

## Product datasheet for **MR221590**

### Rad18 (NM\_021385) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad18 (NM_021385) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rad18
Synonyms:	2810024C04Rik; Rad18sc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221590 representing NM\_021385  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTCTGGCCGAGCCGCGATGGCCTCCGGGTTGGCGGTGATGAAGACAATAGATGACTTGTCTG  
 GCTGTGGGATTTGCTTTGAGTATTTCAACATTGCAGTGATAATCCCCAGTGCTCTCACAACTATTGTTT  
 ACTCTGTATAAGAAAGTTTTTATCCTATAAAAAGCTCAGTGCCCACTTGTTCGCTGGCAGTAACGGAGCCA  
 GACCTGAGAAAATAATCGCCTCTTAGATGAACTGGTAAAAAGCATGAATTTGCACGGACTCACCTGTTGC  
 AGTTTGTCTTAGAGTACCACCCATATCTCCTGTGTCTCCACCTCAAAGAAGGTTGTTGTTAAAGTGCA  
 TAATGCTGACGCCGCCAACACCCTGTCAAACAGGCGAACAGGTTAATGGATAAGTTCCTGATTAGAGAA  
 ACTGGTGACTGTGATTTGAGTTGTTGGGAAAAGAAAATGAGAGGAAATTCAGCCCTCAAAAAGAGCTAA  
 GCACCTCTGCTGAGATTAAGAGACAAGTCTCCTAGGAAAGCCGGTACTGGGGCTCTCGGATGCTAATGG  
 TCCTGTGACTCCCTCTACATCCACTATGAACTGGATACTAAAGTGTCTTGTCTGTTTGTGGGGTCAAGC  
 ATTCAGAAAATCATATCAATAAGCATTAGACAGTTGTTTATCAGTGAAGAGAAGAAGGAGAGCCTGC  
 GAAGTTCTGCTCACAAAAGGAAGCCGTTGCCCAAACTGTATATAACTTGCTCTCTGATCGTGATTTAAA  
 GAAAAAGCTGAAACAGTATGGCTTATCTGTTCAAGGAAACAAACAGCAGCTTATTTAAAGGCATCAGGAG  
 TTTGTGCACATGTATAATGCCAGTGGCATGCTTTGCATCCTAAATCAGCTGCTGAAATCGTCCAAGAAA  
 TTGAAAGCATGGAGAAGACCAGGATGCGCCTTGAAGCAAGTAACTCAATGAAAAATGTCATGGTTTTTAC  
 AAAGAACCAACAGAGAAGGAAATGAGGAAGTTCACAGTGAATATCGTAAAAAGCACCAGAATGCATTC  
 CAGCTTCTGGTGGATCAGGCCAAAAAGGTTAAGAAAAGTGGCAGAGTTTACAAGCTGCAGCGATGA  
 GAACAGTGAACCTGCAGAGACTGCCGTCGATGAGAACAGATGAACCTGCAGAGACTGCCGTCGAT  
 GAGAACAGATGAACCTGCAGAGACTGCCGTTGATGAGAGCAGATGAACCTGCAGAAAACACTGCCGCTC  
 GAGTGTATCGCACAGAAGATAATGTGAGCTTCTCAGATACTGTCTCAGTAAACAAACACTTTTCTCAGC  
 CCCAGCTGGACTCGCCAGGCCGTCGGAGCCTGAGAGGCCGGATGATTCTTCTAGTTGACTGATATTCT  
 TTTCTCTCGGACTCAGACTCATGCAATAGAAATGATCAAAAAGAGAGTCAAGCCACAACAGACTCGC  
 CGCACTAGAGCCAGTGAATGTGTTGAGATTGAACCAAGAAACAAGCGGAATAAGAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221590 representing NM\_021385  
 Red=Cloning site Green=Tags(s)

MEVLAEPWPPLAVMKTIDDLRCGICFEYFNIAVVIIPQCSHNYCSLCIRKFLSYKTCPTCCVAVTEP  
 DLRNNRLLDELVKSMNFARTHLLQFALESPPISPVSSSTSKKVVVKVHNADAAQHPVKANRLMDKFLIRE  
 TGDCVFELLGKENERKFSPOKELSTSAEIKETSLGKPVLLGLSDANGPVPSTSTMKLDTKVSCPVCVGS  
 IPENHINKHLDLSLSREEKESLRSSAHRKPLPKTVYNLLSDRDLKKKLKQYGLSVQGNKQQLIKRHQE  
 FVHMYNAQCDALHPKSAAEIVQEIEMKTRMRLEASKLNENVMVFTKNQTEKEIEEVHSEYRKKHQNAF  
 QLLVDQAKKGYKKTGRVSQAAAMRTDEPAETLPSMRTDEPAETLPSMRTDEPAETLPLMRADEPAETLPS  
 ECIAQEDNVFSDTVSVTNHFPQQLDSPGPSEPERPDDSSSCTDILFSSDSDSCNRNDQNVSPQQR  
 RTRASECVEIEPRNKRKN

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_021385

**ORF Size:** 1527 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\\_021385.2](#), [NP\\_067360.2](#)

**RefSeq Size:** 2560 bp

**RefSeq ORF:** 1530 bp

**Locus ID:** 58186

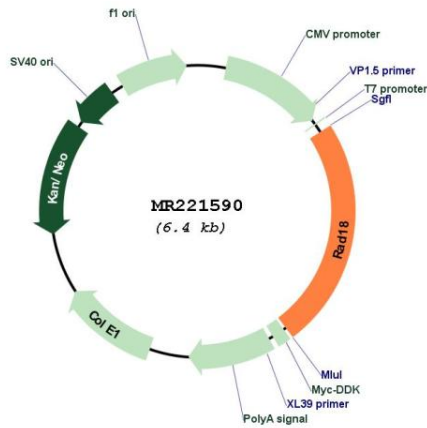
**UniProt ID:** [Q9QXK2](#)

**Cytogenetics:** 6 E3

**MW:** 57.9 kDa

**Gene Summary:** E3 ubiquitin-protein ligase involved in postreplication repair of UV-damaged DNA. Postreplication repair functions in gap-filling of a daughter strand on replication of damaged DNA. Associates to the E2 ubiquitin conjugating enzyme UBE2B to form the UBE2B-RAD18 ubiquitin ligase complex involved in mono-ubiquitination of DNA-associated PCNA on 'Lys-164'. Has ssDNA binding activity.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221590