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Product datasheet for MG217915

Rbm15b (NM_175402) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm15b (NM_175402) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rbm15b
Synonyms:	1810017N16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG217915 representing NM_175402
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCGGCAGAGCGAGCGAGACTCCAGCCCGAGCGGGCGTGGCTCGTCATCGTCCGCCAAGCGGCCGC
GGGAGCGCGAACGAGAGGCAGAGGCGGGCGGGCGGCGGGCAGCGCACAAGGCCTCCGGCGGTACCAAGCA
CCCGGTCCCGGCGCGGGCTCGCGACAAGCCCCGCGGCAGCGGCGGAGGCGGCGGGCATCGCGACGGGCGC
GCTGCCGGGGATGCGAATCACCGGGCGAGCGGCGGGCGCTCCTCGGGCGCGCCCGGAGGCGGGGGACGCA
CCGGCAAGGCCTCCGGGGACCCGGGTGCTGGCGGCGCGTCGCCCCGCGCATCTCCACTCCCGCCGCCCCC
GCCGCCCCCCGGGGCGGAACCCGCGGGTCCGGGCTCCACCGCGGCTCCGGAGTACAAGACGCTCCTCATC
AGCAGCCTGAGCCCCGCGCTGCCGGCCGAGCACTTGGAGGACCGGCTCTTCCACCAGTTCAAGCGGTTCG
GGGAGATCAGCCTGCGCCTGTCACACACCCCGGAGCTGGGCCGCGTGGCCTACGTGAACTTCCGGCACCC
ACAGGACGCGCGGGAGGCTCGCCAGCACGCCTTGGCCCGGCAGCTGCTGCTCTACGATCGCCCGCTCAAG
GTGGAGCCGGTGTACCTGCGCGGCGGCGGGAGCAGCCGGCGCAGTAGCAGCAGCAGCGCCGCCGCCTCCA
CGCCGCCCCCCGGGCCTCCCGCGCCCGCCGACCCCCTGGGCTATCTGCCCCTGCACGGTGGCTACCAGTA
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GCCTTCGCCCTGGATGCTGCTGCCGCGGCGGCCGTGGGACTGTCTCGAGAGCGAGCCCTGGACTATTACG
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TGATCAGAGAGCCACTCGAAACCTCTTCATCGGCAACCTGGACCACAGTGTTTCTGAGGTGGAGCTTCGA
CGGGCCTTCGAGAAGTACGGCATCATCGAGGAGGTGGTCATCAAGAGGCCTGCCCGCGGCCAGGGTGGTG
CCTATGCCTTCCTCAAGTTTCAGAATCTGGACATGGCACACAGGGCGAAGGTGGCTATGTCTGGCCGGGT
GATTGGCAGAAACCCCATAAAGATAGGCTACGGCAAGGCTAACCCCACCACCCGCCTCTGGGTGGGTGGT
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GACATGGTGCTGAGGAGAGGAGCCACCATCACCACCACCATGAGGCTCCAGACTCTTCCCATGGGAAAAA
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TCCAGTCAACCCCCAGCGGGCCTGGCGCCGAGGGCATGCCCGTGGTGGAGCCAGGCCTACAGAGGCGGCT
TCTCAGGAACCTAGTCTCCTACTTGAAACAGAAGCAGGCTGCAGGGGTGATCAGCTTGCCGGTGGGTGGG
TCTAAGGGCAGAGACAACACAGGCATGCTCTATGCCTTCCCGCCCTGCGACTTTTCACAGCAGTACCTCC
AGTCAGCGCTGCGGACATTGGGCAAGTTAGAGGAAGAACACATGGTGATAGTTATAGTAAGGGACACCGC
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

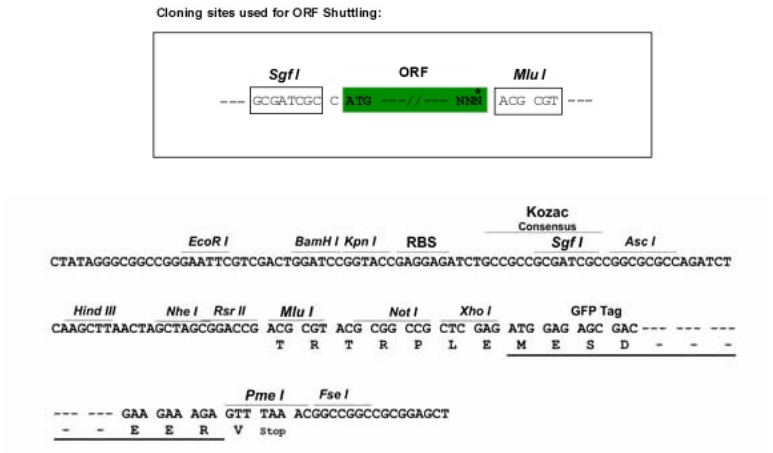
>MG217915 representing NM_175402
Red=Cloning site Green=Tags(s)

MKRQSERDSSPSGRGSSSSAKRPRERERE AEAGGRRAAHKASGGTKHPVPARARDKPRGSGGGGGHRDGR
AAGDANHRASGGRSSGAPGGGGRTGKASGDPGAGGASPRASPLPPPPPPPGAEPAGPGSTAAPEYKTLLI
SSLSPALPAEHLEDRLFHQFKRFGEISLRLSHTPELGRVAYVNFRHPQDAREARQHALARQLLLYDRPLK
VEPVYLRGGGSSRRSSSSSAAASTPPPGPPAPADPLGYLPLHGGYQYKQRSLSPVAAPPLREPRARHAAA
AFALDAAAAAAVGLSRERALDYYGLYDDRGRPYGYQAVCEEDLMPEDDQRATRNLFIGNLDHSVSEVELR
RAFEKYGIIEEVVIKRPARGQGGAYAFLKFQNLDMAHRAKVAMSGRVIGRNPIKIGYGKANPTTRLWVGG
LGPNTSLAALAREFDRFGSIRTIDHVKGDSFAYIQYESLDAAQAACAKMRGFPLGGPDRRLRVDFAKAEE
TRYPQQYQPSPLPVHYELLTDGYTRHRNLDADLRVRDRTPPHLLYSDRDRTFLEGDWTSLSKSSDRRNSL
EGYSRSVRSRSGERWGGDGDRSIAKPWEERRKRRSLSSDRGRTTHSPYEERSRTKGGGQQSERGSDRTPE
RSRKENHSSEGTKESGSNSLSNSRHGAEERSHHHHHHEAPDSSHGKKTRESERNHRTTEAEPKTLEEPKH
ETKKLKTLSEYAQTLQLGWNGLLVLKNSCFPTSMHILEGDQGVISGLLKDHPSGSKLTQLKIAQRLRLDQ
PKLDEVTRRIKQGSPNGYAVLLAIQSTPSGPGAEGMPVVEPGLQRRLLRNLVSYLKQKQAAGVISLPVGG
SKGRDNTGMLYAFPPCDFSQQYLQSALRTLGKLEEEHMVIVIVRDTA

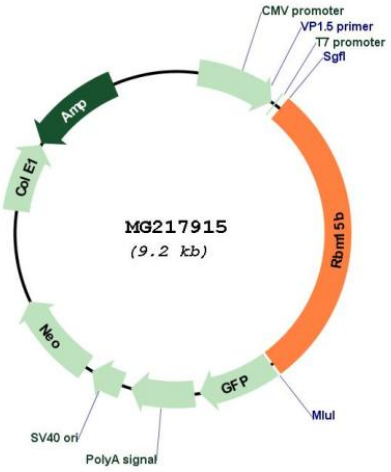
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	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

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]