

Product datasheet for **MG210790**

Rbm5 (NM_148930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm5 (NM_148930) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rbm5
Synonyms:	D030069N10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210790 representing NM_148930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTT**CAGACAAA**AGAGTGAGT**AGAACA**GAA**ACGTA**GT**GGAAGATAT**GGTTCCATCATAGATAGGGATG
 ACCGTGATGAGCGTGAATCTAGAA**GCAGCGCGGGACT**CAGATTACAAAAGATCAAGCGATGATCGGAG
 AGGTGATAGATATGATGACTATCGGGACTATGATAGTCCAGAGAGAGAGCGT**GAAAGAAGGAACAGT**GAC
 CGGTCTGAAGATGGCTATCATT**CAGATGGT**GACTATGGAGA**ACATGACTATAGACATGACATCAGT**GATG
 AGAGAGAGAGCAAGACCATGCTCCGTGGCCTTCTATCACCATCACCGAGAGCGATATTCGAGAAAT
 GATGGAGTCC**TTGAAGGCCCTCAGCCTGCAGATGTGAGGCTGATGAAGAGGAAAACAGGTGTAAGCCGT**
 GGTTTCGCCTTCGTGGAGTTTTACTT**GCAAGATGCTACCAGCTGGATGGAAGCCAATCAGAAAAAT**
 TGGTGATTCAAGGAA**GCACATTGCAATGCATTATAGCAATCCCAGACCTAAATTTGAAGATTGGCTTTG**
 TAA**CAAGTGCCTTAA**CAATTT**CAGGAAA**AGACTAAAATGCTTCCGATGTGGAGCAGACAAGTTTGAC
 TCTGAACAGGAAGT**GCCCCCGGAACCACAGAGTCTGCTCAGTCCGTGGATTACTACTGTGATACTATCA**
 TTCTTCGGAACATAGCTCCGCACACTGTGGTGGATTCCATCATGACAGCCCTATCTCCCTATGCTTCCTT
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 CTATCTTCTGCAATGGATGCCTCTCAGCTGCTT**CAGATATTACAGAGTCTCCATCCTCCATTGAAAAATG**
 ATGGGAAA**ACTATTGGAGTTGATTTTGCAAAAAGTGCCAGAAAAGATTTGGTCTTCCAGATGGTAAACC**G
 AGTCAGCGCCTTCTCTGAGCTAGTACAGCCATGCTGCTGCTCAGTGGT**CATCCACTCAGTCTCAAAGT**
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 ACTCACAGGATTACCAGCAGTTTTATCAGCAGCAAGCTGGAGGGCTGGAGTCTGATACATCAGCTACATC
 AGGCACCACAGT**GACTACCACCTCAGCAGCTGTAGTATCCCAAAGTCCCCAACTCTATAATCAGACCTCC**
 AACCCACCTGGCTCTCCGACTGAGGAAGCACAGCCTAGCACTAGCACAAGTACACAGGCCCCCGCTGCTT
 CCCCTACTGGTGTAGTTCCTGGTACCAAGTATGCAGTACCTGACACGTCTACTTATCAATATGATGAATC
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 GTAGAGAGACTTGAGAGTGAGGAAGAGAAA**ACTAGCTGACTGGAAGAAGATGGCCTGCCTGCTGTGCCGAC**
 GTCAGTTC**CCAAACAGAGATGCCCTGGTCAGGCACCAGCAGCTCTCCGACTTACACAAGCAAAATATGGA**
 CATCTACCGAAGATCCAGGCTGAGCGAGCAGGAGTTGGAAGCCTTGAGCTGAGGGAGAGAGAGATGAAA
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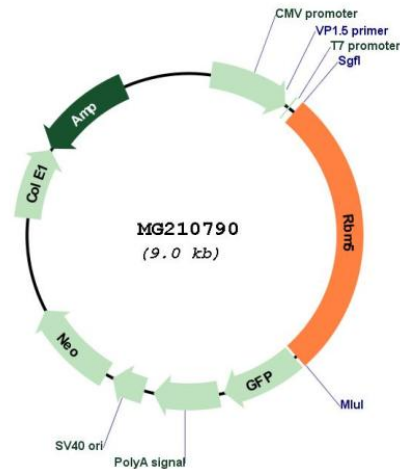
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210790 representing NM_148930
Red=Cloning site Green=Tags(s)

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MGSDKRVSRTERSGRYGSIIIDRDDRDERESRSRRRSDSYKRSSDDRRGDRYDDYRDYDSPERERERRNSD  
RSEdGYHSDGDYGEHDYRHDI SDERESKTIMLRGLPITITESDIEMMESFEGPQPADVRLMKRKTGVSR  
GFAFVEFYHLQDATSWMEANQKLVIQGKHIAMHYSNRPKFDWLCNKCLNNFRKRLKCFRCGADKFD  
SEQEVPPGTTESAQSVDYCDTIILRNIAPHTVVDSIMTALSPYASLAVNNIRLIKDKQTQQNRGFAFVQ  
LSSAMDASQLLQILQSLHPPLKIDGKTIGVDFAKSARKDLVLPDGNRVSAFSVASTAIAAAQWSSTQSQS  
GEGGSVDYSYMQPGDGYTQYTQYSQDYQQFYQQAGGLES DTSATSGTTVTTTSAAVVSQSPQLYNQTS  
NPPGSPTEEAQPSTSTSTQAPAA SPTGVVPGTKYAVPDTSTYQYDESSGYYDPTTGLYYDPNSQYYNS  
LTQQYLYWDGEKETYVPAAEASSNQQTGLPSTKEGKEKKEKPKSKTAQQIAKDMERWAKSLNKQKENFKN  
SFQPVNSLREEERRE SAAADAGFALFEKKGALAERQQLPELVRNGDEENPLKRGLVAAYS GDS DNEEEL  
VERLESEEEKLADWKKMACLLCRRQFPNRDALVRHQQLSDLHKQNMDIYRRSRLSEQELEALELREREMK  
YRDRAAERREKYIPEPPEPKRKKQFDAGTVNYEQPTKDGIDHSNIGNKMLQAMGWREGSGLGRKCQGIT  
APIEAQVRLKGAGLGAKGSAYGLSGADSYKDAVRKAMFARFTEME
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_148930

ORF Size: 2445 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: 3085 bp

RefSeq ORF: 2448 bp

Locus ID: 83486

UniProt ID: [Q91YE7](#)

Cytogenetics: 9 F1

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]