

Product datasheet for **MG216030**

Rad52 (NM_001166382) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rad52 (NM_001166382) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rad52
Synonyms: Rad52yh
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216030 representing NM_001166382
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGGCCTGAAGAAGCAGTCCACAGAGGGTGTGACAACCATCCTCCCTTTGTTGGTGGGAAGTCTG
 TGCTCCTCTTTGGACAGAGCCAGTATACAGCGGATGAATACCAGGCCATCCAGAAAGCTCTGAGACAGAG
 ACTGGGTCAGAGTACATTAGCAGCCGCATGGCTGGAGGAGGTCAGAAGGTGTGTATATTGAAGGTCAT
 CGGTAATTAATCTGGCCAATGAGATGTTTGGTTACAATGGCTGGGCACACTCCATCACCCAGCAAATG
 TGGATTTTGTGACCTCAACAATGGCAAGTTCTACGTGGGAGTCTGTGCATTTGTAAGGTGCAGTTAAA
 GGATGGTTCTATCATGAGGACGTGGGCTATGGAGTTAGTGAGGGCCTCCGTTCAAAGGCCTTGTCACTG
 GAGAAGGCCAGGAAGGAGGCTGTGACTGATGGGCTGAAGCGAGCACTCAGGAGTTTTGGGAATGCACTTG
 GAACTGTATTCTGGACAAAGACTATCTGAGGTCACTAAATAAGCTTCCACGACAGCTCCCTCTTGATGT
 GGATTTAACTAAAACAAAGAGAGAAGATTTTGAACCATCTGTAGAACAGGCAAGATACAACAGCTGCCGA
 CAGAAATGAAGCATTGGGACTCCCCAAACCACAGGAAGTGACTTCCCCTTGCGATCAAGCCCCCACATG
 ACTCGAACATTAAGCTTCAGGGGCTAAGGACATCAGCAGCTCCTGCAGTCTGGCCGCCACCTTGGAGAG
 TGACGCCACTCACAGAGGAAGCTCCGGAAGCTCCGGCAGAAGCAGCTCCAGCAGCAGTTCCGGGAACAG
 ATGGAGACTCGCCGGCAGAGCCATGCACCTGCCGAAGAGGTGGCAGCAAGCATGCGGTACTTCCAGCCC
 CTCCAAAACACAGCACCCCTGTAACCTGCAGCCTCAGAACTCCTCCAGGAGAAAGTCTTTCCAGATAA
 CCTTGAAGAGAACCTTGAATGTGGGACCTTACTCCAGACTTAGAGGACATCATTAAAGCCCTTGTGTAGA
 GCAGAACCAGCCAAACTTCTGCCACTCGAACCTTCAACAACCAGGACAGCGTCCCACATATCCATTGCC
 ATCAGAAACCACAAGAAAAGCCTGGACCTGGGCACCTGCAGACCTGCAACACCAACCAGCATGTTCTAGG
 TAGCAGAGAAGACTCTGAACCTCATAGGAAGAGCCAGGACCTGAAGAAAAGGAACTAGATCCATCC

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >MG216030 representing NM_001166382
 Red=Cloning site Green=Tags(s)

MAGPEEAVHRGCDNHPPFVGGKSVLLFGQSQYTADYQAIQKALRQRLGPEYISSRMAGGGQKVCYIEGH
 RVINLANEMFGYNGWAHSITQQNVDFVLDLNNKFYVGVCAFVKVQLKDGSYHEDVGYGVSEGLRSKALSL
 EKARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLDVLTKTKREDFEPSVEQARYNSCR
 QNEALGLPKPQEVTPCRSSPPHDSNIKLGAKDISSSCSLAATLESDATHQRKLRKLRQKQLQQQFREQ
 METRRQSHAPAEVAAKHAVLPAPPKHSTPVTAASELLQEKVVFPDNLEENLEMWDLTPDLEDIIKPLCR
 AEPAQTSATRTFNNQDSVPHIHCHQKPKQKPGPHLQTCNTNQHVLSREDSEPHRKSQDLKRRKLDPS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

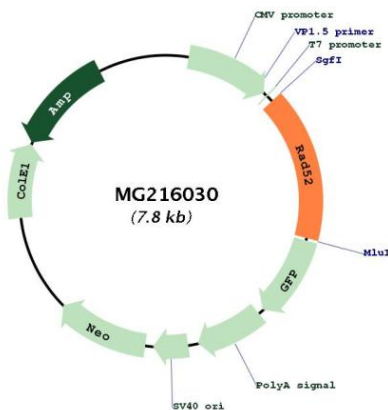
RefSeq ORF: 1260 bp

Locus ID: 19365

Cytogenetics: 6 56.86 cM

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 MG216030