

## Product datasheet for **RC200863**

### RMND5B (NM\_022762) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RMND5B (NM_022762) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RMND5B
Synonyms:	GID2; GID2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200863 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGCAGTGTGCGTGCCTGGAGAGAGAGCTGGACAAGGTCCTGCAGAAGTTCCTGACCTACGGGCAGC  
ACTGTGAGCGGAGCCTGGAGGAGCTGCTGCACTACGTGGGCCAGCTGCGGGCTGAGCTGGCCAGCGCAGC  
CCTCCAGGGGACCCCTCTCAGCCACCCTCTCTGGTGATGTCACAGTGTGCCGGAAGATCAAAGAT  
ACGGTGCAGAACTGGCTTCGGACCATAAGGACATTCACAGCAGTGTATCCCGAGTGGGCAAAGCCATTG  
ACAGGAACCTCGACTCTGAGATCTGTGGTGTGTGTCAGATGCGGTGTGGGACGCGGGGAACAGCAGCA  
GCAGATCCTGCAGATGGCCATCGTGGAACACCTGTATCAGCAGGGCATGCTCAGCGTGGCCGAGGAGCTG  
TGCCAGGAATCAACGCTGAATGTGGACTTGGAATTCAGCAGCCTTTCCTAGAGTTGAATCGAATCCTGG  
AAGCCCTGCACGAACAAGACCTGGGTCCTGCGTTGGAATGGGCCGCTCCACAGGCAGCGCCTGTGGA  
ACTCAACAGCTCCCTGGAGTTCAAGCTGCACCGACTGCACTTCATCCGCCTTTGGCAGGAGGCCCGCG  
AAGCAGCTGGAGGCCCTCAGCTATGCTCGGCACTCCAGCCCTTGTGCGGTGCACCAGCGGGAGATCC  
AGGTGATGATGGGCAGCCTGGTGTACCTGCGGCTGGGCTGGAGAAGTCAACCTACTGCCACCTGCTGGA  
CAGCAGCCACTGGGCAGAGATCTGTGAGACCTTACCCGGGACGCTGTCCCTGCTGGGCTTTCTGTG  
GAGTCCCCCTTAGCGTCAGCTTTGCCTGCGTGTGTGGCCTGCCTGTGTTGATGAACATCAAGGCTG  
TGATTGAGCAGCGCAGTGCAGTGGGCTGGAATCACAAGGACGAGTTACCGATTGAGATTGAACATAGG  
CATGAAGTGCTGTTACCACTCCGTGTTGCTTGCCTCCATCCTCCGCCAGCAGACGTGAGATTCAACCCCT  
CCCATCAAGCTCATCTGTGGCCATGTTATCTCCGAGATGCACTCAATAAGCTCATTAAATGGAGGAAAGC  
TGAAGTGTCCCTACTGTCCCATGGAGCAGAACCCGGCAGATGGGAAACGCATCATATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200863 protein sequence  
Red=Cloning site Green=Tags(s)

MEQCACVERELDKVLQKFLTYGQHCCERSLEELLHYVQQLRAELASAAALQGTPLSATLSLVMQCCCRKIKD  
 TVQKLASDHKDIHSSVSRVKGKIDRNFDSEICGVVSDAVWDAREQQQIILQMAIVEHLYQQGMLSVAEEL  
 CQESTLNVDLDFKQPFLELNRIEALHEQDLGPALWVSHRQRLLELNSLSEFKLHRLHFIRLLAGGPA  
 KQLEALSYARHFQPFARLHQREIQVMGSLVYLRLGLEKSPYCHLLDSSHWAIEICETFTRDACSLGLSV  
 ESPLSVSFASGCVALPVLNMIKAVIEQRQCTGVWNHKDELPIEIELGMKCWYHSVFACPILRQQTSDSNP  
 PTKLICGHVISRDALNKLINGGKLCPCPMEQNPADGKRIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6577\\_e02.zip](https://cdn.origene.com/chromatograms/mk6577_e02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022762

**ORF Size:** 1179 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\\_022762.5](#)

**RefSeq Size:** 1984 bp

**RefSeq ORF:** 1182 bp

**Locus ID:** 64777

**UniProt ID:** [Q96G75](#)

**Cytogenetics:** 5q35.3

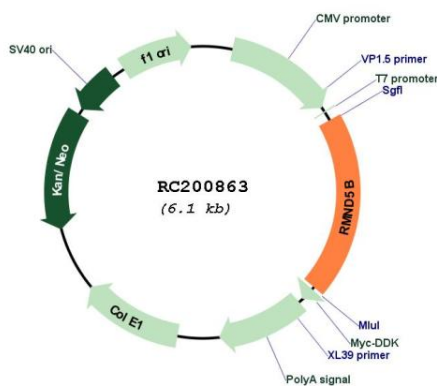
**Domains:** LisH, CTLH

**Protein Families:** Stem cell - Pluripotency

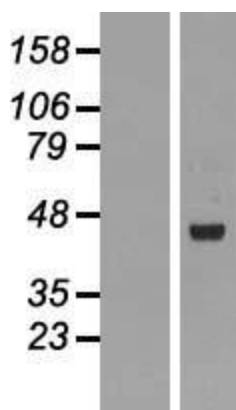
**MW:** 44.4 kDa

**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 (PubMed:29911972). Catalytic activity of the complex is required for normal cell proliferation (PubMed:29911972). The CTLH E3 ubiquitin-protein ligase complex is not required for the degradation of enzymes involved in gluconeogenesis, such as FBP1 (PubMed:29911972).[UniProtKB/Swiss-Prot Function]

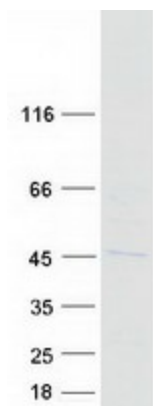
### Product images:



Circular map for RC200863



Western blot validation of overexpression lysate (Cat# [LY411580]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200863 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RMND5B protein (Cat# [TP300863]). The protein was produced from HEK293T cells transfected with RMND5B cDNA clone (Cat# RC200863) using MegaTran 2.0 (Cat# [TT210002]).