

## Product datasheet for **MC218972**

### Rad18 (NM\_001167730) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad18 (NM_001167730) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rad18
Synonyms:	2810024C04Rik; Rad18sc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218972 representing NM\_001167730  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGTCTGGCCGAGCCGCGATGGCCTCCGGGTTGGCGGTGATGAAGACAATAGATGACTTGCTGC  
 GCTGTGGGATTTGCTTTGAGTATTTCAACATTGCAGTGATAATCCCCAGTGCTCTCACAACATTGTTT  
 ACTCTGTATAAGAAAGTTTTTATCCTATAAAAACAGTGCCCAACTTGTTCGCTGGCAGTAACGGAGCCA  
 GACCTGAGAAATAATCGCCTCTTAGATGAACTGGTAAAAAGCATGAATTTGCACGGACTCACCTGTTGC  
 AGTTTGTCTTAGAGTACCACCCATATCTCCTGTGTCTCCACCTCAAAGAAGGTTGTTGTTAAAGTGCA  
 TAATGCTGACGCCGCCAACACCCTGTCAAACAGGCGAACAGGTTAATGGATAAGTTCCTGATTAGAGAA  
 ACTGGTGACTGTGATTTGAGTTGTTGGGAAAAGAAAATGAGAGGAAATTCAGCCCTCAAAAAGAGCTAA  
 GCACCTCTGCTGAGATTAAGAGACAAGTCTCCTAGGAAAGCCGGTACTGGGGCTCTCGGATGCTAATGG  
 TCCTGTGACTCCCTCTACATCCACTATGAACTGGATACTAAAGTGTCTTGTCTGTTTGTGGGGTCAAG  
 ATTCAGAAAATCATATCAATAAGCATTAGACAGTTGTTTATCACGTGAAGAGAAGAAGGAGAGCCTGC  
 GAAGTTCTGCTCACAAAAGGAAGCCGTTGCCCAAAACTGTATATAACTTGCTCTCTGATCGTATTTAAA  
 GAAAAAGCTGAAACAGTATGGCTTATCTGTTCAAGGAAACAAACAGCAGCTTATTTAAAGGCATCAGGAG  
 TTTGTGCACATGTATAATGCCAGTGGCATGCTTTGCATCCTAAATCAGCTGCTGAAATCGTCCAAGAAA  
 TTGAAAGCATGGAGAAGACCAGGATGCGCCTTGAAGCAAGTAACTCAATGAAAAATGTCATGGTTTTTAC  
 AAAGAACCAACAGAGAAGGAAATTGAGGAAGTTCACAGTGAATATCATGCTGGCAAACAGGTAGCACAG  
 GGCTGTGTGAGCGAAAACAAGATGAGAAGCACCATAGTCTGCTGGCAGTTATCAGGTAAGAAAGCACCAGA  
 ATGCATTCCAGCTTCTGGTGGATCAGGCCAAAAAAGGGTATAAGAAAACAGGAGGTTTCAAGAGCTGC  
 AGCGATGAGAACAGATGAACCTGCAGAGACTGCGGTCGATGAGAACAGATGAACCTGCAGAGACTG  
 CCGTCGATGAGAACAGATGAACCTGCAGAGACTGCGGTTGATGAGAGCAGATGAACCTGCAGAAAAC  
 TGCCGCTGAGTGTATCGCACAAGAAGATAATGTGAGCTTCTCAGATACTGTCTCAGTAACAAACACTT  
 TCCTCAGCCCCAGCTGGACTCGCCAGGCCCGTCCGAGCCTGAGAGGCCGGATGATTTCTTCTAGTTGACT  
 GATATTCTTTTCTCCTCGGACTCAGACTCATGCAATAGTCCAGTTCAGACATCATAAGAGATCTTCTGG  
 AAGAAGAGGAAGCCTGGGAAGCGGCTCACAAAAATGATCAAACAGAGAAGTCAGCCACAACAGACTCG  
 CCGCACTAGAGCCAGTGAATGTGTTGAGATTGAACCAAGAAAACAAGCGGAATAAGAA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001167730

**Insert Size:** 1671 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).

<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>	<u><a href="#">NM_001167730.1</a></u> , <u><a href="#">NP_001161202.1</a></u>
<b>RefSeq Size:</b>	2701 bp
<b>RefSeq ORF:</b>	1671 bp
<b>Locus ID:</b>	58186
<b>Cytogenetics:</b>	6 E3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>