

Product datasheet for **RC237861**

RMND5B (NM_001288795) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RMND5B (NM_001288795) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RMND5B
Synonyms: GID2; GID2B
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237861 representing NM_001288795
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGACTGCAGCCTTGACCTCCCGGGCTCAAGCAGTCTCCGTCACCTCAGCCTTCTGAGGAGCT
 GGGACCACAGGCGTGTGCCACCATGCCAGCCCTCCAGGGGACCCCTCTCTCAGCCACCCCTCTCTGGT
 GATGTCACAGTGTGCCGAAGATCAAAGATACGGTGCAGAACTGGCTTCGGACCATAAGGACATTCAC
 AGCAGTGTATCCCGAGTGGGCAAAGCCATTGACAGGAACCTCGACTCTGAGATCTGTGGTGTGTGTCAG
 ATGCGGTGTGGGACGCGCGGGAACAGCAGCAGCAGATCCTGCAGATGGCCATCGTGGAACACCTGTATCA
 GCAGGGCATGCTCAGCGTGGCCGAGGAGCTGTGCCAGGAATCAACGCTGAATGTGGACTTGGATTCAAG
 CAGCCTTTCCTAGAGTTGAATCGAATCCTGGAAGCCCTGCACGAACAAGACCTGGGTCTGCGTTGGAAT
 GGGCCGTCTCCACAGGCAGCGCCTGCTGGAACCAACAGCTCCCTGGAGTTCAAGCTGCACCGACTGCA
 CTTCCATCCGCCTTTGGCAGGAGGCCCGCAAGCAGCTGGAGGCCCTCAGCTATGCTCGGCACTCCAG
 CCCTTTGCTCGGCTGCACCAGCGGAGATCCAGGTGATGATGGCAGCCTGGTGTACCTCGGCTGGGCT
 TGGAGAAGTACCCTACTGCCACCTGCTGGACAGCAGCCACTGGGCAGAGATCTGTGAGACCTTTACCCG
 GGACGCCTGTTCCCTGCTGGGGCTTTCTGTGGAGTCCCCCTTAGCGTCAGCTTTGCCTCTGGCTGTGTG
 GCGCTGCCTGTGTGATGAACATCAAGGCTGTGATTGAGCAGCGCAGTGCAGTGGGCTCTGGAATCACA
 AGGACGAGTTACCGATTGAGATTGAACTAGGCATGAAGTGTGGTACCACTCCGTGTTCCGTTGCCCAT
 CCTCCGCCAGCAGACGTGAGATTCCAACCTCCCATCAAGCTCATCTGTGGCCATGTTATCTCCCGAGAT
 GCACTCAATAAGCTCATTAAATGGAGGAAAGCTGAAGTGTCCCTACTGTCCCATGGAGCAGAACCCGGCAG
 ATGGGAAACGCATCATATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237861 representing NM_001288795
Red=Cloning site Green=Tags(s)

MADCSLDLPGSSSPSHLSLLRSWDHRRVPPCPALQGTPLSATLSLVMSQCCRKIKDVTQKLASDHDKDIH
 SSVSRVGAIDRNFDFSEICGVVSDAVWDAREQQQILQMAIVEHL YQQGMLSVAEELCQESTLNVDLDFK
 QPFLELNRIEALHEQDLGPALEWAVSHRQRLLELNSSLEFKLHRLHFIRLLAGGPAKQLEALSYARHFQ
 PFARLHQREIQVMMGSLVYLRLGLEKSPYCHLLDSSHWAEICETFTRDACSLGLSVESPLSVSFASGCV
 ALPVL MNIAKAVIEQRQCTGVWNHKDELPIEIELGMKCWYHSVFACPI LRQQTSDSNPPIKLI CGHVISR
 ALNKLINGGKLCPCYCPMEQNPADGKRIIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

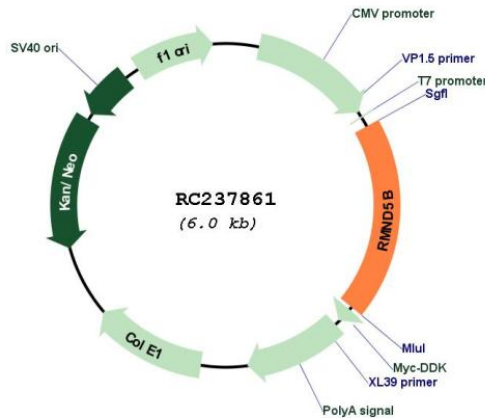
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288795

ORF Size:	1140 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:	<ol style="list-style-type: none">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_001288795.1 , NP_001275724.1
RefSeq Size:	1973 bp
RefSeq ORF:	1143 bp
Locus ID:	64777
UniProt ID:	Q96G75
Cytogenetics:	5q35.3
Protein Families:	Stem cell - Pluripotency
MW:	43.1 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]