

## Product datasheet for **RC212256**

### **RBM25 (NM\_021239) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RBM25 (NM_021239) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RBM25
Synonyms:	fSAP94; NET52; RED120; RNPC7; S164; Snu71
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC212256 representing NM\_021239  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTTTTCCACCTCATTGTAATCGCCCTCCCATGGAATCCCAGCACTCCCACCAGGGATCCCACCCC  
 CGCAGTTTCCAGATTTCTCCACCTGTACCTCCAGGACCCCAATGATTCTGTACCAATGAGCATTAT  
 GGCTCCTGCTCCAAGTCTTAGTACCCACTGTGTCTATGGTTGAAAGCATTGGGCGCAAGAAAGGAT  
 CATCCAGGCTTAAAGGCTAAAGAAAATGATGAAAATTGTGGTCTACTACCACTGTTTTTTGTTGGCAACA  
 TTTCCGAGAAAGCTTCAGACATGCTTAAAGACAACCTTAGCTAAATGTGGTTGGTTTTGAGCTGGAA  
 GAGAGTACAAGGTGCTTCCGAAAGCTTCAAGCCTTCGGATTCTGTGAGTACAAGGAGCCAGAATCTACC  
 CTCGTGCACTCAGATTATTACATGACCTGCAAAATGGAGAGAAAAGCTACTCGTTAAAGTTGATGCAA  
 AGACAAAGGCACAGCTGGATGAATGAAAGCAAAGAAGAAAGCTTCTAATGGGAATGCAAGGCCAGAAAC  
 TGTCACTAATGACGATGAAGAAGCCTTGGATGAAGAAAACAAAGAGGAGAGATCAGATGATTAAGGGGCT  
 ATTTGAAGTTTTAATTCGTGAATACTCCAGTGAGCTAAATGCCCCCTCACAGGAATCTGATTTCCACCCCA  
 GGAAGAAGAAGAAAGAAAAGAAGGAGGACATTTCCGCAGATTTCCAGTGGCCCCACTGATCCCTTATCC  
 ACTCATCACTAAGGAGGATATAAATGCTATAGAAATGGAAGAAGACAAAAGAGACCTGATATCTCGAGAG  
 ATCAGCAAATTCAGAGACACACATAAGAAACTGGAAGAAGAGAAAAGGCCAAAAGGAAAAGAAAGACAGG  
 AAATTGAGAAAGAGCGGAGAGAAAAGAGAGAGGGAGCGTGAAGGGGAAACGAGAAAGGCCGAGAACCGGAAACG  
 AGAAAGGGAAAGAGAACGTGAACGAGAAAAGGAGAAAAGAACGGGAGCGGGAAACGAGAACCGGATAGGGAC  
 CGTGACCGGACAAAAGAGAGAGACCGAGATCGGGATCGAGAGAGAGATCGTGACCGGGATAGAGAAAAGGA  
 GCTCAGATCGTAATAAGGATCGCAGTCGATCAAGAGAAAAGCAGAGATCGTGAAGGGAAACGAGAGCG  
 GGAAAGAGAGAGAGAGAGAGAACGAGAGCGGAGAACGAGAACGGGAGCGAGAGAGAGAGCGAGAGAGGGAA  
 CCGGAGCGAGAAAAGAGAAAAGACAAAACGGGACCGAGAAGAAGATGAAGAAGATGCATACGAACGAA  
 GAAAACCTGAAAGAAAACCTCCGAGAGAAAAGCTGCTTATCAAGAGCGCCTTAAGAATTGGGAAATCAG  
 AGAACGAAAGAAAACCCGGGAATATGAGAAAAGCTGAAAGAGAAGAAGAAAAGAAGAGAAATGGCC  
 AAAGAAGCTAAACGACTAAAAGAATTCTTAGAAGACTATGATGATGATAGAGATGACCCCAATATTACA  
 GAGGAAGTGCTCTTCAGAAAAGTTGCGTGATAGAGAAAAGGAAATGGAAGCAGATGAACGAGATAGGAA  
 GAGAGAGAAGGAGGAGCTTGAGGAAATCAGGCAGCGCCTTCTGGCAGAAGGCATCCAGATCCAGATGCA  
 GAGCTCCAGAGGATGGAACAAGAGGCTGAGAGGCGCAGGCAGCCACAAATAAAGCAAGAGCCAGAATCAG  
 AAGAGGAGGAAGAAGAAAAGCAAGAAAAGAAAGAACGAGAAGAACCCATGGAAGAGGAAGAGGAACC  
 AGAGCAAAAGCCTTGCTGAAACCTACTCTGAGGCCCATCAGCTCTGCTCCATCTGTTTCTCTGCCAGT  
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 CAGATCAACAGCAACCTGAGGAGCATAGGCCAAAATAGGACTAAGTCTTAAACTGGGTGCTTCCAATAG  
 TCCTGGTCAGCCTAATTCTGTGAAGAGAAAAGAACTACCTGTAGATAGTGTCTTTAACAAATTTGAGGAT  
 GAAGACAGTGTGACGTACCCCGAAAAGGAAACTGGTCCCTTGGATTATGGTGAAGATGATAAAATG  
 CAACCAAAGGCACTGTAACACTGAAGAAAAGCGTAAACACATTAAGAGTCTCATTGAGAAAATCCCTAC  
 AGCCAAACCTGAGCTCTTCGCTTATCCCTGGATTGGTCTATTGTGGATTCTATACTGATGGAACGTCGA  
 ATTAGACCATGGATTAATAAGAAAATCATAGAATATATAGGTGAAGAAGAAGCTACATTAGTTGATTTTG  
 TTTGTTCTAAGGTTATGGCTCATAGTTCACCCAGAGCATTTTAGATGATGTTGCCATGGTACTTGATGA  
 AGAAGCAGAAGTTTTATAGTCAAAATGTGGAGATTATTGATATATGAAACAGAAGCCAAGAAAATTGGT  
 CTTGTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212256 representing NM\_021239  
 Red=Cloning site Green=Tags(s)

MSFPFHLNRPPMGIPALPPGIPPPQFGFPPVPPGTPMIPVPM SIMAPAPT VL VPTVSMVGKHLGARKD  
 HPGLKAKENDENCGPTTTVFVGNISEKASDMLIRQLLAKCGLVLSWKRVQGASGKLQAFGFCEYKEPEST  
 LRALRLLHDLQIGEKLLVKVDAKTKAQLDEWKAKKASNGNARPETVNTDDEEALDEETKRRDQMIKGA  
 IEVLIREYSELNAPSQESD SHPRKKKKEKKEDIFRRFPVAPLIPYPLITKEDINAIEMEEDKRDLSRE  
 ISKFRDTHKKLEEEKGKKEKERQEIEKERRERERERERERERERERERERERERERERERERERERE  
 RDRTKERDRDRDRDRDRERSSDRNKDRSRSREKSRDRERERERERERERERERERERERERERE  
 REREREKDKRDREDEEDAYERRKLERKLRKEAAYQERLKNWEIRERKKTREYEKEAEREERREMA  
 KEAKRLKEFLEDYDDDRDDPKYYRGSALQKRLRDREKEMEADERDRKREKEELEIRQLLAEGHPDPA  
 ELQRMEQEAERRRQPIKQEPESEEEEKQEKEEKREEMEEEEPEQKPKLPTLRP ISSAPSVSSAS  
 GNATPNTPGDES PCGIIIPHENSPDQQPEEHRPKIGLSLKL GASNSPGQPNSVKRKKLPVDSVFNK FED  
 ESDDDVPRKRKL VPLDYGEDDKNATKGTVNTTEKRKHIKSLIEKIPTAKPELFAYPLDWSIVDSILMERR  
 IRPWINKKIEYIGEEEEATLVDFVCSKMAHSSPQSILDDVAMVLDEEA E V F I V K M W R L L I Y E T E A K K I G  
 L V K

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

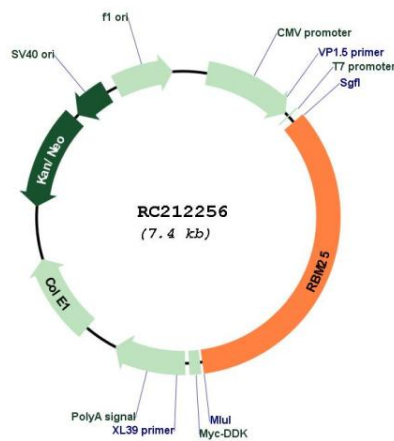
Cloning Scheme:



<b>ACCN:</b>	NM_021239
<b>ORF Size:</b>	2529 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_021239.1</a> , <a href="#">NP_067062.1</a>
<b>RefSeq Size:</b>	4189 bp
<b>RefSeq ORF:</b>	2532 bp
<b>Locus ID:</b>	58517
<b>UniProt ID:</b>	<a href="#">P49756</a>
<b>Cytogenetics:</b>	14q24.2
<b>Protein Pathways:</b>	Spliceosome
<b>MW:</b>	100 kDa

**Gene Summary:**

RNA-binding protein that acts as a regulator of alternative pre-mRNA splicing. Involved in apoptotic cell death through the regulation of the apoptotic factor BCL2L1 isoform expression. Modulates the ratio of proapoptotic BCL2L1 isoform S to antiapoptotic BCL2L1 isoform L mRNA expression. When overexpressed, stimulates proapoptotic BCL2L1 isoform S 5'-splice site (5'-ss) selection, whereas its depletion caused the accumulation of antiapoptotic BCL2L1 isoform L. Promotes BCL2L1 isoform S 5'-ss usage through the 5'-CGGGCA-3' RNA sequence. Its association with LUC7L3 promotes U1 snRNP binding to a weak 5' ss in a 5'-CGGGCA-3'-dependent manner. Binds to the exonic splicing enhancer 5'-CGGGCA-3' RNA sequence located within exon 2 of the BCL2L1 pre-mRNA. Also involved in the generation of an abnormal and truncated splice form of SCN5A in heart failure.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for RC212256