

## Product datasheet for **MR210351**

### **Cop1 (NM\_011931) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cop1 (NM_011931) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide  
Sequence:

>MR210351 representing NM\_011931  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAGGTAGCCGCCAGGCCGGCTCGGGTTCGCTGGGACGAGCCCGGCTCCTCGGCCGCTCCTCGG  
 TGACTTCCGCCTCCTCGTCCTTATCCTCGTCTCGGTCGCCGCCGTCCTGGCGGCCCTCGGCCGCGAGCGT  
 GGTGTCCGGCGCGTGGCTCCGGCCGCGGGCTCCGGCGGCCCTCGCGGCCCGGGCGGCCTGTGCTGGT  
 GCGGCCGCGGTGTCTGGCAGCGCGAGCGCCGGCGGGCGGTGTCCGGGCCAGTCCCGGCTCAGCTGCG  
 CGGCCAGGCCAGCGCCGGCTTGGAGGGAGCAGCTCCAGCCTCGGCAGTAGCAGTAGGAAGCGACCTCT  
 GCTCGTCCGCTTTGTAACGGGCTCCTCAACTCCTACGAGGACAAAAGCAACGACTTCGTCTGTCCCATC  
 TGCTTTGATATGATTGAGGAGGCATACATGACAAAATGTGGCCACAGCTTTTGTACAAGTGATTATC  
 AGAGTTTGGAGGACAATAATAGATGTCCCAAGTGAATTATGTTGTGGACAATATTGACCATCTCTATCC  
 TAATTTCTTGGTGAATGAACTATTCTCAAACAGAAGCAAAGATTTGAGGAAAAGAGTTCAAATTTGGAC  
 CACTCAGTGAGTAGCACCAATGGGCATAGGTGGCAAAATTTCAAGATCTACTAGGAACTGATCAAGATA  
 ACCTTGATTTGGCCAATGTCAACCTCATGTTGGAATTATTAGTGCAGAAGAAGAAAACACTGGAAGCAGA  
 ATCACATGCAGCTCAGCTACAGATCCTTATGGAATTCCTCAAGTTTGAAGGAGAAAATAAGAGAGAGCAA  
 TTGGAGCAGATCCAGAAGGAACTAAGTGTGTTTGGAAAGAGGATATTAAGAGTGGAAAGAAATGAGTGGCC  
 TCTACTCTCCTGTGAGTGAAGATAGCACAGTGCCTCAATTTGAAGCTCCTTCTCCATCACACAGTAGCAT  
 TATTGATTCTACAGAATACAGCCAACCTCCAGGTTTCAAGTGGGACCTCTCAGACAAAAGAACAGCCTTGG  
 TATAACAGCACATTAGCATCAAGACGAAAGCGACTCACTGCTCATTGTTGAAGACTTAGAGCAGTGTATT  
 TTTCTACAAGGATGTCTCGTATCTCAGATGACAGTGAAGTGAAGCCAGTTAGATGAATTTCAAGATG  
 CTTGTCCAAGTTTACTCGATACAACCTCAGTAAGACCGTTGGCCACATTGTCTTATGCTAGTGATCTCTAT  
 AATGGTCCAGCATAGTTTCTAGTATTGAGTTTACCAGGATTGTGACTATTTTGAATGCTGGAGTTA  
 CAAAGAAGATTAAGTCTATGAGTATGGCACAGTCATCCAGGATGCAGTGGATATTCAATACCCTGAGAA  
 TGAAATGACCTGCAATTCAAAAATCAGCTGTATCAGTTGGAGTAGTTACCATAAAGAACCTGCTAGCCAGC  
 AGTGATTATGAAGGCACTGTTATACTATGGGATGGATTACAGGACAGAGGTCAAAGTCTATCAGGAGC  
 ATGAAAAAGGTGTTGGAGTGTGACTTAACTGATGGATCCTAACTTCTGGCTTCAAGTTCTGATGA  
 TGCAAAAGTGAAGCTGTGGTCTACCAATTTAGACAATTTCTGTGGCAGCATTGAGGCAAAGGCTAACGTG  
 TGCTGTGTGAAGTTCAGCCCTCCTCCAGTACCATCTGGCTTTCGGCTGTGCAGATCACTGTGCCACT  
 ACTACGACCTTCGTAACACTAAACAGCCAATAATGGTATTCAAGGACACCGAAAAGCAGTGTCTTATGC  
 CAAGTTTGAAGTGGTGAAGAAATGTCTCAGCCTCAACAGACAGCCAACCTAAAGCTGTGGAATGTGGGA  
 AAACCATACTGTCTACGTTCTTCAAGGTCATATTAATGAAAAAACTTTGTAGGCCTTGCTTCAATG  
 GAGATTATAGCGTGTGGAAGTGAACAACCTCCCTCTACCTGTATTATAAAGGACTTTCTAAAACCTT  
 GCTAACTTTAAGTTTGTATACCGTTAAGAGTGTATTAGACAAAGATCGGAAAGAAGATGACACAAATGAA  
 TTTGTGCTGCTGTGTGTTGGCGGGCACTATCAGACGGGAGTCCAATGTGCTGATTGCTGCTAACAGCC  
 AGGTACAATTAAGGTGCTAGAATTGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210351 representing NM\_011931  
 Red=Cloning site Green=Tags(s)

MSGSRQAGSGSAGTSPGSSAASSVTSASSSLSSSPSPSVAASAATLVSGGVAPAAGSGGLGGPGRPVLV  
 AAAVSGSASAGGAVSAGQSRLSCAARPSAGVGGSSSLGSSSRKRPLLVPLCNGLLNSYEDKSNDFVCP  
 CFDMIEEAYMTKCGHSFCYKCIHQSLLEDNNRCPKCNVVDNIDHLYPNFLVNLILKQKQRFEEKRFKLD  
 HSVSSTNGHRWQIFQDLLGTDQDNLDLANVNLMELELVQKKKQLEAESHAACLQILMEFLKVARRNKRE  
 LEQIQKELSVLEEDIKRVEEMSGLYSPVSEDSTVPQFEAPSPSHSSIIDSTEYSQPPGFGTSSQTKKQ  
 YNSTLASRRKRLTAHFEDLEQCYFSTRMSRISDDSRASQLDEFQECLSKFTRYNSVRPLATLSYASDLY  
 NGSSIVSSIEFDRDCDYFAIAGVTKKIKVYEGTVIQDAVDIHYPENEMTCNSKISCISWSSYHKNNLLAS  
 SDYEGTVILWDGFTGQRSKVYQEHEKRCWSVDFNMDPKLLASGDDAKVKLWSTNLDNSVASIEAKANV  
 CCVKFSPSSRYHLAFGCADHCVHYDLRNTKQPI MVFKGHRKAVSYAKFVSGEEIVSASTDSQLKLVN  
 WVG KPYCLRSFKGHINEKNFVGLASNGDYIACGSENNSLYL YYKGLSKTLLTFKFDTVKSVLKD  
 KRKEDDTNE FVSAVCWRALSDGESNLIAANSQGTIKVLELV

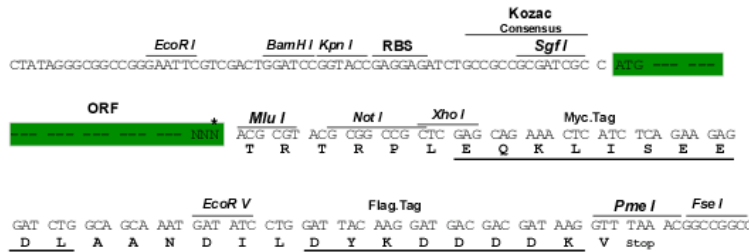
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011931

**ORF Size:** 2199 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\\_011931.4](#)

**RefSeq Size:** 5056 bp

**RefSeq ORF:** 2202 bp

**Locus ID:** 26374

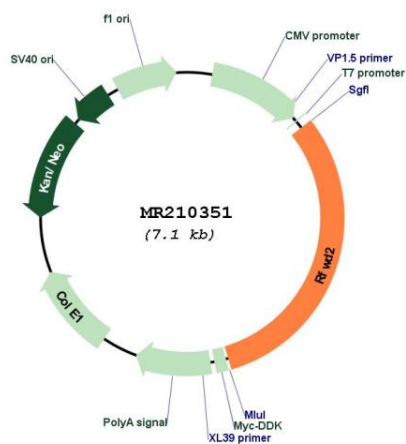
**UniProt ID:** [Q9R1A8](#)

**Cytogenetics:** 1 H1

**MW:** 80.9 kDa

**Gene Summary:** 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]

Product images:



Circular map for MR210351