

## Product datasheet for **MC218342**

### Rad18 (BC011120) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad18 (BC011120) 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
Fully Sequenced ORF:	>BC011120 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGGTCTGGCCGAGCCGCGATGGCTCCGGGTTGGCGTAATGAAGACAATAGATGACTTGCTGC  
GCTGTGGGATTTGTTTTGAGTATTTCAACATTGCAGTGATAATCCCCAGTGCTCTACAACATTGTTC  
ACTCTGTATAAGAAAGTTTTATCCTATAAACTCAGTGCCCACTTGTTCGCGTGGCAGTAACGGAGCCA  
GACCTGAGAAATAATCGCCTTTAGATGAACTGGTAAAAAGCATGAATTTGCACGGACTCACCTGTTGC  
AGTTTGCTTTAGAGTCACCACCCATATCTCCTGTGTCTTCCACCTCAAAGAAGGTTGTTGTTAAAGTGCA  
TAATGCTGACGCCGCCAACACCCTGTCAAACAGGGGAACAGGTTAATGGATAAGTTCCTGATTAGAGAA  
ACTGGTACTGTGATTTGAGTTGTTGGGAAAAGAAAAAGAGAGAAATTCAGCCCTCAAAAAGAGCTAA  
GCACCTCTGCTGAGATTAAGAGACAAGTCTCCTAGGAAAGCCGGTACTGGGTCTCTCAGATGCTAATGG  
TCCTGTGACTCCCTCTACATCCACTATGAACTGGATACTAAAGTGTCTTGTCTGTTTGTGGGGTCAGC  
AAGTTCTGCTCACAAAAGGAAGCCGTTGCCAAAAGTATATAACTTGCTCTGATCGTGATTTAAA  
GAAAAAGCTGAAACAGTATGGCTTATCTGTTCAAGGAAACAAACAGCAGCTTATTAAGGATCAGGAA  
TTTGTGCACATGTATAATGCCAGTGCATGCTTTGCATCCTAAATCAGGTCATGGTTTTACAAAGAAC  
CAAACAGAGAAGGAAATTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	BC011120
Insert Size:	930 bp



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<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>	<u><a href="#">BC011120</a></u> , <u><a href="#">AAH11120</a></u>
<b>RefSeq Size:</b>	1482 bp
<b>RefSeq ORF:</b>	929 bp
<b>Locus ID:</b>	58186
<b>Cytogenetics:</b>	6 E3
<b>Gene Summary:</b>	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]