

Product datasheet for **MR210047**

Rad17 (NM_001044371) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad17 (NM_001044371) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rad17
Synonyms:	MmRad24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR210047 representing NM_001044371
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGAAACTTTCCTTAGACCAAAGGTGTCTCCACAAAGGTGACAGACTGGGTAGTCCAGCCTTTG
 ATGACTTTGAGGCCAACCCGCCATCACCACCATCACTGCGTCATCTTTAACTTTAGTAACTCCAGTCA
 CAGAAGAAAATATTTGCCTCCACATTAGAAAAGTAAAGATTGTCGGCTAGAAAAAGAGGAGGCTCTCT
 TTAGAACAGACTCATGGTCTAGAAACTCAAGAGAGCGTCTGTCCGACAATGAGCCGTGGGTGGATAAAT
 ATAAACCAGAACTCAGCATGAACTTGCTTTCATAAAAAAGAAAATTGAAGAGGTGAAACCTGGTTAAA
 AGCTCAAGTCTTAGAAGTGAAGCCAAAACAGGGTGGGTCTGTTTTATTAACAGGTCTCCAGGATGT
 GGAAGACAACACTATAAAAACTGTCAAAGGAACTGGGATCCAAGTACAAGATGGGTTAATCCTA
 TTTTACCAGACTTCCAAAAGATGATTACAAGGAGTACTTAGTTTGAATCAAACCTCTCTGTAGTTCC
 ATACCAATCTCAGATAGCAGTCTTCAATGACTTTCTATTAAGAGCCACCAAGTACAGCAAACCTGCAGATG
 CTTGGAGACGATCTGACAACTGATAAGAAGATCATTCTGGTGGAAGAGTTACCTAACCAAGTTTATCGAG
 ACCCTAACGCTTTACATGAGATTCTAAGAAAGCATGTGCAGATTGGCCGGTGTCTCTTGTATTTATAGT
 CTCTGACAGTGTGAGTGGAGACAATAATCAGCGGCTACTCTTCCCAGAAACATTCAAGAAGAGTGTCT
 GTTTCAAACATTAGTTTCAACCTGTGGCACAACAATTATGATGAAATTTCTAATCGAATTGTGACTA
 TAGAAGCTAGTAAAGATGGAGAAAAAATTATTGTTCTAATAAACTTCTCTGGAGTTGCTCTGTCAAGG
 ATGTTCTGGTGATATCAGAAGTGAATAAACAGCCTGCAGTCTCGTCTTCAAAGGAGAGAACAGTTCCG
 TGGTCAAAGAAGAAAAGAAATGTCATTGAAATCGGATGCTGCCATATCAAATCAAACAAAAAAGAAAC
 ATAATAGTACTTTGAAAAATCAAGAGATTCAAGCTATTGGTGAAAAAGATGTTTTCTTTTTCTCTCAG
 AGCTTTGGGGAAGATTCTGTACTGTAAAAGAGCGCCTTTAACAGAGTTAGACTCACCTCGCCTGCCTGCT
 CACTTGTGAGAGCACGACCGGGACACTTTACTTGTTCAGCCTGAGGAAATAGTAGAAATGTCACACATGC
 CAGGAGACTTTTTTAATTTATACCTTACCAAAAACACTACATAGATTTCTTCTGCTGAAGTAGATGATCTGT
 GCCAGCCAGTGAGTTTCTGAGTTTTGCAGATATCCTCGGTGGTATTGGAATACACGCTCGTTACTCAGG
 GAATATAGTACATCCGTAGCTACAAGAGGTGTGATGCATTCCAACAAAGCCCGGGGTTCTGCTCACTGCC
 AAGGAGGATCAAGCTTTGACCCCTTACATAAGCCCAAGTGGTTTCTAATACAGAAAAAGTATCGGGAAAA
 TTGCCTGGCAGCAAAAGCACTCTTTGTTGACTTCTGCCTACCAGCTTTGTGTCTCCAGACTCAGCTCTG
 CCATATCTTGCTCTTCTGACCATTCCAATGCGAAATAAAGCTCAGATTTCTTTTATCCAAGATGTTGGAA
 GACTTCTTTGAAGCGAAGCTTTGGAAGTTGAAAATGGAAGCCCTGACTGACCGAGAGCTGGGGCTGAT
 AGACCCTGACAGTGGGGATGAGTCCCGCACAGCGGAGGGCAGCCGGCTCAGGAAGCTCCCGGTGAACCC
 GCGCAGGCTGCTCAGAATGCCGACCCAGAGACCTGGTCCCTTCCGCTGAGTCAAGAACAGCGGGAGCGATC
 TGCTTCCAGCCAGCCTCAGCCCTTTCTCCTCAAAGTGGACATGGAAGAAGAGGAGGAGGAAGAGGAAGA
 CATAATAATAGAGGACTATGACAGCGAGGAGACA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210047 representing NM_001044371
 Red=Cloning site Green=Tags(s)

```
MSETFLRPKVSSTKVTDWVAPAFDDFEANTAITTITASSLTFSSSHRRKYLPTLESNRLSARKRGRLS
LEQTHGLETSRERLSDNEPWVDKYKPEQHELAVHKKKIEEVETWLKAQVLEVKPKQGGSVLLITGPPGC
GKTTTIKILSKELGIQVQEWNPILPDFQKDDYKELLSLESNFSVVPYQSQIAVFNDFLLRATKYSKLQM
LGDDLTTDKKIILVEELPNQFYRDPNALHEILRKHVQIGRCPLVFIVSDSVSGDNNQRLFPRIQEECS
VSNISFNVPVPTIMMKFLNRIVTIEASKNGEKIIVPNKTSLELLCQCGSGDIRSAINSLQFSSSKGENSS
WSKKRMSLSKSDAAISKSKQKKKHSTLENQEIQAIIGKDVSLFLFRALGKILYCKRAPLTELDPRLPA
HLSEHDRDILLVQPEEIVEMSHMPGDFNLYLHQNYIDFFAEVDDLVPASEFLSFADILGGDWNTRSLLR
EYSTSVATRGVMHSNKARGFAHCQGGSSFRPLHKPQWFLIQKKYRENCLAAKALFVDFCLPALCLQTQLL
PYLALLTIPMRNKAQISFIQDVGRPLKRSFGRKMEALTDRELGLIDPDSGDESPHSGGQPAQEAPGEP
AQAAQNADPETWSLPLSQNSGSDLPASQPQPFSSKVDMEEEEEEEEDIIIEDYDSEET
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001044371

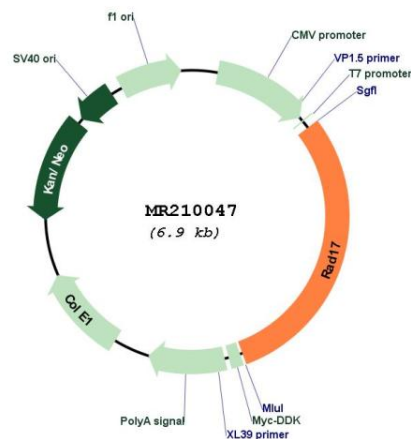
ORF Size: 2064 bp

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:	<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:	<u>NM_001044371.2, NP_001037836.1</u>
RefSeq Size:	2735 bp
RefSeq ORF:	2067 bp
Locus ID:	19356
UniProt ID:	<u>Q6NXW6</u>
Cytogenetics:	13 D1
MW:	77.8 kDa
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]

Product images:



Circular map for MR210047