

## Product datasheet for **RR213857**

### **Rbm5 (NM\_001100548) Rat Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RR213857 representing NM\_001100548  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 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**ACCACAGAGTCTGTGAGTCTGTGGACTACTACTGTGACACGATCA  
 TCCTTCGGAACATAGCTCCGCATCTGTGGTGGACTCCATCATGACAGCACTGTCTCCCTATGCTTCCTT  
 AGCTGTCAATAACATTGCCTCATAAAAGACAAACAGACACAACAGAA**CAGAGG**CTTTGCCTTTGTGCGAG  
 CTATCTTCTGCGATGGATGCCTCTCAGCTGCTT**CAGATATTG**CAGAGTCTCCATCCACCATTGAAAA**TTG**  
 ATGGGAAA**ACTATTGG**AGTTGACTTTGCAAAAAGTGCCAGAAAAGATTGGTCCCTCCAGATGGTAACCG  
 TGTCAGTGCCTTCTGTAGCTAGTACAGCCATCGCTGCTGCTCAGTGGT**CATCC**ACTCAGTCTCAAAGT  
 GGTGAAGGAGGCAATGTTGACTACAGTTACATGCAACCAGGCCAGGATGGCTATACACAGTACACTCAAT  
 ACTCACAGGATTACCAGCAGTTTTATCAACAACAGACTGGAGGACTGGAGTCTGATGCATCAGCTACATC  
 AGGTACCACGGT**GACTACC**ACCTCAGCAGCTGTAGTATCCAGAGTCTCAACTCTATAATCAGACCTCC  
 AATCCACCTGGCTCTCCGACTGAGGAAGCACAGCCTAGCACTAGCACAAGTACACAGGCCCCAGCTGCTT  
 CCCCTACTGGTGTAGTTCCTGGTACCAAGTATGCGGTACCTGACACGCTACTTATCAATATGATGAATC  
 TTCAGGATATTATTATGATCCTACAACAGGGCTCTACTATGACCCTAACTCACAGTACTACTATA**TTCC**  
 TTAACACAGCAGTACTTGTACTGGGATGGAGAGAAGGAGACCTACGTGCCAGCTGCAGAGTCTAGCTCTA  
 ACCAACAAAGCTGGCCTACCTTCCACAAAAGAGGGAAAGGAGAAGAAAGAAAAGGCCAAGAGCAAA**ACTGC**  
 TCAACAGATTGCCAAAGACATGGAACGCTGGGCTAAGAGTTTAAATAAGCAGAAAGAAAATTTTAA**AAAC**  
 AGCTTTCAACCTGTCAATTCATTGAGAGAAGAAGAAAGGAGAGAATCTGCTGCAGCAGATGCTGGCTTTG  
 CTCTTTTGGAGAAGAAGGAGCCTTAGCTGAAAGGCAGCAACTCATCCCTGAATTGGTGGCAAATGGAGA  
 TGAGGAAAATCCCTCAAAGAGGTCTGGTTGCAGCTTACAGTGGT**GACAGT**GACAATGAGGAAGAGCTG  
 GTAGAGAGACTTGAGAGT**GAGGA**AGAGAAACTAGCTGACTGGAAGAAGATGGCCTGCCTGCTGTGCCGAC  
 GGCAGTCCCAAACAGAGATGCCCTGGTCAGGCACCAGCAGCTCTCTGATTTACACAAGCAAAATATGGA  
 CATCTACCGAAGATCCAGGCTGAGCGAGCAGGAGTTGGAAGCCCTGGAGCTGAGAGAGAGAGATGAAA  
 TACCGAGATCGAGCAGCAGAAAGACGAGAGAAAATGGAATTCCAGAGCCCCAGAGCCCAAGCGCAAGA  
 AACAGTTCGATGCTGGCACTGTGAATTACGAGCAGCCCACCAAAGATGGCATTGACCACAGTAACATTGG  
 CAACAAGATGCTGCAGGCTATGGGCTGGCGGGAAGGCTCAGGCTTAGGAAGAAAGTGTCAAGGCATCAGG  
 GCTCCCATTTAGGCTCAAGTCCGGCTAAAAGGAGCTGGCTTAGGAGCCAAAGGCAGTGCATATGGGTTGT  
 CAGGTGCCGATTCTACAAGATGCTGTT**CGGAA**AGCCATGTTTGCCCGTTCACTGAGATGGAG

**ACGCGT**ACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR213857 representing NM\_001100548  
 Red=Cloning site Green=Tags(s)

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MGSDKRVSRTERSGRYGSIIIDRDDRDERESRSTRRRSDYKRSSDDRRGDRYDDYRDYDSPERERERRNSD
RSEdGYHSDGDYGEHDYRHDI SDERESKTIMLRGLPITITESDIEMMESFEGPQPADVRLMKRKTGVSR
GFAFVEFYHLQDATSWMEANQKKLVIQGKHIAMHYSNRPKPFEDWLCNKCLNNFRKRLKCFRCGADKFD
SEQEVPPGTTESVQSVDYYCDTIILRNIAPHTVVDSIMTALSPYASLAVNNIRLIKDKQTQQNRGFAFVQ
LSSAMDASQLLQILQSLHPLKIDGKTIGVDFAKSARKDLVLPDGNRVSAFSVASTAIAAAQWSSTQSQS
GEGGNVDYSYMQPGQDGYTQYTQYSQDYQQFYQQQTGGLESDASATSGTTVTTTSAAVVSQSPQLYNQTS
NPPGSPTEEAQPSTSTSTQAPAA SPTGVVPGTKYAVPDTSTYQYDESSGYYDPTTGLYYDPNSQYYNNS
LTQQYLYWDGEKETYPAAESSNQAGLPSTKEGKEKKEKPKSKTAQQIAKDMERWAKSLNKQKENFKN
SFQPVNSLREEERRE SAAADAGFALFEKKGALAERQQLIPELVRNGDEENPLKRGLVAAYS GDS DNEEEL
VERLESEEEKLADWKKMACLLCRRQFPNRDALVRHQQLSDLHKQNMDIYRRSRLSEQELEALELREREMK
YRDRAAERREKYIPEPPEPKRKKQFDAGTVNYEQPTKDGIDHSNIGNKMLQAMGWREGSGLGRKCQGIT
APIEAQVRLKGAGLGAKGSAYGLSGADSYKDAVRKAMFARFTEME
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2570\\_c10.zip](https://cdn.origene.com/chromatograms/ja2570_c10.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

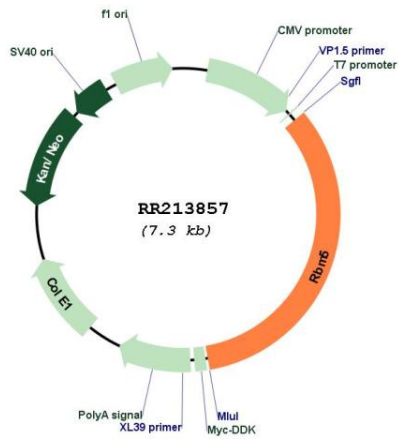


\* The last codon before the Stop codon of the ORF

ACCN: NM\_001100548  
 ORF Size: 2445 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>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_001100548.1</a>, <a href="#">NP_001094018.1</a></p>
<b>RefSeq Size:</b>	<p>3018 bp</p>
<b>RefSeq ORF:</b>	<p>2448 bp</p>
<b>Locus ID:</b>	<p>300996</p>
<b>UniProt ID:</b>	<p><a href="#">B2GV05</a></p>
<b>Cytogenetics:</b>	<p>8q32</p>
<b>MW:</b>	<p>92.8 kDa</p>
<b>Gene Summary:</b>	<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>

Product images:



Circular map for RR213857