

Product datasheet for MR206134

Rmnd5b (NM_025346) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rmnd5b (NM_025346) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rmnd5b
Synonyms:	0610039K22Rik; Gid2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206134 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCAGTGTGCCTGTGTGGAGAGGGAGCTGGACAAGGTCCTGCACAAGTTCTAACCTACGGGCAGC
ATTGCGAGCAGAGTCTGGAGGAGCTGCTGCACTCCGTGGCCAGCTGAGAGCCGAGCTGGCCAGTGCAGC
TCTCCAGGGCACCCCTCTCAGCCACGCTGTCCCTTGTGATGTCCAGTGTGTCGGAAGATCAGAGAC
ACAGTCCAGAACTGGCTCCGACCATAAAGACATTCACAGCAGCGTCTCTCGAGTGGGCAAAGCCATTG
ACAGGAACCTCGACTCTGAGATCTGCGGCGTGGTCTCGGATGCTGTGTGGGACTCCCGTGAGAAGCAGCA
GCAGATCCTGCAGATGGCCATCGTAGAGCACCTGTACCAGCAAGGCATGCTCAGTGTAGCGGAGGAGCTG
TGCCAGGAATCGACATTGAATGTGGACCTGGACTTCAAGCAGCCCTTCTTGGAGTTGAATCGGATCTTGG
AAGCTCTGCACGAGCAAGACCTAGGACCTGCGCTGGAATGGGCTGTATCTCACAGGCAGCGCCTGTGGA
GCTCAACAGCTCGCTGGAGTTCAAGCTGCACCGGCTGCACTTTATCCGCCTCCTAGCTGGGGGCCCGAG
AAGCAGCTGGAGGCCCTCAGCTATGCTCGGCACTCCAGCCTTTTGTAGGCTACACCAGAGAGAGATCC
AAGTGTAGTGGGAGTCTGGTGTACCTGCGGCTGGGCTGGAGAAGTCAACCTACTGCCACCTCTTAGA
CAACAGCCACTGGGCGGAGATCTGTGAGACCTTACTCGGGATGCATGCTCCCTCCTGGACTTTTCAGTG
GAGTCCCCTTAGTGTGACCTTCGCGTCTGGCTGTGTGGCGCTGCCCGTGTGATGAACATTAAGCTG
TGATCGAACAGAGGCAGTGCAGTGGGGTGTGGAGTCACAAGGATGAGTTGCCGATTGAGATAGAGCTGGG
CATGAAGTGTGTTACCACTCAGTGTTCATGCCCTATCCTGCGACAGCAGACCTCAGATTCCAACCCC
CCCATCAAGCTCATCTGTGGCCAGTCACTCCAGAGATGCACTCAACAACTCATCAATGGAGGAAAGC
TAAAGTGTCCCTACTGTCCCATGGAACAGAATCCAGCAGATGGGAAACGCATCATATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206134 protein sequence
 Red=Cloning site Green=Tags(s)

```
MEQCACVERELDKVLHKFLTYGQHCEQSLEELLHSVGLRAELASAAALQGTPLSATLSLVMSSQCCRKIRD
TVQKLASDHKDIHSSVSRVKGKIDRNFDSEICGVVSDAVWDSREKQQQILQMAIVEHLYQQGMLSVAEEL
CQESTLNVDLDFKQPFLELNRIEALHEQDLGPALWVSHRQRLLELNSLSEFKLHRLHFIRLLAGGPE
KQLEALSARHFQPFARLHQREIQVMMGSLVYLRLGLEKSPYCHLLDNSHWAEICETFFTRDACLGLSV
ESPLSVSFASGCVALPVLNMIKAVIEQRQCTGVVSHKDELPIEIELGMKCWYHSVFACPILRQQTSDSNP
PKLICGHVISRDALNKLINGGKLKPCYCPMEQNPADGKRIF
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_025346

ORF Size: 1182 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_025346.1](#), [NP_079622.1](#)

RefSeq Size: 1946 bp

RefSeq ORF: 1182 bp

Locus ID: 66089

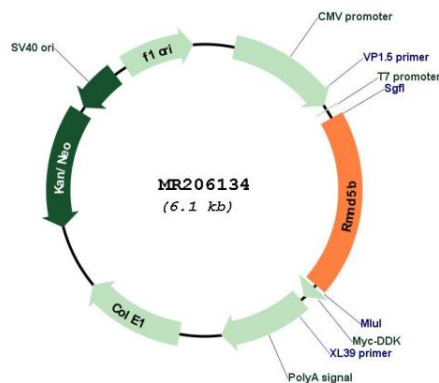
UniProt ID: [Q91YQ7](#)

Cytogenetics: 11 B1.3

MW: 44.4 kDa

Gene Summary: Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1. MAEA and RMND5A are both required for catalytic activity of the CTLH E3 ubiquitin-protein ligase complex. Catalytic activity of the complex is required for normal cell proliferation. The CTLH E3 ubiquitin-protein ligase complex is not required for the degradation of enzymes involved in gluconeogenesis, such as FBP1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206134