

Product datasheet for **RG200863**

RMND5B (NM_022762) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RMND5B (NM_022762) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RMND5B
Synonyms:	GID2; GID2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200863 representing NM_022762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCAGTGTGCGTGCCTGGAGAGAGAGCTGGACAAGGTCCTGCAGAAGTTCCTGACCTACGGGCAGC
ACTGTGAGCGGAGCCTGGAGGAGCTGCTGCACTACGTGGGCCAGCTGCGGGCTGAGCTGGCCAGCGCAGC
CCTCCAGGGGACCCCTCTCAGCCACCCTCTCTGGTGATGTCACAGTGTGCCGGAAGATCAAAGAT
ACGGTGCAGAACTGGCTTCGGACCATAAGGACATTCACAGCAGTGTATCCCGAGTGGGCAAAGCCATTG
ACAGGAACCTCGACTCTGAGATCTGTGGTGTGTGTCAGATGCGGTGTGGGACGCGGGAACAGCAGCA
GCAGATCCTGCAGATGGCCATCGTGGAACACCTGTATCAGCAGGGCATGCTCAGCGTGGCCGAGGAGCTG
TGCCAGGAATCAACGCTGAATGTGGACTTGGAATTCAGCAGCCTTTCCTAGAGTTGAATCGAATCCTGG
AAGCCCTGCACGAACAAGACCTGGGTCCTGCGTTGGAATGGGCCGCTCTCCACAGGCAGCGCCTGTGGA
ACTCAACAGCTCCCTGGAGTTCAAGCTGCACCGACTGCACTTCATCCGCCTTTGGCAGGAGGCCCGCG
AAGCAGCTGGAGGCCCTCAGCTATGCTCGGCACTCCAGCCCTTGTGCGGTGCACCAGCGGGAGATCC
AGGTGATGATGGGCAGCCTGGTGTACCTGCGGCTGGGCTGGAGAAGTCAACCTACTGCCACCTGCTGGA
CAGCAGCCACTGGGCAGAGATCTGTGAGACCTTACCCGGGACGCTGTCCCTGCTGGGCTTTCTGTG
GAGTCCCCCTTAGCGTCAGCTTTGCCTCTGGCTGTGTGGCCTGCCTGTGTTGATGAACATCAAGGCTG
TGATTGAGCAGCGCAGTGCAGTGGGCTGGAATCACAAGGACGAGTTACCGATTGAGATTGAACATAGG
CATGAAGTGTGTTACCACTCCGTGTTGCTTGCCTTCCGCCAGCAGACGTGAGATTCAACCCCT
CCCATCAAGCTCATCTGTGGCCATGTTATCTCCGAGATGCACTCAATAAGCTCATTAAATGGAGGAAAGC
TGAAGTGTCCCTACTGTCCCATGGAGCAGAACC CGCAGATGGGAAACGCATCATATTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200863 representing NM_022762
Red=Cloning site Green=Tags(s)

```
MEQCACVERELDKVLQKFLTYGQHCCERSLEELLHYVVGQLRAELASAAALQGTPLSATLSLVMSSQCCRKIKD
TVQKLASDHKDIHSSVSRVKGKIDRNFDFSEICGVVSDAVVDAREQQQIILQMAIVEHL YQQGMLSVAEEL
CQESTLNVDLDFKQPFLELNRIEALHEQDLGPALEWAVSHRQRLELNSLSEFKLHRLHFIRLLAGGPA
KQLEALSARHFQPFARLHQREIQVMMGSLVYLRLGLEKSPYCHLLDSSHWAEICETFFTRDACLGLSV
ESPLSVSFASGCVALPVLNMIKAVIEQRQCTGVWNHKDELPIEIELGMKCWYHSVFACPILRQQTSDSNP
PIKLICGHVISRDALNKLINGGKLCPCYCPMEQNPADGKRIF
```

TRTRPLE - GFP Tag - V

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: 1825 bp

RefSeq ORF: 1182 bp

Locus ID: 64777

UniProt ID: [Q96G75](#)

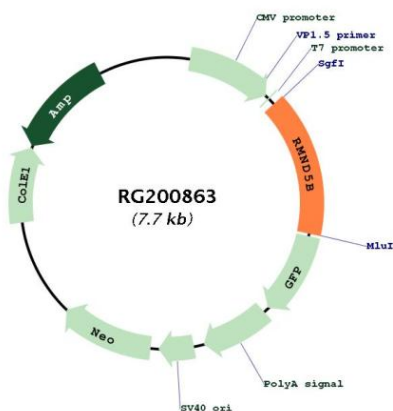
Cytogenetics: 5q35.3

Domains: LisH, CTLH

Protein Families: Stem cell - Pluripotency

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 RG200863