

## Product datasheet for **MC202734**

### Rad17 (NM\_011233) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad17 (NM_011233) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rad17
Synonyms:	MmRad24
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC066855 sequence for NM\_011233  
 GGCCCTCCAACAGCCTGCGGCTGAGCCGGGAGGGCTGGGTGGCGAAGTACAGCCCCGGTTCTCCGCTTTT  
 TTCCGCCCGCGAGGGGACGCAGCTCCCGGAAAAGTAAGGACGCCGCGGCTTTCGCTTGATTATTAATATC  
 CCAGAGGCGTGAGGTGAGTGTCTTACGCATACCTGGGCTGTGTCTTCCGGCCCCGCCCTCCAGTC  
 TGGACTGGTGTAGGATGTAGGTGAATTACTTCAACATACTCTAAATTGTATGCTACTGATGGAACTG  
 TTAAGTTTATAATGTCAGAAACTTTCCTTAGACCAAAGGTGTCTCCACAAAGGTGACAGACTGGGTAG  
 CTCCAGCCTTTGATGACTTTGAGGCCAACACCGCCATCACCACCATCACTGCGTCACTTTAACTTTCAG  
 TAACTCCAGTCACAGAAGAAAATATTTGCCCTCCACATTAGAAAAGTAACAGATTGTCGGCTAGAAAAAGA  
 GGAAGGCTCTCTTTAGAACAGACTCATGGTCTAGAAACTCAAGAGAGCGTCTGTCCAACATGAGCCGT  
 GGGTGGATAAATAAACCAGAACTCAGCATGAACCTGCTGTTCAAAAAAGAAAATTGAAGAGGTGCA  
 AACCTGGTAAAAGCTCAAGTCTTAGAAGTGAAGCCAAAACAGGGTGGGTCTGTTTTATTAACAGGT  
 CCTCCAGGATGTGAAAGACGACTACTATAAAAACTGTCAAAGGAACCTGGGATCCAAGTACAAGAA  
 TGGGTTAATCCTATTTTACCAGACTTCCAAAAAGATGATTACAAGGAGTTACTTAGTTTAGAATCAA  
 ACTTCTCTGTAGTTCCATACCAATCTCAGATAGCAGTCTTCAATGACTTCTATTAAGAGCCACCAAGTACAGC  
 AAAGTGCAGATGCTTGGAGACGTTCTGACAACGATAAGAAGATCATTCTGGTGGAAAGATTACCTAAC  
 AGTTTTATCGAGACCCTAACGCTTACATGAGATTCTAAGAAAAGCATGTGCAGATTGGCCCGTGTCTCT  
 TGTATTTATAGTCTCTGACAGTGTGAGGAGACAATAATCAGCGGCTACTCTTCCCCAGAACATTC  
 CAAGAGTGTCTGTTTCAACATTAGTTTCAACCTGTGGCACCACAAATATGATGAAATTTCTTAATC  
 GAATTGTGACTATAGAAGCTAGTAAGAATGGAGAAAAAATTATTGTTCTAATAAAACTTCTCTGGAGTT  
 GCTCTGTCAAGGATGTTCTGGTGATATCAGAAGTGAATAAACAGCCTGCAGTCTCGTCTTCAAAAGGA  
 GAGAACAGTTCGTGGTCAAAGAAGAAAAGAAATGTCATTGAAATCGGATGCTGCCATATCAAAATCAA  
 AACAAAAAGAAACATAATAGTACTTTGGAAAATCAAGAGATTCAAGCTATTGGTGGAAAAGATGTTTCTCT  
 TTTTCTTCAAAGCTTTGGGGAAGATTCTGTACTGTAAGAGAGCGCCTTAAACAGAGTTAGACTCACCT  
 CGCCTGCCTGCTCACTTGTGAGAGCAGCAGCGGACACTTTACTTGTTCAGCCTGAGGAAATAGTAAAA  
 TGTACACATGTGAGGAGACTTTTTTAATTTATACCTTACCAAAAACATAGATTTTCTCGTGAAGT  
 AGATGATCTTGTGCCAGCCAGTGAAGTTTCTGAGTTTTCAGATATCCTCGGTGGTGAATACACGC  
 TCGTTACTCAGGGAATATAGTACATCCGTAGTACAAGAGGTGTGATGCATTCCAACAAAGCCCGGGGT  
 TCGCTCACTGCCAAGGAGGATCAAGCTTTCGACCCTTACATAAGCCCCAGTGGTTTCTAATACAGAAAA  
 GTATCGGAAAAATTGCCTGGCAGCAAAAGCACTCTTGTGACTTCTGCCTACCAGCTTTGTGTCTCCAG  
 ACTCAGCTCTTGCATATCTTGTCTTCTGACCATTCCAATGCGAAATAAAGCTCAGATTTCTTTTATCC  
 AAGATGTTGGAAGACTTCTTTGAGCGAAGCTTTGGAAGTTGAAAATGGAAGCCCTGACTGACCAGAG  
 GCTGGGGCTGATAGACCCTGACAGTGGGATGAGTCCCCGCACAGCGGAGGGCAGCCGGCTCAGGAAGCT  
 CCCGGTGAACCCGCGCAGGCTGCTCAGAATGCCGACCCAGAGACCTGGTCCCTTCCGCTGAGTCAGAACA  
 GCGGGAGCGATCTGCCTGCCAGCCAGCCTCAGCCCTTTTCTCCAAGTGGACATGGAAGAAGAGGAGGA  
 GGAAGAGGAAGACATAATAATAGAGGACTATGACAGCGAGGAGACATAGAGAACAGCCTGCCAATCAGGT  
 TGCTCCTTGAGAGATAAATTTTAGTCTATTGAGTGGTACTTGAACACGTCTCTGAAGGACAAGCAATTTG  
 TTAATTGCTCAGTTCCTTATCGTATTCGTACAGCAACTGACGACTGTCTTGAAGTAAAGCAGGTCT  
 CAAGTACTCAGTGCTTAGTATTTATTTAGTCTTGTGAATGGTTTGAAGGAGAGTACGGTGTGAAGTGA  
 TGAAATGTTGACTAAATATCAAAATGTGAAGGAGTAATCCAGAATATACGGACTTTATGGGGTGTGGAA  
 ATTTGATTTATAAAACAGTTTAGGATGCAATTATGAGTATAAATAAACCTTGTGCCTTACTTACAGTTT  
 CATCTAGCTTTTTCGATACCATTTTTGGTATGTTGTACAGTGGAATATTTTAGATACTTCTGAAAGTAT  
 TTACATAATTTATCAAAATTAACGTTGGATTTCAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_011233  
**Insert Size:** 2067 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="#">BC066855</a> , <a href="#">AAH66855</a>
<b>RefSeq Size:</b>	2853 bp
<b>RefSeq ORF:</b>	2067 bp
<b>Locus ID:</b>	19356
<b>UniProt ID:</b>	<a href="#">Q6NXW6</a>
<b>Cytogenetics:</b>	13 D1
<b>Gene Summary:</b>	<p>Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Has a weak ATPase activity required for binding to chromatin. Participates in the recruitment of the RAD1-RAD9-HUS1 complex and RHNO1 onto chromatin, and in CHEK1 activation. May also serve as a sensor of DNA replication progression, and may be involved in homologous recombination (By similarity). Essential for embryonic development. May be involved in homologous recombination. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform.</p>