

Product datasheet for **MC209284**

Rad52 (NM_001166382) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad52 (NM_001166382) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rad52
Synonyms:	Rad52yh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209284 representing NM_001166382 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGCCTGAAGAAGCAGTCCACAGAGGGTGTGACAACCATCCTCCCTTTGTTGGTGGGAAGTCTG
TGCTCCTCTTTGGACAGAGCCAGTATACAGCGGATGAATACCAGGCCATCCAGAAAGCTCTGAGACAGAG
ACTGGGTCAGAGTACATTAGCAGCCGCATGGCTGGAGGAGGTCAGAAGGTGTGTATATTGAAGGTCAT
CGGTAATTAATCTGGCCAATGAGATGTTTGGTTACAATGGCTGGGCACACTCCATCACCCAGCAAATG
TGGATTTTGTGACCTCAACAATGGCAAGTTCTACGTGGGAGTCTGTGCATTTGTAAGGTGCAGTTAAA
GGATGGTTCTATCATGAGGACGTGGGCTATGGAGTTAGTGAGGGCCTCCGTTCAAAGGCCTTGTCACTG
GAGAAGGCCAGGAAGGAGGCTGTGACTGATGGGCTGAAGCGAGCACTCAGGAGTTTTGGGAATGCACTTG
GAACTGTATTCTGGACAAAGACTATCTGAGGTCACTAAATAAGCTTCCACGACAGCTCCCTCTTGATGT
GGATTTAACTAAAACAAAGAGAGAAGATTTTGAACCATCTGTAGAACAGGCAAGATACAACAGCTGCCGA
CAGAAATGAAGCATTGGGACTCCCCAAACCACAGGAAGTGACTTCCCTTGCAGATCAAGCCCCCACATG
ACTCGAACATTAAGCTTCAGGGGCTAAGGACATCAGCAGCTCCTGCAGTCTGGCCGCCACCTTGGAGAG
TGACGCCACTCACAGAGGAAGCTCCGGAAGCTCCGGCAGAAGCAGCTCCAGCAGCAGTTCCGGGAACAG
ATGGAGACTCGCCGCGCAGAGCCATGCACCTGCCGAAGAGGTGGCAGCCAAGCATGCGGTACTTCCAGCCC
CTCCAAAACACAGCACCCCTGTAACCTGCAGCCTCAGAACTCCTCCAGGAGAAAGTCTTTCCAGATAA
CCTTGAAGAGAACCTTGAATGTGGGACCTTACTCCAGACTTAGAGGACATCATTAAAGCCCTTGTGTAGA
GCAGAACCAGCCAAACTTCTGCCACTCGAACCTTCAACAACCAGGACAGCGTCCCACATATCCATTGCC
ATCAGAAACCACAAGAAAAGCCTGGACCTGGGCACCTGCAGACCTGCAACACCAACCAGCATGTTCTAGG
TAGCAGAGAAGACTCTGAACCTCATAGGAAGAGCCAGGACCTGAAGAAAAGGAACTAGATCCATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001166382
Insert Size:	1260 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_001166382.1, NP_001159854.1</u>
RefSeq Size:	1695 bp
RefSeq ORF:	1260 bp
Locus ID:	19365
Cytogenetics:	6 56.86 cM
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] Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 3), compared to isoform 1.