

Product datasheet for **MG217412**

Rbm14 (NM_019869) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm14 (NM_019869) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rbm14
Synonyms:	1300007E16Rik; p16; p16K; PSP2; Sytip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG217412 representing NM_019869
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATTTTTGTGGCAATGTCGATGGGGCGGATACGACACCGGAGGAGTTGGCAGCTCTCTTCGCGC
 CCTATGGCACGGTCATGAGCTGCGCCGTATGAAACAGTTTGCCTTCGTGCACATGCGCGAGAACGCTGG
 CGCGGTGCGCGCCATCGAGGCCCTGCATGGCCACGAGCTGCGTCCAGGTCGCGCGCTCGTGGTGGAGATG
 TCGCGCCCGAGGCCCTGAACACTTGAAGATTTTCGTGGCAATGTATCGGCTGCATGTACAAGTCAGG
 AATTGCGCAGCCTCTTCGAGCGCCGTGGACGCGTCATCGAGTGTGACGTGGTAAAAGACTACGCGTTTGT
 TCACATGGAGAAGGAAGCAGATGCCAAAGCCGCCATCGCGCAGCTCAACGGCAAAGAAGTGAAGGGCAAG
 CGCATCAACGTGGAACCTCAACCAAGGGGCAGAAGAAGGGGCCCTGCCCTGGCTATCCAGTCTGGGGACA
 AGACCAAGAAACCAGGGGCTGGGGACACAGCATTCCCTGGAAGTGGTGGTTCTCTGCCACCTTCGACTA
 CCAGCAGGCTTTTGGCAACAGCACTGGTGGCTTTGATGGCAAGCCCGTCAGCCACACCACCTTCTTT
 GGTGCGCAGCCGACGCCCTGCGCCGTTCACTCCTCGAGCCTTATGTGGCGCCTCTGACGGCCGAGC
 CAGCCACCTACCGGGCCAACCCTCAGTGTCTCTGGGAGCTGCATATAGGGCCGAGCCTCCGCCTCTTT
 GGGTGTGGCTATCGGACTCAGCCCATGGCAGCTCAGGCAGCTTCTTACCGTGTCTCAGCCCTGTCTCC
 CTTGGGGCCCCATACAGGGGTGAGCTGGCTAGCCCTAGTTCAGTCTGTGTCAGCTTCTCTCGTTGGCC
 CATATGGTGGAGTCCAGCCCTCAGCCTCAGCCCTTCCACTTATGGGGTTCAGGCAGCTGCAGCTTCTTC
 GCTTAATTCCTATGGGGTTCAGGGCTCCTCCCTGCTTCTATGGTAACCAAGCAGCCTCCTCTATGGCGCC
 CAGGCTGCCTCTTCGATGGGGTTCGTGCGGCTGCTTCTTCTATAACACACAAGGAGCAGCTTCTTCCC
 TAGGTTCTATGGGGCTCAAGCAGCCTCCTATGGTGCCAGTCTGCAGCCTCCTCACTAGCTTATGGGAGC
 CCAGGCAGCGTCTTACAGTGCCAGCCCTCAGCCTCTTACAGTGCCAGTCTGCCCATATGCTGCACAA
 CAGGCTGCTTCTTATTCTTCCAGCCTGCTGCTTATGTGGCACAAACCAGCCACAGCTGCTGCCTATGCTA
 GCCAGCCAGCTGCCTATGCTGCACAAGCCACTACCCCAATGGTGGTTCTATGGGGCTCAACCAGTTGT
 TCAGACCCAGCTGAATAGCTATGGGGTCAAGCATCTATTGGCCTGTCAGGCTCATATGGAGCTCAGTCT
 GCTGCTGCGGCCACTGGCTCCTATGGGGCGGCAGCTGCTTACGGGGCTCAGCCTTCTGCCACCCTGGCAG
 CTCCTTACCGCACTCAGTCATCAGCCTCATTGGCTGCTTCTATGCTGCCAGCAGCATCCCAGGCTGC
 TGCCTCTACCGTGGCCAGCCGGCAGTGCCTACGATGGGACAGGCCAGCCATCAGCAGCCTACCTGTCT
 ATGTCCCAGGGGGCCGTTGCCAACGCCAACAGCACCCCGCCCTATGAGCGTACCCGCTCTCCCAC
 CCGGGCCAGCTACGACGATCCCTACAAAAGGCTGTCGCCATGTCAAAAAGGTATGGTTCCGACCGGCG
 TTAGCCGAGCTCTCTGATTACCGCCGTTTATCAGAGTGCAGCTTTTCGTTCCGCGCTCGCCGACAAAG
 TCCTCGCTGGATTACCGTGCCTGCCGATGCCATTCCGATTACGCACGCTATTCGGGCTCCTATAATG
 ATTACCTGCGGGCAGCTCAGATGCACTCTGGTACCAGCGCCGCATG

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

Protein Sequence: >MG217412 representing NM_019869
 Red=Cloning site Green=Tags(s)

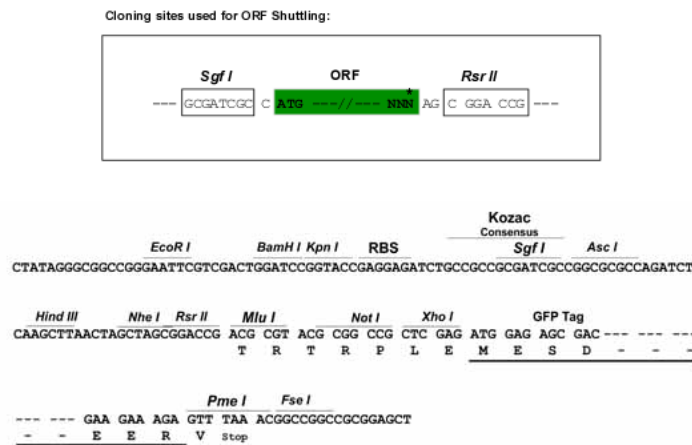
```

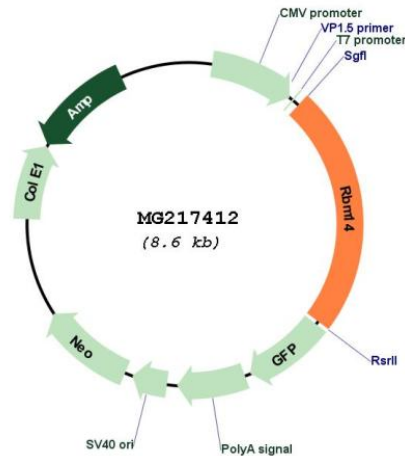
MKIFVGNVDGADTTPEELAA LFAPYGTVMSCAVMKQFAFVHMRENAGAVRAIEALHGHEL RPGRALVVEM
SRPRPLNTWKIFVGNVSAACTSQELRSLFERRGRVIECDVVKDYAFVHMEKEADAKAAIAQLNGKEVKGK
RINVELSTKGQKGPALAIQSGDKTKKPGAGDTAFPGTGGFSATFDYQQAFGNSTGGFDGQARQPTPPFF
GRDRSPLRRSPPRASIVAPLTAQPATYRAQPSVSLGAA YRAQPSASLGVGYRTQPMAAQAASYRAQPSVS
LGAPYRQLASPSSQSA ASSLGPYGGVQPSASALSTYGGQAAA ASSLNSYGAQGSLLASYGNQPSSYGA
QAASSYGVRAAASSYNTQGAASSLGSYGAQAASYGAQSAASSL AYGAQAASYSAPASYSAPYAAQ
QAASYSSQPAAYVAQPATAAAYASQPAAYAAQATTPMAGSYGAQPVVQTQLNSYGAQASIGLSGSYGAQS
AAAATGSYGAAAAYGAQPSATLAAPYRTQSSASLAASYAAQHPQAAA SYRGQPGSAYDGTGQPSAA YLS
MSQGAVANANSTPPPYERTRLSPPRASVDDPYKAVAMSKRYGSDRRLAELSDYRRLSESQLSFRRSPTK
SSLDYRRLPDAHSDYARYSGSYNDYLRAAQMHSGYQRRM
  
```

SGP TRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:


ACCN: NM_019869

ORF Size: 2007 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: [NM_019869.3](#)

RefSeq Size: 2809 bp

RefSeq ORF: 2010 bp

Locus ID: 56275

UniProt ID: [Q8C2Q3](#)

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]