

## Product datasheet for MR211872

### Rbm16 (BC038363) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm16 (BC038363) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbm16
Synonyms:	KIAA1116, mKIAA1116
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211872 representing BC038363 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCCGTGAAGACCTTCAACAGCGAGTTGTATTCCTGAATGACTATAAGCCACCCATTTCTAAAG  
CAAAAATGACCCAAATTACAAAGGCAGCCATCAAAGCTATTAAGTTTTATAAACATGTGGTACAAAGTGT  
TGAGAAATTCATTAGAAATGTAACCAGAATACAAGGTACCTGGACTATATGTTATTGACTCCATTGTG  
CGACAATCCCGGCATCAGTTTGGTCAAGAAAAGGATGTGTTTGCACCCAGATTTAGTAATAACATCATT  
GCACTTTTCAGAAATTTATATCGTTGCCCTGGGGATGACAAGAGTAAAATAGTGAGAGTATTAACCTATG  
GCAGAAGAATAATGTTTTAAGAGTGAGATTATCCAGCCTCTTCTGGATATGGCGGCAGGGATTCCTCCC  
CCAGTTGTACGCCTGTTTTGGCCAGCACCCTGCAGCTATGAGCAACACTCCAGGAACACCCGTGACAC  
CTGTTACTCCAGCCAATGTGGTCCAAGGCTTACCTGATCCATGGGTATCTCAGATAGCAAACACAGACAC  
ACTGGCAGCTGTTGCTCAGATCCTACAAAGTCTCAAGGTCAACAGCTTCAGCAGCTAATACAAACCTTA  
CAGATACAGCAGCAGAAGCCTCAGCCTTCTATCCTGCAGGCCCTGGATGCTGGTCTTGTGGTTCAAGTAC  
AGGCACTCACTGCACAGCTCACAGCTGCAGCTGCTGCAGCCAACACACTACGCCCTTGGATCAGGGAGT  
CTCTTTCAACAAGAAGTTGATGGATAGATTTGATTTTGGGAAGATTCTGAGCATAGTGAAGAATCCAAA  
AAGGAAATGCCTACTCCTCAACTCTCACGTTTCAGAGTCTGTGAACAACTCCATCTTCCATCAGATAG  
CAGAACAGCTGCAGCAGCAGAAGTGGAGCAGTTGCGACAGCAGCTCCTGGAGCAGCAGCAGCCTCAGAA  
GGTAACTCCTCAAGATAGCCAGGAGGGGACATTTGGGTCTGAGCACTCAGCTTCTCCCTCACAAGGGAGT  
AGCCAACAGCATTTTCTGGAACCTGAAGCAAATTTAGATGATTCCATAGACATTCAGCAACAGGATATGG  
ATATTGATGAAGGGCAAGATGTTGTTGAAGAGGAGATCTTTGAACCAGAAGCTAAGAAAGTAGCTGTTTCG  
CTCAAGATCAAGAAGTCACTTACGATCTCGATCAAGGTCACCAAGAAAACGAAGTCCAGGTACAGCTCT  
GGGTCCCAGAAAGCGAAAGCACAGGAAGCGGTCTCGGTCCCACTCGAGAGAGAAAAAGAGAAAAGCCTCAC  
GCTCCTACTCCAGTGAGCGCAGAGCCAGGAAAGGGAGAAAGAGCGCCAGAAAAAGGGCTTGCTCCTGT  
CAGGTCAAAAACACTAAGTGTATGCAGCACTACTCTCTGGTTGGCCAAGTGACAAGAAGGCTACACAG



[View online »](#)

CAAGATTTAACCAACCTTTTTGAGGAATTTGGACAAATTGAATCCATTAATATGATTCCACCCAGGGCT  
GTGCATATGTCTGCATGGTTCATCGACAAGATTCATTTGGGCTCTTCAGAACTGAGTTCAGGATCCTA  
TAAATTTGGTTCCAAGGTCATTAAGATTGCCTGGGCTTTGAACAAAGGTGTAAAGACAGAATACAAACAG  
TTCTGGGATGTGGATCTTGGCGTCACATATACCCTGGGAAAAAGTAAAGTAGATGACTTGGATGGCT  
TTGAGAGGGCGGCATGATTGATCAGGAGACTGTAATGCTGAATGGGAACTGTAAAGCCTCAGAACC  
TGTTAAAGAGCCAGTGCAGACTGCACAGAGTCCAGCTCCAGTTGAGAAGGAGTCACTGGTACCACACAG  
GCAGAGGTTTTCCCTCCTCCTGTGCATGCTGCAGATTCTGTAGCACCAGCTGTTCTGCAGTTAGCT  
TAGTTCCTCCAGGTTTTCTGTGTCGATGCCTGTCCCCCTCCTGGATTCAACCCGATCCCTCCACCTCC  
TTTTCTACGAGCAAGTTTTAACCTTCAACAACCCTCCTGGTTTTATGCCACCTCCAGTCCCCCACCT  
GTGGTACCTCCCCCTGCAATCCCACCGGTAGTACCAACATCTTTAGTGCAACCACCATTGTCCATGACCC  
CTGAAGCTGTAAAGATGTTGGATTTGGCAGCCTGGTTTTACCAAGTGGTCTGTGTGCTGGCAGTCTTGC  
TCCTTCAACTCTACCAGCTGAAATGTTTTAATCCTCCAGTAAAGCAGAGCCTGAAGAAAAAGTACCT  
CACCTTAGAGCACCAGATTCTTCTGGTGAGAACACAAGACCAGTATTCCAAGTGATTTCCAAGTA  
GTGCTGCAATGTTAGCACAGCCGCTGGGGCTCAAGCACCTCTGGGATCCTGTGCGTGCAGAGACCAAA  
TGATCAAGTAATTCTGAAATTTGGGGTTCGTCAGCTAATGTTTCCAACAGTCTGCAATTATGGGA  
GCCAGCCACCAATATTCTAAATAACTCTGGAATTTTGCCATACAGCCACCAATGTGTCCAGTGGCT  
CTGGACTTCTTGGGTAAGTGCCTCCAACTTGCCATAACAACCTCTGGACTGTAGGACTACAGCCACCAAA  
TGTTACAAGTCTGCTGGACTTTTGGGAACACAGCCACCAATTGGACCTCAAACTTACCACCTTTAGCC  
ATCCCTGCTCAAAGGATGCCCGGTTGCCAATGTTAGACATTCGCCCAGGACTGATAGCAGAGGCTCCCG  
GGCCACGATTCCTTTACTACAGCTGGAATCCACCACAACGCGGTATCCCTCCCCATCGGTACTTGA  
TGCAGCTTTCATCTCCACCCCGGACCTTTCTCCAGGAGATCTTTTCACTCAGCCAGAAAAGACCT  
TTTTCTGGCCCTGGAAGACCAAGTATAGACAATGTTCCCAACCCAGATAAAAAGTAACTTGGGAATG  
ACAATATTCAGCAGGAAGGGGATAGAGATTACCGCTTTCTCCTATAGAAACCAGGAGGGCATTACCAG  
ACCTCCTCAGGTGGATGTTAGGGATGTGGTTGGGCGACGCTAGATCCCAGAGAAGGCCCTGGAAGGCT  
CCATTAGATGCTAGGGATCATTTTGAAGACCTCCTGTGGACATGAGGGAGAATCTTGTGAGGCCAAGTC  
TAGACCACCTTGGTGAAGAGACCACTTTGGCTTTCCCCAGAGAAGCCTTGGGGCCTAGAGATTTTGA  
TGAGAGAGAGCATCGAGTCTGCCTGTCTTTGGTGGTCCAAAAGGCTTACATGAAGAAAGAGGTAGATTT  
CGGGCTGGAATACCGATTTGATCCTAGAAGTGGTCTTGAACAGAGGATTTGGTCAAGAAGTTCACA  
GAGATTTTATGACCGCAGAAGACCCTGGGAGAGGCAGAGGGATAGGGATGACAGAGATTTTATTTCTG  
CAGAGAAATTATTGAAATCGTCTTGGACGAGATAGAATTCAAAACACTTGGGTTCCCCCTCCTCATGCT  
CGGGTTTTGATTATTTGAAGGGGCCACTTCTCAACGAAAGGTGATAATGTGCCTCAAGTTAATGGTG  
AAAATACAGAGAGACATGCTCAGCCACCGCTTTACCAGTACAGAAGGACCCTGAACTCTATGAGAACT  
GGCGTCTTCAGGTGACGTAGACAAGGAGGAGAGCGGCACAGTTGCTGGTGTAGAGAGTGAAGCGGTGGTA  
GAAAGCACAGAGACTGAGGGGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >MR211872 representing BC038363  
 Red=Cloning site Green=Tags(s)

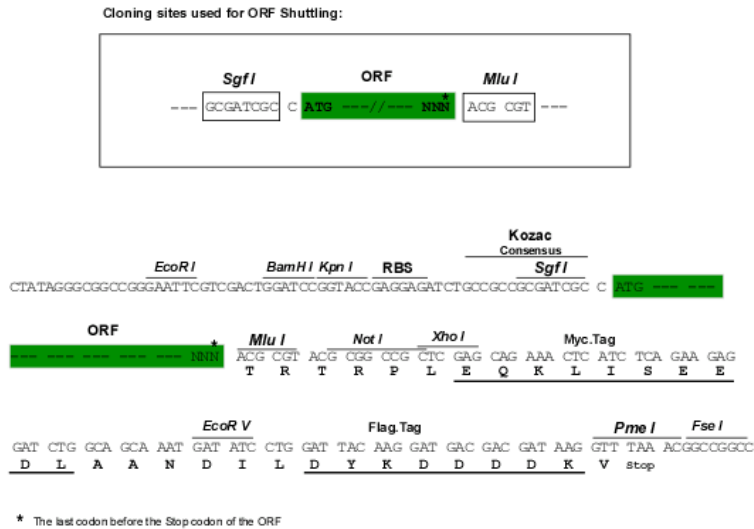
```
MEAVKTFNSELYSLNDYKPPISKAKMTQITKAAIKAIKFYKHVVQSVKEFIQKCKPEYKVPGLYVIDSIV
RQSRHQFGQEKDVFAPRFSNNIISTFQNL YRCPGDDKSKIVRVLNLWQKNNVFKSEIIQPLLDMAAGIPP
PVVTPVLASTTAAMSNTPGTPTVTPANVVQGLPDPWVSQIANTDTLAAVAQILQSPQGQLQQLIOTL
QIQQQKQPSPILQALDAGLVVQLQALTAQLTAAAAAANTLTPLDQGVSFNKKLMDRDFDGEDSEHSEESK
KEMPTPQLSHVSESVNNSIFHQIAEQLQQNLEQLRQQLLEQQQPQKVTQDSQEGTFGSEHSASPSQGS
SQQHFLPEANLDDSIDIQQDMDIDEGQDVVEEIEIFEPAKKVAVRSRSTRHSRSTRSRKRRSRSR
GSRKRKRKRKRSHSREKKRKASRSYSSERRAREREKERQKKGLPPVRSKTL SVCSTTLWVGQVDKATQ
QDLTNLFEFQGQIESINMIPPRGCAYVCMVHRQDSFRALQKLSSGSYKIGSKVIKIAWALNKGVKTEYKQ
FWDVDLGVTYIPWEKVKVDDLDGFAEGGMIDQETVNAEWETVKASEPVKEPVQTAQSPAPVEKESVVTTQ
AEVFPVPPVAMLQIPVAPAVPAVSLVPPAFVSMVPPVPPGFNPIPPPPFLRASFNPSQPPPGFMPPVPPP
VPPPAIPPVPTSLVQPPLSMTPEAVKDVGFGLSLVLPSSVAGSLAPSTLPAGNVFNPPSKAEPEEKVP
HLIEHQIPSGENTRPVIPS DIPSSAAMLAQPPGASSTGILCVQRPNVSSNSEILGVRPANVSNSAAIMG
AQPPNILNNSGILAIQPPNVSSGSGLLGVLPPNLPNNSGLVGLQPPNVTSPAGLLGTQPPIGPQNLPLLA
IPAQRMPALPMLDIRPGLIAQAPGRFLLQPGIPPPQRGIPPPSVLDAALHPPPRGPFPPGDLFSQPERP
FLAPGRPSIDNVPNDKRIPLGNDNIQQEGDRDYRFPP IETREGITRPPQVDRD VVGRRLDPREGPGRP
PLDARDHFGRPPVDMRENLRPSLDHLGRRDHFGFPPEKPGWRDFDEREHRVLPVFGGPKGLHEERGRF
RAGNYRFDPRSGPWNRGFGQEVHRDFDRRRRPWERQRDRDRDFDFCREIIGNRLGRDRIQNTWVPPPHA
RVFDYFEGATSQRKGDNPVQVNGENTERHAQPPPLPVQKDP ELYEKLASSGDVDKEESGTVAGVESEAVV
ESTETEGT
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9080\\_d09.zip](https://cdn.origene.com/chromatograms/mm9080_d09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

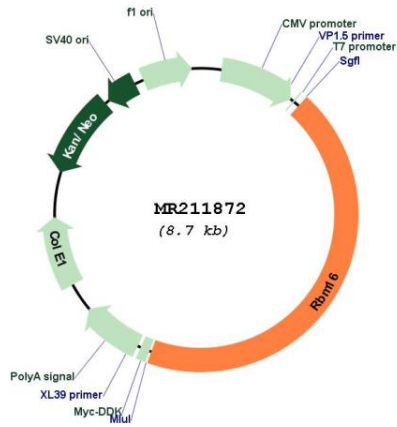


**ACCN:** BC038363

**ORF Size:** 3804 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">BC038363.1</a>
<b>RefSeq Size:</b>	4530 bp
<b>RefSeq ORF:</b>	3806 bp
<b>Locus ID:</b>	106583
<b>Cytogenetics:</b>	17 A1
<b>MW:</b>	139.6 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211872