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Product datasheet for MG211571

Rnf31 (NM_194346) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnf31 (NM_194346) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rnf31
Synonyms:	AL033293; BC031509; Flj10111; HOIP; mFLJ00217; Paul
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG211571 representing NM_194346
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGGAGACGAGGAGCGAGGCTTCCTGGCGGCCCGCGAGGAGCTGGCGAGCGCCCTGAGGTGGGATT
CTGCGCAGGTTTTTCCCCTGGAGCAGCTCATGCCGCTTCTGGCCACCTCTCTGCCACCAGCCGCCCGCTA
CCTGCAGCTGGACGCCGGACGCTTGGTCCGCTGCAACGCTCATGGGGAGCCTCGAAACTACCTCAACACC
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GCTTTCAGAGTTTCACCCCCTTCTGAGGGAGATTGTTCCTGGCCCCCGCCCCTCTGCCCAAGGCTCCACT
CCTGGTCCCTGTTTCCTCTGTGGTTCTGCCCCAGGCACACTGCACTGTCCAGCCTGTAACCAAGTCTCGT
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GAAGGAGAAACTGCGGGTGCCAGTCCAGAAGAGGTCTTCTCAGCTCTCCAATACTCAGGCACAGAGGTGC
CCCTCCAGTGGTTGCGTTCAGAGCTGTCCTACGTCCTGGAGATGGTGGCTGAGCTTGCTGGACAACAGGA
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CCTACATTTAGCTCCTCAGCCCGCGGATGGAGAGGATCTGCCTGCTTACCAGGCCCGGCTATTACAGAAG
CTGAGAGAAGAGGTACCCTTGGGACAGAGTATTGCCCGCAGAAGAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211571 representing NM_194346
Red=Cloning site Green=Tags(s)

MPGDEERGFLAAREELASALRWDSAQVFPLEQLMPLLATSLPPAARYLQLDAGRLVRCNAHGEPRNYLNT
LSTALNILEKYGRNLLSPQRPRYWRSVKFNNPVFRSTVDAVQGGRDVLRLYGYTEERPDGLSFPEGQEEP
DEYQVAVVTLEVLLLRTELSLLLQNTHPRQNALDQLLRESVEDGMLQLSEFHPLLREIVPGPRPSAQGST
PGPCFLCGSAPGTLHCPACNQVSCPACDILFHGHPSRAHHLRQALPGSHQTASLSSSLPASSQPRPPSSS
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EAVEECVRARRRKVHELQSLGFGPKEGSLQALFQHGGDVARALTELQRQRLEPFHQRLWDRDPEPTPCWD
GLDRQSLVRRLLAVYTLPSWGRAELALALLQETPRNYELLDVVEAVRHSQDRAFLRRLLAQECAVCGWAL
PRNRMQALISCECTICPECFRQHFTIALKEKHITDMVCPACGRPDLTDDAQLLSYFSTLDIQLRESLDPD
AYALFHKKLTEAVLMRDPKFLWCAQCSFGFIYEREQLEATCPQCHQTFCVRCKRQWEEQHRGRSCEDFQN
WKRTNDPEYQAQGLAMYLQENGIDCPKCKFSYALARGGCMHFHCTQCRHQFCSGCYNAFYAKNKCPDPNC
KVKKSLHGHHPRDCLFYLRDWTAARLQKLLQDNNVMFNTEPPAGTRAVPGGGCRVMEQKEVHSGFRDEAC
GKETPPGYAGLCQAHYKEYLVSLINAHSLDPATLYEVEELETATIRYLHLAPQPADGEDLPAYQARLLQK
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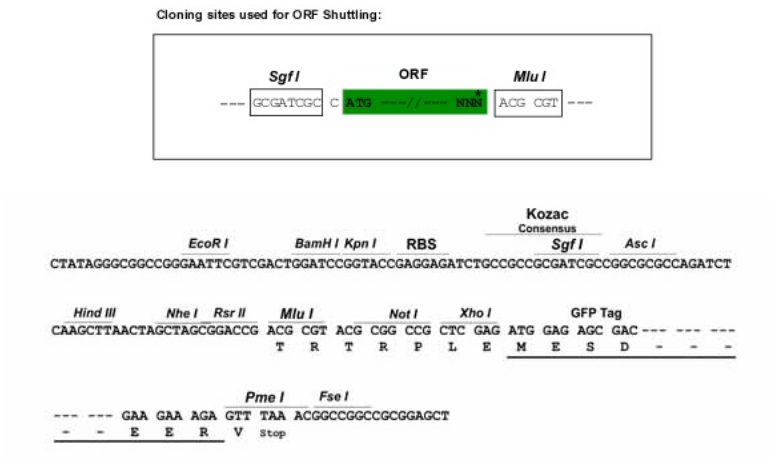
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



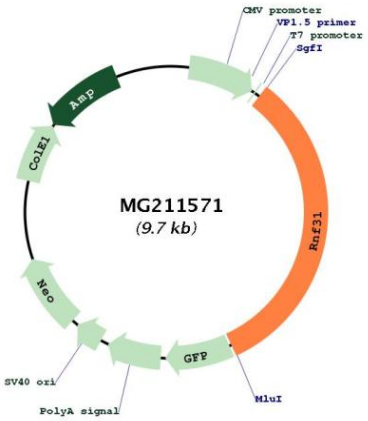
ACCN:	NM_194346
ORF Size:	3198 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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

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 MG211571