

Product datasheet for **RC215866**

RAD17 (NM_133342) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD17 (NM_133342) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAD17
Synonyms:	CCYC; HRAD17; R24L; RAD17SP; RAD24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215866 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

RCATGAATCAGGTAACAGACTGGGTTGACCCATCATTGATGATTTTCTAGAGTGTAGTGGCGTCTCTAC
 TATTACTGCCACATCATTAGGTGTGAATAAAGTCAAGTCATAGAAGAAAAATGGGCTTCTACATTAGAA
 AGCAGCAGATTTCCAGCGAGAAAAAGAGGAAATCTATCTTCCCTTGAACAGATTTATGGTTTAGAAAATT
 CAAAAGAATATCTGTCTGAAAAAAGAACCATGGGTGGATAAATAAAACCAGAACTCAGCATGAACCTGC
 TGTGCATAAAAAGAAAATTGAAGAAGTCGAAACCTGGTAAAAGCTCAAGTTTTAGAAAGGCAACCAAAA
 CAGGGTGGATCTATTTTATAAACAGGTCCTCCTGGATGTGAAAGACAACGACCTTAAAAATACTAT
 CAAAGGAGCATGGTATTCAAGTACAAGAGTGGATTAATCCAGTTTTACCAGACTTCCAAAAGATGATTT
 CAAGGGGATGTTAATACTGAATCAAGCTTCCATATGTTCCCTATCAGTCTCAGATAGCAGTTTTCAA
 GAGTTTTCTACTAAGAGCGACAAAGTATAACAAGTTACAAATGCTTGGAGATGATCTGAGAACTGATAAG
 AGATAATTCGGTTGAAGATTTACCTAACCAAGTTTTATCGGGATTCTCATACTTTACATGAAGTTCTAAG
 GAAGTATGTGAGGATTGGTGCATGTCCTTATATTTATAATCTCGGACAGTCTCAGTGGAGATAATAAT
 CAAAGGTTATTGTTTCCCAAAGAAATTCAGGAAGAGTGTCTATCTCAAATATTAGTTTCAACCCTGTGG
 CACCAACAATTATGATGAAATTTCTTAATCGAATAGTACTATAGAAGCTAACAAGAATGGAGGAAAAAT
 TACTGTCCTGACAAAATTTCTCTAGAGTTGCTGTGTCAGGGATGTTCTGGTGATATCAGAAGTGAATA
 AACAGCCTCCAGTTTTCTTCTTCAAAGGAGAAAAACAACCTACGGCCAAGGAAAAAGGAATGCTTTTAA
 AATCAGATGCTGTGCTGTCAAAATCAAACGAAGAAAAAACCTGATAGGGTTTTTGAAGTCAAGAGGT
 CCAAGCTATTGGTGGCAAAGATGTTTCTCTGTTTCTCTCAGAGCTTTGGGAAAAATCTATATTGTA
 AGAGCATCTTAAACAGAATTAGACTCACCTCGGTTGCCCTCTCATTTATCAGAATATGAACGGGATACAT
 TACTTGTGAACCTGAGGAGGTAGTAGAAATGTCACACATGCCTGGAGACTTATTTAATTTATATCTTCA
 CAAAACCTACATAGATTTCTTATGAAATTTGATGATATTGTGAGAGCCAGTGAATTTCTGAGTTTTGCA
 GATATCTCAGTGGTACTGGAATACACGCTCTTACTCAGGGAATATAGCACATCTATAGCTACGAGAG
 GTGTGATGCATTCACAAAGCCCGAGGATATGCTCATTGCCAAGGAGGAGGATCAAGTTTTCGACCCTT
 GCACAAACCTCAGTGGTTTCTAATAAATAAAAAGTATCGGAAAAATGCCTGGCAGCAAAAGCAGTTTTT
 CCTGACTTCTGCCTACCAGCTTTATGCCGCAAACTCAGCTATTGCCATACCTTGCTCTACTAACCATT
 CAATGAGAAATCAAGCTCAGATTTCTTTTATCCAAGATATTGGAAGGCTCCCTCTGAAGCGACATTTGG
 AAGATTGAAAATGGAAGCCCTGACTGACAGGGAACATGGAATGATAGACCCTGACAGCGGAGATGAAGCC
 CAGCTTAATGGAGGACATTCTGCAGAGGAATCTCTGGGTGAACCACTCAAGCCACTGTGCCGAAACCT
 GGTCTCTTCTTTGAGTCAGAATAGTGCCAGTGAAGTGCCTGCTAGCCAGCCCCAGCCCTTTTCAGCCCA
 AGGAGACATGGAAGAAAACATAATAATAGAAGACTACGAGAGTGTGGGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_133342.3](#)

RefSeq Size: 3054 bp

RefSeq ORF: 2013 bp

Locus ID: 5884

UniProt ID: [O75943](#)

Cytogenetics: 5q13.2

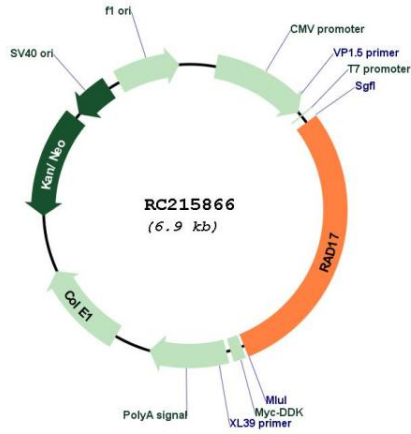
Domains: Rad17

Protein Families: Druggable Genome

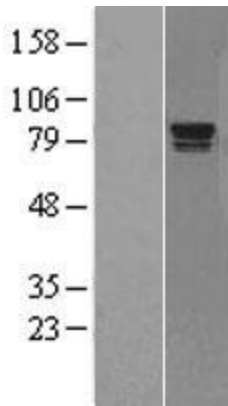
MW: 75.9 kDa

Gene Summary: The protein encoded by this gene is highly similar to the gene product of *Schizosaccharomyces pombe rad17*, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. This protein binds to chromatin prior to DNA damage and is phosphorylated by the checkpoint kinase ATR following damage. This protein recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation. The phosphorylation of this protein is required for the DNA-damage-induced cell cycle G2 arrest, and is thought to be a critical early event during checkpoint signaling in DNA-damaged cells. Multiple alternatively spliced transcript variants of this gene, which encode four distinct protein isoforms, have been reported. Two pseudogenes, located on chromosomes 7 and 13, have been identified. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RC215866



Western blot validation of overexpression lysate (Cat# [LY408878]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215866 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).