

Product datasheet for **MC222884**

Rbm15 (NM_001045807) Mouse Untagged Clone

Product data:

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



[View online »](#)

Fully Sequenced ORF: >MC222884 representing NM_001045807
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGTCTGCGGGCGGGAGCCTTTGCCGCGCGGAGTCCAAGATGGCGCGTGGAGTCCGCTGTGTG
 AAACGAGCGCGGGTGGCGGGTTAGTCAGCTCCGCAGAGACGACCTCCGCGACCCCAACAATGAAAGG
 AAAGGAGCGCTCGCCGGTCAAGCCAAGCGCTCCCGTGGCGGTGAGGACTCCAGTTCTCGTGGGGAGCGG
 AGCAAGAAGTTAGGGGGCTCCGCGCGCAGCAATGGGAGCAGCAGCGGGAAGACGGACAGCGGGCGGTTCG
 GCGGAGCCTTCACTGGACAAGTCCAGCAGCCGGGGCGCAGCCGCGAGTACGAGACCGCGGGGGCAG
 CTCCAGTAGCCGCTTGCACAGTTACAGTCCCCGAGCACCACAAAATTCCTCAGGCGGGGGCAGTCCGCG
 AGCAGCTCCCGGGTGGAGGCGGGGAGTACGTTCTCCGGGGCCGCTCCTCCGCGCCCGCGCGGGG
 ACGGCGTGGAGTACAAGACCCTGAAGATCAGCGAGCTGGGGTCCCAGCTGAGCGACGAGGCGGTGGAGGA
 CGGGCTGTTTACGAGTTCAAACGCTTCGGTGATGTAAGTGTCAAATCAGTCACCTCTCAGTTCTGGC
 AGCGGGGATGAGCGGGTAGCCTTTGTGAACTTCGGAGGCCAGAGGACCGGAGGGCGGCCAAGCATGCCA
 GAGGCCGCTGGTGTCTATGACCGGCCTCTGAAGATAGAAGCCGTGTACGTGAGCCGGCGCCGACGCCG
 CTCCCCGTTAGACAAAGATGCTTACGCCCGTCATCCAGCGTGGTGGGACCTCAGTCGGTAGCCACCGG
 CACGCCCTGGAGGAGGGGAGGTGAGAGTGGTTCCTCCCTGGAGGTGCTGCTCTGGGATACAGAGACT
 ACCGGTTGACGAGTGGCCCTGGGCGCCCTGCCTCCTCCACCCCGCCACCATTGCCCGAGAGCTGGA
 AAGAGAACGAGACTATCCGTTCTATGACCGGTGCGCCCGGCTACAGCTGGAGCCGAGGGTGGAGCT
 GGAGCAGGTGCGGCTCCTTCCGAGAAGTGGATGAGATACACCTGAGGACGATCAGCGTCCACCCGGA
 CACTTTTCTGGCAACTTAGATATCACTGTGACGGAAAATGATCTCAGAAGGGCTTTTGTGCTTTTGG
 AGTCATACAGAAGTGGACATTAAGAGGCCCTTCTCGAGGCCAGACCAGTACCTATGGCTTTCTCAAATTT
 GAGAATCTAGACATGTCTCACAGGGCCAACTTGAATGTCTGGCAAAATTATAATTCGGAATCCATCA
 AGATTGGTTATGGTAAAGCCACACCCACTACCCGACTTTGGTGGGTGGTCTGGGACCTGGGTGCCTCT
 TGCTGCCCTGGCAGGAAATTTGACCGATTTGGCACCATTGCAACCATAGACTACCGTAAAGGTGACAGT
 TGGGCATATACAGTATGAAAGTTGGATGCAGCTCATGCTGCCTGGACCCATATGCGTGGATTCCCAC
 TTGGTGGCCAGATCGTCGCTCAGGGTAGACTTTGCAGACACAGAACATCGTTACCAGCAGCAATATCT
 TCAGCCTCTGCCCTTACCCACTATGAACTAGTACGGATACTTTTGGACATAGAGCACCTGACCCTTTG
 AGGAGTGTCTGGGACAGGACACCACCTTACTATACAGAGATCGTATAGGGACCTTTATACTGATTCTG
 ACTGGGTGCCACCCACCCAGGTTCCGAGAACGCAAGTGTCTGGGCTGCAACTAGTGTCTCACTGCTTA
 TGAGCCACTAGATAGCTTGGATCGAAGGAGGGATGGCTGGTCACTGGACAGGGACAGAGGTGATCGGGAC
 TTGCCAGCAGCAGGACAGCCAAAGGAAGCGAAGGCTGCCTGAGGAAAGTGGAGGACGGCATCTTGATA
 GATCACCTGAGAGTGAACGGCTCGAAAACAGCGTCACTGCACCTCTTCTCTGACCGAAGTCCAGAAGT
 GAGCAGTAACAGAGATCGCTACAACAGTGAATGATCGATCATCTCGTCTTCTCTCTTGGAAAGGTCT
 TCCCCAGTCAGAGATAGACGGGGCAGTTTGGAGAAGAGCCAGAGCGACAAGCGAGACCGTAAAAACTCTG
 CATCAGCTGAACGGGATAGGAAGCATCGGACAGCTGCTCCACAGAGGGAAAAAACCTCTGAAAAAGGA
 AGACCGATCTGATGGCAATGCACCCAGTGCCAGCACTTCTCATCAAAGCAGAAGCCACCTTCCCAGAAA
 CAGGATGGAGGGACAGCTCCTGTGGCAGCATCCTCTCCAAACTCTGTTTGGCTTGGCAGGGCATGCTTC
 TACTGAAGAACAGCAACTCCCTTCCAACATGCATCTGTTGCAGGGTGCCTCCAAGTTGCTAGCAGTCT
 ACTTGTGGAGGGCTCAACTGGAGGCAAAGTGGCCAACTCAAGATCACTCAGCGGCTCCGTTTGGACCAA
 CCCAAGTTGGATGAAGTAACTCGACGCATCAAAGTGGCAGGGCCTAATGGTTATGCCATTCTCTGGCTG
 TACCTGGAAGTTCTGACAGCCGATCTTCTCTTCTCAGCCACATCAGACACTGCCGCTCTACTCAGAG
 GCCACTTAGGAACCTTGTCTCTATTTAAAGCAAAGCAGGCAGCTGGGGTATCAGCCTCCCTGTGGGA
 GGCAATAAAGACAAGGAAAAACCGGGTCTTTCATGCCTTCCCACCTTGTGAGTCTCTCAGCAGTTCC
 TGGATTCCCTGCCAAGGCACTGGCCAAATCTGAAGAAGATTACCTGGTATGATCATTGTCGTGCAAA
 ACTGGTGAACAGCGGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001045807
Insert Size:	2889 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001045807.1</u> , <u>NP_001039272.1</u>
RefSeq Size:	3270 bp
RefSeq ORF:	2889 bp
Locus ID:	229700
UniProt ID:	<u>Q0VBL3</u>
Cytogenetics:	3 F2.3

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]