

Product datasheet for SC112425

RMND5A (NM_022780) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RMND5A (NM_022780) Human Untagged Clone
Tag:	Tag Free
Symbol:	RMND5A
Synonyms:	CTLH; GID2; GID2A; p44CTLH; RMD5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112425 sequence for NM_022780 edited (data generated by NextGen Sequencing)

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ATGGATCAGTGCCTGACGGTGGAGCGCAGCTGGAGAAGGTGCTGCACAAGTTCTCAGGC
TACGGGCAGCTGTGCGAGCGCGCCTGGAGGAGCTCATCGACTACACCGCGGCCTCAAG
CACGAGATCCTGCAGAGCCACGGCCAAGATGCTGAATTATCAGGGACACTTTCACTTGTT
TTGACACAGTGTGTAAGAATAAAGGATACTGTTCAAAAATTGGCCTCCGACCACAAA
GACATCCACAGCAGTGTCTCGGGTTGAAAAGCCATTGATAAGAATTTTGATTCTGAC
ATTAGCAGTGTGGGAATAGATGGCTGCTGGCAGGCAGACGCCAAAGGCTTCTCAATGAG
GTGATGGTGGAGCACTTCTTCGACAAGGAATGCTGGATGTGGCTGAGGAGCTCTGCAG
GAATCTGGTCTTCTGTAGACCCAAGTCAGAAGGAACCATTTGTGGAGTTAAATAGAATA
TTAGAGGCATTAAGGTCAGAGTTCTGAGACCTGCTCTGGAGTGGCAGTGTCAAACCGG
GAAATGCTTATAGCTCAAAACAGCTCCTTGAATTTAAGCTACACAGACTGTATTTTATT
AGCTTGTTAATGGGTGGAACACAAATCAGCGAGAGGCATTACAATATGCTAAAAATTTT
CAGCCATTTGCCCTAAATCATCAAAAAGACATTGAGGTTTTGATGGGAAGCCTTGTGTAC
CTGAGACAAGGGATTGAGAACTACCATATGTTACCTACTTGATGCAAACAGTGGGCT
GATATCTGTGACATCTTACACGGGATGCTTGTGCCCTCCTGGGGCTCTCCGTGGAGTCC
CCTCTCAGTGTGAGTTTCTCAGCAGGTTGTGTGGCGCTGCCAGCTTAAATTAACATCAA
GCCGTGATTGAACAGAGGCAGTGTACTGGAGTTTGAACCAGAAAAGATGAATTACCTATT
GAAGTGGACCTTGGTAAAAGTGTGGTATCACTCTATATTTGCCTGCCCATTTCTCGT
CAGCAAAACAAGATAACAATCCACCCATGAAATTTGGTCTGTGGTCATATTATATCAAGA
GATGCCCTGAATAAATGTTAATGGTAGCAAATTAATAATGTCCCTACTGTCCAATGGAA
CAAAGTCCAGGAGATGCCAAACAGATATTTTTCTGA
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Clone variation with respect to NM_022780.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_022780 unedited</p> <pre>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACAGGGGTCGGTCCCGTG AAAACAAAACAATCGGCCGCGCCGTCGCAGGCACCCGAACGTCGCGAGCGGGCCTGGG GACGCGGAGCCGAGTGCAGCGAGCGAACGGGAGCAGCGGCAGCTCGCCGGGGGGCTAGGG CGCCATGGGGCAGGCGGGCTCCGGCTGCGCGGGGCTCCCCGGCGCCGCGGCTAGTGCGC CCGCCCTCGGCCGCTCAGCCTCCCGCGCCGCGCTTGGGGAACGAGGAGCAGGACG CGCCCTCGGTGGGGCCGGGCCGAACGGCTGCGGACACCTGGGCGCCGAGGAGCCGAGCG CGCCCTCTCCGCATGGATCAGTGCGTGACGGTGGAGCGGAGCTGGAGAAGGTGCTGC ACAAGTCTCAGGCTACGGGCAGCTGTGCGAGCGCGCCTGGAGGAGCTATCGACTACA CCGGCGGCCTCAAGCACGAGATCCTGCAGAGCCACGGCCAAGATGCTGAATTATCAGGA CACTTTCACTTGTGTTGACACAGTGCTGTAAAAGAATAAAGGATACTGTTCAAAAATTGG CCTCCGACCACAAAGACATCCACAGCAGTGTCTCGGGTTGAAAAGCCATTGATAAGA ATTTTGATTCTGACATTAGCAGTGTGGGAATAGATGGCTGCTGGCANGCAGACAGCCAAA GGCTTCTCAATGAGGTGATGGTGGGAGCACTTCTTCGACAAGGAATGCTGGATGTGGCT GAGGAGCTCTGCAGGAATCTGGTCTTTCTGTAGACCCAGTCAGAAGACCANTTGTGGGAG TAAAAGATATTAAGCCATAGGGGGNNAATTCTGAGACTGCTTTGGGAGGGGGCATGTC AACCGA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_022780 unedited</p> <pre>NTTTAGCTCTGGACCCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTAACTTTAAAATTTCATTTTATTAACATACTTTTAAAACAAGCACCTTTG GCAATAAAAGCAAAAACAAAAACAACAAAAACCAACCAACAATAGTACTCCT TCCACTCTATGCTAACGGAAGACTTCTCACACCAGCCAGTTAAACAATGAAATTTTAAA CAGCGAGCCTGCTGGGGCTGCATGCAAAGCTAAAATGCAGGTGTGCTGACTTCTTGGAGC TGGAGCAGAGGAAAACATCAAAAAGCATATCTGGAATCTATCACAGCTTTCTTTCTTAAG CAAATAAAAATGCAAATAGTTTCATAACCACAATTCATTTATCAAACCTTTTTCTGAAG AATTTTCAATTAATTATGTATACATAACAGGAAATAAACTTTTTACAAAACACTCTCAA GGCTTACGATTATCAAGAAAATGACAAAAGTAAAAGCAGGAGGAATTTAAACACATGGC GGGGAGGTCAATTTCCGTTTCTGCTCTTAAAAAGTAAAAAATCACCATATAATTAAGTA CAAAAACCTGCATTGAATGACAACCTGCTGGTGTATTTACTTGATCAGAAATGAAGACCAA GAATAATAAAAGCCCTATGATAATATTACCGGGAGCACTCCCCTCAGTGTGTACAC TAACAGGNTGGGCAAGTTCTGGAGCATTAGCTTATAGAAAACACAGGAGTCTTGGNTAG CTGCATTATATGGGACGTTTCTCTCCTGAATGCACCCACGATTCAGTTTCACTTACAAAT TGCAAACATAAGTTATCTCTTCAGAAAAATATCTGTTGGCATCTCCTGAACTTTGTCCAT TGGAAAGNAGGGACATTTAANTTGCTACCATTAACCATTTATCAAGGCATCTCTGAAATAT ATGACC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_022780
Insert Size:	2400 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_022780.2](#), [NP_073617.1](#)

RefSeq Size: 3239 bp

RefSeq ORF: 1176 bp

Locus ID: 64795

UniProt ID: [Q9H871](#)

Cytogenetics: 2p11.2

Domains: LisH, CTLH

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]