

Product datasheet for MC206655

Rad1 (BC048693) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rad1 (BC048693) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rad1
Synonyms: mRAD1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC048693
 CGGTGGCCTAGGTTTTACACATCTTCCGGAAGAGGAGCATCCTTCTTCGGAGCCGCGGTACCGTGG
 ACCATCCATGCCTCTCCTAACCCAGTACAATGAAGAGGAGTACGAACAGTACTGCTTAGTGCCAGCCTT
 GACAACGTTAGGAATCTCTCCACTGTCTTGAAAGCCATTCATTTTCAGAGAACACGCCACGTGTTTTGCTA
 CCAAAAACGGAATCAAGGTTACAGTGGAGAATGCAAAGTGTGTGCAAGCAAATGCCTTTATTTCAGGCTGA
 CGTGTTCAGGAATTTGTCATTCAGGAAGAATCTGTTACTTTTCGAATTAACCTAACTATCCTTTTAGAC
 TGTTTTATCTATTTTTGGATCAAGTCTACACCAGGACTTTGACTGCGCTTCGGATGTGTTACCAAGGTT
 ATGGTCACCCACTGATGCTATTTCTAGAAGAAGGAGGAGTGGTGACGGTCTGCAAATTACCACTCAGGA
 GCCTGAGGAGACTGGATTTTGATTTCTGCAGCACCAATGTTATGAATAAAATTATCCTGCAGTCAGAG
 GGGCTCCGGGAAGCCTTTCTGAGCTGGACATGACAGGTGATGCTCTACAGATCACTGTGTCTCCTGACA
 AGCCCTATTTTCAGGTTGTCTACTTTTGAAATGCAGGAACTCCCATCTTGACTATCCCAAAGATCCGA
 CTTGGTGAAGCCTTTCACTGTGATAAGACCCAGGTCAACAGATACAAGCTGTCGCTACTGAAGCCCTCT
 ACAAAGGCACTAGCTTTATCCTGTAAGTGTCTATCCGGACAGATAACCGAGGCTTCCTCTCCCTACAGT
 ACATGATTAGAAATGAAGATGGGCAGATATGTTTTGTGGAATATTACTGCTGCCCTGATGAAGAAGTTCC
 TGAGTCTTGAATAATTCAGTACTATTTCTGTCTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTTTGCGAGACAG
 TTTTCTGTGTAGCCCTGGCTGTCTGGAATCACTCTAGACCAGGCTGGCCTCGAACTCAGAAATTCAC
 CTGCCTCTGCCTCCTGAGTGTCTGGGATTAAGGCGTGCACCACGACCGGCGAATATTTGTGTCTTTA
 TAGTTGGCGTTCTCACTGTAACCTCTAACCTTGATGATTTTCATTTTGGATTGTATAGAGAGATGCATGG
 AGAAAAATAGGAGCAAGGTCAGTCCCATTTCTGAAATCTGTAATAGTTTTTATTTTGTCAATAAATTTTT
 CATATAGCCATAAATTATCAAA
 AA AAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC048693
Insert Size: 843 bp



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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).
Reconstitution Method:	<ol style="list-style-type: none">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:	BC048693 , AAH48693
RefSeq Size:	1408 bp
RefSeq ORF:	843 bp
Locus ID:	19355
Cytogenetics:	15 A1
Gene Summary:	Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. The 9-1-1 complex is necessary for the recruitment of RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. Isoform 1 possesses 3'->5' double stranded DNA exonuclease activity (By similarity).[UniProtKB/Swiss-Prot Function]