

Product datasheet for RC204117

RNF31 (NM_017999) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNF31 (NM_017999) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RNF31
Synonyms: HOIP; Paul; ZIBRA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204117 representing NM_017999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCGGGGAGGAAGAGGAGCGGGCCTTCTGGTGGCCCGGAGGAGCTGGCGAGCGCCCTGAGGAGGG
 ATCCGGGCAGGCGTTTTCCCTGGAGCAGCTCCGGCCGCTACTAGCCAGCTCTCTGCCGCTAGCCGCCCC
 CTACCTGCAGCTGGACGCCGCACGCCTTGTCCGCTGCAACGCTCATGGGGAGCCCCGAAACTACCTCAAC
 ACCCTGTCCACGGCTCTGAACATCCTGGAGAAATACGGCCCAACCTTCTCAGCCCTCAGCGCCCTCGGT
 ACTGGCGTGGTGTCAAGTTAATAACCCGTCTTTCGACGACCGTGGATGCTGTGCAGGGGGCCGAGA
 TGTGCTGCGATTATATGGCTACACAGAGGAGCAACCAGATGGGTTGAGCTTCCCCGAAGGGCAGGAGGAG
 CCAGATGAGCACCAGGTTGCTACAGTCACACTGGAAGTACTGCTGCTTCGGACAGAGCTCAGCCTGCTAT
 TGCAGAATACTCATCCAAGACAGCAGGCACTGGAGCAGCTGTTGGAAGACAAGGTTGAAGATGATATGCT
 GCAGCTTTCAGAAATTTGACCCCCATTGAGAGAGATTGCTCCTGGCCCCCTCACCACACCCTCTGTCCCA
 GGCTCCACTCCTGGTCCCTGCTTCTCTGTGGTTCTGCCCCAGGCACACTGCACTGCCATCCTGTAAC
 AGCCCTGTGTCCAGCCTGTGACCACCTGTTCCATGGACACCCATCCCGTGTCTACCTCCGCCAGAC
 CTTGCCCTGGGGTCTGCAGGGTACCCACCTGAGCCCCAGTTTACCTGCCTCAGCCCAACCACGGCCCCAG
 TCGACTCCCTGCTGGCCCTGGGAGACAGCTCTTTTCTCCCTAATCCTGCAAGTGTCTATTTGCCCT
 GGCAGTGTGCTGCCTGTGCCATGCTAAATGAGCCTTGGGCAAGTGTCTGTGTGGCCTGTGATCGGCCCG
 AGGCTGTAAGGGGTTGGGGTTGGAACTGAGGGTCCCCAAGGAAGTGGAGGCTAGAACCTGATCTTGCA
 CGGGGTCGGTGGGCTGCCAGAGCTGTACCTTTGAGAATGAGGCAGCTGTGTGCTATGTTCCATATGTG
 AGCGACCTCGGCTGGCCAGCCTCCAGCTTGGTGGTGGATTCCCGAGATGCTGGCATTGCTGCAACC
 CCTTCAGAGGGGATGCTTTGCTGGCCTCTGCCAGAGTCAAGTCTGGTACTGTATTCACTGTACCTTC
 TGCAACTCGAGCCCTGGTGGTGTGTATGTGCAACCGGACTAGTAGCCCCATTCCAGCACAACATG
 CCCCCGGCCCTATGCCAGCTCTTTGAAAAGGGACCCCCAAGCCTGGGCCCCACGACGCTTAGTGC
 CCCCTGCCAGTTCCTGTGGAGATCCTGAGAAGCAGCGCAAGACAAGATGCGGAAGAAGGCCTCCAG



CTAGTGAGCATGATCCGGGAAGGGGAAGCCGAGGTGCCTGTCCAGAGGAGATCTTCTCGGCTCTGCAGT
 ACTCGGGCACTGAGGTGCCTCTGCAGTGGTTGCCTCAGAAGTGCCTACGTCTGGAGATGGTGGCTGA
 GCTGGCTGGACAGCAGGACCCCTGGGCTGGGTGCCTTTTCTGTGACAGGAGCCCGGAGAGCCTGGCTGGAT
 CGTCATGGCAACCTTGATGAAGCTGTGGAGGAGTGTGTGAGGACCAGGCGAAGGAAGGTGCAGGAGCTCC
 AGTCTCTAGGCTTTGGGCTGAGGAGGGGTCTCTCCAGGCATTGTTCCAGCACGGAGGTGATGTGTACG
 GGCCTGACTGAGCTACAGCGCAACGCCTAGAGCCCTCCGCCAGCGCCTCTGGGACAGTGGCCCTGAG
 CCCACCCCTTCTGGGATGGGCCAGACAAGCAGAGCCTGGTCAGGCGGCTTTTGGCAGTATCGCACTCC
 CCAGCTGGGGCCGGCAGAGCTGGCACTGCACTGCTGACAGGAGACACCCAGGAATATGAGTTGGGGGA
 TGTGGTAGAAGCTGTGAGGCACAGCCAGGACCGGGCTTCTGCGCCGCTTGTGCTGCCAGGAGTGTGCC
 GTGTGTGGCTGGGCCCTGCCCCACAACCGGATGCAGGCCCTGACTTCTGTGAGTGCACCATCTGCTCTG
 ACTGCTCCGCCAGCACTTACCATCGCCTTGAAGGAGAAGCACATCACAGACATGGTGTGCCCTGCCTG
 TGGCCGCCCGACCTCACCGATGACACACAGTTGCTCAGTACTTCTCTACCCTTGACATCCAGCTTCGC
 GAGAGCCTAGAGCCAGATGCCTATGCGTGTTCATAAGAAGCTGACCGAGGGTGTGCTGATGCGGGACC
 CCAAGTCTTGTGGTGTGCCAGTGTCTTTGGCTTCATATATGAGCGTGAACAGCTGGAGGCAACTTG
 TCCCCAGTGTACCAGACCTTCTGTGTGGCTGCAAGCGCCAGTGGGAGGAGCAGCACCGAGGTGCGGAGC
 TGTGAGGACTTCCAGAAGTGGAAACGCATGAACGACCCAGAATACCAGGCCAGGGCCTAGCAATGTATC
 TTCAGGAAAACGGCATTGACTGCCCAAATGCAAGTTCTCGTACGCCCTGGCCCGAGGAGGCTGCATGCA
 CTTTCACTGTACCCAGTGCGCCACCAAGTTCTGCAGCGGCTGCTACAATGCCTTTTACGCCAAGAATAAA
 TGTCCAGAGCCTAACTGCAGGGTAAAAAGTCCCTGCAGGCCACCACCTCGAGACTGCCTCTTCTACC
 TGCGGGACTGGACTGCTCTCCGGCTTCAAGCTGCTACAGGACAATAACGTCATGTTTAAACAGAGCC
 TCCAGCTGGGGCCCGGCAGTCCCTGGAGGCGGCTGCCGAGTATAGAGCAGAAGGAGGTCCCAATGGG
 CTCAGGGACGAAGCTTGTGGCAAGGAACTCCAGCTGGCTATGCCGGCTGTGCCAGGCACACTACAAG
 AGTATCTTGTGAGCCTCATCAATGCCACTCGCTGGACCCAGCCACTTGTATGAGTGGGAAGAGCTGGA
 GACGGCCACTGAGCGCTACCTGCAGTACGCCCCAGCCTTTGGCTGGAGAGGATCCCCCTGCTTACCAG
 GCCCGCTTGTACAGAAGCTGACAGAAGAGGTACCCTTGGGACAGAGTATCCCCCGCAGGCGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204117 representing NM_017999
 Red=Cloning site Green=Tags(s)

MPGEEERAFVAREELASALRRDSGQAFSLEQLRPLLASSLPLAARYLQLDAARLVRCNAHGEPNRYLN
 TLSTALNILEKYGRNLLSPQRPRYWRGVKFNPNVFRSTVDAVQGGRDVLRLYGYTEEQPDGLSFPEGQEE
 PDEHQVAVTLEVELLRLTEL SLLLQNTHPRQQAELQLLEDKVEDDMLQLSEFDPLLREIAPGPTTSPV
 GSTPGPCFLCGSAPGTLHCPSCQALCPACDHLFHGHPSRAHHLRQTLPGVLQGTHLSPSLPASAQPRPQ
 STSLLALGDSSLSSPNPASAHLPWCAACAMLNWPWAVLCVACDRPRGCKGLGLGTEGPQGTGGLEPDLA
 RGRWACQSCTFENEAAAVLCSICERPRLAQPSSLVVDSDRAGICLQPLQQGDALLASAQSQVWYCIHCTF
 CNSSPGWVCVMCNRSSPIPAQHAPRPYASSLEKGPCKGPPRRLSAPLPSSCGDPEKQQRQDKMREEGLQ
 LVSMIREGEAAGACPEEIFSALQYSGTEVPLQWLRSELVYVLEMAELAGQDPGLGAFSCQEARRAWLD
 RHGNLDEAVEECVRRRRKQELQSLGFPEEGSLQALFQHGDDVSRALTELQRQRLEPFRQRLWDSGPE
 PTPSWDGPDKQSLVRRLLAVYALPSWGRAELALSLLQETPRNYELGDVVEAVRHSQDRAFLRLLAQECA
 VCGWALPHNRMQALTSCECTICPDCFRQHFTIALKEKHIITDMVCPACGRPDLDLTDQLLSYFSTLDIQLR
 ESLEPDAYALFHKKLTEGVLMRDPKFLWCAQCSFGFIYEREQLEATCPQCHQTFVCRCKRQWEEQHRGRS
 CEDFQNWKRMDPEYQAQGLAMYLQENIDCPKCKFSYALARGGCMHFHCTQCRHQFCSGCYNAFYAKNK
 CPEPNCRVKKSLHGHPRDCLFYLRDWTALRLQKLLQDNNVMFNTEPPAGARAVPGGGCRVIEQKEVPNG
 LRDEACGKETPAGYAGLCQAHYKEYLVSLINAHSLDPATLYEVEELETATERYLHVRPQPLAGEDPPAYQ
 ARLLQKLTTEEVLGQSIPIRRRK

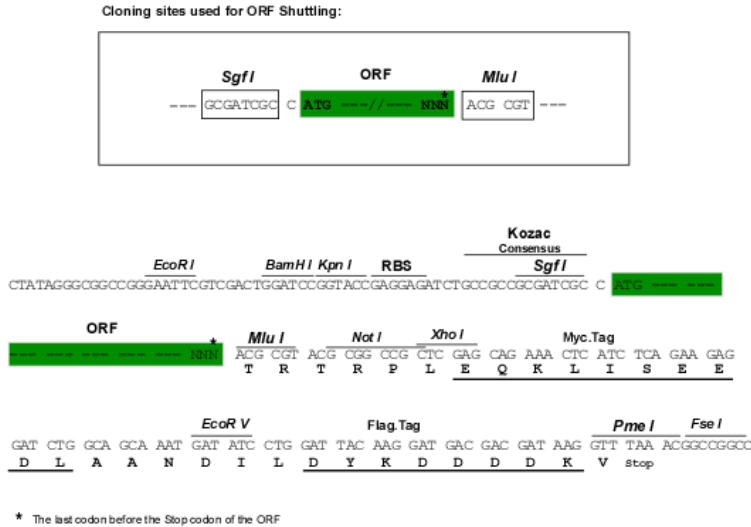
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3065_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017999

ORF Size: 3216 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017999.5](#)

RefSeq Size: 3571 bp

RefSeq ORF: 3219 bp

Locus ID: 55072

UniProt ID: [Q96EP0](#)

Cytogenetics: 14q12

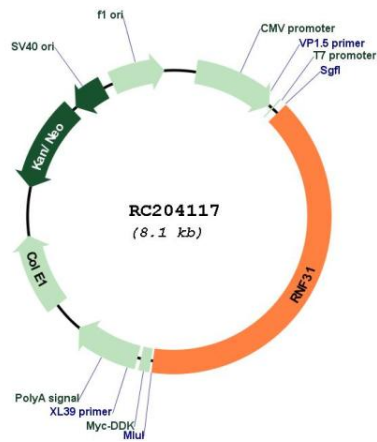
Domains: IBR

Protein Families: Druggable Genome

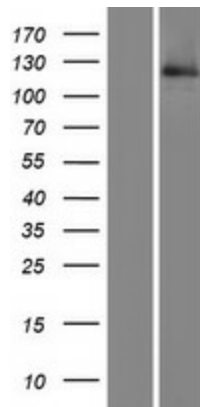
MW: 119.5 kDa

Gene Summary: The protein encoded by this gene contains a RING finger, a motif present in a variety of functionally distinct proteins and known to be involved in protein-DNA and protein-protein interactions. The encoded protein is the E3 ubiquitin-protein ligase component of the linear ubiquitin chain assembly complex. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC204117



Western blot validation of overexpression lysate (Cat# [LY413390]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204117 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).