

Product datasheet for **RR213614**

Copb2 (NM_021765) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Copb2 (NM_021765) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Copb2
Synonyms:	p102; Rack2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR213614 representing NM_021765
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCTTCGACTTGACATCAAGAGAAAGCTAACTGCTATGTCTGATCGGGTTAAGAGTGTGGATTGCG
 ATCCGACTGAGCCATGGATGCTGGCTAGTCTTTACAATGGCAGTGTGTGTTTGGAAATCATGAAACTCA
 GACGCTGGTGAAGACCTTTGAAGTGTGTGATCTCCCTGTTTCGAGCTGCGAAGTTTGTGCGAAGGAAGAAC
 TGGGTGGTACAGGAGCAGATGATATGCAGATTAGAGTGTTCATTATAACACCCCTGGAGAGGGTGCACA
 TGTTTTGAAGCACACTCGGATTACATCCGTTGCATTGCTGTTTATCCACCCAGCCGTTTATTCTCACAAG
 CAGTGATGACATGCTTATTAAGCTCTGGGACTGGGACAAAAAATGGTCTTGTTCACAAGTGTGTTGAAGGA
 CACACGCATTATGTTATGCAGATTGTGATAAACCCCAAAGATAACAATCAGTTTGCCAGTGCATCTCTCG
 ACAGGACCATCAAGGTGTGGCAGCTGGGCTTTCATCACCAAACCTTACGCTGGAGGGACATGAAAAAGG
 CGTGAATTGCATTGATTACTACAGTGGTGGTGTAAAGCCATACCTCATTTTCAGGTGCAGATGACCGGCTC
 GTTAAAAATATGGGATTATCAGAATAAACTTGTGTGCAGACCCCGAGGGACATGCCAGAAATGTGTGAT
 GCGCAACGTTCCATCCTGAGCTGCCATCATCACAGGGTCGGAAGACGGAACGGTGGCAATTTGGCA
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 AGAGGCTCCAACAATGTCGCTCTGGGCTACGATGAAGGGAGCATCATTGTTAAGCTTGGTCGGGAGGAAC
 CTGCCATGTCCATGGATGCCAATGGAAAGATAATCTGGGCCAAGCATTAGAGGTCCAGCAGGCCAACCT
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 AAGAAATCATTTAAACCTGATTTTGGAGCTGAAAGTATCTATGGGGGCTTCTGTGGGAGTCAGGTCTG
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 CATCTTCTGGTCTGACTCTGGAGAGCTGGTCTGTATTGCCACCGAGGAGTCATTTTTTATTCTTAAATAT
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 TTGAGGTTCTTGGTGAATTCAGGAAATGTGAAAACCTGGGCTGTGGGTAGGTGACTGCTTCATCTACAC
 AAGTTCGTGAACAGATTAACCTATTATGTGGGAGCGAGATTGTCACCATTGCCCACTTGACAGGACA
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 TAAGGTGCTCCCTACTATCCCAAAAGAACAGAGGACCAGAGTTGCACACTTTTTGGAAAAGCAGGGCTTC
 AAGCAGCAAGCACTCACAGTATCCACAGATCCTGAACATCGTTTTGAGCTTGCTCTTCAACTTGGGGAGC
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 TGGCCTCCCAACCCTCACAAGAAAGAAAGAGTTTCCAGGAAGTGAAGATGATTTAGATACCATGGA
 ATTAGAGGATATTGATACAACAGACATCAATCTGGATGAAGATATTCTGGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213614 representing NM_021765
 Red=Cloning site Green=Tags(s)

MPLRLDIKRKLTAMSDRVKSVDLHPTPEWMLASLYNGSVCVWNHETQTLVKTFFVCDLPVRAAKFVARKN
 WVVVTGADDMQIRVFNNTLERVHMFEAHSYIRCI AVHPTQPFILTSDDMLIKLWDWKKWSCSQVFEG
 HTHYVMQIVINPKDNNQFASASLDRTIKVWQLGSSPNFTLEGHEKGVNCCIDYSSGGDKPYLISGADRDL
 VKIWDYQNKTCVQTPGHAQNVSCATFHPPELPIIITGSEDGTVRIWHSSTYRLESTLNYGMERVWCVASL
 RGSNNVALGYDEGSIIIVKLGREEPAMSDANGKIWAKHSEVQQANLKAMGDTEIKDGERLPLAVKDMGS
 CEIYPQTIQHNPNGRFVVVCGDGEYIIYTAMALRNKSFSGAQEFAWAHSSEYAIRESNSVVKIFKNFKE
 KKSFKPDFGAESIYGGFLLGVRSVNLAFYDWENTELIRRIEIQPKHIFWSDSGELVCIATEESFFILKY
 LSEKVLAAQETHGVTEDGIEDAFEVLGEIQEIVKTGLWVGDCFYITSSVNRLNYYVGGIIVTIAHLDR
 MYLLGYIPKDNRLYLGDKELNIVSYLLVSVLEYQTAVMRDFSMADKVLPTIPKEQRTRVAHFLEKQGF
 KQQUALTVSTDPEHRFELALQLGELKIAYQLAVEAESEQKWKQLAELAIKQCQFLAQECLHHAQDYGGLL
 LLATASGNASVMNKLAEGERDGKNNVAFMSYFLQGKLDACLELLIRTGRLPEAAFLARTYLPQSQRV
 KLWRENLSKVNQKAAESLADPTEYENLFPGLKEAFVVEEWVKETHADLWPAKQYPLVTPNEERNVMEEAK
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

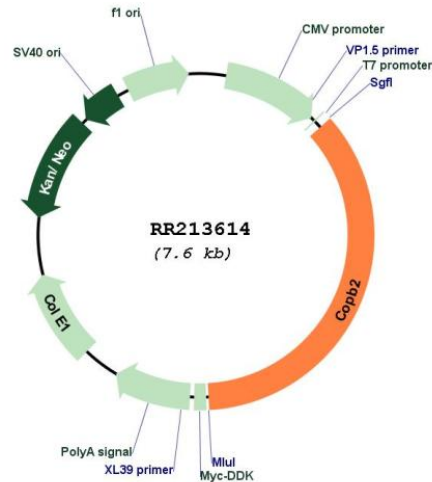
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021765

ORF Size: 2715 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:

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_021765.1](#), [NP_068533.1](#)

RefSeq Size: 3025 bp

RefSeq ORF: 2718 bp

Locus ID: 60384

UniProt ID: [O35142](#)

Cytogenetics: 8q31

MW: 102.6 kDa

Gene Summary: acts as a receptor for activated protein kinase C epsilon; may play a role in vesicle mediated transport [RGD, Feb 2006]