

Product datasheet for **MR209471**

Rbm14 (BC010294) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm14 (BC010294) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbm14
Synonyms:	p16K, Sytip, p16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209471 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGATTTTTGTGGCAATGTCGATGGGGCGGATACGACACCGGAGGAGTTGGCAGCTCTCTTCGCGC
 CCTATGGCACGGTCATGAGCTGCGCCGTCATGAAACAGTTTGCCTTCGTGCACATGCGCGAGAACGCTGG
 CGCGGTGCGCGCCATCGAGGCCCTGCATGGCCACGAGCTGCGTCCAGGTCGCGCCTCGTGGTGGAGATG
 TCGCGCCCAGGCCCTGAACACTTGGAAAGATTTTCGTGGCAATGTATCGGCTGCATGTACAAGTCAGG
 AATTGCGCAGCCTCTTCGAGCGCCGTGGACGCGTCATCGAGTGTGACGTGGTAAAAGACTACGCGTTTGT
 TCACATGGAGAAGGAAGCAGATGCCAAAGCCGCATCGCGCAGCTCAACGGCAAAGAAGTGAAGGGCAAG
 CGCATCAACGTGGAACCTCAACCAAGGGGCAGAAGAAGGGCCCTGCCCTGGCTATCCAGTCTGGGGACA
 AGACCAAGAAACCAGGGGCTGGGGACACAGCATTCCCTGGAAGTGGTGGCTTCTCTGCCACCTTCGACTA
 CCAGCAGGCTTTTGGCAACAGCACTGGTGGCTTTGATGGCAAGCCCGTCAGCCACACCACCATTCTTT
 GGTCGCGACCGCAGCCCTGCGCCGTTCACTCCTCGAGCCTTATGTGGCGCCTCTGACGGCCACG
 CAGCCACCTACCGGGCCCAACCTCAGTGTCTCTGGGAGCTGCATATAGGGCCAGCCTTCCGCCTCTTT
 GGGTGTGCGCTATCGACTCAGCCATGGCAGCTCAGGCAGCTTCTTACCGTGTCTCAGCCCTCTGTCTCC
 CTTGGGGCCCCATACAGGGGTACAGTGGCTAGCCCTAGTTCACAGTCTGCTGCAGCTTCTCTCGTTGGCC
 CATATGGTGGAGTCCAGCCCTCAGCCTCAGCCCTCTCCACTTATGGGGTTCAGGCAGCTGCAGCTTCTTC
 GCTTAATTCCTATGGGGCTCAGGGCTCCTCCCTTGCTTCTTCTATAACACACAAGGAGCAGCTTCTTCCC
 CAGGCTGCCTCTTCGATGGGGTTCGTGCGGCTGCTTCTTCTATAACACACAAGGAGCAGCTTCTTCCC
 TAGGTTCTATGGGGCTCAAGCAGCCTCCTATGGTGCCAGTCTGCAGCCTCCTCACTAGCTTATGGAGC
 CCAGGCAGCGTCTTACAGTGCCAGCCCTCAGCCTCTTACAGTGCCAGTCTGCCCATATGCTGCACAA
 CAGGCTGCTTCTTATTCTTCCAGCCTGCTGCTTATGTGGCACAAACCAGCCACAGCTGCTGCCTATGCTA
 GCCAGCCAGCTGCCTATGCTGCACAAGCCACTACCCCAATGGCTGGTTCCTATGGGGCTCAACCAGTTGT
 TCAGACCCAGCTGAATAGCTATGGGGCTCAAGCATCTATTGGCCTGTCAGGCTCATATGGAGCTCAGTCT
 GCTGCTGCGGCCACTGGCTCCTATGGGGCGCAGCTGCTTACGGGGCTCAGCCTTCTGCCACCCTGGCAG
 CTCCTTACCGCACTCAGTCATCAGCCTCATTGGCTGCTTCTTATGCTGCCAGCAGCATCCCCAGGCTGC
 TGCTCCTACCGTGGCCAGCCGGCAGTGCCTACGATGGGACAGGCCAGCCATCAGCAGCCTACCTGTCT
 ATGTCCCAGGGGGCCGTTGCCAACGCCAACAGCACCCCGCCCTATGAGCGTACCCGCTCTCCCCAC
 CCCGGGCAGCTACGACGATCCCTACAAAAGGCTGTGCGCATGTCAAAAAGGTAAGTGTATGCCCCCCG
 CCTCAGCCCCAGCTGGGGCTTAGGGCAAGGGGC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

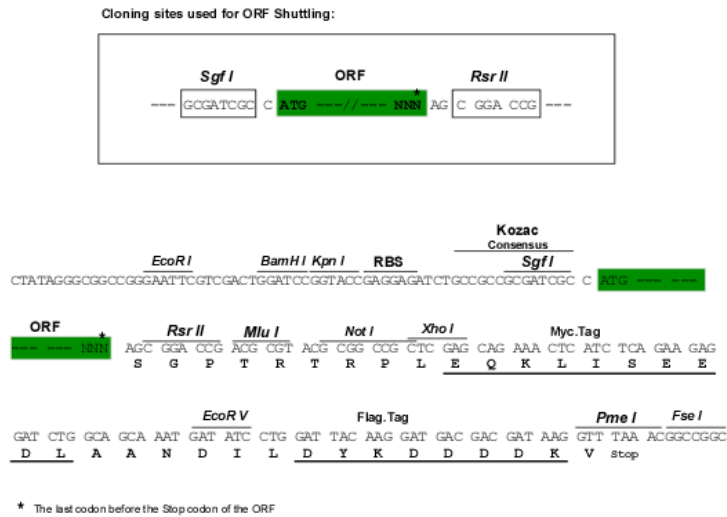
>MR209471 protein sequence
 Red=Cloning site Green=Tags(s)

MKIFVGNVDGADTTPEELAALFAPYGTVMSCAVMKQFAFVHMRENAGAVRAIEALHGHELPRGRALVVEM
 SRPRPLNTWKIFVGNVSAACTSQELRSLFERRGRVIECDVVKDYAFVHMEKEADAKAAIAQLNGKEVKGK
 RINVELSTKGQKGPALAIQSGDKTKKPGADTAFPGTGGFSATFDYQQAFGNSTGGFDGQARQPTPPFF
 GRDRSPLRRSPPRASYVAPLTAQPATYRAQPSVSLGAA YRAQPSASLGVGYRTQPMAAQAASYRAQPSVS
 LGAPYRQLASPSQSAASSLGPYGGVQPSASALSTYGGQAAAASSLNSYGAQGSLSLASYGNQPSYGA
 QAASSYGVRAAASSYNTQGAASSLGSYGAQAASYGAQAASSLAYGAQAASYSAQPSASYSAPYAAQ
 QAASYSSQPAAYVAQPATAAAYASQPAAYAAQATTPMAGSYGAQPVVQTQLNSYGAQASIGLSGSYGAQS
 AAAATGSYGAAYGAQPSATLAAPYRTQSSASLAASYAAQHPQAAAASYRGQPGSAYDGTGQPSAA YLS
 MSQGAVANANSTPPPYERTLSPPRASYDDPYKKAVAMSKRYCMPRLSPQLGLRARG

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: BC010294

ORF Size: 1854 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: [BC010294](#), [AAH10294](#)

RefSeq Size: 3545 bp

RefSeq ORF: 1856 bp

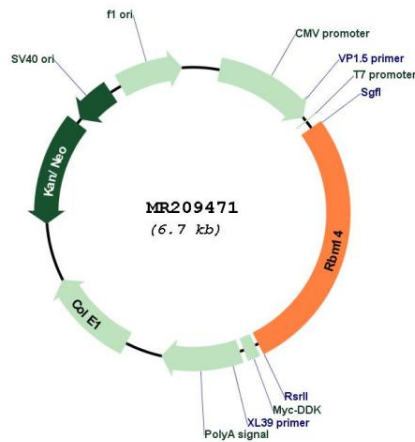
Locus ID: 56275

Cytogenetics: 19 A

MW: 63.2 kDa

Gene Summary: May function as a nuclear receptor coactivator, enhancing transcription through other coactivators such as NCOA6 and CITED1 (By similarity). Regulates centriole biogenesis by suppressing the formation of aberrant centriolar protein complexes in the cytoplasm and thus preserving mitotic spindle integrity (PubMed:25385835). Prevents the formation of the STIL-CENPJ complex (which can induce the formation of aberrant centriolar protein complexes) by interfering with the interaction of STIL with CENPJ (By similarity). Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209471