

## Product datasheet for **SC105376**

### **RBM25 (AK026107) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RBM25 (AK026107) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBM25
Synonyms:	fSAP94; NET52; RED120; RNPC7; S164; Snu71
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AK026107, the custom clone sequence may differ by one or more nucleotides

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AAGACCTCCATCAGCTCGCCGCGCAGCGGGCTGTATTTGCGGCCTGTGCGAGTAGGCGCTTGGGCACTC
AGTCTCCCTGGCGAGCGACGGGCAGAAATCTCGAACCAGTGGAGCGCACTCGTAACCTGGATCCCAGAAG
GTCGCGAAGGCAGTACCGTTTCTCAGCGCGGACTGCTGCAGTAAGAATGTCTTTCCACCTCATTTGA
ATCGCCCTCCCATGGGAATCCCAGCACTCCACCAGGGATCCCACCCCGCAGTTTCCAGGATTTCTCC
ACCTGTACCTCCAGGGACCCCAATGATTCTGTACCAATGAGCATTATGGCTCCTGCTCCAAGTGTCTTA
GTACCCACTGTGTCTATGGTTGGAAAGCATTGGGCGCAAGAAAGGATCATCCAGGCTTAAAGGCTAAAG
AAAATGATGAAAATTGTGGTCTACTACCACTGTTTTTGTGGCAACATTTCCGAGAAAGCTTCAGACAT
GCTTATAAGACAACCTTAGCTAAATGTGGTTTGGTTTTGAGCTGGAAGAGAGTACAAGGTGCTTCCGGA
AAGCTTCAAGCCTTCGGATTCTGTGAGTACAAGGAGCCAGAATCTACCCTCCGTGCACTCAGATTATTAC
ATGACCTGCAAATGGAGAGAAAAGCTACTCGTTAAAGTTGATGCAAAGACAAAGGCACAGCTGGATGA
ATGAAAGCAAAGAAGAAAGCTTCTAATGGGAATGCAAGGCCAGAACTGCTACTAATGACGATGAAGAA
GCCTTGGATGAAGAAACAAGAGGAGAGATCAGATGATTAAGGGGCTATTGAAGTTTTAATTCGTGAAT
ACTCCAGTGAGCTAAATGCCCTCACAGGAATCTGATTCTCACCCAGGAAGAAGAAGAAAGAAAGAA
GGAGGACATTTTCCGAGATTTCCAGTGGCCCACTGATCCCTTATCCACTCATCACTAAGGAGGATATA
AATGCTATAGAAATGGAAGAAGACAAAAGACCTGATATCTCGAGAGATCAGCAAATTCAGAGACACAC
ATAAGAACTGGAAGAAGAGAAAGGCAAAAAGGAAAAGAAAGACAGGAAATGAGAAAGAACGGAGAGA
AAGAGAGAGGGAGCGTGAAAGGGAACGAGAAAGGCGAGAACGGGAACGAGAAAGGAAAGAGAACGTGAA
CGAGAAAAGGAGAAAGAACGGGAGCGGGAACGAGAACGGGATAGGGACCGTGACCGGACAAAAGAGAGAG
ACCGAGATCGGGATCGAGAGAGAGATCGTGACCGGATAGAGAAAGGAGCTCAGATCGTAATAAGGATCG
CAGTCGATCAAGAGAAAAAGCAGAGATCGTAAAAGGGAACGAGAGCGGAAAGAGAGAGAGAGAGAA
CGAGAGCGAGAACGAGAACGGGAGCGAGAGAGAGAGCGAGAGAGGGAACGGGAGCGAGAAAGAGAAAAA
AAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AK026107 unedited GAGTCACATTTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGCTCGCCG CGCTGCGCGGCTGATTTTGC GGCTGTGCGAGTAGGCGCTTGGGCACTCAGTCTCCCTGG CGAGCGACGGGCAGAAATCTCGAACCAGTGGAGCGCACTCGTAACCTGGATCCCAGAAGG TCGCGAAGGCAGTACCGTTTCTCAGCGCGGACTGCTGCAGTAAGAATGTCTTTCCAC CTCATTTGAATCGCCCTCCCATGGGAATCCCAGCACTCCCACCAGGGATCCCACCCCGC AGTTTCCAGATTTCTCCACCTGTACCTCCAGGACCCCAATGATTCTGTACCAATGA GCATTATGGCTCCTGCTCCAACGTCTTAGTACCCACTGTGTCTATGGTTGGAAAAGCATT TGGGCGCAAGAAAAGGATCATCCAGGCTTAAAGGCTAAAGAAAATGATGAAAATTGTGGTC CTACTACCACTGTTTTTGTGGCAACATTTCCGAGAAAAGCTTCAGACATGCTTTATAGAC AACTCTTAGCTAANTGTGGTTTGGGTTTGGAGCTGGAAGAGAGTACANGGTGCTTCCGGAA AGCTTCAAGCCTTCGGATTCTGTGAGTACAAGGAGCCAGAATCTANCCCTCGTCACTCA GATTATTACATGACCTGGCAAATGGAGAGAAAAAGCTACTCGTTTAAAGTTGATGCAAA GAACAAAAGCCCAGCTGGGATGAATGGGAAGCCAAAANAAAAAGCTTCTAATGGGGAAT GCAAGGNCCANAACCTGTTCTAATTGACCATGAAAAACCCTTGGGTTGAAAAACAAA GGGGAAAGTTCCGATGATTTAAGGGGGCTATTGAAGTTTTAATTCGGGAAAACCCAGTG GACCTAAAGGCCCTCCAGGAATCTGATTTTCACCCCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK026107
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<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="#">AK026107.1</a> , <a href="#">BAB15362.1</a>
<b>RefSeq Size:</b>	1480 bp
<b>RefSeq ORF:</b>	1480 bp
<b>Locus ID:</b>	58517
<b>Cytogenetics:</b>	14q24.2
<b>Domains:</b>	RRM
<b>Protein Pathways:</b>	Spliceosome

**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]