

## Product datasheet for **MC221164**

### **Cop1 (NM\_011931) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cop1 (NM_011931) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cop1
Synonyms:	A1316802; C80879; Cop1; Rfwd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

>MC221164 representing NM\_011931  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGGTAGCCGCCAGGCCGGCTCGGGTTCGCTGGGACGAGCCCGGCTCCTCGGCCGCTCCTCGG  
 TGACTTCGCGCTCCTCGTCCTTATCCTCGTCTCGGTCCGCCCGTCCGTGGCGGCCCTCGGCGGCGAGCCT  
 GGTGTCCGGCGCGTGGCTCCGGCCGCGGGCTCCGGCGGCCCTCGGCGGCCCGGGCGGCCTGTGCTGGT  
 GCGGCCGCGGTGTCTGGCAGCGCGAGCGCCGGCGGGGGCGGTGTCCGCGGGCCAGTCCCGGCTCAGCTGCG  
 CGGCCAGGCCAGCGCCGGCTTGGAGGGAGCAGCTCCAGCCTCGGCAGTAGCAGTAGGAAGCGACCTCT  
 GCTCGTCCGCTTTGTAACGGGCTCCTCAACTCCTACGAGGACAAAAGCAACGACTTCGTCTGTCCCATC  
 TGCTTTGATATGATTGAGGAGGCATACATGACAAAATGTGGCCACAGCTTTTGTACAAGTGATTATCATC  
 AGAGTTTGGAGGACAATAATAGATGTCCCAAGTGAATTATGTTGTGGACAATATTGACCATCTCTATCC  
 TAATTTCTTGGTGAATGAACTATTCTCAAACAGAAGCAAAGATTTGAGGAAAAGAGTTCAAATTTGGAC  
 CACTCAGTGAGTAGCACCAATGGGCATAGGTGGCAAATATTTCAAGATCTACTAGGAACTGATCAAGATA  
 ACCTTGATTTGGCCAATGTCAACCTCATGTTGGAATTATTAGTGCAGAAGAAGAAAACACTGGAAGCAGA  
 ATCACATGCAGCTCAGCTACAGATCCTTATGGAATTCCTCAAGTTTGAAGGAGAAATAAGAGAGAGCAA  
 TTGGAGCAGATCCAGAAGGAACTAAGTGTGTTTGGAAAGAGGATATTAAGAGAGTGGAAAGAAATGAGTGGCC  
 TCTACTCTCCTGTGAGTGAAGATAGCACAGTGCCTCAATTTGAAGCTCCTTCTCCATCACACAGTAGCAT  
 TATTGATTCTACAGAATACAGCCAACCTCCAGGTTTCAAGTGGACCTCTCAGACAAAAGAACAGCCTTGG  
 TATAACAGCACATTAGCATCAAGACGAAAGCGACTCACTGCTCATTTTGAAGACTTAGAGCAGTGTATT  
 TTTCTACAAGGATGTCTCGTATCTCAGATGACAGTGAAGTGAAGCCAGTTAGATGAATTTCAAGAAATG  
 CTGTCCAAAGTTTACTCGATACAACCTCAGTAAGACCGTTGGCCACATTGTCTTATGCTAGTGATCTCTAT  
 AATGGTCCAGCATAGTTTCTAGTATTGAGTTTACCAGGATTGTGACTATTTTGAATTGCTGGAGTTA  
 CAAAGAAGATTAAGTCTATGAGTATGGCACAGTCATCCAGGATGCAGTGGATATTCATTACCCTGAGAA  
 TGAAATGACCTGCAATTCAAAAATCAGCTGTATCAGTTGGAGTAGTTACCATAAAGAACCTGCTAGCCAGC  
 AGTGATTATGAAGGCACTGTTATACTATGGGATGGATTACAGGACAGAGGTCAAAGGTCTATCAGGAGC  
 ATGAAAAAAGGTGTTGGAGTGTGACTTAACTGATGGATCCTAACTTCTGGCTTCAAGTTCTGATGA  
 TGCAAAAGTGAAGCTGTGGTCTACCAATTTAGACAATTTCTGTGGCGAGCATTGAGGCAAAGGCTAACGTG  
 TGCTGTGTGAAGTTCAGCCCTCCTCCAGGTACCATCTGGCTTTCCGGCTGTGCAGATCACTGTGTCCACT  
 ACTACGACCTTCGTAACACTAAACAGCCAATAATGGTATTTCAAGGACACCGAAAAGCAGTGTCTTATGC  
 CAAGTTTGTAAAGTGGTGAAGAAATTTGTCTCAGCCTCAACAGACAGCCAACCTAAAGCTGTGGAATGTGGGA  
 AAACCATACTGTCTACGTTCTTCAAGGTCATATTAATGAAAAAACTTTGTAGGCCTTGCTTCCAATG  
 GAGATTATATAGCGTGTGGAAGTGAACAACCTCCCTCTACCTGTATTATAAAGGACTTTCTAAAACCTT  
 GCTAACTTTTAAGTTTGATACCGTTAAGAGTGTATTAGACAAAGATCGGAAAGAAGATGACACAAATGAA  
 TTTGTGAGTGTGTGTTGGCGGGCACTATCAGACGGGGAGTCCAATGTGCTGATTGCTGCTAACAGCC  
 AGGTTACAATTAAGGTGCTAGAATTGGTA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_011931

**Insert Size:**

2202 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<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_011931.3</a> , <a href="#">NP_036061.1</a>
<b>RefSeq Size:</b>	5056 bp
<b>RefSeq ORF:</b>	2202 bp
<b>Locus ID:</b>	26374
<b>UniProt ID:</b>	<a href="#">Q9R1A8</a>
<b>Cytogenetics:</b>	1 H1
<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.[UniProtKB/Swiss-Prot Function]</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>