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Product datasheet for SC335755

RMND5B (NM_001288795) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RMND5B (NM_001288795) Human Untagged Clone
Tag:	Tag Free
Symbol:	RMND5B
Synonyms:	GID2; GID2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335755 representing NM_001288795. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGCTGACTGCAGCCTTGACCTCCCGGGCTCAAGCAGTCCTCCGTCCCACCTCAGCCTTCTGAGGAGC TGGGACCACAGGCGTGTGCCACCATGCCCAGCCCTCCAGGGGACCCCTCTCTCAGCCACCCTCTCTCTG GTGATGTCACAGTGCTGCCGGAAGATCAAAGATACGGTGCAGAAACTGGCTTCGGACCATAAGGACATT CACAGCAGTGTATCCCGAGTGGGCAAAGCCATTGACAGGAACTTCGACTCTGAGATCTGTGGTGTTGTG TCAGATGCGGTGTGGGACGCGCGGGAACAGCAGCAGCAGATCCTGCAGATGGCCATCGTGGAACACCTG TATCAGCAGGGCATGCTCAGCGTGGCCGAGGAGCTGTGCCAGGAATCAACGCTGAATGTGGACTTGGAT TTCAAGCAGCCTTTCCTAGAGTTGAATCGAATCCTGGAAGCCCTGCACGAACAAGACCTGGGTCCTGCG TTGGAATGGGCCGTCTCCCACAGGCAGCGCCTGCTGGAACTCAACAGCTCCCTGGAGTTCAAGCTGCAC CGACTGCACTTCATCCGCCTCTTGGCAGGAGGCCCCGCGAAGCAGCTGGAGGCCCTCAGCTATGCTCGG CACTTCCAGCCCTTTGCTCGGCTGCACCAGCGGGAGATCCAGGTGATGATGGGCAGCCTGGTGTACCTG CGGCTGGGCTTGGAGAAGTCACCCTACTGCCACCTGCTGGACAGCAGCCACTGGGCAGAGATCTGTGAG ACCTTTACCCGGGACGCCTGTTCCCTGCTGGGGCTTTCTGTGGAGTCCCCCCTTAGCGTCAGCTTTGCC TCTGGCTGTGTGGCGCTGCCTGTGTTGATGAACATCAAGGCTGTGATTGAGCAGCGGCAGTGCACTGGG GTCTGGAATCACAAGGACGAGTTACCGATTGAGATTGAACTAGGCATGAAGTGCTGGTACCACTCCGTG TTCGCTTGCCCCATCCTCCGCCAGCAGACGTCAGATTCCAACCCTCCCATCAAGCTCATCTGTGGCCAT GTTATCTCCCGAGATGCACTCAATAAGCTCATTAATGGAGGAAAGCTGAAGTGTCCCTACTGTCCCATG GAGCAGAACCCGGCAGATGGGAAACGCATCATATTCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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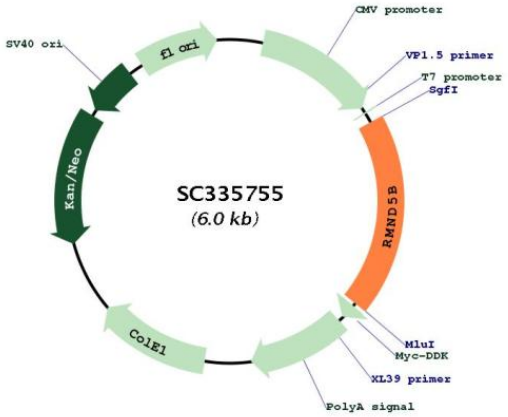
Plasmid Map:



ACCN:	NM_001288795
Insert Size:	1143 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001288795.1
RefSeq Size:	1973 bp
RefSeq ORF:	1143 bp
Locus ID:	64777
UniProt ID:	Q96G75
Cytogenetics:	5q35.3
Protein Families:	Stem cell - Pluripotency
MW:	42.7 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] Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, and uses an alternate start codon, compared to variant 1. The encoded isoform (b) has a shorter and distinct N-terminus, compared to variant 1.