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Product datasheet for RG238538

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:	TurboGFP
Symbol:	COP1
Synonyms:	CFAP78; FAP78; RFWD2; RNF200
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG238538 representing NM_001286644.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTGTGGACAATATTGACCATCTGTATCCTAATTTCTTGGGAATCACATGCAGCCCAACTACAGATT
CTTATGGAATTCCTCAAGGTTGCAAGAAGAAATAAGAGAGAGCAACTGGAACAGATCCAGAAGGAGCTA
AGTGTTTTGGAAGAGGATATTAAGAGAGTGGAAGAAATGAGTGGCTTATACTCTCCTGTCAGTGAGGAT
AGCACAGTGCCTCAATTTGAAGCTCCTTCTCCATCACACAGTAGTATTATTGATTCCACAGAATACAGC
CAACCTCCAGGTTTCAGTGGCAGTTCTCAGACAAAGAAACAGCCTTGGTATAATAGCACGTTAGCATCA
AGACGAAAACGACTTACTGCTCATTTTGAAGACTTGGAGCAGTGTTACTTTTCTACAAGGATGTCTCGT
ATCTCAGATGACAGTCGAACTGCAAGCCAGTTGGATGAATTTCAGGAATGCTTGTCCAAGTTTACTCGA
TATAATTCAGTACGACCTTTAGCCACATTGTCATATGCTAGTGATCTCTATAATGGTTCCAGTATAGTC
TCTAGTATTGAATTTGACCGGGATTGTGACTATTTTGCGATTGCTGGAGTTACAAAGAAGATTAAAGTC
TATGAATATGACACTGTCATCCAGGATGCAGTGGATATTCATTACCCTGAGAATGAAATGACCTGCAAT
TCGAAAATCAGCTGTATCAGTTGGAGTAGTTACCATAAGAACCTGTTAGCTAGCAGTGATTATGAAGGC
ACTGTTATTTTATGGGATGGATTCACAGGACAGAGGTCAAAGGTCTATCAGGAGCATGAGAAGAGGTGT
TGGAGTGTTGACTTTAATTTGATGGATCCTAAACTCTTGGCTTCAGGTTCTGATGATGCAAAAGTGAAG
CTGTGGTCTACCAATCTAGACAACTCAGTGGCAAGCATTGAGGCAAAGGCTAATGTGTGCTGTGTTAAA
TTCAGCCCCTCTTCCAGATACCATTTGGCTTTCGGCTGTGCAGATCACTGTGTCCACTACTATGATCTT
CGTAACACTAAACAGCCAATCATGGTATTCAAAGGACACCGTAAAGCAGTCTCTTATGCAAAGTTTGTG
AGTGGTGAGGAAATTGTCTCTGCCTCAACAGACAGTCAGCTAAAACTGTGGAATGTAGGGAAACCATAC
TGCCTACGTTCCTTCAAGGGTCATATCAATGAAAAAAACTTTGTAGGCCTGGCTTCCAATGGAGATTAT
ATAGCTTGTGGAAGTGAAAATAACTCTCTCTACCTGTACTATAAAGGACTTTCTAAGACTTTGCTAACT
TTTAAGTTTGATACAGTCAAAAGTGTTCTCGACAAAGACCGAAAAGAAGATGATACAAATGAATTTGTT
AGTGCTGTGTGCTGGAGGGCACTACCAGATGGGGAGTCCAATGTGCTGATTGCTGCTAACAGTCAGGGT
ACAATTAAGGTGCTAGAATTGGTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG238538
Blue=ORF Red=Cloning site Green=Tag(s)

MLWTILTICILISWESHAAQLQILMEFLKVARRNKREQLEQIQKELSVLEEDIKRVEEMSGLYSPVSED
STVPQFEAPSPSHSSIIDSTEYSQPPGFSGSSQTKKQPWYNSTLASRRKRLTAHFEDLEQCYFSTRMSR
ISDDSRTASQLDEFQECLSKFTRYNSVRPLATLSYASDLYNGSSIVSSIEFDRDCDYFAIAGVTKKIKV
YEYDTVIQDAVDIHYPENEMTCNSKISCISWSSYHKNLLASSDYEGTVILWDGFTGQRSKVYQEHEKRC
WSVDFNLMDPKLLASGSDDAKVKLWSTNLDNSVASIEAKANVCCVKFSPSSRYHLAFGCADHCVHYYDL
RNTKQPIMVFKGHRKAVSYAKFVSGEEIVSASTDSQLKLWNVGKPYCLRSFKGHINEKNFVGLASNGDY
IACGSENNSLYLYYKGLSKTLLTFKFDTVKSVLDKDRKEDDTNEFVSAVCWRALPDGESNVLIAANSQG
TIKVLELV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
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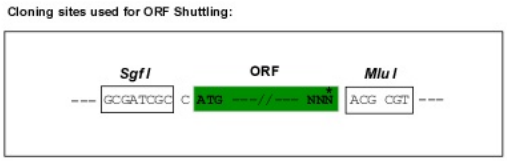
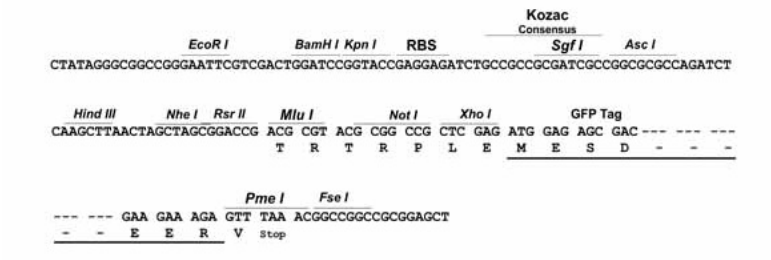
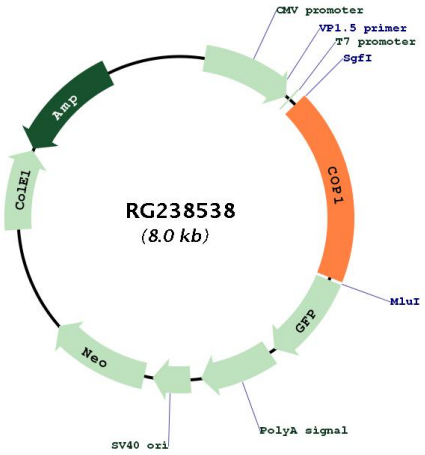
Restriction Sites: SgfI-MluI

Cloning Scheme:





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).
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:	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]