

Product datasheet for **MG209471**

Rbm14 (BC010294) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm14 (BC010294) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rbm14
Synonyms:	p16K, Sytip, p16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209471 representing BC010294
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATTTTTGTGGCAATGTCGATGGGGCGGATACGACACCGGAGGAGTTGGCAGCTCTCTTCGCGC
 CCTATGGCACGGTCATGAGCTGCCCGTCATGAAACAGTTTGCCTTCGTGCACATGCGCGAGAACGCTGG
 CGCGGTGCGCGCCATCGAGGCCCTGCATGGCCACGAGCTGCGTCCAGGTCGCGCGCTCGTGGTGGAGATG
 TCGCGCCCAGGCCCTGAACACTTGAAGATTTTCGTGGCAATGTATCGGCTGCATGTACAAGTCAGG
 AATTGCGCAGCCTCTTCGAGCGCGTGGACGCGTCATCGAGTGTGACGTGGTAAAAGACTACGCGTTTGT
 TCACATGGAGAAGGAAGCAGATGCCAAAGCCGCCATCGCGCAGCTCAACGGCAAAGAAGTGAAGGGCAAG
 CGCATCAACGTGGAAGTCTAACCAAGGGGCAGAAAGAAGGGCCCTGCCCTGGCTATCCAGTCTGGGGACA
 AGACCAAGAAACCAGGGCTGGGGACACAGCATTCCCTGGAAGTGGTGGTTCTCTGCCACCTTCGACTA
 CCAGCAGGCTTTTGGCAACAGCACTGGTGGCTTTGATGGGCAAGCCCGTCAGCCACACCACCTTCTTT
 GGTGCGCACCGCAGCCCCCTGCGCGTTCACTCCTCGAGCCTTATGTGGCGCCTCTGACGGCCACGC
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 GGGTGTGCGGTATCGGACTCAGCCCATGGCAGCTCAGGCAGCTTCTTACCGTGTCTCAGCCCTCTGTCTCC
 CTTGGGGCCCCATACAGGGGTGAGCTGGCTAGCCCTAGTTCAGTCTGCTGCAGCTTCTCTCGTTGGCC
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 GCTTAATTCCTATGGGGTTCAGGGCTCCTCCCTTGCTTCTATGGTAACAGCCATCCTCTTATGGCGCC
 CAGGCTGCCTCTTCGATGGGGTTCGTGCGGCTGCTTCTTCTATAACACACAAGGAGCAGCTTCTTCCC
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 CAGGCTGCTTCTTATTCTTCCAGCCTGCTGCTTATGTGGCACAACCAGCCACAGCTGCTGCCTATGCTA
 GCCAGCCAGTGCCTATGCTGCACAAGCCACTACCCCAATGGTGGTTCTATGGGGCTCAACCAGTTGT
 TCAGACCCAGTGAATAGCTATGGGGTCAAGCATCTATTGGCCTGTCAGGCTCATATGGAGCTCAGTCT
 GCTGCTGCGGCCACTGGCTCCTATGGGGCGCAGCTGCTTACGGGGTTCAGCCTTCTGCCACCCTGGCAG
 CTCCTTACCGCACTCAGTCATCAGCCTCATTGGCTGCTTCTATGCTGCCAGCAGCATCCCCAGGCTGC
 TGCCCTCTACCGTGGCCAGCCGGCAGTGCCTACGATGGGACAGGCCAGCCATCAGCAGCCTACCTGTCT
 ATGTCCCAGGGGGCCGTTGCCAACGCCAACAGCACCCCGCCCTATGAGCGTACCCGCTCTCCCCAC
 CCGGGCCAGCTACGACGATCCCTACAAAAAGGCTGTCGCCATGTCAAAAAGGTACTGTATGCCCCCCG
 CCTCAGCCCCAGCTGGGGCTTAGGGCAAGGGGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

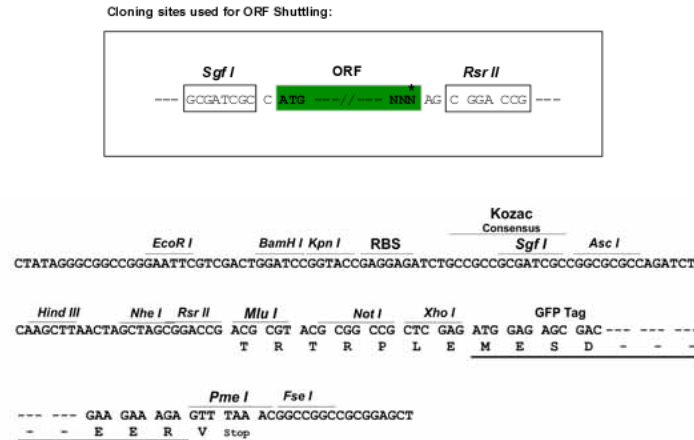
>MG209471 representing BC010294
 Red=Cloning site Green=Tags(s)

MKIFVGNVDGADTTPEELAALFAPYGTVMSCAVMKQFAFVHMRENAGAVRAIEALHGHELRPGRALVVEM
 SRPRPLNTWKIFVGNVSAACTSQELRSLFERRGRVIECDVVKDYAFVHMEKEADAKAAIAQLNGKEVKGK
 RINVELSTKGQKKGPALAIQSGDKTKKPGAGDTAFPGTGGFSATFDYQQAFGNSTGGFDGQARQPTPPFF
 GRDRSPLRRSPPRASYVAPLTAQPATYRAQPSVSLGAAYRAQPSASLVGVYRTQPMQAQAASYRAQPSVS
 LGAPYRQLASPSQSAASSLGPYGGVQPSASALSTYGGQAAAASSLNSYGAQGSLSAYGNQPSYGA
 QAASSYGVRAAASSYNTQGAASSLSYGAQAASYGAQSAASSLAYGAQAASYSAQPSASYSAPYAAQ
 QAASYSSQPAAYVAQPATAAAYASQPAAYAAQATTPMAGSYGAQPVVQTQLNSYGAQASIGLSGSYGAQS
 AAAATGSYGAAYGAQPSATLAAPYRTQSSASLAASYAAQHPQAAASYRGPQGSAYDGTGQPSAAYLS
 MSQGAVANANSTPPPYERTRLSPPRASYDDPYKKAVAMSKRYCMPRLSPQLGLRARG

SGPTRRRLE - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: BC010294

ORF Size: 1856 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

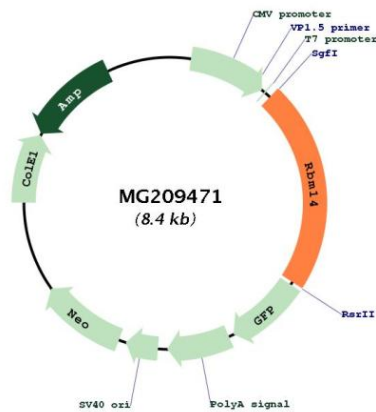
RefSeq ORF: 1856 bp

Locus ID: 56275

Cytogenetics: 19 A

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 MG209471