

Product datasheet for **SC109698**

RAD17 (NM_133342) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD17 (NM_133342) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD17
Synonyms:	CCYC; HRAD17; R24L; RAD17SP; RAD24
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_133342, the custom clone sequence may differ by one or more nucleotides

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ATGAATCAGGTAACAGACTGGGTTGACCCATCATTGATGATTTCTAGAGTGTAGTGGCGTCTCTACTA
TTACTGCCACATCATTAGGTGTGAATAACTCAAGTCATAGAAGAAAAATGGGCCTTCTACATTAGAAAG
CAGCAGATTTCCAGCGAGAAAAAGAGAAATCTATCTTCCTTAGAACAGATTTATGGTTTAGAAAAATTC
AAAGAATATCTGTCTGAAAATGAACCATGGGTGGATAAATAAAACCAGAACTCAGCATGAACTTGCTG
TGCATAAAAAGAAAATTGAAGAAGTCGAAACCTGGTTAAAAGCTCAAGTTTTAGAAAAGGCAACCAAAACA
GGGTGGATCTATTTTATAAACAAGTCTCCTGGATGTGAAAAGACAACGACCTTAAAAATACTATCA
AAGGAGCATGGTATTCAAGTACAAGAGTGGATTAATCCAGTTTTACCAGACTTCCAAAAAGATGATTTCA
AGGGGATGTTTAACTGAATCAAGCTCCATATGTTCCCTATCAGTCTCAGATAGCAGTTTTCAAAGA
GTTTCTACTAAGAGCGACAAAGTATAACAAGTTACAAATGCTTGGAGATGATCTGAGAACTGATAAGAAG
ATAATTCTGGTTGAAGATTTACCTAACAGTTTTATCGGGATTCTCATACTTTACATGAAGTTCTAAGGA
AGTATGTGAGGATTGGTCGATGTCCTTATATTTATAATCTCGGACAGTCTCAGTGGAGATAAATCA
AAGGTTATTGTTCCCAAAGAAATTCAGGAAGAGTGTCTATCTCAAATATTAGTTTCAACCCTGTGGCA
CCAACAATTATGATGAAATTTCTTAATCGAATAGTGACTATAGAAGCTAACAAAGAATGGAGGAAAAATTA
CTGTCCCTGACAAAACCTCTCTAGAGTTGCTGTGAGGGATGTTCTGGTGATATCAGAAGTGAATAAA
CAGCCTCCAGTTTTCTTCTTCAAAGGAGAAAAACAACCTACGGCCAAGGAAAAAGGAATGTCTTTAAAA
TCAGATGCTGTGCTGTCAAAATCAAACGAAGAAAAAACCTGATAGGGTTTTGAAAATCAAGAGGTCC
AAGCTATTGGTGGCAAAGATGTTTCTGTGTTCTCTTCCAGAGCTTTGGGAAAAATCTATATTGTAAGG
AGCATCTTTAACAGAATTAGACTCACCTCGTTGCCCTCATTATCAGAATATGAACGGGATACATTA
CTTGTGAACTGAGGAGGTAGTAGAAATGTACACATGCCTGGAGACTTATTTAATTTATATCTTACC
AAAACACATAGATTTCTCATGAAAATTGATGATATTGTGAGAGCCAGTGAATTTCTGAGTTTTGCAGA
TATCCTCAGTGGTGACTGGAATACACGCTCTTACTCAGGGAATATAGCAGTCTATAGCTACGAGAGGT
GTGATGCATTCACAAAGCCCGAGGATATGCTCATTGCCAAGGAGGAGGATCAAGTTTTCGACCCTTGC
ACAAACCTCAGTGGTTTCTAATAAATAAAAAGTATCGGGAAAAATGCCTGGCAGCAAAAGCACTTTTTCC
TGACTTCTGCCTACCAGCTTTATGCCTCAAACCTCAGCTATTGCCATACCTTGTCTACTAACCATTCCA
ATGAGAAATCAAGCTCAGATTTCTTTTCCAAGATATTGGAAGGCTCCCTCTGAAGCGACACTTTGGAA
GATTGAAAATGGAAGCCCTGACTGACAGGGAACATGGAATGATAGACCCTGACAGCGGAGATGAAGCCCA
GCTTAATGGAGGACATTCTGCAGAGGAATCTCTGGGTGAACCCACTCAAGCCACTGTGCCGAAACCTGG
TCTCTTCTTTGAGTCAGAATAGTGCCAGTGAACCTGCCTGCTAGCCAGCCCAAGCCCTTTTCAGCCCAAG
GAGACATGGAAGAAAACATAATAATAGAAGACTACGAGAGTGATGGGACATAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_133342 unedited

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GGTGTCAACATTTGTATACGACTCACTATAGCGGCCCGCAATTCGCACGAGCCGGGTAG
GGCCAGGTGGCTGCCCTTTCACCTAGGGTAGTCCCTGGTCGCCTCCGCTTTCGCCCAAA
GGGGATGCAGCTCCGGGAAACAAGTGAATTCATGGTATTTTACTTTTTGGGAAACTG
GAAATGAAGACCTGCAACTGTAATTTGAAATAAGGAAAACCTTAAATTTTTCAGTATAAAAA
TTGCTCAAATAGAATTGCCTGATTTTAATGACAAAAGTATATGGGAGTCCACATTTATGT
AAGAAATGAACTATAAAATGTATAAATAATTTGCAAATCAGAATTGCTGTGAAAGTTT
TACTATAATGAAAGATATTTTCACTCTCAAAAATATAGAGGAAAGGGCCAAGATTAT
AGTACCAGTCACAATCTTTTATGATGAGGACGAAATGAATCAGGTAACAGACTGGGTTGACC
CATCATTTGATGATTTTCTAGAGTGTAGTGGCGTCTCTACTATTACTGCCACATCATTAG
GTGTGAAATAACTCAAGTCATAGAAGAAAAATGGGCCTTCTACATTAGAAAGCAGCAGAT
TTCCAGCGAGAAAAAGAGGAAATCTATCTTCTTAGAACAGATTTATGGTTTAGAAAAAT
CAAAAGAATATCTGTCTGAAAATGAACCATGGGTGGATAAATAAAACCAGAACTCAGC
ATGAACTTGTGTGCATAAAAAGAAAATGGAAGAAGTCGAAACCTGGTTAAAAGCTCAAG
TTTTAGAAAGCAACCAANACAGGGTGGATCTANTTTTATAAACAAGTCTCTNCTGGATG
TGGAAAGACAACGACCTTANAATACTATCAAGGAGCATGGTATTTCAGTACAAGATGGAT
C
    
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Restriction Sites:	NotI-NotI
ACCN:	NM_133342
Insert Size:	3270 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).
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:	NM_133342.1 , NP_579920.1
RefSeq Size:	2972 bp
RefSeq ORF:	2013 bp
Locus ID:	5884
UniProt ID:	O75943
Cytogenetics:	5q13.2
Domains:	Rad17
Protein Families:	Druggable Genome
Gene Summary:	<p>The protein encoded by this gene is highly similar to the gene product of <i>Schizosaccharomyces pombe rad17</i>, 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]</p> <p>Transcript Variant: This variant (5) lacks an exon in the 5' UTR, when compared to variant 1. The encoded protein (isoform 1) is identical to that encoded by variants 1, 6, 7, 8 and 9.</p>