

## Product datasheet for MR211571

### Rnf31 (NM\_194346) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnf31 (NM\_194346) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rnf31  
**Synonyms:** AL033293; BC031509; Flj10111; HOIP; mFLJ00217; Paul  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR211571 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGCCGGGAGACGAGGAGCGAGGCTTCTGGCGGCCCGAGGAGCTGGCGAGCGCCCTGAGGTGGGATT  
 CTGCGCAGGTTTTCCCTGGAGCAGCTCATGCCGTTCTGGCCACCTCTCTGCCACCAGCCGCCGCTA  
 CCTGCAGCTGGACGCCGACGCTTGGTCCGCTGCAACGCTCATGGGGAGCCTCGAACTACCTCAACACC  
 CTATCCACGGCCCTGAACATCCTGGAAAAATATGGTCGCAACCTCCTCAGCCCGCAGCGCCCGGTATT  
 GCGCTCAGTGAAGTTTAAACCCGCTTTTCGAGCAGCGGTGGATGCTGTGCAGGGTGGCCGGGATGT  
 ACTACGGTTGATGGCTATACTGAGGAGCGCCAGATGGATTGAGTTTCCCGAAGGGCAGGAGGAACCA  
 GATGAATACCAGGTTGCTGTTGTCACTAGAAGTACTGCTGCTTCGCACCGAGCTCAGTTTGCTGTTGC  
 AGAATACTCATCCAGACAGAATGCACTGGACCAGCTGCTAAGAGAGAGCGTTGAAGATGGTATGCTGCA  
 GCTTTCAGAGTTTCAACCCCTTCTGAGGGAGATTGTTCTGGCCCCGCCCTCTGCCAAGGCTCCACT  
 CCTGGTCCCTGTTTCTCTGTGGTTCTGCCCGAGCAGCTGCACTGTCCAGCCTGTAACCAAGTCTCGT  
 GCCCAGCTGTGACATTTGTTCCATGGGCATCCGTCCTGTCACATCACCTTCGCCAAGCCCTGCCTGG  
 GTCCCACAGACTGCCAGCCTGAGCTCTAGTTTACCTGCCTCGTCCCAACCACGGCCCCCTCCTCTCC  
 TTGGCCCTGGGAGATAGCTCTCTTTCTTCCCTGACCCTGCAAAATGCCTGTCTGCCCTGGCATTGCTTA  
 CCTGTGCCACACTAAATGAGCCTTGGGCAGTGTCTGTGCACTGTAGTCAGCCAAAGGCTGCAAGT  
 GCCGGAAATAGAGGGTTCCCATGGAACCGGGGCTAGAACCTGAGCCTGCACGGGATCAATGGGCTGC  
 CAGAGCTGACCTTTGAGAATGAGGCAGCAGCTGTGCTATGCGCCATATGTGAGCGACCTCGGCTGGCC  
 AGCCTCCAGCTTGGTGGTGGATTCCATGATGCTGGTGTGGCAACAGTCCCTTAAGCAGGAGGATCC  
 TTTGCTCACCGCTGCCAGCCTCAGGTGTGGTACTGTGACCATTGTACCTTCTGCAATTCAGGCCCTGTC  
 TGGGTGTGTGCCATGTGCAACCGAACCCGAGACCCATCCCTACACAGCCTGCCCTCCAGTCTATCCCA  
 GCTCTTTGAAAAGGGACGCCAAAGCCAGGGTCTCACAACTTGGTTCCTCCCTGCCTGCTTCTGT  
 TGGAGACCCAGAGAAACAACGCCAAGATAAGATGCGGAAGGAAGTCTCCAGCTCGTGGATGATCCAG



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GAAGGAGAACTGCGGGTGCCAGTCCAGAAGAGGTCTTCTCAGCTCTCCAATACTCAGGCACAGAGGTGC  
 CCCTCCAGTGGTTGCGTTCAGAGCTGTCTACGTCCTGGAGATGGTGGCTGAGCTTGCTGGACAACAGGA  
 TCCAGAGCTGGGGCCTTTTCTGTGAGGAGCCCGAAAGCCTGGCTTGATCGCCATGGCAACCTGGAT  
 GAAGCTGTAGAGGAGTGTGTGAGGGCCAGGAGGAGGAAGGTGCACGAGCTGCAGTCCCTGGGCTTTGGGC  
 CTAAGGAAGGGTCACTACAGGCATTGTTCCAGCATGGGGTGACGTGGCTCGGGCCCTGACTGAGTTACA  
 GCGCCAGCGCTGGAGCCCTTCCATCAGCGCTATGGGACAGAGACCCTGAACCCACTCCCTGCTGGGAT  
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 AGCTGGCGCTGGCGTGTGCAGGAGACCCAGGAATGAGTTGTTGGACGTGGTGGAGGCTGTGAG  
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 CCCCAGAACCGGATGCAGGCCCTGATCTCTGTGAGTGCACCATATGTCCGAATGCTTCCGCCAACACT  
 TCACCATTGCCCTGAAGGAGAAGCACATCACAGACATGGTGTGCCCTGCCTGTGGCCGCCCTGACCTCAC  
 TGATGACGCTCAGTTACTCAGCTACTTCTCCACCCTTGACATCCAGCTCAGAGAGAGCCTAGACCCCGAT  
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 CTTCTGTGTGCGCTGCAAGCGCCAGTGGGAGGAGCAGCACAGAGGACGGAGTTGTGAGGATTTCCAGAAC  
 TGGAAACGCACCAATGACCCAGAGTACCAGGCTCAAGGCTTGCCATGTACCTTCAGGAAAACGGCATTG  
 ACTGTCCGAAATGCAAGTTCCTGTACGCACTGGCCCGGGGAGGCTGCATGCACCTCCACTGCACGAGTG  
 TCGACACCAGTTCTGCAGTGGCTGCTACAACGCCTTTTACGCCAAGAATAAATGTCCAGACCCTAACTGC  
 AAGGTGAAAAAGTCCCTGCATGGCCACCACCCTCGAGACTGCCTCTTCTACCTACGGGACTGGACTGCTG  
 CCCGCCTCCAGAACTGTTGCAGGACAATAATGTCATGTTAATACAGAGCCTCCAGCTGGGACACGGGC  
 AGTCCCTGGAGGGGGCTGCAGAGTGTGGAGCAGAAGGAGTCCATAGTGGGTTCCAGGATGAAGCTTGC  
 GGCAAGGAACTCCACCTGGCTATGCCGCCTATGTCAGGCACACTACAAAGAGTATCTCGTGAGCCTCA  
 TCAATGCCATTCACTGGACCCAGCTACCTTGTATGAAGTGGAGGAGCTGGAGACAGCCACTATTCGCTA  
 CCTACATTTAGCTCCTCAGCCCGGGATGGAGAGGATCTGCCTGCTTACCAGGCCGGCTATTACAGAAG  
 CTGAGAGAAGAGGTACCCTTGGGACAGAGTATTGCCCGAGAAGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211571 protein sequence  
 Red=Cloning site Green=Tags(s)

MPGDEERGFLLAAREELASALRWDSAQVFPLEQLMPLLATSLPPAARYLQLDAGRLVRCNAHGEPRNYLNT  
 LSTALNILEKYGRNLLSPQRPRYWRSVKFNNPVRSTVDVAVQGGRDVLRLYGYTEERPDGLSFPEGQEEP  
 DEYQVAVVTLEVLLRTEL SLLLQNTHPRQNALDQLLRESVEDGMLQLSEFHPLLREIVPGPRPSAQGST  
 PGPCFLCGSAPGTLHCPACNQVSCPACDILFHGHPSRAHHLRQALPGSHQTASLSSSLPASSQPRPPSSS  
 LALGDSSLSSDPANACLPHWCLTCATLNEPWAVFCAVCSQPKGCKVPGIEGSHGTGGLEPEPARDQWAC  
 QSCTFENEAAAVLCAICERPRLAQPPSLVVDSDHAGVCQQLKQEDPLL TAAQPQVWYCDHCTFCNSGPV  
 WVCAMNRTDPIPTQPALQSYSSLEKGRPKGSSQHLGSSLPASCSDPEKQRQDKMRKEGLQLVSMIQ  
 EGETAGASPEEVFSALQYSGTEVPLQWLRSEL SYVLEMVAELAGQQDPELGAFSCQEARKAWLDRHGNLD  
 EAVEECVRARRRVHELQSLGFGPKEGSLQALFQHGGDVARALTELQRQRLEPFHQRLWDRDPEPTPCWD  
 GLDRQSLVRRLLAVYTLPSWGRAELALALLQETPRNYELLDVVEAVRHSQDRAFLRLLAQECAVCGWAL  
 PRNRMQALISCECTICPECFRQHFTIALKEKHITDMVCPACGRPDLTDDAQLLSYFSTLDIQLRESLDPD  
 AYALFHKKLTEAVLMRDPKFLWCAQCSFGFIYEREQLEATCPQCHQTFVCRCKRQWEEQHRGRSCDFQN  
 WKRTNDPEYQAQGLAMYLQENGIDCPKCKFSYALARGGCMHFHCTQCRHQFCSGCYNAFYAKNKCPDPNC  
 KVKKSLHGHHPRDCLFYLRDWTAAARLQKLLQDNNVMFNTEPPAGTRAVPGGGCRVMEQKEVHSGFRDEAC  
 GKETPPGYAGLCAHYKEYLVSLINAHSLDPATLYEVEELETATIRYLHLAPQPADGEDLPAYQARLLQK  
 LREEVPLGQSIARRRK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_194346

**ORF Size:** 3201 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\\_194346.3](#)

**RefSeq Size:** 3443 bp

**RefSeq ORF:** 3201 bp

**Locus ID:** 268749

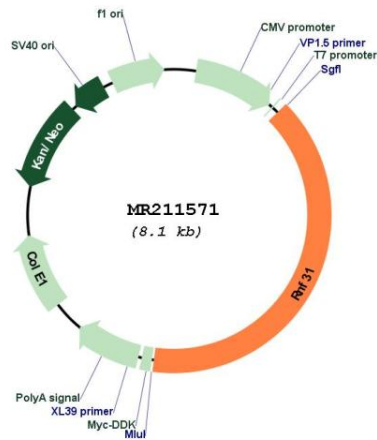
**UniProt ID:** [Q924T7](#)

**Cytogenetics:** 14 C3

**MW:** 119.3 kDa

**Gene Summary:** E3 ubiquitin-protein ligase component of the LUBAC complex which conjugates linear ('Met-1'-linked) polyubiquitin chains to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation (PubMed:28701375). LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways (By similarity). Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation (PubMed:28701375). Recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex (By similarity). Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis (By similarity). Binds polyubiquitin of different linkage types (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211571