCCAGAAGCTGCCTTCTGGCCGAAGTACTTACCCAGTCAGTTTCAAGGG
 TAGTGAAGTCTGAGAGAGAATCTCTAAAAGTCAATCAGAAAGCAGCAGAATCCCTTG
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 AATGGGTGAAGGAAACACATGCTGATCTGTGGCCAGCCAAACAATACCCACTTGTACGC
 CAAATGAAGAGAGAAATGTCATGGAAGAGGGAAAAAGACTTTCAGCCCTCAAGATCTACAG
 CTCAACAGGAACTTGATGGGAAACCTGCTTCTCCTACTCCGGTTATTGTGGCCTCCACAC
 CAGCCAAACAAGAAGAAAAGAGTTTACTCGAACTAGAAGTAGATTTGGATAATTTGGAAT
 TAGAAGATATTGACACAACAGATATCAATCTGGATGAAGATATTTGGATGATTGACTGT
 AATGCTTCCATTTACCTGACTAAACAGATCATTATTATATATAGGTATTGATTGCTACC
 CTGACCAGTGCCTTGGACTATGAGAACTTCTTAGATTTTTATGTAAATGCTGTGG
 ACCACTGGGAGCACAATGCCACATCATCTTAAGAAGAGTTTATGTGCAGCATTAAATC
 ACTGTGTTTTCTTGTAACTAAAAACAGACATGGGCTTTGATTTTTTTCATACTATTAGA
 CCATATCTCATAAAACCTTTTGAATTAATGAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004766 unedited
 ATACGACTCACTATAGNNGCGCGCCGNAATTCGGCACGAGGGTCAGTGGATCGGTGGG
 TTTATCTCAAGGCCTGAGTAGCCGGTAACAAACGAGGGTTCCCGGATTGGACCGACGCA
 GCCATGCCTCTGCGACTTGATATCAAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAG
 AGTGTGGATCTGCATCCTACAGAGCCATGGATGTTGGCAAGTCTTTACAATGGCAGTGTG
 TGTGTTTGAATCATGAAACACAGACACTGGTGAAGACATTTGAAGTATGTGATCTTCT
 GTTCGAGCTGCAAAGTTTGTGCAAGGAAGAATTGGGTTGTGACAGGAGCGGATGACATG
 CAGATTAGAGTGTCAATTACAATACTCTGGAGAGAGTTCATATGTTTGAAGCACACTCA
 GACTACATTTCGCTGTATTGCTGTTCAATCCACCCAGCCTTTCATTCTAACTAGCAGTGT
 GACATGCTTATTAAGCTCTGGACTGGGATAAAAAATGGTCTTGCTCACAAGTGTGAA
 GGACACACCCATTATGTTATGCAGATTGTGATCAACCCAAAGATAACAATCAGTTTGCC
 AGTGCCTTTTGGACAGGACTATCAAGGTGTGGCAGTTGGGCTCTTCGTCACCAAACCTC
 ACTTTGGAAGGACATGAGAAAGGCGTGAATTGCATTGATTACTACAGTGGTGGGACAAG
 CCATACCTCATTTAGGTGCAGATGACCGTCTTTGTTAAATATGGGATTATCAGAATANA
 ACATGTGTGCAGACACTGGAAGGACATGCCAAAATGTGCTTGGCGCAGCTTTCATCCT
 GAGTTGCCAATCATATCACAGTTTCAAGAAGTGGACAGTACGATTTGCATTTCAGCACCT
 ACCGGCTGAGAGCACACTGATATGNATGGANAGGTATGTGCGTCCAGCTAAAGTTCAAC
 ATGTCGCTTGGCTTGATGAGGACTCATGTAGCTGT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004766 unedited NCCTTCTGNACCCGGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTCATTAATT CAAAGGTTTTATGAGATATGGTCTAATAGTATGAAAAATCAAAGCCCATGTCTGTTTTA GTTAAACAAGGAAAAACACAGTGATTTAAATGCTGCACATAAACTCTTCTTAAGATGATGTG GGCATTGTGCTCCAGTGGTCCACAGCATTACATATAAAAATCTAAGAAGTTTCTCATA GTCCAAAGCACTGTGGTCAGGGTAGCAATCAATACCTATATATAATAATGATCTGTTTAG TCAGGTAATGGAAAGCATTACAGTCAATCATCCAAAATATCTTCATCCAGATTGATATC TGTTGTGTCAATATCTTCTAATTCCAAATTATCCAAATCTACTTCTAGTTCGAGTAACT CTTTTCTCTTTGTTGGCTGTGTGGGAGGCCACAATAACCGGAGTAGGAGAAGCAGGTTT CCCATCAAGTTCTGTTGAGCTGTAGATCTTGAGGGCTGAAAGTCTTTTCCCTCTCCAT GACATTTCTCTTCATTTGGCGTGACAAGTGGGTATTGTTTGGCTGGCCACAGATCAGC ATGTGTTTCTTACCCATTCTTCAACAACAAAGGCTCTTTAATCCAGGGAACAGGTT TTCATACTCTGTTGGTCCAGCAAGGGATTCTGCTGCTTTCTGATTGACTTTTGAGAGATT CTCTCTCCAGATTTCACTACCTTGAACCTGACTGGGTAAGTAAAGTCGGGCCAAGAA GCAGTCTTGGCAGCCGTCAGTTCTATTAAGAGCTCTNAGCAGGCATCAACCTTGCCCT GTAAAAGTAGCTCATGAATGCCACATTNATTTGCCATCTCTCCGNACCCTCTGCTAG CTTGTCCACATATTAGCATTTCCANAGGCAGTGGCCAAAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_004766
Insert Size:	3000 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_004766.1 , NP_004757.1
RefSeq Size:	3067 bp
RefSeq ORF:	2721 bp
Locus ID:	9276
UniProt ID:	P35606
Cytogenetics:	3q23
Domains:	WD40, Coatomer_WDAD
Protein Families:	Druggable Genome

Gene Summary:

The Golgi coatomer complex (see MIM 601924) constitutes the coat of nonclathrin-coated vesicles and is essential for Golgi budding and vesicular trafficking. It consists of 7 protein subunits, including COPB2.[supplied by OMIM, Jul 2002]

Transcript Variant: This variant (1) uses an alternate splice donor site in the first coding exon and is predicted to encode a protein.