

Product datasheet for **MR206817**

Rad52 (NM_001166383) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad52 (NM_001166383) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rad52
Synonyms:	Rad52yh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206817 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGGGCCTGAAGAAGCAGTCCACAGAGGGTGTGACAACCATCCTCCCTTTGTTGGTGGGAAGTCTG
 TGCTCCTCTTTGGACAGAGCCAGTATACAGCGGATGAATACCAGGCCATCCAGAAAAGCTCTGAGACAGAG
 ACTGGGTCAGAGTACATTAGCAGCCGCATGGCTGGAGGAGGTCAGAAGGTGTGTATATTGAAGGTCAT
 CGGTAATTAATCTGGCCAATGAGATGTTTGGTTACAATGGCTGGGCACACTCCATCACCCAGAAAATG
 TGGATTTTGTGACCTCAACAATGGCAAGTTCTACGTGGGAGTCTGTGCATTTGTAAGGTGCAGTTAAA
 GGATGGTTCCTATCATGAGGACGTGGGCTATGGAGTTAGTGAGGGCCTCCGTTCAAAGGCCTTGTCAGTG
 GAGAAGGCCAGGAAGGAGGCTGTACTGATGGGCTGAAGCGAGCACTCAGGAGTTTTGGGAATGCAGTTG
 GAAACTGTATTCTGGACAAGACTATCTGAGGTCATAAATAAGCTTCCACGACAGCTCCCTCTTGATGT
 GGATTTAACTAAAACAAGAGAGAAGATTTTGAACCATCTGTAGAACAGGCAAGATACAACAGCTGCCGA
 CAGAATGAAGCATTGGGACTCCCCAAACCACAGGAAGTACTTCCCTTCGAGATCAAGCCCCCACATG
 ACTCGAACATTAAGCTTCAGGGGGCTAAGGACATCAGCAGCTCCTGCAGTCTGGCCGCCACCTTGGAGAG
 TGACGCCACTCACAGAGGAAGCTCCGGAAGCTCCGGCAGAAGCAGCTCCAGCAGCAGTCCGGGAACAG
 ATGGAGACTCGCCGGCAGAGCCATGCACCTGCCGAAGAGGTGGCAGCCAAGCATGCGGCAGTACTCCAG
 CCCCTCCAAAACACAGCACCCCTGTAAGTGCAGCCTCAGAACCTCCAGGAGAAAGTCGTCTTTCCAGA
 TAACCTTGAAGAGAACCTTGAATGTGGGACCTTACTCCAGACTTAGAGGACATCATTAAAGCCCTTGTGT
 AGAGCAGAACCAGCCAAAACCTTCTGCCACTCGAACCTTCAACAACCAGGACAGCGTCCCACATATCCATT
 GCCATCAGAAAACCACAAGAAAAGCCTGGACCTGGGCACCTGCAGACCTGCAACACCAACCAGCATGTTCT
 AGGTAGCAGAGGTGTGTGGAAGAATGAAAGTTCTGGGTTAATTCTTTAACATGTAAGGAAAGGTGCTA
 GTTCATTTAAGACGCTGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206817 protein sequence
 Red=Cloning site Green=Tags(s)

MAGPEEAVHRGCDNHPFVGGKSVLLFGQSQYTADEYQAIQKALRQRLGPEYISSRMAGGGQKVCYIEGH
 RVINLANEMFGYNGWAHSITQQNVDFVLDLNNKFYVGVCAFVKVQLKDGSYHEDVGYGVSEGLRSKALSL
 EKARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLDVLTKTKREDFEPSVEQARYNSCR
 QNEALGLPKPQEVTSPCRSSPPHDSNIKLQGAKDISSSCSLAATLES DATHQRKLRKLRQKQLQQQFREQ
 METRRQSHAPAE EVAAKHA AVL PAPPKHSTPVTAASELLQEKVVFDPNLEENLEMMWDLTPDLEDIKPLC
 RAEP AQTSATRFN NQDSVPHIHC HQPKQEKPGPHLQT CNTNQHVLGSRGVWKNES SGNLSL TCKGKVL
 VHFKTLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001166383

ORF Size: 1284 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_001166383.1](#), [NP_001159855.1](#)

RefSeq Size: 1626 bp

RefSeq ORF: 1284 bp

Locus ID: 19365

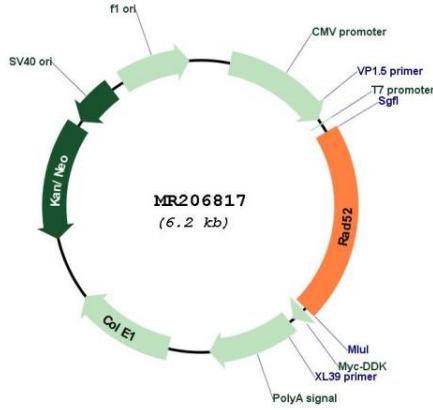
Cytogenetics: 6 56.86 cM

MW: 47.5 kDa

Gene Summary:

Involved in double-stranded break repair. Plays a central role in genetic recombination and DNA repair by promoting the annealing of complementary single-stranded DNA and by stimulation of the RAD51 recombinase (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206817