

Product datasheet for **RG224651**

COPE (NM_199444) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COPE (NM_199444) 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: >RG224651 representing NM_199444
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTCCGGCCCCGGCCCGCCTCCGGCGGCTCCGGGGAGGTAGACGAGCTGTTGACGTAAGA
ACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAACGAGGCGCAGCGGGTGAAGCTATCAAGCCCAGA
GAGAGACGTGGAGAGGGACGTCTCCTGTATAGAGCGTACCTGGCGCAGAGGAAGTTCGGTGTGGTCCTG
GATGAGATCAAGCCCTCCTCGGCCCTGAGCTCCAGGCCGTGCGCATGTTTGCTGACTACCTCGCCCAGC
AGAGTCGGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGCGTGGACGTGACCAACAC
CACCTTCCTGCTCATGGCCGCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCCCTGCGTGGCGCTG
CACCAGGGGGACAGCCTGGAGTGACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGCCTGGACC
TCGCCCCGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCCAGCTCGCCACTGC
CTGGGTACGCCTGGCCACGGATAGTGGTACCCAGAGACGCTGGTCAACCTCATCGTCTGTCCCAGCAC
CTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCCAGCTGAAGGATGCCACAGGTCCCATCCCT
TCATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACAGTACGCTCCCAGCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224651 representing NM_199444
Red=Cloning site Green=Tags(s)

MAPPAPGPASGGSGVEDELFDVKNFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVL
 DEIKPSSAPELQAVRMFADYLAHESRRDSIVAEILDREMSRSVDVTNTTFLMAASIYLDQNPDAALRAL
 HQGDSLECTAMTVQILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATDSGYPETLVNLIIVLSQH
 LGKPEVTNRYLSQLKDAHRSHPF IKEYQAKENDFDRLLVLYQAPSA

TRTRPLE - GFP Tag - V

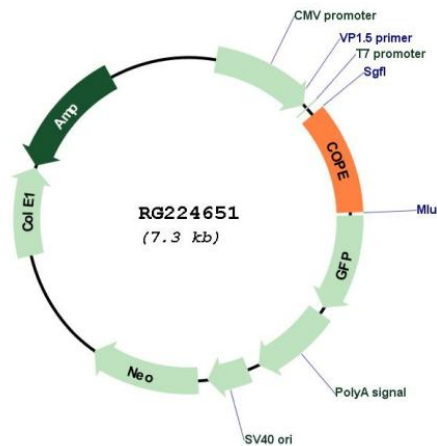
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_199444

ORF Size: 768 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_199444.2
RefSeq Size:	978 bp
RefSeq ORF:	771 bp
Locus ID:	11316
UniProt ID:	O14579
Cytogenetics:	19p13.11
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]