

## Product datasheet for MR216967

### Rmi2 (NM\_001162932) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rmi2 (NM\_001162932) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rmi2  
**Synonyms:** A630055G03Rik; Gm537; Gm929  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR216967 representing NM\_001162932  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTGCGGCGTCCGAGTCGCTGTCTCCGGTGGCCCCGGGGCCGTGCGGCTGCCGCGTTGCCGC  
CACTCAAGGTAAGTGGCAGGACAGCTGCGCGGCACGCAGAGGGTGGCCCCGGGCGCGTGGCGGCTGTCCG  
GGCGGCGTGGGCGCGCTCCGCTGGAGCTGGTGGCCGTGTGGATGCAGGGTACCGTGTGGCGCGGAA  
GGCGGCCAGGCCCGGCTGCGGACTCGAGCGGAGCCTTCTGTGCGCGCCTGGAGCGGTACCACGCG  
GCCGGCCTGCCTCCTCCAGGAAAGTATGTGATGGTGTGGGGTGGTTCAGGCCTGCAGTCCTGAGCC  
CTGCCTGCAGGCCGTGAAGATGACGGATCTTTCTGACAATCCTGTCCACGAAAGCATGTGGAACTGGAG  
GTGGAAGATTTACACAGGAATATTCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR216967 representing NM\_001162932  
Red=Cloning site Green=Tags(s)

MAAAASELSSGGPGAVRLPRLPPLKVLQGLRRHAEGGPGAWRLSRAAVGRAPLELVAVVMQGTVLAEE  
GGQARLRDSSGAFSVRGLERVPRGRPCLLPKGYVMVMGVVQACSEPECLQAVKMTDLSDNPVHESMWELE  
VEDLHRNIP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

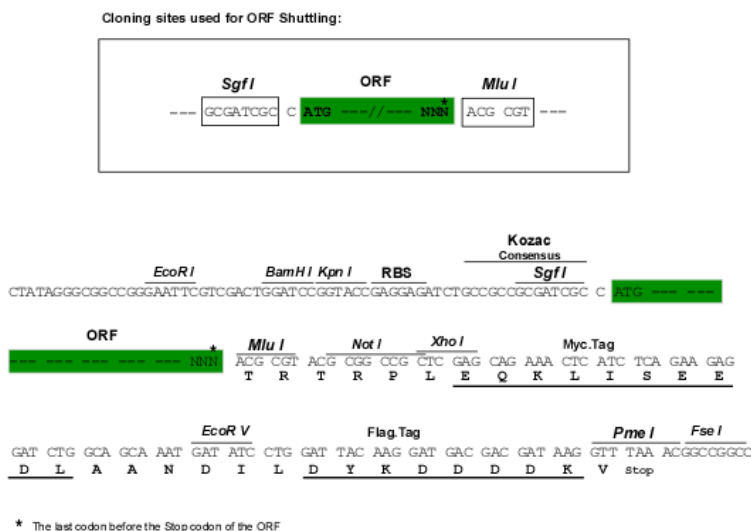
**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9081\\_e10.zip](https://cdn.origene.com/chromatograms/mm9081_e10.zip)



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001162932

ORF Size: 447 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\\_001162932.1](#), [NP\\_001156404.1](#)

RefSeq Size: 3739 bp

RefSeq ORF: 450 bp

Locus ID: 223970

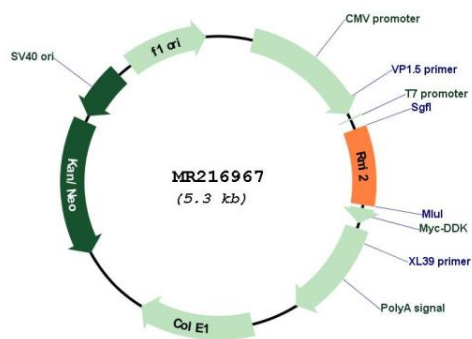
UniProt ID: Q3UPE3

Cytogenetics: 16 A1

MW: 15.8 kDa

**Gene Summary:** Essential component of the RMI complex, a complex that plays an important role in the processing of homologous recombination intermediates. It is required to regulate sister chromatid segregation and to limit DNA crossover. Essential for the stability, localization, and function of BLM, TOP3A, and complexes containing BLM. In the RMI complex, it is required to target BLM to chromatin and stress-induced nuclear foci and mitotic phosphorylation of BLM. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR216967