

Product datasheet for **MR222214**

Rad18 (NM_001167730) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad18 (NM_001167730) 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:

>MR222214 representing NM_001167730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTCTGGCCGAGCCGCGATGGCCTCCGGGTTGGCGGTGATGAAGACAATAGATGACTTGCTGC
 GCTGTGGGATTTGCTTTGAGTATTTCAACATTGCAGTGATAATCCCCAGTGCTCTCACAACTATTGTTT
 ACTCTGTATAAGAAAGTTTTTATCCTATAAAAAGTCAAGTGCCTCACTTGTTCGCTGGCAGTAAACGGAGCCA
 GACCTGAGAAAATAATCGCCTCTTAGATGAACTGGTAAAAAGCATGAATTTGCACGGACTCACCTGTTGC
 AGTTTGTCTTAGAGTACCACCCATATCTCCTGTGTCTCCACCTCAAAGAAGGTTGTTGTTAAAGTGCA
 TAATGCTGACGCCGCCAACACCCTGTCAAACAGGCGAACAGGTTAATGGATAAGTTCCTGATTAGAGAA
 ACTGGTGACTGTGATTTGAGTTGTTGGGAAAAGAAAATGAGAGGAAATTCAGCCCTCAAAAAGAGCTAA
 GCACCTCTGCTGAGATTAAGAGACAAGTCTCCTAGGAAAGCCGGTACTGGGGCTCTCGGATGCTAATGG
 TCCTGTGACTCCCTCTACATCCACTATGAACTGGATACTAAAGTGTCTTGTCTGTTTGTGGGGTCAAGC
 ATTCCAGAAAATCATATCAATAAGCATTAGACAGTTGTTTATCACGTGAAGAGAAGAAGGAGAGCCTGC
 GAAGTTCTGCTCACAAAAGGAAGCCGTTGCCAAAAGTATATAACTTGCTCTCTGATCGTGATTTAAA
 GAAAAAGCTGAAACAGTATGGCTTATCTGTTCAAGGAAACAAACAGCAGCTTATTTAAAGGCATCAGGAG
 TTTGTGCACATGTATAATGCCAGTGGCATGCTTTGCATCCTAAATCAGCTGCTGAAATCGTCCAAGAAA
 TTGAAAGCATGGAGAAGACCAGGATGCGCCTTGAAGCAAGTAACTCAATGAAAATGTCATGGTTTTTAC
 AAAGAACCAACAGAGAAGGAAATTGAGGAAGTTCACAGTGAATATCATGCTGGCAAACAGGTAGCACAG
 GGCTGTGTGAGCGAAAACAAGATGAGAAGCACCATAGTCTGCTGGCAGTTATCAGGTAAGAAAGCACCAGA
 ATGCATTCCAGCTTCTGGTGGATCAGGCCAAAAGGGTATAAGAAAAGTGCAGAGTTTCAAGAGCTGC
 AGCGATGAGAACAGATGAACCTGCAGAGACACTGCCGTCGATGAGAACAGATGAACCTGCAGAGACTG
 CCGTCGATGAGAACAGATGAACCTGCAGAGACTGCCGTTGATGAGAGCAGATGAACCTGCAGAAAACAC
 TGCCGCTGAGTGTATCGCACAGAAGATAATGTGAGCTTCTCAGATACTGTCTCAGTAACAAACCACTT
 TCCTCAGCCCCAGCTGGACTCGCCAGGCCCGTCCGAGCCTGAGAGGCCGGATGATTTCTTCTAGTTGACT
 GATATTCTTTTCTCCTCGGACTCAGACTCATGCAATAGTCCAGTTCAGACATCATAAGAGATCTTCTGG
 AAGAAGAGGAAGCCTGGGAAGCGCTCACAAAATGATCAAACAGAGAAGTCAGCCACAACAGACTCG
 CCGCACTAGAGCCAGTGAATGTGTTGAGATTGAACCAAGAAAACAAGCGGAATAAGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222214 representing NM_001167730
 Red=Cloning site Green=Tags(s)

MEVLAEPWPPLAVMKTIDDLRCGICFEYFNIAVIIIPQCSHNYCSLCIRKFLSYKTQCPTCCVAVTEP
 DLRNRRLLDELVKSMNFARTHLLQFALESPPISPVSSSTSKKVVKVHNADAAQHPVKQANRLMDKFLIRE
 TGDCVFEELGKENERKFSQKELSTSAEIKETSLLGKPVLLGLSDANGPVPSTSTMKLDTKVSCPVCVGS
 IPENHINKHLDSCLSREEKESLRSSAHRKPLPKTVYNLLSDRDLKKLQYGLSVQGNKQQLIKRQHE
 FVHMYNAQCDALHPKSAAEIVQEIESMEKTRMRLEASKLNENVMVFTKNQTEKEIEEVHSEYHAGKQVAQ
 GCVSENKMRSTIVCWQLSGKKHQAFQLLVDQAKKGYKKTGRVVSQAAAMRTDEPAETLPSMRTDEPAETL
 PSMRTDEPAETLPLMRADEPAETLPSECI AQEDNVSFSDTVSVTNHFPQPQLDSPGPSEPERPDDSSSCT
 DILFSSDSDSCNSSSSDIIRDLLLEEEEAWEAAHKNDQNREVSPQTRRTRASECVEIEPRNKRNKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001167730

ORF Size: 1668 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_001167730.1](#), [NP_001161202.1](#)

RefSeq Size: 2701 bp

RefSeq ORF: 1671 bp

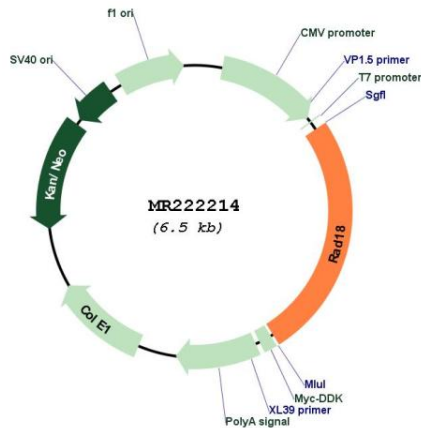
Locus ID: 58186

Cytogenetics: 6 E3

MW: 62.9 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 MR222214