

Product datasheet for **MR230301**

Rbck1 (NM_019705) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbck1 (NM_019705) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbck1
Synonyms:	AL033326; HOIL-1; HOIL-1L; Ubce7ip3; UIP28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230301 representing NM_019705
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAGAAGACCAAGAAAGCAGAGGAGATGGCCCTGAGCCTTGCCCGGGCAGTGGCTGGCGGAGATG
 AACAGGCTGCTATCAAGTATGCCACCTGGCTGGCAGAGCAGAGGGTGCCCTCAGGGTGCAGTAAACC
 CGAGGTCTCCCAACACAGGACATCAGGCTCTGTGTGAGTGTGGAGGATGCGTACATGCACACCGTCACC
 ATTTGGCTCACAGTACGCCCGGATATGACAGTGGCCTCCCTTAAGGACATGGTATTCCTGGACTATGGCT
 TCCCACCTAGCCTGCAGCAGTGGTGGTGGACAGAGGCTGGCACGAGACCAGGAGACCTTGCAATCACA
 CGGCATTCGGCGGAATGGAGACGGTGCCTATCTCTACCTGCTGTGAGCCGCAACACGTCCTCAACCCA
 CAAGAGCTGCAGCGGCAGCGCAACTGCGAATGTTGGAAGATTTGGGCTCAAGGACCTCACCTTCAGT
 CACGGGGGCCCTTGAACCTGTCTTCCGAAGCCAGGACCAACCAGGAGCCGGGACAGCCAGATGCAGC
 ACCGGAGTCAACACCGGTGGGCTGGCAGTGCCTGGCTGCACTTTCATCAACAAACCCACACGGCCTGGG
 TGTGAGATGTGCTGTCTGCAAGGCCTGAGACCTACCAGATACCTGCTTCATACAGCCTGACGAGGAAG
 AGCGAGCACGCCTGGCCGGCAGGAGGAGGCGCTGCGCCAGTACCAGCAGCGAAACAGCAGCAGAGGA
 GGGAACTACCTGCAGCACGTGCAGCTGGAGCAGAGGAGCCTGGTGTGAACACCGAACCTACTGAGTGC
 CCTGTGTGCTACTCAGTGTGCCACCCGGCAGGCCGTGGTGTGCGTGAGTGTCTGCACACCTTCTGCA
 GGGAGTGCCTGCAGGGCACCATCCGAAACAGCCAGGAGCGGAGGTGGCTTGCCCTTCATTGACAGCAC
 TACTCATGCCCGGCAAGCTGCTGGAGAGAGAGATCCGGGCGCTCCTGTCCCCTGAGGACTACCAGCGT
 TTCTGGATCTGGGTGTGCCATCGCAGAGAACCGAAGCACCTTGAGCTACCAGTCAAGACCCCGGACT
 GCAGGGTGTGGTCTTTGAGGATGATGTCAACGAGTTCACCTGTCTGTGTCACCCGTGTCAACTG
 CCTGCTCTGCAAGGCCATCCATGAGCACATGAATTGACAGGAGTACCAAGACGACCTGGCCCTGCGGGCT
 CAGAATGATGTGCTGCCCGGCAGACGACAGAGATGCTAAAGGTAATGCTGCAGCAGGGCGAGGCCATGC
 ACTGCCACAGTCCGGATTGTGGTGCAGAAGAAGGACGGCTGTGACTGGATCCGCTGTACAGTCTGCCA
 CACTGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCAGGGGGCCAGGGGACACCAGTGGTGGC
 TGCCGCTGCCGGTCAATGGGATTCCATGCCACCAAGCTGTCAAACCTGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230301 representing NM_019705
 Red=Cloning site Green=Tags(s)

MDEKTKKAEEMALSLARAVAGGDEQAAIKYATWLAEQRVPLRVQVKPEVSPTQDIRLCVSVEDAYMHTVT
 IWLTVRPDMTVASLKDMVFLDYGFPPSLQWVVGQRLARDQETLHSHGIRRNQDGAAYLYLLSARNTSLNP
 QELQRQRQLRMLEDLGFKDLTLQSRGPLEPVLPKPRTNQEPGQPDAAPEPPVWQCPGCTFINKPTRPG
 CEMCCRARPEYQIPASYQPDEEERARLAGEEALRQYQQRKQQQEGNYLQHVQLEQRSVLNTEPTEC
 PVCYSVLAPGEAVVLRCLHTFCRECLQGTIRNSQEAEVACPFIDSTYSCPGKLLEREIRALLSPEDYQR
 FLDLGVSAENRSTLSYHCKTPDCRGWCFEDDVNEFTCPVCTRNVNLLCKAIHEHMNCREYQDDLALRA
 QNDVAARQTTEMLKVMLQQGEAMHCPQCRIVVQKKDGDWIRCTVCHTEICWVTKGPRWGPGGPDTSSG
 CRCRVNGIPCHPSCQNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019705

ORF Size: 1524 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_019705.3](#), [NP_062679.2](#)

RefSeq Size: 2251 bp

RefSeq ORF: 1527 bp

Locus ID: 24105

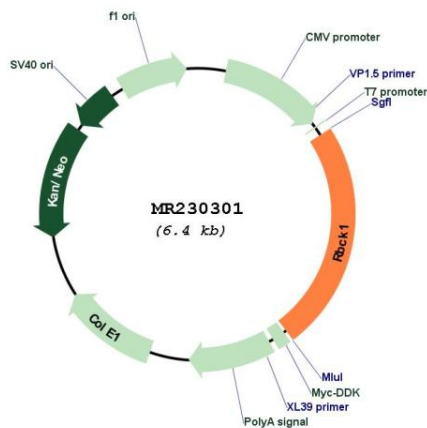
UniProt ID: [Q9WUB0](#)

Cytogenetics: 2 G3

MW: 57.5 kDa

Gene Summary: E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, such as UBE2L3/UBCM4, and then transfers it to substrates. Functions as an E3 ligase for oxidized IREB2 and both heme and oxygen are necessary for IREB2 ubiquitination. Promotes ubiquitination of TAB2 and IRF3 and their degradation by the proteasome. 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. LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways. Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation. LUBAC is 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. Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis. Binds polyubiquitin of different linkage types (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230301