

## Product datasheet for **MC206699**

### Rad9 (BC082556) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad9 (BC082556) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rad9
Synonyms:	Rad9
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC082556  
 AAGCTCGATTTTTGTGCTTATGTACTATGAAGTGCCTGATCACCGGGGGCAACGTGAAGGTGCTGGGCAA  
 GGCTGTCCATTTCGCTATCCCGAATCGGGGACGAGCTCTATCTGGAACCCCTGAAGGACGGGCTCTCCCTA  
 CGGACTGTGAACCTCGTCCCGTTCTGCCTATGCCTGCTTCTTTTTGCCCACTCTTCTCCAGCAGTACC  
 AGGCGGCTTCCCCTGGTCAAGGACCTGCTGCGCTGAAGATCCTGATGAAGGCCTTCTGTCCGTCTCCG  
 CTCTCTGGCAATTGTGGAGAAGTCTGTGGAGAAGTGTGTATCTCCCTCAGTGGCAGCCACAGCCACCTG  
 TGAGCTCCAGTCCACTGCAAGTATGGGGTCAAGAAGACACACAACCTCTCCTTCCAGGACTGTGAGTCCC  
 TGCAGGCTGTCTTCGACCCAGCCTCATGCCCTCACTTATTGCGCACCCACAGCACGGGTTCTGGCAGAGGC  
 TGTCTGTCTTTCCCTTGCATTGACTGAGGTGACACTGGGCATTGGCCGTGGCCGGGGTCACTCCTG  
 CGCAGCTACCAGGAAGAGGAGGCAGACAGCACCAGCAAAGCCATGGTGACTGAGACCAGCATTGGGGATG  
 AGGACTTCCAGCAGCTGCATGCCCCAGAAGGGATAGCTGTACCTTCTGCCTCAAGGAATTCGGGGGCT  
 CCTGAGCTTTCAGAGTCAAGCAATTTGCCTTACTATCCACTTCGATGTTCCAGGCAGGCCAGTCATC  
 TTTACTATTGAGGATTCCTTGTGGATGCCCACTTTGTCTTGGCCACACTTTAGAGCAAGACTCATGTT  
 CCCAGGGCCCGTGTCCCAAACCCACCAGCCAGTGCCTCAGAAGCAGGCACACAGCACACCCCACTT  
 AGATGACTTTACCAGTGTGACATTGACTGTTACATGATTGCCATGGAAACCACTGGAGGCAATGAGGGC  
 TCCGGGGCACAGCCTTCCACATCCCTCCCACTGTCTCCCTGGCCTCCCATGACCTTGGCCCCACCTCAG  
 AGGAGGAAGCTGAGCCCACTACAGTGCCTGGGACTCCCCACCCAAGAAGTTTCGTTCACTGTTCTTTGG  
 CTCCATCTGGCCCTGTACACTCCCCGCAAGGTCCCAACCTGTGCTGGCTGAAGACAGTATGGTGAA  
 GGGTGAATTTGAGAAATTAAGTCTGTGTTCAAAGGCTCACGGACCAGAAGCAGGCCCGCCCACTGAGTT  
 GGGCGTCAGTCTTAGACATGGACATGGAAATGGAAAAAGGCATACCCCACTTGGCTGTCTGTGTCAGAG  
 CTGCCTAGGAACCATGTTTGGTCTGTGTTCTGTATTTATTCAGCCTATACCAATCATGTCTCTGGTGCC  
 ACCTGTACCTGACAGATCCCTCATCTTACTTTGAGGCTCTAGAATACAAATTCTGGCCAAAGCCAGA  
 AACTTAGCTTCCCTCAGTCTCCTGCCTCTAAAACAGGAAGATCAGTATTGAACACCTCTGCCAATCATGA  
 ACTCCCCGCCAGACCCTCCTGTGGGCCAAAGGAAGTGTCTCTTCTAACACTTGGGCCTTGGCCTAG  
 AATCCTAATAGCCTCTGGACCTGATTGTGTGCTACTGGTGTGGCCTGGCTGGGCCCATGTTTCAGCCACT  
 CAGTCTGCCCTCCAGGTGGCTTTGTACAAAGAAGTGTGGCCCACTGTCTGGGACGGGACAAGAGAGA  
 CAGAGGCTATGGTGAGAAATCCAGCTTTGACCTTTATTCAAGAGACCAGATGGGTTGCCCAAGGATCTGGC  
 TGCCAGCCATGCAAGGCTGGAGACCCACAATCTGGTCTGCCATTGCCCTGAGCTGCAGCCTTGGCCCAAG  
 GATTCCACTTGCAGCCACCACAGGTGCTGGTGGGAGGGAGCCCTGGGAGATTAGATGCTGCTATTGATTC  
 TTTAAAAAATAAAGGAAAGACACTTAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI

**ACCN:** BC082556

**Insert Size:** 1170 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:**

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: [BC082556](#), [AAH82556](#)

RefSeq Size: 2006 bp

RefSeq ORF: 1170 bp

Locus ID: 19367

Cytogenetics: 19 A

**Gene Summary:** Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. The 9-1-1 complex is necessary for the recruitment of RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. RAD9A possesses 3'->5' double stranded DNA exonuclease activity (By similarity).[UniProtKB/Swiss-Prot Function]