

## Product datasheet for **RG224535**

### COPE (NM\_199442) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COPE (NM_199442) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COPE
Synonyms:	epsilon-COP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224535 representing NM_199442 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTCCGGCCCCGGCCCGCCTCCGGCGGCTCCGGGGAGGTAGACGAGCTGTTTCGACGTAAGA  
ACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAACGAGGCGCAGCGGGTGAAGCTATCAAGCCCAGA  
GAGAGACGTGGAGAGGGACGTCTCCTGTATAGAGCGTACCTGGCGCAGAGGAAGTTCGGTGTGGTCCTG  
GATGAGATCAAGCCCTCCTCGGCCCTGAGCTCCAGGCCGTGCGCATGTTTGCTGACTACCTCGCCCACG  
AGAGTCGGAGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGCCTGGACCTCGCCCAGGAAGGA  
GCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCCAGCTCGCCACTGCCTGGGTGAGCCTG  
GCCACGGGTGGTGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAGTGCTCGCCCA  
CCCTGCTGCTGCTCAATGGGCAGGCGGCCTGCCACATGGCCAGGGCCGCTGGGAGGCCGCTGAGGGCCT  
GCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCTGTCCCAG  
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCCAGCTGAAGGATGCCACAGGTCCCATC  
CCTTCATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGTACAGTACGCTCCCAGCGC  
C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG224535 representing NM\_199442  
Red=Cloning site Green=Tags(s)

MAPPAPGPASGGSGVEDELFDVKNFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVL  
 DEIKPSSAPELQAVRMFADYLAHESRSTAMTVQILLKLDRLDLARKELKRMQDLDEDATLTLQLATAWVSL  
 ATGGEKLDAYYIFQEMADKCSPTLLLLNGQAACHMAQGRWEAAEGLLQEALDKDSGYPETLVNLIIVLSQ  
 HLGKPPVETNRYLSQLKDAHRSHPFIEKYQAKENDFDRLVLQYAPSA

TRTRPLE - GFP Tag - V

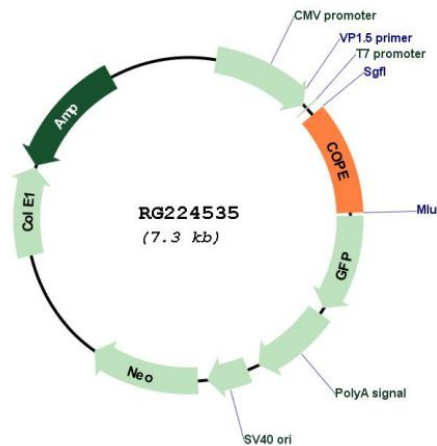
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_199442

**ORF Size:** 771 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_199442.2</a>
<b>RefSeq Size:</b>	981 bp
<b>RefSeq ORF:</b>	774 bp
<b>Locus ID:</b>	11316
<b>UniProt ID:</b>	<a href="#">O14579</a>
<b>Cytogenetics:</b>	19p13.11
<b>Gene Summary:</b>	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]