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Product datasheet for SC128099

COP1 (RFWD2) (NM_022457) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COP1 (RFWD2) (NM_022457) Human Untagged Clone
Tag:	Tag Free
Symbol:	COP1
Synonyms:	CFAP78; FAP78; RFWD2; RNF200
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_022457 edited
CTGCCTTAAAAAAAAACGCAACTTTATTGTTCCTCAGCCCCACCTCCGGCTCGGCGGGCG
TCCTCAGGATGCACTGAGGCTGAGGGGAGGGGAGGCGGCGGAGGGTCGAGGTCGCGGTCC
CTCTCCTCCGAGCGCCCGGCTGGAGGGGAGGGAGTCACGATGTCTGGTAGCCGCCAGGCC
GGGTCGGGCTCCGCTGGGACAAGCCCCGGGTCCTCGGCGGCCTCCTCGGTGACTTCCGCC
TCCTCGTCTTTATCCTCTTCCCCGTCGCCGCCTTCCGTGGCGGTTTCGGCGGCAGCGCTG
GTGTCCGGCGGGGTGGCCCAGGCCGCCGGCTCGGGCGGCCTCGGGGGCCCGGTGCGGCCT
GTGTTGGTGGCGCCCGCCGTATCGGGTAGCGGCGGCGGGGCGGTGTCCACGGGCCTGTCC
CGGCACAGCTGCGCGGCCAGGCCCAGCGCCGGCGTAGGAGGCAGCAGCTCCAGCCTAGGC
AGCGGCAGCAGGAAGCGACCTCTCCTCGCCCCCCTCTGCAACGGGCTCATCAACTCCTAC
GAGGACAAAAGCAACGACTTCGTATGCCCCATCTGCTTTGATATGATTGAAGAAGCATAC
ATGACAAAATGTGGCCACAGCTTTTGCTACAAGTGTATTCATCAGAGTTTGGAGGACAAT
AATAGATGTCCCAAGTGTAACTATGTTGTGGACAATATTGACCATCTGTATCCTAATTTC
TTGGTGAATGAACTCATTCTTAAACAGAAGCAAAGATTTGAGGAAAAGAGGTTCAAATTG
GACCACTCAGTGAGTAGCACCAATGGCCACAGGTGGCAGATATTTCAAGATTGGTTGGGA
ACTGACCAAGATAACCTTGATTTGGCCAATGTCAATCTTATGTTGGAGTTACTAGTGCAG
AAGAAGAAACAACTGGAAGCAGAATCACATGCAGCCCAACTACAGATTCTTATGGAATTC
CTCAAGGTTGCAAGAAGAAATAAGAGAGAGCAACTGGAACAGATCCAGAAGGAGCTAAGT
GTTTTGGAAGAGGATATTAAGAGAGTGGAAGAAATGAGTGGCTTATACTCTCCTGTCAGT
GAGGATAGCACAGTGCCTCAATTTGAAGCTCCTTCTCCATCACACAGTAGTATTATTGAT
TCCACAGAATACAGCCAACCTCCAGGTTTCAGTGGCAGTTCTCAGACAAAGAAACAGCCT
TGGTATAATAGCACGTTAGCATCAAGACGAAAACGACTTACTGCTCATTTTGAAGACTTG
GAGCAGTGTTACTTTTCTACAAGGATGTCTCGTATCTCAGATGACAGTCGAACTGCAAGC
CAGTTGGATGAATTTCAGGAATGCTTGTCCAAGTTTACTCGATATAATTCAGTACGACCT
TTAGCCACATTGTCATATGCTAGTGATCTCTATAATGGTTCCAGTATAGTCTCTAGTATT
GAATTTGACCGGGATTGTGACTATTTTGCGATTGCTGGAGTTACAAAGAAGATTAAAGTC
TATGAATATGACACTGTCATCCAGGATGCAGTGGATATTCATTACCCTGAGAATGAAATG
ACCTGCAATTCGAAAATCAGCTGTATCAGTTGGAGTAGTTACCATAAGAACCTGTTAGCT
AGCAGTGATTATGAAGGCACTGTTATTTTATGGGATGGATTCACAGGACAGAGGTCAAAG
GTCTATCAGGAGCATGAGAAGAGGTGTTGGAGTGTTGACTTTAATTTGATGGATCCTAAA
CTCTTGGCTTCAGGTTCTGATGATGCAAAAGTGAAGCTGTGGTCTACCAATCTAGACAAC
TCAGTGGCAAGCATTGAGGCAAAGGCTAATGTGTGCTGTGTTAAATTCAGCCCCTCTTCC
AGATACCATTTGGCTTTCGGCTGTGCAGATCACTGTGTCCACTACTATGATCTTCGTAAC
ACTAAACAGCCAATCATGGTATTCAAAGGACACCGTAAAGCAGTCTCTTATGCAAAGTTT
GTGAGTGGTGAGGAAATTGTCTCTGCCTCAACAGACAGTCAGCTAAAACTGTGGAATGTA
GGGAAACCATACTGCCTACGTTCCTTCAAGGGTCATATCAATGAAAAAAACTTTGTAGGC
CTGGCTTCCAATGGAGATTATATAGCTTGTGGAAGTGAAAATAACTCTCTCTACCTGTAC
TATAAAGGACTTTCTAAGACTTTGCTAACTTTTAAGTTTGATACAGTCAAAAGTGTTCTC
GACAAAGACCGAAAAGAAGATGATACAAATGAATTTGTTAGTGCTGTGTGCTGGAGGGCA
CTACCAGATGGGGAGTCCAATGTGCTGATTGCTGCTAACAGTCAGGGTACAATTAAGGTG
CTAGAATTGGTATGAAGGGTTAACTCAAGTCAAATTGTACTTGATCCTGCTGAAATACAT
CTGCAGCTGACAATGAGAGAAGAAACAGAAAATGTCATGTGATGTCTCTCCCCAAAGTCA
TCATGGGTTTTGGATTTGTTTTGAATATTTTTTTCTTTTTTTCTTTTCCCTCCTTTATGA
CCTTTGGGACATTGGGAATACCCAGCCAACTCTCCACCATCAATGTAACTCCATGGACAT
TGCTGCTCTTGGTGGTGTTATCTAATTTTTGTGATAGGGAAACAAATTCTTTTGAATAAA
AATAAATAACAAAACAATAAAAGTTTATTGAGCCACAAAAAAAAAAAAAAAAAAAAAAAA
AAAA

Restriction Sites: NotI-NotI

ACCN: NM_022457

Insert Size: 2700 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).
OTI Annotation:	The insert of this clone has been fully sequenced and found to be a perfect match to NM_022457.5.
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_022457.5, NP_071902.2
RefSeq Size:	2801 bp
RefSeq ORF:	2196 bp
Locus ID:	64326
UniProt ID:	Q8NHY2
Cytogenetics:	1q25.1-q25.2
Domains:	WD40, RING
Protein Pathways:	p53 signaling pathway, Ubiquitin mediated proteolysis
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 (Probable).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).