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Product datasheet for RG237938

RMND5B (NM_001288794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RMND5B (NM_001288794) 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:

>RG237938 representing NM_001288794.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCAGTGTGCGTGCGTGGAGAGAGAGCTGGACAAGGTCCTGCAGAAGTTCCTGACCTACGGGCAG
CACTGTGAGCGGAGCCTGGAGGAGCTGCTGCACTACGTGGGCCAGCTGCGGGCTGAGCTGGCCAGCGCA
GCCCTCCAGGGGACCCCTCTCTCAGCCACCCTCTCTCTGGTGATGTCACAGTGCTGCCGGAAGATCAAA
GATACGGTGCAGAAACTGGCTTCGGACCATAAGGACATTCACAGCAGTGTATCCCGAGTGGGCAAAGCC
ATTGACAGGAACTTCGACTCTGAGATCTGTGGTGTTGTGTCAGATGCGGTGTGGGACGCGCGGGAACAG
CAGCAGCAGATCCTGCAGATGGCCATCGTGGAACACCTGTATCAGCAGGGCATGCTCAGCGTGGCCGAG
GAGCTGTGCCAGGAATCAACGCTGAATGTGGACTTGGATTTCAAGCAGCCTTTCCTAGAGTTGAATCGA
ATCCTGGAAGCCCTGCACGAACAAGACCTGGGTCCTGCGTTGGAATGGGCCGTCTCCCACAGGCAGCGC
CTGCTGGAACTCAACAGCTCCCTGGAGTTCAAGCTGCACCGACTGCACTTCATCCGCCTCTTGGCAGGA
GGCCCCGCGAAGCAGCTGGAGGCCCTCAGCTATGCTCGGCACTTCCAGCCCTTTGCTCGGCTGCACCAG
CGGGAGATCCAGGTGATGATGGGCAGCCTGGTGTACCTGCGGCTGGGCTTGGAGAAGTCACCCTACTGC
CACCTGCTGGACAGCAGCCACTGGGCAGAGATCTGTGAGACCTTTACCCGGGACGCCTGTTCCCTGCTG
GGGCTTTCTGTGGAGTCCCCCCTTAGCGTCAGCTTTGCCTCTGGCTGTGTGGCGCTGCCTGTGTTGATG
AACATCAAGGCTGTGATTGAGCAGCGGCAGTGCACTGGGGTCTGGAATCACAAGGACGAGTTACCGATT
GAGATTGAACTAGGCATGAAGTGCTGGTACCACTCCGTGTTCGCTTGCCCCATCCTCCGCCAGCAGACG
TCAGATTCCAACCCTCCCATCAAGCTCATCTGTGGCCATGTTATCTCCCGAGATGCACTCAATAAGCTC
ATTAATGGAGGAAAGCTGAAGTGTCCCTACTGTCCCATGGAGCAGAACCCGGCAGATGGGAAACGCATC
ATATTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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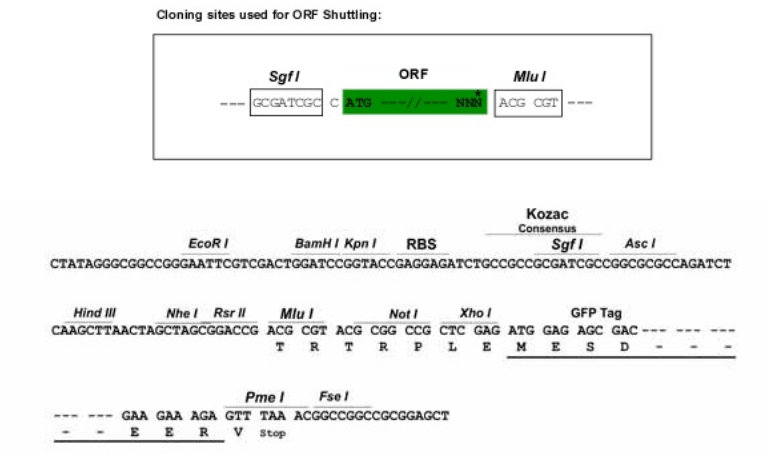
Protein Sequence:

>Peptide sequence encoded by RG237938
Blue=ORF Red=Cloning site Green=Tag(s)

MEQCACVERELDKVLQKFLTYGQHCERSLEELLHYVGQLRAELASAALQGTPLSATLSLVMSQCCRKIK
DTVQKLASDHKDIHSSVSRVGKAIDRNFDSEICGVVSDAVWDAREQQQQILQMAIVEHLYQQGMLSVAE
ELCQESTLNVDLDFKQPFLELNRILEALHEQDLGPALEWAVSHRQRLLELNSSLEFKLHRLHFIRLLAG
GPAKQLEALSYARHFQPFARLHQREIQVMMGSLVYLRLGLEKSPYCHLLDSSHWAEICETFTRDACSLL
GLSVESPLSVSFASGCVALPVLMNIKAVIEQRQCTGVWNHKDELPIEIELGMKCWYHSVFACPILRQQT
SDSNPPIKLICGHVISRDALNKLINGGKLKCPYCPMEQNPADGKRIIF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001288794

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.

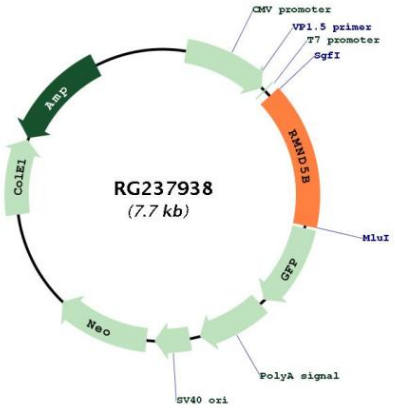
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: NM_001288794.1, NP_001275723.1

RefSeq Size: 2124 bp

RefSeq ORF:	1182 bp
Locus ID:	64777
UniProt ID:	Q96G75
Cytogenetics:	5q35.3
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 RG237938