

Product datasheet for **RN213857**

Rbm5 (NM_001100548) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm5 (NM_001100548) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rbm5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213857 representing NM_001100548
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGGTT**CAGACAAA**AGAGT**GAGT**AGA**ACAGAG**CGT**AGT**GGAAGATAT**GGTTCC**CAT**CATAGAC**AGGGATG
 ACCGTGACGAGCGTGAATCTAGAA**GCAGGCGAGGG**ACTCAGATTACAAAAGATCAAGT**GATGATCGG**AG
 AGGCGATAGATATGATGACTATCGAGACTATGATAGTCCGGAGAGAGA**ACGTGAA**AGAAGGAACAGT**GAC**
 CGGTCTGAGGATGGCTACCATT**CAGATGGT**GACTATGGAGA**ACATGACT**ATAGACATGACAT**CA**GTGACG
 AGAGAGAGAGCAAGACCATGCTCCGTGGCCTTCTATCACCATCACC**GAGAGCG**ATATTCGAGAAAT
 GATGGAGTCC**TTGAAGGCC**CTCAGCCTGCAGATGTGAGGCTGATGAAGAGG**AAAA**CAGGTGTAAGCCGT
 GGTTTCGCCTTCGTGGAGTTTTACTT**GCAAGATGCT**ACCAGCTGGATGGAAGCCAATCAGAAAAAT
 TGGTGATTCAAGGAAAGCACATTGCAATGCATTATAGCAATCCCAGACCTAAGTTTGAAGATTGGCTTTG
 TAA**CAAGT**GCTGCCTTAA**CAATTC**AGGAAAAGACTAAAATGCTTCCGATGTGGAGCAGACAAGTTTGAC
 TCTGAACAGGAAGTGCC**CCCTGGA**ACCACAGAGTCTGTGCA**GTCTGTGG**ACTACTACTGTGACACGATCA
 TCCTTCGGAACATAGCTCCGCAT**ACTGTGGTGG**ACTCCATCATGACAGCACTGTCTCCCTATGCTTCCTT
 AGCTGTCAATAACATTGCCTCATAAAAGACAAACAGACACAACAGAA**CAGAGG**CTTTGCCTTTGTGCAG
 CTATCTTCTGCGATGGATGCCTCTCAGCTGCTT**CAGATATTGC**AGAGTCTCCATCCACCATTGAAAA**TTG**
 ATGGGAAA**ACTATTGG**AGTTGACTTTGCAAAAAGTGCCAGAAAAGATTGGTCCCTCCAGATGGTAACCG
 TGTCAGTGCCTTCTCTGTAGCTAGTACAGCCATCGCTGCTGCTCAGTGGT**CATCC**ACTCAGTCTCAAAGT
 GGTGAAGGAGGCAATGTTGACTACAGTTACATGCAACCAGGCCAGGATGGCTATACACAGTACACTCAAT
 ACTCACAGGATTACCAGCAGTTTTATCAACAACAGACTGGAGGACTGGAGTCTGATGCATCAGCTACATC
 AGGTACCACGGTGACTACCACCTCAGCAGCTGTAGTATCCAGAGTCTCAACTCTATAATCAGACCTCC
 AATCCACCTGGCTCTCCGACTGAGGAAGCACAGCCTAGCACTAGCACAAGTACACAGGCCCCAGCTGCTT
 CCCCTACTGGTGTAGTTCCTGGTACCAAGTATGCGGTACCTGACACGCTACTTATCAATATGATGAATC
 TTCAGGATATTATTATGATCCTACAACAGGGCTCTACTATGACCCTAACTCACAGTACTACTATA**TTCC**
 TTAACACAGCAGTACTTGTACTGGGATGGAGAGAAGGAGACCTACGTGCCAGCTGCAGAGTCTAGCTCTA
 ACCAACAGCTGGCCTACCTTCCACAAAAGAGGGAAAAGGAGAAGAAAGAAAAGGCCAAGAGCAAA**ACTGC**
 TCAACAGATTGCCAAAGACATGGAACGCTGGGCTAAGAGTTTAAATAAGCAGAAAAGAAAATTTAAAAAC
 AGCTTTCAACCTGTCAATTCATTGAGAGAAGAAGAAAGGAGAGAATCTGCTGCAGCAGATGCTGGCTTTG
 CTCTTTTTGAGAAGAAGGGAGCCTTAGCTGAAAGGCAGCAACTCATCCCTGAATTTGGTGGCAAAATGGAGA
 TGAGGAAAATCCCTCAAAGAGGTCTGGTTGCAGCTTACAGTGGT**GACAGT**GACAATGAGGAAGAGCTG
 GTAGAGAGACTTGAGAGT**GAGGA**AGAGAAACTAGCTGACTGGAAGAAGATGGCCTGCCTGCTGTGCCGAC
 GGCAGTCCCAAACAGAGATGCCCTGGTCAGGCACCAGCAGCTCTCTGATTTACACAAGCAAAATATGGA
 CATCTACCGAAGATCCAGGCTGAGCGAGCAGGAGTTGGAAGCCCTGGAGCTGAGAGAGAGAGATGAAA
 TACCGAGATCGAGCAGCAGAAAGACGAGAGAAAATGGAATTCCAGAGCCCCAGAGCCCAAGCGCAAGA
 AACAGTTCGATGCTGGCACTGTGAATTACGAGCAGCCCACCAAAGATGGCATTGACCACAGTAACATTGG
 CAACAAGATGCTGCAGGCTATGGGCTGGCGGGAAGGCTCAGGCTTAGGAAGAAAGTGTCAAGGCATCAGG
 GCTCCCATTGAGGCTCAAGTCCGGCTAAAAGGAGCTGGCTTAGGAGCCAAAGGCAGTGCATATGGGTTGT
 CAGGTGCCGATTCTACAAGATGCTGTT**CGGAA**AGCCATGTTTGCCCGTTCACTGAGATGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001100548
Insert Size: 2448 bp

OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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_001100548.1 , NP_001094018.1
RefSeq Size:	3018 bp
RefSeq ORF:	2448 bp
Locus ID:	300996
UniProt ID:	B2GV05
Cytogenetics:	8q32
Gene Summary:	<p>Component of the spliceosome A complex. Regulates alternative splicing of a number of mRNAs. May modulate splice site pairing after recruitment of the U1 and U2 snRNPs to the 5' and 3' splice sites of the intron. May both positively and negatively regulate apoptosis by regulating the alternative splicing of several genes involved in this process, including FAS and CASP2/caspase-2. In the case of FAS, promotes production of a soluble form of FAS that inhibits apoptosis. In the case of CASP2/caspase-2, promotes production of a catalytically active form of CASP2/Caspase-2 that induces apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]</p>