

## Product datasheet for **MR210790**

### **Rbm5 (NM\_148930) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rbm5 (NM_148930) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbm5
Synonyms:	D030069N10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210790 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTT**CAGACAAAAGAGT**GAGT**AGAACAGAACGTAGT**GGAAGATATGGTTCCATCATAGATAGGGATG  
 ACCGTGATGAGCGTGAATCTAGAA**GCAGCGCGGGACTCAGATTACAAAAGATCAAGCGATGATCGGAG**  
 AGGTGATAGATATGATGACTATCGGGACTATGATAGTCCAGAGAGAGAGCGT**GAAAGAAGGAACAGTGAC**  
 CGGTCTGAAGATGGCTATCATT**CAGATGGTGACTATGGAGAACATGACTATAGACATGACATCAGTGATG**  
 AGAGAGAGAGCAAGACCATGCTCCGTGGCCTTCTATCACCATCACC**GAGAGCGATATTCGAGAAAT**  
 GATGGAGTCC**TTGAAGGCCCTCAGCCTGCAGATGTGAGGCTGATGAAGAGGAAAACAGGTGTAAGCCGT**  
 GGTTTCGCCTTCGTGGAGTTTTACT**CTGCAAGATGCTACCAGCTGGATGGAAGCCAATCAGAAAAAT**  
 TGGTGATTCAAG**AAAAGCACATTGCAATGCATTATAGCAATCCCAGACCTAAATTTGAAGATTGGCTTTG**  
 TAA**CAAGTGCCTTAA**CAATTT**CAGGAAAAGACTAAAATGCTTCCGATGTGGAGCAGACAAGTTTGAC**  
 TCTGAACAGGAAGT**GCCCCCGGAACCACAGAGCTGCTCAGTCCGTGGATTACTACTGTGATACTATCA**  
 TTCTTCGGAACATAGCTCCGCACACTGTGGTGGATTCCATCATGACAGCCCTATCTCCCTATGCTTCCTT  
 AGCTGTCAATAACATTGCCTCATA**AAAAGACAAACAGACACAACAGAACAGAGGGTTTGCAATTTGTGCAG**  
 CTATCTTCTGCAATGGATGCCTCTCAGCTGCTT**CAGATATTACAGAGTCTCCATCCTCCATTGAAAAATG**  
 ATGGGAAA**ACTATTGGAGTTGATTTTGCAAAAAGTGCCAGAAAAGATTTGGTCTTCCAGATGGTAACCG**  
 AGTCAGCGCCTTCTCTG**TAGCTAGTACAGCCATTGCTGCTGCTCAGTGGTCACTCACTCAGTCTCAAAGT**  
 GGTGAAGGAGGCAGTGTGACTACAGTTACATGCAGCCAGGCCAGGATGGCTACACACAGTACACTCAAT  
 ACTCACAGGATTACCAGCAGTTTATCAGCAGCAAGCTGGAGGGCTGGAGTCTGATACATCAGCTACATC  
 AGGCACCCACAGTACTACCACCTCAGCAGCTGTAGTATCCCAAAGTCCCAACTCTATAATCAGACCTCC  
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 CCCCTACTGGTGTAGTTCCTGGTACCAAGTATGCAGTACCTGACACGTCTACTTATCAATATGATGAATC  
 ATCAGGATATTATTATGATCCTACAACAGGGCTCTACTATGACCCTAACTCACAGTACTACTATAACTCC  
 TTAACACAGCAGTACTTGTACTGGGATGGCGAGAAGGAGACCTACGTGCCAGCTGCAGAGGCTAGCTCGA  
 ACCAGCAGACTGGCCTGCCTTCCACAAAAGAGGGAAAAGGAGAAGAAAAGAAAAGCCCAAGAGCAAACTGC  
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 AGCTTTCAACCTGTCAATTCATTGAGAGAAGAAGAAAAGGAGAGAATCTGCCGCAGCAGATGCTGGCTTTG  
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 TGAAGAAAACCCCTTAAAAGAGGTCTGGTTGCTGCTTACAGTGGTGACAGTGACAAATGAGGAGGAGCTG  
 GTAGAGAGACTTGAGAGT**GAGGAAGAGAAACTAGCTGACTGGAAGAAGATGGCCTGCCTGCTGTGCCGAC**  
 GTCAGTTC**CCAAACAGAGATGCCCTGGTCAGGCACCAGCAGCTCTCCGACTTACACAAGCAAAATATGGA**  
 CATCTACCGAAGATCCAGGCTGAGCGAGCAGGAGTTGGAAGCCTTGGAGCTGAGGGAGAGAGAGATGAAA  
 TACAGAGACCGAGCAGCAAAAGACGAGAGAAAACCGAATTCAGAGCCCCAGAGCCCAAGCGCAAGA  
 AGCAGTTT**GATGCTGGCACTGTGAATTACGAGCAGCCCACCAAAGATGGCATTGACCACAGTAACATTGG**  
 CAACAAGATGCTGCAGGCTATGGGTTGGCGGGAAGGCTCAGGCTTAGGAAGAAAGTGTCAAGGCATCACA  
 GCTCCATTGAGGCTCAAGTCCGACTAAAAGGAGCTGGCTTGGGAGCCAAAGGCAGTGCCTATGGGTTGT  
 CAGGTGCCGATTCTACAAAGATGCTGTT**CGGAAAGCCATGTTTGCCCGTTCACTGAGATGGAG**

**ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>MR210790 protein sequence  
 Red=Cloning site Green=Tags(s)

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MGSDKRVSRTERSGRYGSIIDRDDRDERESRSTRSDYKRSSDDRRGDRYDDYRDYDSPERERERRNSD
RSEdGYHSDGDYGEHDYRHDI SDERESKTI MLRGLPITITESDI REMMESFEGPQPADVRLMKRKTGVSR
GFAFVEFYHLQDATSWMEANQKKLVIQGHIA MHYSNRPKFEDWLCNKCLNNFRKRLKCFRCGADKFD
SEQEVPPGTTESAQSVDYYCDTIILRNIAPHTVVDSIMTALSPYASLAVNNIRLIKDKQTQQRGFAFVQ
LSSAMDASQLLQILQSLHPPLKIDGKTIGVDFAKSARKDLVLPDGNRVSAFVASTAIAAAQWSSTQSQS
GEGGSVDYSYMQPGDGYTQYTQYSQDYQQFYQQAGGLES DTSATSGTTVTTTSAAVVSQSPQLYNQTS
NPPGSPTEEAQPSTSTSTQAPAA SPTGVVPGTKYAVPDTSTYQYDESSGYYDPTTGLYYDPNSQYYNS
LTQQYLYWDGEKETYVPAAEASSNQQTGLPSTKEGKEKKEPKSKTAQQIAKDMERWAKSLNKQKENFKN
SFQPVNSLREEERRE SAAADAGFALFEKKGALAERQQLPELVRNGDEENPLKRGLVAAYS GDS DNEEEL
VERLESEEEKLADWKKMACLLCRRQFPNRDALVRHQQLSDLHKQNM DIYRRSRLSEQELEALELREREMK
YRDRAAERREKYGIPEPPEPKRKKQFDAGTVNYEQPTKDGIDHSNIGNKMLQAMGWREGSGLGRKCQGIT
APIEAQVRLKGAGLGAKGSAYGLSGADSYKDAVRKAMFARFTEME
  
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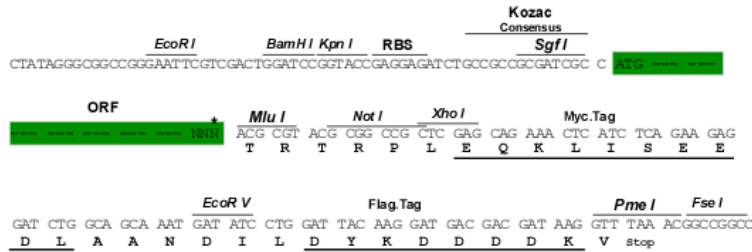
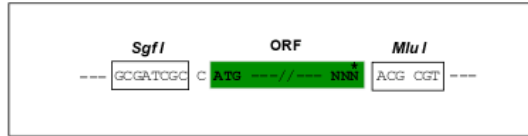
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_148930

**ORF Size:** 2448 bp

**OTI Disclaimer:** 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](#)
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_148930.3](#)

**RefSeq Size:** 3104 bp

**RefSeq ORF:** 2448 bp

**Locus ID:** 83486

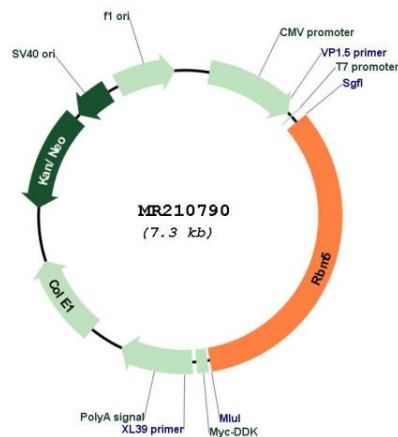
**UniProt ID:** [Q91YE7](#)

**Cytogenetics:** 9 F1

**MW:** 92.3 kDa

**Gene Summary:** 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]

## Product images:



Circular map for MR210790