

Product datasheet for **MR217915**

Rbm15b (NM_175402) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm15b (NM_175402) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbm15b
Synonyms:	1810017N16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217915 representing NM_175402
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGCGGCAGAGCGAGCGAGACTCCAGCCCAGCGGGCGTGGCTCGTCATCGTCCGCCAAGCGGCCG
 GGGAGCGCGAACGAGAGGCAGAGGCGGGCGGGCGGGCAGCGCACAAAGGCCTCCGGCGGTACCAAGCA
 CCCGGTCCCGGCGCGGGCTCGCGACAAGCCCCGCGGCAGCGCGGAGGCGCGGGCATCGCGACGGGCGC
 GCTGCCGGGATGCGAATCACCGGGCGAGCGGGCGCTCCTCGGGCGCGCCGGAGGCGGGGACGCA
 CCGGCAAGGCCTCCGGGACCCGGGTGCTGGCGCGCGTCCGCCCGCATCTCCACTCCCGCCGCCCC
 GCCGCCCCCGGGGCGGAACCCGCGGTCCGGGCTCCACCGGGTCCGGAGTACAAGACGCTCCTCATC
 AGCAGCCTGAGCCCCGCTGCCGGCGAGCACTTGGAGGACCGGCTCTCCACCAGTTC AAGCGGTTCCG
 GGGAGATCAGCCTGCGCCTGTACACACCCCGAGCTGGGCCGCTGGCCTACGTGAACCTCCGGCACCC
 ACAGGACGCGCGGAGGCTCGCCAGCACGCTTGGCCCGCAGCTGCTGCTCTACGATCGCCCGCTCAAG
 GTGGAGCCGGTGTACCTGCGCGGCGGGGAGCAGCCGGCGCAGTAGCAGCAGCAGCGCCCGCCCTCCA
 CGCCGCCCCCGGGCTCCCGCGCCCGCGACCCCTGGGCTATCTGCCCTGCACGGTGGTACCAGTA
 CAAGCAGCGCTCGCTGTCTCCGGTAGCCGCCCGCCCTGCGGGAGCCCGCGCGGCACGCCCGCCGA
 GCCTTCGCCCTGGATGCTGCTGCCGCGGCGCCGTGGGACTGTCTCGAGAGCGAGCCCTGGACTATTACG
 GGCTGTACGACGACCGCGGCCCGCCGTACGGCTACCAGGCCGTGTGCGAGGAGGACTGATGCCGGAGGA
 TGATCAGAGAGCCACTCGAACTCTTCATCGGCAACCTGGACCACAGTGTTCGAGGTGGAGCTTCGA
 CGGGCTTCGAGAAGTACGGCATCATCGAGGAGTGGTCAAGAGGCCTGCCCGCGCCAGGGTGGT
 CCTATGCCTTCTCAAGTTTCAGAACTTGACATGGCACACAGGGCGAAGTGGTATGTCTGGCCGGT
 GATTGGCAGAAAACCCATAAAGATAGGCTACGGCAAGGCTAACCCACCACCCCGCTCTGGGTGGTGGT
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 ATCACGTCAAAGGAGACAGCTTTGCCTACATCCAGTACGAGAGCCTGGACGCAGCCAGGCTGCCTGTGC
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 CCCGGCATCGGAACCTGGATGCTGACCTTAGGGTGCGGGATAGGACCCCTCCACACCTTCTGTATTAGA
 CCGAGACCGGACCTTTTGGAAAGGGACTGGACCAGCCTCAGTAAAAGTTCAGACCGCAGAAACAGCCTG
 GAGGGCTATAGCCGCTCAGTTCCGACCCGAGTGGTGGAGCCTGGGGGGTGGTGGGACCGGAGCATAG
 CCAAGCCCTGGGAAGAGAGACGCAAGCGGAGGAGCCTCTCCAGTACCGTGGGAGGACAACCTCACTCCCC
 TTACGAGGAACGACAGCAGGACCAAGGGTGGGGGCGAGCAGTCTGAGCGAGGCTCAGATCGCACCCCTGAG
 CGTAGCCGAAGGAGAACCCTCCAGTGAAGGGACCAAGGAGTACGGCAGCAACTCCCTCAGCAACAGCA
 GACATGGTGTGAGGAGAGGAGCCACCATCACCACCACCATGAGGCTCCAGACTTTCCTATGGGAAAAA
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 GAGACAAAAAGCTAAAGACTCTGTGAGAATATGCCAGACACTGCAGCTGGGTGGAATGGGCTTCTGG
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 TCTCAGGAACCTAGTCTCTACTTGAACAGAAGCAGGCTGCAGGGGTGATCAGCTTCCCGTGGTGGG
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 AGTCAGCGCTGCGGACATTGGGCAAGTTAGAGGAAGAACACATGGTGATAGTTATAGTAAGGGACACCGC
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217915 representing NM_175402
 Red=Cloning site Green=Tags(s)

MKRQSERDSSPSGRGSSSSAKRPREREREAEAGGRRAAHKASGGTKHPVPARARDKPRGSSGGGGHRDGR
 AAGDANHRASGGRSSGAPGGGGRTGKASGDPGAGGASPRASPLPPPPPPGAEPAGPGSTAPEYKTLII
 SSLSPALPAEHLEDRLFHQKRFGEISLRLSHTPELGRVAYVNRHPQDAREARQHALARQLLLYDRPLK
 VEPVYLRGGSSRRSSSSAAASTPPPGPPADPLGYLPLHGGYQYKQKQSLSPVAAPPLREPRARHAAA
 AFALDAAAAAAGVLSRERALDYGLYDDRGRPYGYQAVCEEDLMPEDDQQRATRNLFIGNLDHSVSEVELR
 RAFEKYGIIEEVVIKRPARGQGGAYAFKLFQNLDMAHRAKAMSGRVIIGNPIKIGYGKANPTTRLWVGG
 LGPNTSLAALAREFDRFGSIRTIDHVKGDSFAYIQYESLDAAQAACAKMRGFPLGGPDRRLRVDFAKAEE
 TRYPQQYQPSPLPVHYELLTDGYTRHRNLADLRVDRTPPHLLYSDRDRTFLEGDWTSLSKSSDRRNSL
 EGYRSVRSRSGERWGGDGRSIAKPWEERRKRRSLSSDRGRTTHSPYEERSRTKGGGQQSERGSDRTP
 RSRKENHSEGTKEGNSLSNSRHGAEERSHHHHHHEAPDSSHGKKTRESENRHRTTEAEPKTLEPKH
 ETKKLTSEYAQTLQLGWGLLVKNSCFPTSMHILEGDQGVISGLLKDHPGSKLTQLKIAQRLRLDQ
 PKLDEVTRRIKQGSPNGYAVLLAIQSTPSGPGAEGMPVVEPGLQRRLRNLSVYLKQKQAAGVISLPGV
 SKGRDNTGMLYAFPPCDFSQYQLQSALRTLGLKEEEMVIVIVRDTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

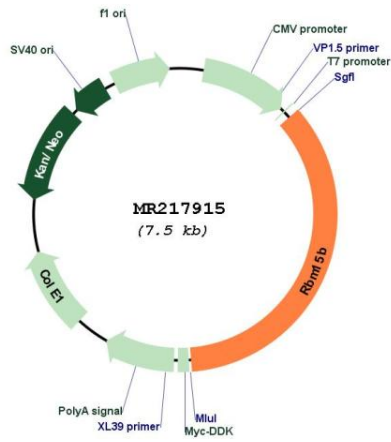
Cloning Scheme:



ACCN: NM_175402

ORF Size:	2661 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:	<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_175402.5
RefSeq Size:	3016 bp
RefSeq ORF:	2664 bp
Locus ID:	109095
UniProt ID:	Q6PHZ5
Cytogenetics:	9 F1
MW:	97.1 kDa
Gene Summary:	RNA-binding protein that acts as a key regulator of N6-methyladenosine (m6A) methylation of RNAs, thereby regulating different processes, such as alternative splicing of mRNAs and X chromosome inactivation mediated by Xist RNA. Associated component of the WMM complex, a complex that mediates N6-methyladenosine (m6A) methylation of RNAs, a modification that plays a role in the efficiency of mRNA splicing and RNA processing. Plays a key role in m6A methylation, possibly by binding target RNAs and recruiting the WMM complex. Involved in random X inactivation mediated by Xist RNA: acts by binding Xist RNA and recruiting the WMM complex, which mediates m6A methylation, leading to target YTHDC1 reader on Xist RNA and promoting transcription repression activity of Xist. Functions in the regulation of alternative or illicit splicing, possibly by regulating m6A methylation. Inhibits pre-mRNA splicing. Also functions as a mRNA export factor by acting as a cofactor for the nuclear export receptor NXF1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217915