

Product datasheet for **RC238538**

COP1 (RFWD2) (NM_001286644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COP1 (RFWD2) (NM_001286644) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COP1
Synonyms:	CFAP78; FAP78; RFWD2; RNF200
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238538 representing NM_001286644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGTGGACAATATTGACCATCTGTATCCTAATTTCTTGGGAATCACATGCAGCCAACTACAGATTC
 TTATGGAATTCCTCAAGTTGCAAGAAGAAATAAGAGAGAGCAACTGGAACAGATCCAGAAGGAGCTAAG
 TGTTTTGGAAGAGGATATTAAGAGAGTGAAGAAATGAGTGGCTTATACTCTCCTGTCAGTGAGGATAGC
 ACAGTGCCTCAATTTGAAGCTCCTTCTCCATCACACAGTAGTATTATTGATTCCACAGAATACAGCCAAC
 CTCAGGTTTCAGTGGCAGTTCTCAGACAAAGAAACAGCCTTGGTATAATAGCACGTTAGCATCAAGACG
 AAAACGACTTACTGCTCATTTTGAAGACTTGGAGCAGTGTACTTTTCTACAAGGATGTCTCGTATCTCA
 GATGACAGTGAAGCCAGTTGGATGAATTTAGGAATGCTTGTCCAAGTTACTCGATATAATT
 CAGTACGACCTTTAGCCACATTGTCATATGCTAGTGTCTCTATAATGGTCCAGTATAGTCTCTAGTAT
 TGAAATTTGACCGGATTGTGACTATTTTGGGATTGCTGGAGTTACAAAGAAGATTAAAGTCTATGAATAT
 GACACTGTCATCCAGGATGCAGTGGATATTCATTACCCTGAGAATGAAATGACCTGCAATTCGAAAATCA
 GCTGTATCAGTTGGAGTAGTTACCATAAGAACCTGTTAGCTAGCAGTGATTATGAAGGCACTGTTATTTT
 ATGGGATGGATTCACAGGACAGAGGTCAAAGGTCTATCAGGAGCATGAGAAGAGGTGTTGGAGTGTGAC
 TTTAATTTGATGGATCCTAAACTCTTGGCTTCAGGTTCTGATGATGCAAAAGTGAAGCTGTGGTCTACCA
 ATCTAGACAACTCAGTGGCAAGCATTGAGGCAAAGGCTAATGTGTGCTGTGTTAAATTCAGCCCCTTTC
 CAGATACCATTTGGCTTTCGGCTGTGCAGATCACTGTGTCCACTACTATGATCTTCGTAACACTAAACAG
 CCAATCATGGTATTCAAAGGACACCGTAAAGCAGTCTCTATGCAAAGTTTGTGAGTGGTGAAGAAATTG
 TCTCTGCCTCAACAGACAGTCAGCTAAAAGTGTGAATGTAGGAAACCATACTGCCTACGTTCTCTCAA
 GGGTCATATCAATGAAAAAACTTTGTAGGCTGGCTTCCAATGGAGATTATATAGCTTGTGGAAGTGAA
 AATAACTCTCTACCTGTACTATAAAGGACTTTCTAAGACTTTGCTAACTTTTAAAGTTTGATACAGTCA
 AAAGTGTCTCGACAAAGACCGAAAAGAAGATGATACAAATGAATTTGTTAGTGTGTGTGCTGGAGGGC
 ACTACCAGATGGGGAGTCCAATGTGCTGATTGCTGCTAACAGTCAGGTTACAATTAAGGTGCTAGAATTG
 GTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238538 representing NM_001286644
 Red=Cloning site Green=Tags(s)

MLWTILICILISWESHAAQLQILMEFLKVARRNKREQLIQKELSVLEEDIKRVEEMSGLYSPVSEDS
 TVPQFEAPSPSHSSIIDSTEYSQPPGFGSSQTKKQPWYNSTLASRRKRLTAHFEDLEQCYFSTRMSRIS
 DDSRTASQLDEFQECLSKFTRYNSVRPLATLSYASDLYNGSSIVSSIEFDRDCDYFAIAGVTKKIKVVEY
 DTVIQDAVDIHYPENEMTCNSKISCIISWSSYHKNLLASSDYEGTVILWDGFTGQRSKVYQEHEKRCWSVD
 FNLMDPKLLASGSDDAKVKLWSTNLDNSVASIEAKANVCCVKFSPSSRYHLAFGCADHCVHYDLRNTKQ
 PIMVFKGHRKAVSYAKFVSGEEIVSASTDSQLKLWNVGKPYCLRSFKGHINEKNFVGLASNGDYIACGSE
 NNSLYLYYKGLSKTLLTFKFDTVKSVLDKRVEDDTNEFVSAVCWRALPDGESNVLIAANSQGTIKVLEL
 V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

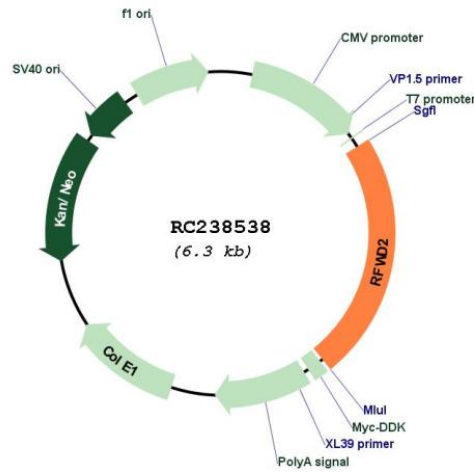
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001286644

ORF Size: 1473 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_001286644.1 , NP_001273573.1
RefSeq Size:	2609 bp
RefSeq ORF:	1476 bp
Locus ID:	64326
UniProt ID:	Q8NHY2
Cytogenetics:	1q25.1-q25.2
Protein Pathways:	p53 signaling pathway, Ubiquitin mediated proteolysis
MW:	56.1 kDa
Gene Summary:	<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>