

Product datasheet for **MC209282**

Rad51ap1 (NM_009013) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rad51ap1 (NM_009013) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rad51ap1
Synonyms: 2510006L10Rik; RAB22
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209282 representing NM_009013
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGCCTCCTATCAGAAATAGAAAACCAATAAATTATTCACAGTTTGAAGATTCTGGCAATGACTCTG
ATGATGATTTTATTTCTTCATCCACACCTGTAACAAGTCAAAAAGTGTGCCAAAGGTATTAAGCAAGA
CAAACCAAAACCTAACTGAAGAATCTCCAAAAAGAAGAGGTCTTACCAACAGAACCCCTAAAAAAGG
GTGGCTTTAGATGACAAGGTCTTCAAAGAGGTCTAGAAGTTGCCCTGGCTTTATCTGTGAAGAACTTC
CAACACTACCAACCAAGTAAAGAAGTCCAAAGAGAAAAGCACTGACAAACAAGGCAAAGAGAAAACAGA
AAATACGGGTAACCTCCTCATGTCTCTAACTGCAGTGTAGCCAGTGTATGATGTAGAAGATTTGGACAAG
ATCACAGAGGAGGGGACGCCTCGAGTGTGAAGGGGAGAGGAAGTCAACATCTCAAGCCAAGGCTCCGC
GGAGGAGAGCACCTTCTGAAGGCAGCGATGGCAGCAGTGTAAACGACACGGAGTCGGAGAGCGCCACTGG
TGAAGTTTCAAGAAAGTATCCTGATTTTGTAGAGTAAAGAAAGTGTGAAGACTTTGGTGTGAGAAGA
AGTAAAGAATCAAAGAAGAAAACAGTGCAGAAGAACTGCAGGGGAAAAGAAGGAAAGGAAATCAAAC
CCAAATGTGAGGCATCAGTGACTTCAGTAGACCCAGCTCCAGCTGCCATCAAGTCAGGATCTCCATCTTT
ACCCAGGCAGTTGGTCTTCTTCTGAGGCCACTAGGAAACCAGCAATAATGTGCAGCCCTTCAGCTGAA
AGCAAGAGGCCCAAGTGGTCCCCCAGCTGCCTCTGGGAGCAGGAACTTAGCAGCAATGCATTGGCAG
GAACACCTGCCAAGTCCCGAGTCAGAGCCTGCGTCTGGGCTCTCCCGATTAGCGCCAGTTAAGCGCTT
GCATCCAAGTGCCACAAGCAGCCAAGTGCGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_009013



Insert Size:	1014 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_009013.3</u> , <u>NP_033039.2</u>
RefSeq Size:	1835 bp
RefSeq ORF:	1014 bp
Locus ID:	19362
UniProt ID:	<u>Q8C551</u>
Cytogenetics:	6 61.92 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>