

Product datasheet for MR216030

Rad52 (NM_001166382) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad52 (NM_001166382) 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)
ORF Nucleotide Sequence:	>MR216030 representing NM_001166382 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGCCTGAAGAAGCAGTCCACAGAGGGTGTGACAACCATCCTCCCTTTGTTGGTGGGAAGTCTG
TGCTCCTCTTTGGACAGAGCCAGTATACAGCGGATGAATACCAGGCCATCCAGAAAGCTCTGAGACAGAG
ACTGGGTCAGAGTACATTAGCAGCCGCATGGCTGGAGGAGGTCAGAAGGTGTGTATATTGAAGGTCAT
CGGTAATTAATCTGGCCAATGAGATGTTTGGTTACAATGGCTGGGCACACTCCATCACCAGCAAAATG
TGGATTTTGTGACCTCAACAATGGCAAGTTCTACGTGGGAGTCTGTGCATTTGTAAGGTGCAGTTAAA
GGATGGTTCCATCATGAGGACGTGGGCTATGGAGTTAGTGAGGGCCTCCGTTCAAAGGCCTTGTCACTG
GAGAAGGCCAGGAAGGAGGCTGTGACTGATGGGCTGAAGCGAGCACTCAGGAGTTTTGGGAATGCACTTG
GAACTGTATTCTGGACAAAGACTATCTGAGGTCACTAAATAAGCTTCCACGACAGCTCCCTCTTGATGT
GGATTTAACTAAAACAAAGAGAGAAGATTTTGAACCATCTGTAGAACAGGCAAGATACAACAGCTGCCGA
CAGAAATGAAGCATTGGGACTCCCCAAACCACAGGAAGTGACTTCCCCTTGCGATCAAGCCCCCACATG
ACTCGAACATTAAGCTTCAGGGGGCTAAGGACATCAGCAGCTCCTGCAGTCTGGCCGCCACCTTGGAGAG
TGACGCCACTCACAGAGGAAGCTCCGGAAGCTCCGGCAGAAGCAGCTCCAGCAGCAGTTCCGGGAACAG
ATGGAGACTCGCCGGCAGAGCCATGCACCTGCCGAAGAGGTGGCAGCAAGCATGCGGTACTTCCAGCCC
CTCCAAAACACAGCACCCCTGTAACCTGCAGCCTCAGAACTCCTCCAGGAGAAAGTCTTTCCAGATAA
CCTTGAAGAGAACCTTGAATGTGGGACCTTACTCCAGACTTAGAGGACATCATTAAAGCCCTTGTGTAGA
GCAGAACCAGCCAAACTTCTGCCACTCGAACCTTCAACAACCAGGACAGCGTCCCACATATCCATTGCC
ATCAGAAACCACAAGAAAAGCCTGGACCTGGGCACCTGCAGACCTGCAACACCAACCAGCATGTTCTAGG
TAGCAGAGAAGACTCTGAACCTCATAGGAAGAGCCAGGACCTGAAGAAAAGGAACTAGATCCATCC

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR216030 representing NM_001166382
Red=Cloning site Green=Tags(s)

MAGPEEAVHRGCDNHPPFVGGKSVLLFGQSQYTADYQAIQKALRQRLGPEYISSRMAGGGQKVCYIEGH
RVINLANEMFGYNGWAHSITQQNVDFVLDNNGKFYVGVCAFVKVQLKDGSYHEDVGVVSEGLRSKALS
EKARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLDVLTKTKREDFEPSVEQARYNSCR
QNEALGLPKPQEVTSPCRSSPPHDSNIKLGAKDISSSCSLAATLESDATHQRKLRKLRQKQLQQQFREQ
METRRQSHAPAEVAAKHAVLPAPPKHSTPVTAASELLQEKVVFPDNLEENLEMWDLTPDLEDIIKPLCR
AEPAQTSATRTFNQDSVPHIHCHQKPQEKPGPHLQTCNTNQHVLSREDSEPHRKSQDLKRRKLDPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001166382

ORF Size: 1257 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_001166382.1, NP_001159854.1

RefSeq Size: 1695 bp

RefSeq ORF: 1260 bp

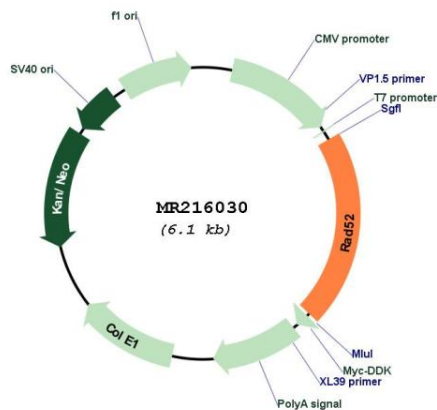
Locus ID: 19365

Cytogenetics: 6 56.86 cM

MW: 47.3 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 MR216030