

Product datasheet for **MC223113**

Rbm16 (BC038363) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm16 (BC038363) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rbm16
Synonyms:	KIAA1116, mKIAA1116
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC038363 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGGTGAAGACCTTCAACAGCGAGTTGTATTCACTGAATGACTATAAGCCACCCATTTCTAAAG
CAAAAATGACCCAAATTACAAGGCAGCCATCAAAGCTATTAAGTTTTATAAACATGTGGTACAAAGTGT
TGAGAAATTCATTAGAAATGTAACCAGAATACAAGGTACCTGGACTATATGTTATTGACTCCATTGTG
CGACAATCCCGGCATCAGTTTGGTCAAGAAAAGGATGTGTTTGCACCCAGATTTAGTAATAACATCATT
GCACCTTTTCAGAAATTTATATCGTTGCCCTGGGGATGACAAGAGTAAAATAGTGAGAGTATTAACCTTATG
GCAGAAGAATAATGTTTTAAGAGTGAGATTATCCAGCCTCTTCTGGATATGGCGGCAGGGATTCCCTCC
CCAGTTGTACGCCTGTTTTGGCCAGCACCCTGCAGCTATGAGCAACACTCCAGGAACACCCGTGACAC
CTGTTACTCCAGCAATGTGGTCCAAGGCTTACCTGATCCATGGGTATCTCAGATAGCAAACACAGACAC
ACTGGCAGCTGTTGCTCAGATCCTACAAAGTCTCAAGGTCAACAGCTTCAGCAGCTAATAACAACTTA
CAGATACAGCAGCAGAAGCCTCAGCCTTCTATCCTGCAGGCCCTGGATGCTGGTCTTGTGGTTCAGTTAC
AGGCACTCACTGCACAGCTCACAGCTGCAGCTGCTGCAGCCAACACACTTACGCCCTGGATCAGGGAGT
CTCTTTCAACAAGAAGTTGATGGATAGATTTGATTTTGGGGAAGATTCTGAGCATAGTGAAGAATCCAAA
AAGGAAATGCCTACTCCTCAACTCTCTCACGTTTTCAGAGTCTGTGAACAACCTCCATCTTCCATCAGATAG
CAGAACAGCTGCAGCAGCAGAATTGGAGCAGTTGCGACAGCAGCTCCTGGAGCAGCAGCAGCCTCAGAA
GGTAACTCCTCAAGATAGCCAGGAGGGGACATTTGGGTCTGAGCACTCAGCTTCTCCCTCACAAGGGAGT
AGCCAACAGCATTTTCTGGAACCTGAAGCAAATTTAGATGATTCCATAGACATTCAGCAACAGGATATGG
ATATTGATGAAGGCAAGATGTTGTTGAAGAGGAGATCTTTGAACCAGAAGCTAAGAAAGTACTGTTCCG
CTCAAGATCAAGAACTATTACGATCTCGATCAAGGTCAACCAAGAAAACGAAGGTCCAGGTCACGCTCT
GGGTCCCAGAAAGCAGAAAGCACAGGAAGCGGTCTCGGTCCCACTCGAGAGAGAAAAAGAGAAAAGCCTCAC
GCTCCTACTCCAGTGAGCGCAGAGCCAGGAAAAGGGAGAAAAGAGCGCCAGAAAAAGGGCTTGCCTCCTGT
CAGGTCAAAAACACTAAGTGTATGCAGCACTACTCTCTGGGTTGGCCAAGTGGACAAGAAGGCTACACAG
CAAGATTAACCAACCTTTTTGAGGAATTTGGACAATTAATCCATTAATGATTCCACCCAGGGGCT



GTGCATATGTCTGCATGGTTCATCGACAAGATTCATTTCCGGGCTCTTCAGAACTGAGTTCAGGATCCTA
TAAATTTGGTTCCAAGGTCATTAAGATTGCCTGGGCTTTGAACAAAGGTGTAAGACAGAATACAAACAG
TTCTGGGATGTGGATCTTGGCGTCACATATATACCCTGGGAAAAAGTAAAGTAGATGACTTGGATGGCT
TTGCAGAGGGCGGCATGATTGATCAGGAGACTGTAATGCTGAATGGGAACTGTGAAAGCCTCAGAACC
TGTTAAAGAGCCAGTGCAGACTGCACAGAGTCCAGCTCCAGTTGAGAAGGAGTCACTGGTACCACACAG
GCAGAGGTTTTCCCTCCTCCTGTCGCCATGCTGCAGATTCTGTAGCACCAGTGTCTCTGAGTTAGCT
TAGTCTCCAGCGTTTTCTGTGTCGATGCCTGTCCCCCTCCTGGATTCAACCCGATCCCTCCACCTCC
TTTTCTACGAGCAAGTTTTAACCTTCAACAACCCTCCTGGTTTTATGCCACCTCAGTTCCCCACCT
GTGGTACCTCCCCCTGCAATCCCACCGGTAGTACCAACATCTTTAGTGCAACCACCATTGTCATGACCC
CTGAAGCTGTGAAAGATGTTGGATTTGGCAGCCTGGTTTTACCAAGTGGTTCTGTTGCTGGCAGTCTTGC
TCCTTCAACTCTACCAGCTGAAATGTTTTAATCCTCCAGTAAAGCAGAGCCTGAAGAAAAAGTACCT
CACCTTATAGAGCACCAGATTCTTCTGGTGAGAACACAAGACCAGTATTCCAAGTGATTTCCAAGTA
GTGCTGCAATGTTAGCACAGCCGCTGGGGCTCAAGCACCTCTGGGATCCTGTGCGTGCAGAGACCAAA
TGATCAAGTAATTCTGAAATTTGGGGTTCGTCAGCTAATGTTTCCAACAGTCTGCAATTATGGGA
GCCAGCCACCAATATTCTAAATAACTCTGGAATTTTGCCATACAGCCACCAATGTGTCCAGTGGCT
CTGGACTTCTGGGGTACTGCCTCCAAACTTGCCTAACAACCTCTGGACTTGTAGGACTACAGCCACCAAA
TGTTACAAGTCTGCTGGACTTTTGGGAACACAGCCACCAATTGGACCTCAAAACTTACCACCTTATGCC
ATCCCTGCTCAAAGGATGCCCGGTTGCCAATGTTAGACATTCGCCCAGGACTGATAGCAGAGGCTCCCG
GGCCACGATTCCTTTACTACAGCCTGGAATCCACCACAACGCGGTATCCCTCCCCATCGGTACTTGA
TGCAGCTCTTATCCTCCACCCCGGACCTTTTCTCCAGGAGATCTTTTCACTCAGCCAGAAAGACCT
TTTCTGGCCCCTGGAAGACCAAGTATAGACAATGTTCCAACCCAGATAAAAGAATACCATTGGGAATG
ACAATATTAGCAGGAAGGGGATAGAGATTACCGCTTCTCCTATAGAAACCAGGGAGGGCATTACCAG
ACCTCCTCAGGTGGATGTTAGGGATGTGGTTGGGCGAGTCTAGATCCAGAGAAGGCCCTGGAAGGCC
CCATTAGATGCTAGGGATCATTGGAAGACCTCCTGTGGACATGAGGGAGAATCTGTGAGGCCAAGTC
TAGACCACCTTGGTGAAGAGACCACTTTGGCTTTCCCCCAGAGAAGCCTTGGGGCCTAGAGATTTTGA
TGAGAGAGAGCATCGAGTCTGCCTGTCTTTGGTGGTCCAAAAGGCTTACATGAAGAAAGAGGTAGATTT
CGGGCTGGAAATTACCGATTTGATCCTAGAAGTGGTCTTGAACAGAGGATTTGGTCAAGAAGTTCACA
GAGATTTTATGACCGCAGAAGACCTGGGAGAGGCAGAGGGATAGGGATGACAGAGATTTTATTTCTG
CAGAGAAATTATTGAAATCGTCTTGGACGAGATAGAATCAAAACACTTGGGTTCCCCCTCCTCATGCT
CGGGTTTTGATTATTTGAAGGGGCCACTTCTCAACGGAAAGGTGATAATGTGCCTCAAGTTAATGGTG
AAAATACAGAGAGACATGCTCAGCCACCGCTTACCAGTACAGAAGGACCTGAACTCTATGAGAACT
GGCGTCTCAGGTGACGTAGACAAGGAGGAGCGGCACAGTTGCTGGTGTAGAGAGTGAAGCGGTGGTA
GAAAGCACAGAGACTGAGGGGACATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** BC038363
- Insert Size:** 3807 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:

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: [BC038363](#), [AAH38363](#)

RefSeq Size: 4530 bp

RefSeq ORF: 3806 bp

Locus ID: 106583

Cytogenetics: 17 A1

Gene Summary: Anti-terminator protein required to prevent early mRNA termination during transcription. Together with SCAF4, acts by suppressing the use of early, alternative poly(A) sites, thereby preventing the accumulation of non-functional truncated proteins. Mechanistically, associates with the phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit (POLR2A), and subsequently binds nascent RNA upstream of early polyadenylation sites to prevent premature mRNA transcript cleavage and polyadenylation. Independently of SCAF4, also acts as a positive regulator of transcript elongation. [UniProtKB/Swiss-Prot Function]