

Product datasheet for **RC205111**

RMI2 (NM_152308) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RMI2 (NM_152308) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RMI2
Synonyms:	BLAP18; C16orf75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205111 representing NM_152308 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGCGGCTGCGGACTCGTTCTCAGGCGGCCCCGCGGGGTGCGGCTTCGAGGTCGCCGCACTCA
AGGTGCTGGCGGAGCAGCTGCGGCGGACGCGGAGGGCGGCCGCGCTGGCGGCTGTACGGGCGGC
GGCGGGCCGCGGCGCTGGACCTGGCGGCCGTGGATGCAGGGCAGGGTAGTGATGGCGGACCGCGGC
GAGGCTCGGCTGAGGGACCCGAGCGGGACTTCTCGGTCCGCGGCTGGAGCGGGTGCCGCGGGCGGC
CCTGTCTAGTCCCAGAAAGTATGTGATGGTATGGGAGTGGTTCAGGCCTGCAGCCCTGAGCCCTGCCT
GCAGGCTGTGAAGATGACAGACCTTTCTGATAATCCCATCCATGAAAGTATGTGGGAAGTGGAGGTAGAA
GATTTACACAGGAATATTCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC205111 representing NM_152308 Red=Cloning site Green=Tags(s)
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MAAAADSFSGGPAGVRLPRSPPLKVLAEQLRRDAEGGPGAWRLSRAAAGRGPLDLAAVWMQGRVVMADRG
EARLRDPSGDFSVRGLERVPRGRPCLVPGKYVMVMGVVQACSPEPCLQAVKMTDLSDNPIHESMWELEVE
DLHRNIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

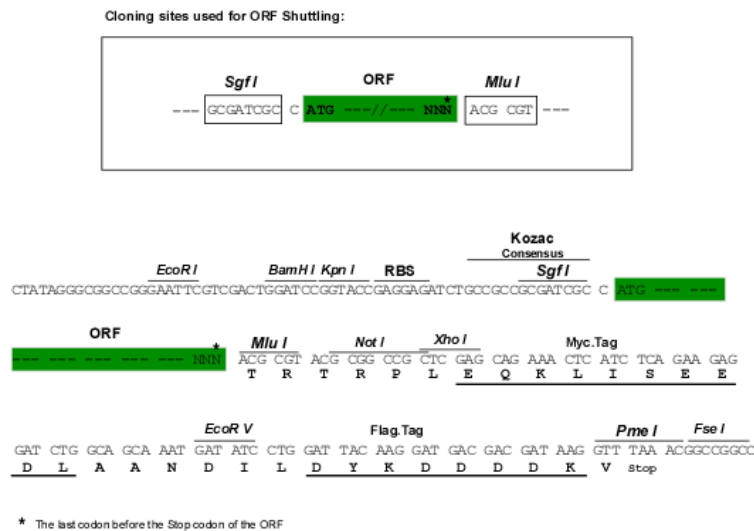
Chromatograms:	https://cdn.origene.com/chromatograms/ja1450_e12.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152308

ORF Size: 441 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152308.3](#)

RefSeq Size: 1462 bp

RefSeq ORF: 444 bp

Locus ID: 116028

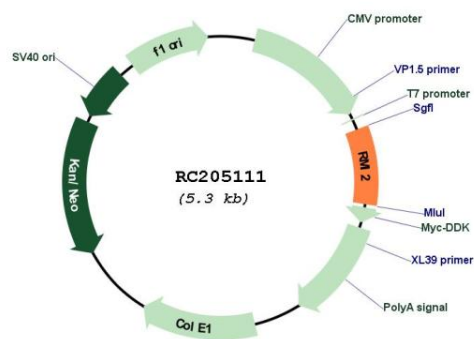
UniProt ID: [Q96E14](#)

Cytogenetics: 16p13.13

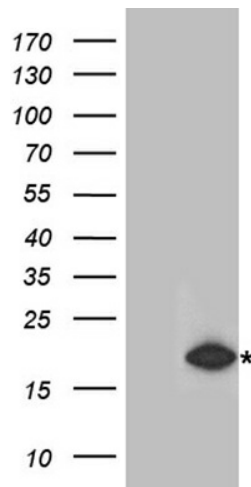
MW: 15.7 kDa

Gene Summary: RMI2 is a component of the BLM (RECQL3; MIM 604610) complex, which plays a role in homologous recombination-dependent DNA repair and is essential for genome stability (Xu et al., 2008 [PubMed 18923082]).[supplied by OMIM, Nov 2008]

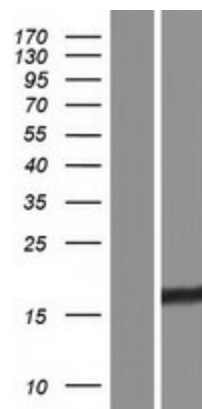
Product images:



Circular map for RC205111



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RMI2 (Cat# RC205111, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RMI2 antibody (Cat# [TA890146]). Positive lysates [LY407664] (100ug) and [LC407664] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407664]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205111 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).