

Product datasheet for **MR215320**

Rbm15 (NM_001045807) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm15 (NM_001045807) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbm15
Synonyms:	C230088J01Rik; mKIAA1438
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215320 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGTCTGCGGGCGGGAGCCTTTGCCGCGCGGAGTCCAAGATGGCGCGTGGAGTCCGCTGTGTG
 AAACGAGCGCGGGTGGCGGGTTAGTCAGCTCCGCAGAGACGACCTCCGCGACCCCTCAACAATGAAAGG
 AAAGGAGCGCTCGCCGGTCAAGCCAAAGCGCTCCCGTGGCGGTGAGGACTCCAGTTCTCGTGGGAGCGG
 AGCAAGAAGTTAGGGGGCTCCGCGCGCAGCAATGGGAGCAGCAGCGGGAAGACGGACAGCGGGCGGTGCG
 GGCGGAGCCTTCACTGGACAAGTCCAGCAGCCGGGGCGCAGCCGCGAGTACGAGACCGCGGGGGCAG
 CTCCAGTAGCCGCTTGCACAGTTACAGCTCCCCGAGCACCACAAAATTCCTCAGGCGGGGGCAGTCCGCG
 AGCAGCTCCCGGGTGGAGGCGGGGAGTACGTTCTCCGGGGCCGCTCTCCGCGCCCGCGCGGGGG
 ACGGCGTGGAGTACAAGACCCTGAAGATCAGCGAGCTGGGGTCCCAGCTGAGCGACGAGGCGGTGGAGGA
 CGGGCTGTTTACGAGTTCAAACGCTTCGGTGATGTAAGTGTCAAATCAGTCACCTCTCAGTTCTGGC
 AGCGGGGATGAGCGGGTAGCCTTTGTGAACTTCGGAGGCCAGAGGACCGGAGGGCGGCCAAGCATGCCA
 GAGGCCGCTGGTGTCTATGACCGGCCTCTGAAGATAGAAGCCGTGTACGTGAGCCGGCGCCGACGCCG
 CTCCCCGTTAGACAAAGATGCTTACGCCCGTCATCCAGCGTGGTGGGACCTCAGTCGGTAGCCACCGG
 CACGCCCTGGAGGAGGGGAGGTGAGAGTGCCTTCCCTGGAGGTGCTGCTCTGGGATACAGAGACT
 ACCGGTTGCAGCAGTTGGCCCTGGGCGGCTGCCTCCTCCACCCCGCCACCATTGCCCGAGAGCTGGA
 AAGAGAACGAGACTATCCGTTCTATGACCGGTGCGCCCGGCTACAGCTGGAGCCGAGGGTGGGAGCT
 GGAGCAGGTGCGGCTCCTTCCGAGAAGTGGATGAGATACACCTGAGGACGATCAGCGTCCACCCGGA
 CACTTTTCTGGCAACTTAGATATCACTGTGACGGAAAATGATCTCAGAAGGGCTTTTGTATCGTTTTGG
 AGTCATACAGAAGTGGACATTAAGAGGCTTCTCGAGGCCAGACCAGTACCTATGGCTTCTCAAATTT
 GAGAATCTAGACATGTCTCACAGGGCCAACTTGAATGTCTGGCAAAATTATAATTCGGAATCCAAATCA
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 TGCTGCCCTGGCAGGAAATTTGACCGATTTGGCACCATTGCAACCATAGACTACCGTAAAGGTGACAGT
 TGGGCATATACAGTATGAAAGTTGGATGCAGCTCATGCTGCCTGGACCCATATGCGTGGATTCCCAC
 TTGGTGGCCAGATCGTCGCTCAGGGTAGACTTTGCAGACACAGAACATCGTTACCAGCAGCAATATCT
 TCAGCCTCTGCCCTTACCCACTATGAACTAGTACGGATACTTTTGGACATAGAGCACCTGACCCTTTG
 AGGAGTGTCTGGGACAGGACACCACCTTACTATACAGAGATCGTGATAGGGACCTTTATACTGATTCTG
 ACTGGGTGCCACCCACCCAGGTTCCGAGAACGCAGTGCTCGGGCTGCAACTAGTGTCTCACTGCTTA
 TGAGCCACTAGATAGCTTGGATCGAAGGAGGGATGGCTGGTCACTGGACAGGGACAGAGGTGATCGGGAC
 TTGCCAGCAGCAGGACAGCCAAAGGAAGCGAAGGCTGCCTGAGGAAAGTGGAGGACGGCATCTTGATA
 GATCACCTGAGAGTGAACGGCTCGAAAACAGCGTCACTGCACCTCTTCTCTGACCGAAGTCCAGAACT
 GAGCAGTAACAGAGATCGCTACAACAGTGAATGATCGATCATCTCGTCTTCTCTCTTGGAAAGGTCT
 TCCCCAGTCAGAGATAGACGGGGCAGTTTGGAGAAGAGCCAGAGCGACAAGCGAGACCGTAAAAACTCTG
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 AGACCGATCTGATGGCAATGCACCCAGTGCCAGCACTTCTCATCAAAGCAGAAGCCACCTTCCCAGAAA
 CAGGATGGAGGGACAGCTCCTGTGGCAGCATCCTCTCCAAACTGTGTTGGCTTGGCAGGGCATGCTTC
 TACTGAAGAACAGCAACTCCCTTCCAACATGCATCTGTTGCAGGGTGCCTCCAAGTTGTAGCAGTCT
 ACTTGTGGAGGGCTCAACTGGAGGCAAAGTGGCCAACTCAAGATCACTCAGCGGCTCCGTTTGGACCAA
 CCCAAGTTGGATGAAGTAACTCGACGCATCAAAGTGGCAGGGCCTAATGGTTATGCCATTCTCTGGCTG
 TACCTGGAAGTTCTGACAGCCGATCTTCTCTTCTCAGCCACATCAGACACTGCCGCTCTACTCAGAG
 GCCACTTAGGAACCTTGTCTCTATTTAAAGCAAAGCAGGCAGCTGGGGTATCAGCCTCCCTGTGGGA
 GGCAATAAAGACAAGGAAAACCCGGGTTCTTATGCCTTCCCACCTTGTGAGTTCTCTCAGCAGTTCC
 TGGATTCCCTGCCAAGGCACTGGCCAAATCTGAAGAAGATTACCTGGTATGATCATTGTCGTGCAAA
 ACTGGTGAACAGCGGA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215320 protein sequence
 Red=Cloning site Green=Tags(s)

MRSAGREPLRRSPRWRRASPLCETSAGWRVSQLRRDDLRRPSTMKGKERSPVKPKRSRGGEDSSSRGER
 SKKLGSGGSSNGSSSGKTDSSGSRRLHLDKSSSRGGSREYETGGGSSSRLHSYSSPSTKNSSGGGESR
 SSSRGGGSESRSAGAASSAPGGGDGVEYKTLKISELGSQLSDEAVEDGLFHEFKRFGDVSVKISHLSGSG
 SGDERVAFVNFRRPEDARAACHARGRLVLYDRPLKIEAVVYSSRRRSRSPDKDAYAPSSSVVGTSVGSHR
 HAPGGGGQORSLSPGGAALGYRDYRLQQLALGRLPPPPPPPLPRELERERYPFYDRVVPAYSLEPRVGA
 GAGAAPFREVDEISPEDDQRANRTLFLGNLDITVTENDLRRAFDRFGVITEVDIKRPSRGTSTYGLKF
 ENLDMSHRAKLAMSGKIIIRNPIKIGYGKATPTTRLWVGGGLPWVPLAALAREFDRFGTIRTIDYRKGDS
 WAYIQYESLDAHAATHMRGFPLGGPDRRLRVDFADTEHRYQQYLQPLPLTHYELVTDTFGHRAPDPL
 RSARDRTPLLYRDRDRDLYTDSDWVPPPPVRRERSARAATSAVTAYEPLDSLDRRRDGSWLDLDRDRGDRD
 LPSSRDQPRKRLPEESGGRHLDRSPEERPRKQRHCTSPDRSPELSSNRDRYNSDNDRSSRLLLERS
 SPVDRRGSLEKSQSDKDRKNSASAERDRKHRTAAPTEGKNPLKKEDRSDGNAPSASTSSKQKPPSQK
 QDGGTAPVAASSPKLCLAWQGMLLLKNSNFPNMHLLQGDQLQVASSLLVEGSTGGKVAQLKITQRLRLDQ
 PKLDEVTRRIKVAGPNGYAILLAVPGSSDRSSSSSSATSDTAASTQRPLRNLVSYLKQKQAAGVISLPVG
 GNKD KENTGVLHAFPPCEFSSQFLDSPAKALAKSEEDYLVMIIVRAKLVNSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



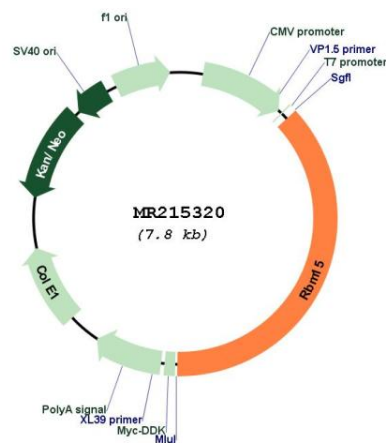
ACCN: NM_001045807

ORF Size: 2889 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_001045807.1 , NP_001039272.1
RefSeq Size:	3270 bp
RefSeq ORF:	2889 bp
Locus ID:	229700
UniProt ID:	Q0VBL3
Cytogenetics:	3 F2.3
MW:	105.7 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 hematopoietic cell homeostasis, alternative splicing of mRNAs and X chromosome inactivation mediated by Xist RNA (PubMed:29535189). 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 (PubMed:29535189). Plays a key role in m6A methylation, possibly by binding target RNAs and recruiting the WMM complex (PubMed:29535189). 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 (By similarity). Required for the development of multiple tissues, such as the maintenance of the homeostasis of long-term hematopoietic stem cells and for megakaryocyte (MK) and B-cell differentiation (PubMed:17283045, PubMed:17376872, PubMed:18981216, PubMed:25468569). Regulates megakaryocyte differentiation by regulating alternative splicing of genes important for megakaryocyte differentiation; probably regulates alternative splicing via m6A regulation (By similarity). Required for placental vascular branching morphogenesis and embryonic development of the heart and spleen (PubMed:18981216). Acts as a regulator of thrombopoietin response in hematopoietic stem cells by regulating alternative splicing of MPL (PubMed:25468569). May also function as an mRNA export factor, stimulating export and expression of RTE-containing mRNAs which are present in many retrotransposons that require to be exported prior to splicing (By similarity). High affinity binding of pre-mRNA to RBM15 may allow targeting of the mRNP to the export helicase DBP5 in a manner that is independent of splicing-mediated NXF1 deposition, resulting in export prior to splicing (By similarity). May be implicated in HOX gene regulation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MR215320