

Product datasheet for **MC227905**

Rad17 (NM_001283011) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad17 (NM_001283011) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rad17
Synonyms:	MmRad24
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227905 representing NM_001283011
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTGGAGACGATCTGACAACTGATAAGAAGATCATTCTGGTGAAGAGTTACCTAACCGATTTTATC
 GAGACCCTAACGCTTTACATGAGATTCTAAGAAAGCATGTGCAGATTGGCCGGTGTCTCTTGATTAT
 AGTCTCTGACAGTGTCACTGGAGACAATAATCAGCGGCTACTCTCCCGAGAAACATTCAAGAAGAGTGT
 TCTGTTTCAAACATTAGTTTCAACCCTGTGGCACCACAAATTATGATGAAATTTCTTAATCGAATTGTGA
 CTATAGAAGCTAGTAAGAATGGAGAAAAAATTATTGTTCTAATAAAAACCTCTCTGGAGTTGCTCTGTCA
 AGGATGTTCTGGTGATATCAGAAGTGAATAAACAGCCTGCAGTTCTCGTCTTCAAAGGAGAGAACAGT
 TCGTGGTCAAAGAAGAAAAGAATGTCATTGAAATCGGATGCTGCCATATCAAATCAAACAAAAAAGA
 AACATAATAGTACTTTGGAAAATCAAGAGATTCAAGCTATTGGTGGAAAAGATGTTTCTCTTTTCTCTT
 CAGAGCTTTGGGGAAGATTCTGTACTGTAAAAGAGCGCCTTAAACAGAGTTAGACTCACCTCGCCTGCCT
 GCTCACTTGTGAGAGCAGCAGCCGGGACACTTTACTTGTTCAGCCTGAGGAAATAGTAGAAATGTCACACA
 TGCCAGGAGACTTTTTAATTTATACCTTCACCAAACTACATAGATTTCTTCGCTGAAGTAGATGATCT
 TGTGCCAGCCAGTGAGTTTCTGAGTTTTCAGATATCCTCGGTGGTGATTGGAATACACGCTCGTACTC
 AGGGAATATAGTACATCCGTAGCTACAAGAGGTGTGATGCATTCCAACAAGCCCGGGGTTTCGCTCACT
 GCCAAGGAGGATCAAGCTTTGACCCCTTACATAAGCCCAAGTGGTTTCTAATACAGAAAAAGTATCGGGA
 AAATTGCCTGGCAGCAAAAGCACTCTTTGTTGACTTCTGCCTACCAGCTTTGTGTCTCCAGACTCAGCTC
 TTGCCATATCTTGCTCTTCTGACCATTCCAATGCGAAATAAAGCTCAGATTTCTTTATCCAAGATGTTG
 GAAGACTTCCTTTGAAGCGAAGCTTTGGAAGTTGAAAATGGAAGCCCTGACTGACCGAGAGCTGGGGCT
 GATAGACCCTGACAGTGGGGATGAGTCCCGCACAGCGGAGGGCAGCCGGCTCAGGAAGTCCCGGTGAA
 CCCGCGCAGGCTGCTCAGAATGCCGACCCAGAGACCTGGTCCCTTCCGCTGAGTCAGAACAGCGGGAGCG
 ATCTGCCTGCCAGCCAGCCTCAGCCCTTTCTCCAAAGTGGACATGGAAGAAGAGGAGGAGGAAGAGGA
 AGACATAATAATAGAGGACTATGACAGCGAGGAGACATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001283011
- Insert Size:** 1440 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001283011.1](#), [NP_001269940.1](#)

RefSeq Size: 2940 bp

RefSeq ORF: 1440 bp

Locus ID: 19356

UniProt ID: [Q6NXW6](#)

Cytogenetics: 13 D1

Gene Summary: Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Has a weak ATPase activity required for binding to chromatin. Participates in the recruitment of the RAD1-RAD9-HUS1 complex and RHNO1 onto chromatin, and in CHEK1 activation. May also serve as a sensor of DNA replication progression, and may be involved in homologous recombination (By similarity). Essential for embryonic development. May be involved in homologous recombination. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) contains an alternate exon in its 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.