

## Product datasheet for MR205010

### Rad51ap1 (NM\_009013) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad51ap1 (NM_009013) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rad51ap1
Synonyms:	2510006L10Rik; RAB22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205010 representing NM_009013 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCCTCTATCAGAAATAGAAAACCAATAAATTATTCACAGTTTGAAGATTCTGGCAATGACTCTG  
ATGATGATTTTATTTCTTCATCCACACCTGTAACAAGTCAAAAAGTGTGCCAAAGGTATTAAGCAAGA  
CAAACAAAACCTAACTGAAGAATCTCCAAAAGAAGAGGTCTTACCAACAGAACCCCTAAAAAAGG  
GTGGCTTTAGATGACAAGGTCTTCAAAGAGGTCTAGAAGTTGCCCTGGCTTTATCTGTGAAGGAATTC  
CAACACTACCAACCAAGTAAAGAAGTCAAAGAGAAAAGCACTGACAAACAAGGCAAAGAGAAAACAGA  
AAATACGGGTAAACCTCCTCATGTCTCTAACTGCAGTGTAGCCAGTGATGATGTAGAAGATTTGGACAAG  
ATCACAGAGGAGGGGACGCCTCGAGTGTGAAGGGAGAGGAAGTACCATCTCAAGCCAAGGCTCCGC  
GGAGGAGAGCACCTTCTGAAGGCAGCGATGGCAGCAGTGTAACGACACGGAGTCGGAGAGGCCACTGG  
TGAAGGTTTCAAGAAAGTATCCTGATTTTGTGAGAGTAAAGAAAGTGTGAAGACTTTGGTGTGAGAAGA  
AGTAAAGAATCAAAGAAGAAAACAGTGCAGAAGAACTGCAGGGGAAAAGAAGGAAAGGAAATCAAAC  
CCAAATGTGAGGCATCAGTGACTTCAGTAGACCCAGCTCCAGCTGCCATCAAGTCAGGATCTCCATCTTT  
ACCCAGGCAGTTGGTCTTCTTCTGAGGCCACTAGGAAACCAGCAATAATGTGCAGCCCTTCAGCTGAA  
AGCAAGAGGCCAAAGTGGTCCCCCAGCTGCCCTGGGAGCAGGAAGTCTAGCAGCAATGCATTGGCAG  
GAACACCTGCCAAGTCCCGAGTCAGAGCCTGCGTCTGGCCCTCTCCCGATTAGCCAGTAAAGCGCTT  
GCATCCAAGTGCCACAAGCAGCCAAGTGCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205010 representing NM\_009013  
 Red=Cloning site Green=Tags(s)

MVRPIRNRKPINYSQFEDSGNDSDDDFISSSTPVNKSKTVPKVLKQDKPKPNLKNLQKEEVLPTPEPKKR  
 VALDDKVFQRLGVALALSVKELPTLTNQVKSKEKSTDKQGEKENTGKPPHVSNCVSDDDVEDLDK  
 ITEEGDASSVEGERKSPSQAKAPRRRAPSEGSDDSSANDTESESATGEGSESDPDFDESKEDEDFGVRR  
 SKESKKKTVQKKPAGEKKERKSKPKCEASVTSVDPAPAAIKSGSPSLPQAVGLPSEATRKPAIMCSPSAE  
 SKRPKWVPPAASGRNSSNALAGTPAKSPSQLRLGLSRLAPVKRLHPSATSSQVR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9045\\_e03.zip](https://cdn.origene.com/chromatograms/mm9045_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009013

**ORF Size:** 1011 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\\_009013.4](#)

**RefSeq Size:** 1835 bp

**RefSeq ORF:** 1014 bp

**Locus ID:** 19362

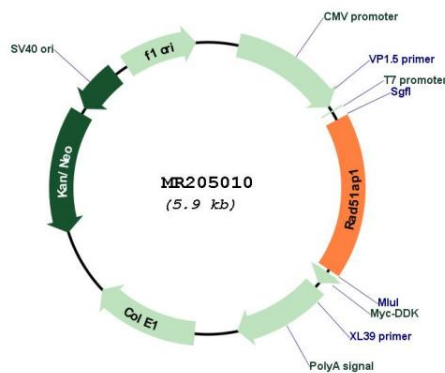
**UniProt ID:** [Q8C551](#)

**Cytogenetics:** 6 61.92 cM

**MW:** 36.7 kDa

**Gene Summary:** May participate in a common DNA damage response pathway associated with the activation of homologous recombination and double-strand break repair. Functionally cooperates with PALB2 in promoting of D-loop formation by RAD51. Binds to single and double stranded DNA, and is capable of aggregating DNA. Also binds RNA (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205010