

## Product datasheet for **SC316290**

### COPA (NM\_001098398) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COPA (NM_001098398) Human Untagged Clone
Tag:	Tag Free
Symbol:	COPA
Synonyms:	AIJJK; alpha-COP; HEP-COP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001098398, the custom clone sequence may differ by one or more nucleotides

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ATGTTAACCAAATTCGAGACCAAGAGCGCGGGTCAAAGGGCTCAGCTTTCACCCCAAAAGACCTTGA  
TCCTGACTAGTTTACATAATGGGGTCATCCAGTTATGGGACTATCGGATGTGCACTCTCATTGACAAGTT  
TGATGAACATGATGGTCCAGTGCAGGCCATTGACTTCCATAAGCAGCAGCCACTGTTCTGCTCTGGAGGA  
GATGACTATAAGATTAAGGTTTGGAAATACAAGCTTCGGCGTGTCTTTTACATTGCTTGGGCACTTAG  
ATTATATTCGCACCACGTTTTTTCATCATGAATATCCCTGGATTCTGAGTGCCTCCGATGATCAGACCAT  
CCGAGTGTGGAAGTGGCAATCTAGAACCTGTGTTGTGTGTTAACAGGGCACAACCATTATGTGATGTG  
GCTCAGTTCACCCACAGAAGACTTGGTAGTATCAGCCAGCCTGGACCAGACTGTGCGGTTTTGGGATA  
TTTCTGGTCTGAGGAAAAAACCTGTCCCTGGTGGGTGGAATCGGATGTGAGAGGAATAACTGGGGT  
TGATCTATTTGGAACACAGATGCAGTGGTGAAGCATGTACTAGAGGGTCACGATCGTGGAGTAACTGG  
GCTGCCTTCCACCCCACTATGCCCTTATTGTATCTGGGGCAGATGATCGTCAAGTGAAGATCTGGCGCA  
TGAATGAATCAAAGGCATGGGAGGTTGATACCTGCCGGGGCCATTACAACAATGTATCTTGTGCCGCTT  
CCACCCCTCGCAAAGATGATCCTCAGCAATCTGAGGACAAGAGTATTCGAGTCTGGGATATGTCTAAG  
CGGACTGGGGTTCAGACTTTCGCGAGAGACCATGATCGTTTCTGGGTCTAGCTGCTCACCTAACCTTA  
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GTCGCTCGAAATCGGTTTGTGCTCCTAGATCGGATGCATTCGCTTCTGATCAAGAATCTGAAGAATGAGA  
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AGATGCGGACTCTATCACACTTTTACGCTACAGCAGAAGCGGACTCTGGCATCTGTGAAGATTTCTAAA  
GTGAAATACGTTATCTGGTCAGCAGACATGTCACATGTAGCACTACTAGCCAAACACGAACACTCATGCC  
CTTTCCTTACAGCCATTGTGATCTGTAACCGCAAACCTGGATGCTTTATGTAACATTCATGAGAACAT
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TCGTGTCAAGAGTGGGGCCTGGGATGAGAGTGGGGTATTTATCTATACCACAAGCAACCACATCAAATAT  
 GCTGTACCACACTGGGGACCACGGGATCATTGAACTCTGGATTTACCCATCTATGTCACACGGGTGAAGG  
 GCAACAATGTATACTGCCTAGACAGGGAGTGTCTGCCCGGTAATCACCATTGATCCCAGTGGTTCAA  
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 GCCTTTATTGACTGTATCCAAGGATTTTTTGAAGGCACCATTGCCAGCAAAGGGGAGGGAGGACTG  
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 AGCTTCCAGTTGATCACATCCTGGCAGGCTCTTTCGAAACAGCCATGCGGCTCCTTCATGACCAAGTAGG  
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 GCTCTGCCCTGCCTACCTCCATGTATGGCTATCCTAATCGCAACTGGAAGGATGCAGGGCTGAAGAATG  
 GTGTACCAGCTGTGGCCCTGAAGCTTAATGACCTCATCCAACGGTTCAGCTGTGCTACCAGCTCACCAC  
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 GACAATAACAAGAGATTGCAGAGGCCAGCAGCTCATCACCATTGCCCCTGAGTACATTGTGGTTTGT  
 CCGTGGAGACAGAAAGGAAGAGCTGCCAAAGAGACTTAGAACAGCAGAAAGCGCATCTGTGAGATGGC  
 AGCCTATTTACCCACTCAAACCTGCAGCCTGTGCACATGATCCTGGTGTGCGTACAGCCCTCAATCTG  
 TTCTTCAAGCTCAAGAACTTCAAGACAGCTGCCACCTTTGCTCGGCGCCTACTAGAACTCGGGCCCAAGC  
 CTGAGGTGGCCCAACAGACCCGAAAAATCCTGTCTGCCTGTGAGAAGAATCCCACAGATGCCTACCAGCT  
 CAATTATGACATGCACAACCCCTTTGACATTTGTGCTGCATCATATCGGCCATCTACCCTGGAAAGCCA  
 GTAGAAAAGTGTCCACTCAGTGGGGCTGCTATCCCCTGAGTTCAAAGGTCAAATCTGCAGGGTACCA  
 CAGTGACAGAGATTGGCAAAGATGTGATTGGTTTAAAGGATCAGTCCTCTGCAGTTTCGTAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001098398

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001098398.1</a> , <a href="#">NP_001091868.1</a>
<b>RefSeq Size:</b>	5666 bp
<b>RefSeq ORF:</b>	3702 bp
<b>Locus ID:</b>	1314
<b>UniProt ID:</b>	<a href="#">P53621</a>
<b>Cytogenetics:</b>	1q23.2
<b>Gene Summary:</b>	<p>In eukaryotic cells, protein transport between the endoplasmic reticulum and Golgi compartments is mediated in part by non-clathrin-coated vesicular coat proteins (COPs). Seven coat proteins have been identified, and they represent subunits of a complex known as coatomer. The subunits are designated alpha-COP, beta-COP, beta-prime-COP, gamma-COP, delta-COP, epsilon-COP, and zeta-COP. The alpha-COP, encoded by COPA, shares high sequence similarity with RET1P, the alpha subunit of the coatomer complex in yeast. Also, the N-terminal 25 amino acids of alpha-COP encode the bioactive peptide, xenin, which stimulates exocrine pancreatic secretion and may act as a gastrointestinal hormone. Alternative splicing results in multiple splice forms encoding distinct isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>