

Product datasheet for **RC201789**

COPB2 (NM_004766) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | COPB2 (NM_004766) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | COPB2 |
| Synonyms: | beta'-COP; MCPH19 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>RC201789 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCCTCTGCGACTTGATATCAAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGTGTGGATCTGC
ATCCTACAGAGCCATGGATGTTGGCAAGTCTTTACAATGGCAGTGTGTGTTTGGAAATCATGAAACACA
GACACTGGTGAAGACATTTGAAGTATGTGATCTTCTGTTTCGAGCTGCAAAGTTTGTGCAAGGAAGAAT
TGGGTTGTGACAGGAGCGGATGACATGCAGATTAGAGTGTTCATTACAATACTCTGGAGAGAGTTCATA
TGTTTGAAGCACACTCAGACTACATTGCTGTATTGCTGTTTCACCAACCCAGCCTTTCATTCTAACTAG
CAGTGATGACATGCTTATTAAGCTCTGGGACTGGGATAAAAAATGGTCTTGCTCACAAGTGTGAAAGGA
CACACCCATTATGTTATGCAGATTGTGATCAACCCCAAAGATAACAATCAGTTTGCCAGTGCCTCTTTGG
ACAGGACTATCAAGGTGTGGCAGTTGGGCTCTTCGTACCAAACCTCAGTTTGAAGGACATGAGAAAGG
CGTGAATTGCATTGATTACTACAGTGGTGGGACAAGCCATACCTCATTTCAGGTGCAGATGACCGTCTT
GTAAAAATATGGGATTATCAGAATAAAACATGTGTGCAGACACTGGAAGGACATGCCAAAAATGTGTCTT
GTGCCAGCTTTCATCCTGAGTTGCCAATCATTATCACAGGTTTCAAGAGTGAAGACAGTACGTATTTGGCA
TTCAAGCACCTACCGCTTGAGAGCACACTGAATTATGGAATGGAGAGGGTATGGTGCCTGGCCAGTCTA
AGAGGGTCAAACAATGTCGCTTTGGGCTATGATGAAGGGAGCATCATTGTTAAGCTTGGTCCGGGAGGAAC
CTGCCATGTCCATGGATGCCAATGGAAAGATAATTTGGGCCAAGCATTGAGAAGTCCAGCAGGCCAACCT
AAAAGCAATGGGAGATGCTGAAATTAAGATGGTGAAGATTGCCACTGGCAGTAAAGGATATGGGCAGT
TGTGAAATATACCTCAGACTATTCAGCACAATCCTAATGGGCGGTTTGGTGGTGTGTGGTGTGGGG
AGTATATCATCTACACAGCAATGGCATTGAGAAACAAGAGCTTTGGATCTGCTCAGGAGTTTGCATGGGC
CCACGATTCCTCAGAGTATGCAATAAGAGAGAGCAACAGCATTGTAAGATATTTAAGAACTTTAAGGAA
AAAAAATCATTTAAACCAGATTTTGGAGCAGAAAGTATCTACGGCGGCTTCTTATTGGGAGTCAGATCTG
TAAATGGCTTAGCCTTCTATGACTGGGACAATACAGAACTCATACGAAGAATTGAAATTCAGCCAAACA
TATTTTCTGGTCTGACTCTGGAGAGCTAGTCTGTATTGCTACTGAGGAATCATTTTTTATCCTTAAGTAT
CTGTCAGAAAAAGTCTTGGCTGCACAGGAAACACATGAGGGAGTACTGAAGATGGCATTGAAGATGCCT
TTGAGGTTCTTGGTGAGATTGAGAAATGTGAAAACAGGGCTTTGGGTAGGCGATTGCTTCATTTACAC
AAGTTCTGTGAACAGATTAATTAATGTTGGAGGAGAATAGTCACCATTGCCACTTGACAGGACG
ATGTATCTCCTAGGCTACATTCCTAAGACAACAGGCTTTATCTGGGGGATAAAGAAATTGAACATCATT
GCTATTCCTGCTGGTTTCAGTCTGGAATACCAGACAGCTGTCATGCGGAGGGACTTTAGCATGGCTGA
TAAGGTCCTTCTACCATTCAAAGAAGACAGAGACCAGAGTTGCACACTTTTTGGAAAAGCAGGGCTTC
AAGCAGCAAGCTCTTACAGTATCCACAGATCCTGAGCATCGTTTTGAGCTTGCTCTTCAGCTTGGAGAGT
TAAAAATTGCATACCAGTTAGCAGTGGAAAGCAGAGTCAGAACAGAAGTGGAAACAACCTTGCTGAACCTGC
CATTAGTAAATGTCAGTTTGGCTAGCCAGGAGTGCCTGCATCATGCACAGGATTATGGGGCCTGCTG
CTTTTGGCCACTGCCTCTGGAATGCTAATATGGTGAACAAGCTAGCAGAGGGTCCGGAGAGAGATGGCA
AAAATAATGTGGCATTGATGAGCTACTTTTACAGGGCAAGTTGATGCCTGCCTAGAGCTCTTAATTAG
AACTGGACGGCTGCCAGAAGCTGCCTTCTTGGCCGAACCTACTTACCCAGTCAGGTTTCAAGGTTAGTG
AAACTCTGGAGAGAGAATCTCTCAAAGTCAATCAGAAAGCAGCAGAAATCCCTTGCTGACCCAACAGAGT
ATGAAAACCTGTTCCCTGGATTAAAAGAAGCCTTTGTTGTTGAAGAATGGTGAAGGAAACACATGCTGA
TCTGTGGCCAGCCAAACAATACCCACTGTGACGCCAAATGAAGAGAGAAATGTCATGGAAGAGGGAAAA
GACTTTACGCCCTCAAGATCTACAGCTCAACAGGAACTTGATGGGAAACCTGCTTCTCCTACTCCGGTTA
TTGTGGCCTCCCACACAGCCAACAAGAAGAAAAGAGTTTACTCGAACTAGAAGTAGATTTGGATAATTT
GGAATTAGAAGATATTGACACAACAGATATCAATCTGGATGAAGATATTTGGATGAT

ACGCGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201789 protein sequence
 Red=Cloning site Green=Tags(s)

MPLRLDIKRKLTARSDRVKSVDLHPTEPWMLASLYNGSVCVWNHETQTLVKTFFVCDLPVRAAKFVARKN
 WVVYTGADDMQIRVFNNTLERVHMFEAHSYIRCI AVHPTQPFILTSDDMLIKLWDWKKWSCSQVFEG
 HTHYVMQIVINPKDNNQFASASLDRTIKVWQLGSSPNFTLEGHEKGVNCIDYSSGGDKPYLISGADRL
 VKIWDYQNKTCVQTLEGHANVSCASFHPELPIIITGSEDTVRIWHSSTYRLESTLNYGMERVVCVASL
 RGSNNVALGYDEGSIIVKLGREEPAMSDANGKIWAKHSEVQQANLKAMGDAEIKDGERLPLAVKDMGS
 CEIYPQTIQHNPNGRFVVVCGDGEYIIYTAMALRNKSFQSAQEFAWAHDSSSEYAIRESNSIVKIFKNFKE
 KKSFKPDFGAESYGGFLLGVRSVNGLAFYDWDNTELIIRRIEIQPKHIFWSDSGELVCIATEESFFILKY
 LSEKVLAAQETHEGVTEDEIADAFEVLGEIQEIVKTGLWVGDCFYITSSVNRLNYYVGGIETIAHLDRT
 MYLLGYIPKDNRLYLGDKELNIIISYLLVSVLEYQTAVMRRDFSMADKVLPTIPKEQRTRVAHFLEKQGF
 KQQUALTVSTDPEHRFELALQLGELKIAYQLAVEAESEQWKQLAELAIKQCFGLAQECLHHAQDYGGLL
 LLATASGNANMVNKLAEGERDGKNNVAFMSYFLQGVDAELLEIRTGRLPEAAFLARTYLPQSQRV
 KLWRENLSKVNQKAAESLADPTEYENLFPGLKEAFVVEEWVKETHADLWPAKQYPLVTPNEERNVMEEGK
 DFQPSRSTAQQELDGKPASPTPVIASHTANKEEKSLLELEVDLNDLELEDITTDINLDEDILDD

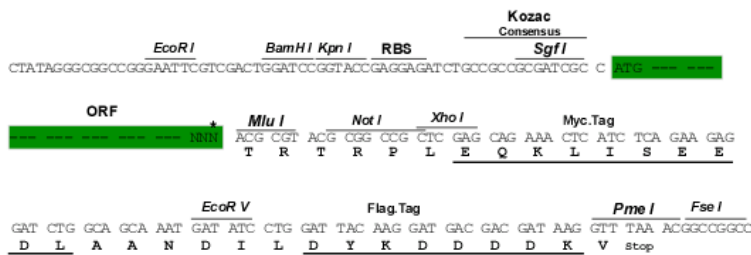
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6156_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

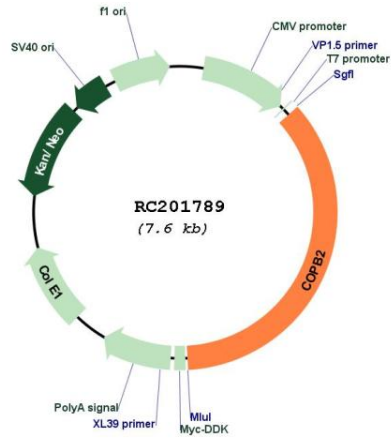


* The last codon before the Stop codon of the ORF

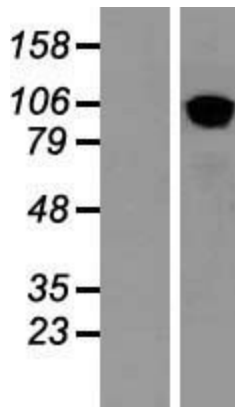
ACCN: NM_004766

| | |
|-------------------------------|---|
| ORF Size: | 2718 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_004766.3 |
| RefSeq Size: | 3142 bp |
| RefSeq ORF: | 2721 bp |
| Locus ID: | 9276 |
| UniProt ID: | P35606 |
| Cytogenetics: | 3q23 |
| Domains: | WD40, Coatomer_WDAD |
| Protein Families: | Druggable Genome |
| MW: | 102.5 kDa |
| 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] |

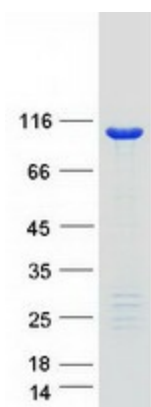
Product images:



Circular map for RC201789



Western blot validation of overexpression lysate (Cat# [LY417762]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201789 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COPB2 protein (Cat# [TP301789]). The protein was produced from HEK293T cells transfected with COPB2 cDNA clone (Cat# RC201789) using MegaTran 2.0 (Cat# [TT210002]).