

Product datasheet for **RC224535**

COPE (NM_199442) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COPE (NM_199442) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: COPE
Synonyms: epsilon-COP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC224535 representing NM_199442
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCTCCGGCCCCGGCCCGCCTCCGGCGGCTCCGGGGAGGTAGACGAGCTGTTTCGACGTAAGA
ACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAACGAGGCGCAGCGGGTGAAGCTATCAAGCCCAGA
GAGAGACGTGGAGAGGGACGTCTCCTGTATAGAGCGTACCTGGCGCAGAGGAAGTTCGGTGTGGTCCTG
GATGAGATCAAGCCCTCCTCGCCCTGAGCTCCAGGCCGTGCGCATGTTTGCTGACTACCTCGCCCACG
AGAGTCGGAGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGCCTGGACCTCGCCCGGAAGGA
GCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCCAGCTCGCCACTGCCTGGGTGAGCCTG
GCCACGGGTGGTGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAGTGCTCGCCCA
CCCTGCTGCTGCTCAATGGGCAGGCGGCCCTGCCACATGGCCAGGGCCGCTGGGAGGCCGCTGAGGGCCT
GCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCTGTCCAG
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCCAGCTGAAGGATGCCACAGGTCCCATC
CCTTCATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGTACAGTACGCTCCAGCGC
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224535 representing NM_199442
Red=Cloning site Green=Tags(s)

MAPPAPGPASGGSGVEDELFDVKNFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVL
 DEIKPSSAPELQAVRMFADYLAHESRSTAMTVQILLKLDRLDLARKELKRMQDLDEDATLTLQATAWVSL
 ATGGEKLQDAYYIFQEMADKCSPTLLLLNGQAACHMAQGRWEAAEGLLQEALDKDSGYPETLVNLIIVLSQ
 HLGKPEVTNRYLSQLKDAHRSHPFIEKYQAKENDFDRLVLQYAPSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_199442

ORF Size: 771 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_199442.2](#)

RefSeq Size: 981 bp

RefSeq ORF: 774 bp

Locus ID: 11316

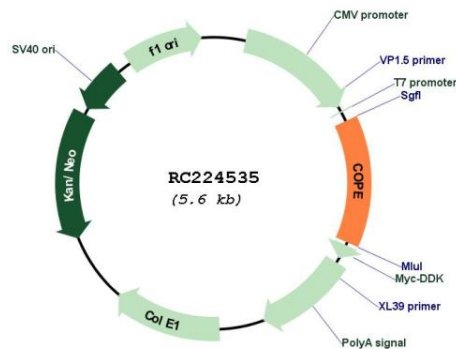
UniProt ID: [O14579](#)

Cytogenetics: 19p13.11

MW: 28.6 kDa

Gene Summary: The product of this gene is an epsilon subunit of coatomer protein complex. Coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles. It is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. Coatomer complex consists of at least the alpha, beta, beta', gamma, delta, epsilon and zeta subunits. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224535