

## Product datasheet for **MC205394**

### Rad54l (NM\_009015) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad54l (NM_009015) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rad54l
Synonyms:	RAD54
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC021643  
 CCACGCGTCGGGAAGAATAAGGGGAAAGATACAGGAGTCGCTCTCTGCCTCTCTTCAGCTTCTAAGATTC  
 TCCTCCTCCCAACCTGGATTTTTAACTGGTCCTTCTGGGTTCTGTTTAACTTCCCACAAGGCGTTCCT  
 AGGTCTCTGCTTGCTTCCCTCACACTGAGGTTTGATGTCGGTCCAGCTCTGGTAAATTCTATCCCTCTCC  
 TAAGAATTCAGGCGTCTCGCCTTCGTACTTAACACTGCACTTTTTTCGTAGGTGTACTCTCAGGGAAGC  
 AGCCACAGTAGGGACGTTATCCAACCTCACTTTGGTCACTGCAACTTCAATCTGTCTTCTTTCCCATC  
 CTAGATTTAGACCCAGCTCCGCTGGACTTGGCTTTGTATATTTTGACCTTGAGGAACCTGGGACCCGAC  
 ATTCTGGTTTGGACCAAGCCTCATTCCCTGATTGCATCCCCTCCCCTCATACCGACTCTTAAGACAAT  
 ATTTTCAATGATATAGCAACTTCTTTTTATAGCATCCCCTGGTCTGCATTCTCTGTTGCTGAGTGCTTT  
 TAACCTAGCTGATGGGCACTTGACATCTGATGCTTCTGGGGCCAGGATGAGGAGGAGCTTAGCTCCCAGC  
 CAGTTGGCCAGGAGAAACCAGAAGACAGATCATCAGATGATGAAGACTGGCAGCCTGGGACAGTAACTC  
 CTAAAGAAACGCAAGTCCAGCAGTGAGACCCAGGTCAGGAGTGTTTCTGTCTCCTTTTCGGAAGCCCTT  
 GACTCAGCTACTCAACCGCCACCTTGTCTGGATAGCAGTCAACATGAAGCATTTATTGCAAGTATTTTG  
 TCAAAGCCTTTCAAGTCCCATCCAAATTATCAAGTCCCCTGGGCTCTCGTGCATTGGGCTGAAAA  
 GGGTTGGAGTTCGTCTGCCCTTATGACCTCTGGAAGAAGGTGCCTTGGTTCTCTATGAGCCTCCCC  
 ACTCAGC GCCATGACCAACTGAAGCTTGACAAGGAAAACTCCCTGTTATGTGGTTGTTGATCCTATT  
 CTCAGTAAGGTATTGCGGCTCATCAGAGAGAGGAGTGAAGTTCCTATGGGAGTGTGTCACCAGTCGTC  
 GAATTCCTGGAAGCCATGGCTGCATCATGGCTGATGAGATGGGCTGGGGAAGACTGCAGTGCATCAC  
 ATTGATGTGGACTTTTACGCCAGAGCCAGAATGCAAGCCAGAAATCGAGAAGGCAGTGGTGGTGCA  
 CCTTCTAGCCTGGTGAAGAACTGGTACAATGAGGTTGAGAAATGGCTGGAGGGAGGATTCAACCTCTGG  
 CCATCGATGGAGGCTCGAAGGACGAGATAGACCGAAAACCTGGAAGGATTCATGAACCAGCGTGGAGCTAG  
 AGTGCCTCCCCCATCCTCATATTTCTATGAGACTTCCGCTGCATGTTGGAGTCTTAAAAAAGGA  
 AATGTTGGACTGGTCAATGTGACGAGGGCCACAGGCTAAAGAACTCTGAGAATCAGACTTACCAGGCTC  
 TGGACAGCTTGAATACCAGCCGGGGTCTAATCTCCGGGACCCCATCCAAAATGATTTGCTGGAGTA  
 TTTGAGCTTGGTGCATTTGTAATTCTGGCATTGTTGGAACTGCCATGAATCAAGAAGCATTGTTGAG  
 TTGCCAATTTGAAAGAGTCGAGATGCAGCTGCCAGTGAGGCAGACAGGCAGCGTGGGAGGAGCGTCTGC  
 GGGAGCTCATCGGTATTGTGAACAGGTGCCTGATACGGAGAACATCTGATATCCTCTCTAAGTATCTGCC  
 CGTGAAGATTGAGCAGGTGGTTTGTGTAGGCTGACACCCCTTCAAAGTGCATACAAGAGATTTCTG  
 AGACAGGCTAAGCCTGAAGAAGAATTGCGTGAGGGCAAGATGAGTGTCTTCCCTGTCTCTATCACCT  
 CTCTAAAGAAGCTGTGTAATCATCCAGCTCTAATCTATGACAAGTGTGGCAGAGGAGGATGGCTTTGA  
 GGGCACTTTGGGTATCTTCCACCTGGTTATAACTCTAAAGCTGTAGAGCCACAGTTGTCAGGTAAGATG  
 CTGGTCCCTTGATTACATTCTGGCCGTGACTCGAAGCCGTAGCAGTGACAAAGTCGTGCTGGTGTCTAATT  
 ATACTCAGACATTGGATCTCTTTGAAAAGCTGTGCCGGGTTTCAAGGTAATTGTATGTTCCGCTGGATGG  
 CACGATGTCCATTAAGAAGCGAGCCAAGGTTGTGGAGCGCTTCAATAGCCCATCGAGCCCTGATTTTGT  
 TTCATGCTGAGCAGCAAAGCTGGGGGCTGGTCTTAACTCATTGGTGCACCCGACTGGTGCATGTTTG  
 ATCCTGACTGGAATCCAGCCAATGATGAACAAGCTATGGCCCGAGTCTGGCGTATGGTCAAAAAGAAGAT  
 CTGCTATATCTACCGACTGCTATCTGCAGGAACAATTGAGGAGAAGATCTTTCAGCGGCAGAGCCACAAG  
 AAGGCTCTGAGCAGCTGTGTGGTGGACGAGGAGCAGGATGTGGAGCGCCACTTTTCTTGGTGAGCTTA  
 AAGAGCTGTTTACTCTGGATGAAGCAAGCCTCAGTGACACACATGACAGATTGCATTGCCGCCGTTGTGT  
 AAACAACCGTCAGGCTCTGGCCACCCCTGATGGTTCTGACTGCACTTTCAGACCTGGCTCAGTGGAACCC  
 AGCACAGATAAACGAGGCTCCAGGATGAGGTAAGGACTCCAGGCTGCCTGGGATGCTTCTACAGCCATCA  
 CCTTCTGCTTCCACCAGGCTTCTCATGAGGAGCAGCGGGTCTTCACTGATAATCAGCTGGTCTGGATG  
 AGTTGTTTGGGAAAGGATACAGGAAAGGGGTTCTCTGCCTCATGAGGCTCTGCTCAGTTTTATTCTCT  
 GGGAGAAAATCATCAAGAAGGCTGCATGATGTTGCCAAAATTTATTTTATAAGAAAACCTTTTTTGG  
 TTTAAAAAAAAAAAAAAAAAAAAAAG

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_009015  
**Insert Size:** 2244 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC021643</a> , <a href="#">AAH21643</a>
<b>RefSeq Size:</b>	3036 bp
<b>RefSeq ORF:</b>	2244 bp
<b>Locus ID:</b>	19366
<b>UniProt ID:</b>	<a href="#">P70270</a>
<b>Cytogenetics:</b>	4 D1
<b>Gene Summary:</b>	<p>Involved in DNA repair and mitotic recombination. Functions in the recombinational DNA repair (RAD52) pathway. Dissociates RAD51 from nucleoprotein filaments formed on dsDNA. Could be involved in the turnover of RAD51 protein-dsDNA filaments (By similarity). Deficient mice also show significantly shorter telomeres than wild-type controls, indicating that the protein activity plays an essential role in telomere length maintenance in mammals. Deficiency also resulted in an increased frequency of end-to-end chromosome fusions involving telomeres compared to the controls, suggesting a putative role in telomere capping. Non-homologous end joining (NHEJ) and homologous recombination (HR) represent the two major pathways of DNA double-strand break (DSB) repair in eukaryotic cells. LIG4 and RAD54L cooperate to support cellular proliferation, repair spontaneous DSBs, and prevent chromosome and single chromatid aberrations.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) and variants 2 and 3 encode the same protein.</p>