

## Product datasheet for **RG211483**

### **COP1 (RFWD2) (NM\_001001740) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	COP1 (RFWD2) (NM_001001740) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COP1
Synonyms:	CFAP78; FAP78; RFWD2; RNF200
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG211483 representing NM\_001001740  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTCTGGTAGCCGCCAGGCCGGTTCGGGCTCCGCTGGGACAAGCCCCGGTCTCGGCGGCTCCTCGG  
TGACTTCCGCCTCCTCGTCTTTATCCTCTTCCCGTCGCCGCTTCCGTGGCGGTTTCGGCGGCAGCGCT  
GGTGTCCGGCGGGTGGCCAGGCCGGCTCGGGCGGCTCGGGGCCCCGGTGCAGCCTGTGTTGGTG  
GCGCCCGCGTATCGGGTAGCGCGCGGGGGCGGTGTCCACGGGCTGTCCCGGCACAGCTGCGCGGCCA  
GGCCAGCGCGGCGTAGGAGGCAGCAGCTCCAGCCTAGGCAGCGGCAGCAGGAAGCGACCTCTCCTCGC  
CCCCCTGCAACGGGCTCATCACTCTACGAGGACAAAAGCAACGACTTCGTATGCCCATCTGCTTT  
GATATGATTGAAGAAGCATACATGACAAAATGTGGCCACAGCTTTTGTACAAGTGATTCATCAGAGTT  
TGGAGGACAATAATAGATGTCCCAAGTGAACATGTTGTGGACAATATTGACCATCTGTATCCTAATTT  
CTTGGTGAATGAACTCATTCTTAAACAGAAGCAAAGATTTGAGGAAAAGAGGTTCAAATTTGACCACTCA  
AATGGCCACAGGTGGCAGATATTTCAAGATTGGTTGGAACTGACCAAGATAACCTTGATTTGGCCAATG  
TCAATCTTATGTTGGAGTTACTAGTGCAGAAGAAGAAACAACCTGGAAGCAGAATCACATGCAGCCCACT  
ACAGATTTCTTATGGAATTCCTCAAGTTGCAAGAAGAAATAAGAGAGAGGAAATGAGTGGCTTATACTCT  
CCTGTCAGTGAGGATAGCACAGTGCCTCAATTTGAAGCTCCTTCTCCATCACACAGTAGTATTATTGATT  
CCACAGAATACAGCCAACCTCCAGGTTTCAGTGGCAGTTCTCAGACAAAGAAACAGCCTTGGTATAATAG  
CACGTTAGCATCAAGACGAAAACGACTTACTGCTCATTTTGAAGACTTGGAGCAGTGTTACTTTTCTACA  
AGGATGCTCGTATCTCAGATGACAGTCAAGTCAAGCCAGTTGGATGAATTTAGGAAATGCTTGTCCA  
AGTTTACTCGATATAATTCAGTACGACCTTTAGCCACATTGTATGCTAGTGATCTATAATGGTTC  
CAGTATAGTCTCTAGTATTGAATTTGACCGGGATTGTGACTATTTTGCATTGCTGGAGTTACAAAGAAG  
ATTAAGTCTATGAATATGACACTGTATCCAGGATGCAGTGGATATTCATTACCCTGAGAATGAAATGA  
CCTGCAATTCGAAAATCAGCTGTATCAGTTGGAGTAGTTACCATAAGAACCTGTTAGCTAGCAGTGATTA  
TGAAGGCACTGTTATTTTATGGGATGGATTACAGGACAGAGGTCAAAGTCTATCAGGAGCATGAGAAG  
AGGTGTTGGAGTGTGACTTTAATTTGATGGATCCTAACTCTTGGCTTCAGGTTCTGATGATGCAAAAAG  
TGAAGCTGTGGTCTACCAATCTAGACAACCTCAGTGGCAAGCATTGAGGCAAAGGCTAATGTGTGCTGTGT  
TAAATTCAGCCCCTCTCCAGATACCATTTGGCTTTCCGGCTGTGCAGATCACTGTGTCCACTACTATGAT  
CTTCGTAACACTAAACAGCCAATCATGGTATTCAAAGGACACCGTAAAGCAGTCTCTTATGCAAAGTTTG  
TGAGTGGTGAGGAAATTGCTCTGCCTCAACAGACAGTCAGTAAAACCTGTGGAATGTAGGAAACCATTA  
CTGCCTACGTTCTTCAAGGGTCATATCAATGAAAAAACTTTGTAGGCCTGGCTTCCAATGGAGATTAT  
ATAGCTTGTGGAAGTAAAAATACTCTCTACCTGTACTATAAAGGACTTTCTAAGACTTTGTAACTT  
TTAAGTTTGATACAGTCAAAAGTGTCTCGACAAAAGACCGAAAAGAAGATGATACAAATGAATTTGTAG  
TGCTGTGTGCTGGAGGGCACTACCAGATGGGGAGTCCAATGTGCTGATTGCTGCTAACAGTCAGGGTACA  
ATTAAGGTGCTAGAATTGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211483 representing NM\_001001740  
 Red=Cloning site Green=Tags(s)

MSGSRQAGSGSAGTSPGSSAASSVTSASSSLSSSPSPPSVAVSAAALVSGGVAQAAGSGGLGGPVRPVLV  
 APAVSGSGGGAVSTGLSRHSCAARPSAGVGGSSSLGSGSRKRPLLAPLCNGLINSYEDKSNDFVCPICF  
 DMIEEAYMTKCGHSFCYKCIHQSLLEDNNRCPKCNVVDNIDHL YPNFLVNELILKQKQRFEEKRFLDHS  
 NGRHWQIFQDWLGTQDNLDLANVNLMLELLVQKKKQLEAESHAACLQILMEFLKVARRNKREEMSGLYS  
 PVSEDSTVPQFEAPSPSHSSIIDSTEYSQPPGFSGSSQTKKQPWYNSTLASRRKRLTAHFEDLEQCYFST  
 RMSRISDDSRASQLDEFQECLSKFTRYNSVRPLATLSYASDL YNGSSIVSSIEFDRDCDYFAIAGVTKK  
 IKVVEYDVTIQDAVDIHYPENEMT CNSKISCSISWSSYHKNLASSDYEGTVILWDGFTGQRSKVYQEHEK  
 RCWSVDFNMDPKLLASGDDAKVKLWSTNLDNSVASIEAKANVCCVKFSPSSRYHLAFGCADHCVHYD  
 LRNTKQPI MVFKGHRKAVSYAKFVSGEEIVSASTDSQLKLWNVGKPYCLRSFKGHINEKNFVGLASNGDY  
 IACGSENNSLYL YYKGLSKTLL TFKFDTVKSVLDKDRKEDDTNEFVSAVCWRALPDGESNVLIAANSQGT  
 IKVLELV

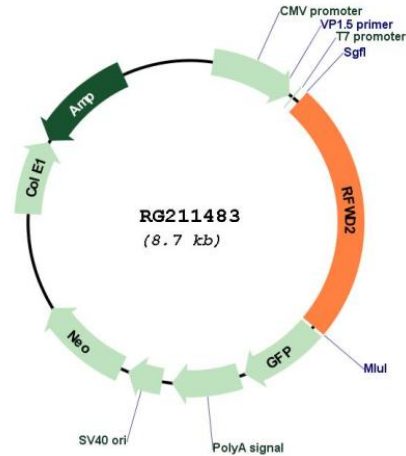
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001001740

**ORF Size:** 2121 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\\_001001740.3](#), [NP\\_001001740.1](#)

**RefSeq Size:** 2729 bp

**RefSeq ORF:** 2124 bp

<b>Locus ID:</b>	64326
<b>UniProt ID:</b>	<a href="#">Q8NHY2</a>
<b>Cytogenetics:</b>	1q25.1-q25.2
<b>Protein Pathways:</b>	p53 signaling pathway, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Involved in JUN ubiquitination and degradation. Directly involved in p53 (TP53) ubiquitination and degradation, thereby abolishing p53-dependent transcription and apoptosis. Ubiquitinates p53 independently of MDM2 or RCHY1. Probably mediates E3 ubiquitin ligase activity by functioning as the essential RING domain subunit of larger E3 complexes. In contrast, it does not constitute the catalytic RING subunit in the DCX DET1-COP1 complex that negatively regulates JUN, the ubiquitin ligase activity being mediated by RBX1. Involved in 14-3-3 protein sigma/SFN ubiquitination and proteasomal degradation, leading to AKT activation and promotion of cell survival. Ubiquitinates MTA1 leading to its proteasomal degradation. Upon binding to TRIB1, ubiquitinates CEBPA, which lacks a canonical COP1-binding motif (Probable).[UniProtKB/Swiss-Prot Function]</p>