

Product datasheet for **MG204378**

Rad18 (BC011120) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Rad18 (BC011120) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Rad18 |
| Synonyms: | 2810024C04Rik; Rad18sc |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204378 representing BC011120 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTCCTGGCCGAGCCGCGATGGCCTCCGGGGTTGGCGGTAATGAAGACAATAGATGACTTGCTGC
GCTGTGGGATTTGTTTTGAGTATTTCAACATTGCAGTGATAATCCCCAGTGCTCTCACAACATTGTTCC
ACTCTGTATAAGAAAGTTTTTATCCTATAAACTCAGTGCCCACTTGTGCGTGGCAGTAACGGAGCCA
GACCTGAGAAATAATCGCCTCTTAGATGAAGTAAAGCATGAATTTGCACGGACTCACCTGTTGC
AGTTTGTCTTAGAGTACCACCCATATCTCCTGTGTCTTCCACCTCAAAGAAGGTTGTTGTTAAAGTGCA
TAATGCTGACGCCGCCAACACCCTGTCAAACAGGGGAACAGGTTAATGGATAAGTTCCTGATTAGAGAA
ACTGGTACTGTGATTTGAGTTGTTGGGAAAAGAAAATGAGAGGAAATTCAGCCCTCAAAAAGAGCTAA
GCACCTCTGCTGAGATTAAGAGACAAGTCTCCTAGGAAAGCCGGTACTGGGTCTCTCAGATGCTAATGG
TCCTGTGACTCCCTCTACATCCACTATGAACTGGATACTAAAGTGTCTTGTCTGTTTGTGGGGTCAGC
ATTCCAGAAAATCATATCAATAAGCATTAGACAGTTGTCTATCACGTGAAGAGAAGAAGGAGAGCCTGC
GAAGTTCTGCTCACAAAAGGAAGCCGTTGCCAAAACACTGTATATAACTTGCTCTCTGATCGTGATTTAAA
GAAAAGCTGAAACAGTATGGCTTATCTGTTCAAGGAAACAAACAGCAGCTTATTTAAAGGCATCAGGAA
TTTGTGCACATGTATAATGCCAGTGGCATGCTTTGCATCCTAAATCAGGTCATGGTTTTTACAAAGAAC
CAAACAGAGAAGGAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204378 representing BC011120
 Red=Cloning site Green=Tags(s)

```
MEVLAEPWPGLAVMKTIDDLRCGICFEYFNIAVIIIPQCSHNYCSLCIRKFLSYKTQCPTCCVAVTEP
DLRNNRLLDELVKSMNFARTHLLQFALESPPISPVSSSTSKKVVVKVHNADAAQHPVKQGNRLMDKFLIRE
TGDCVFEKLLGKENERKFSPOKELSTSAEIKETSLGKPVLLGLSDANGPVPSTSTMKLDTKVSCPVCVGS
IPENHINKHLDSCLSREEKESLRSSAHRKPLPKTVYNLLSDRDLKKKLKQYGLSVQGNKQQLIKRHQE
FVHMYNAQC DALHPKSGHGFYKEPNREGN
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC011120

ORF Size: 927 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: [BC011120.1](#)

RefSeq Size: 1482 bp

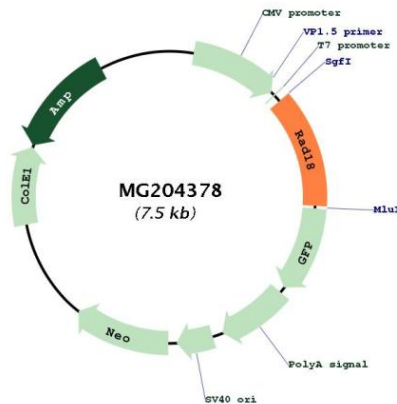
RefSeq ORF: 929 bp

Locus ID: 58186

Cytogenetics: 6 E3

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 MG204378