

Product datasheet for **SC324090**

RAD17 (NM_002873) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD17 (NM_002873) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD17
Synonyms:	CCYC; HRAD17; R24L; RAD17SP; RAD24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002873.1
 TTGCTGTCGAAAGTTTTACTATAATGAAAGATATTTTCATACTCTCAAAAATATAGAGGA
 AAGGGCCAAGATTATAGTACCAGTCACAATCTTTTGATGAGGACGAAATGAATCAGGTA
 ACAGACTGGGTTGACCCATCATTGATGATTTTCTAGAGTGTAGTGGCGTCTCTACTATT
 ACTGCCACATCATTAGGTGTGAATAACTCAAGTCATAGAAGAAAAATGGGCCTTCTACA
 TTAGAAAGCAGCAGATTTCCAGCGAGAAAAAGAGGAAATCTATCTTCTTAGAACGATT
 TATGGTTTAGAAAAATTCAAAAGAATATCTGTCTGAAAATGAACCATGGGTGGATAAATAT
 AAACCAGAAACTCAGCATGAACTTGCTGTGCATAAAAAGAAAATTGAAGAAGTCGAAACC
 TGGTTAAAAGCTCAAGTTTTAGAAAAGGCAACCAAAACAGGGTGGATCTATTTTATTAATA
 ACAGGTCTCCTGGATGTGGAAAGACAACGACCTTAAAAATACTATCAAAGGAGCATGGT
 ATTCAGTACAAGAGTGGATTAATCCAGTTTTACCAGACTTCCAAAAAGATGATTTCAAG
 GGGATGTTAATACTGAATCAAGCTTCCATATGTTTCCCTATCAGTCTCAGATAGCAGTT
 TTCAAAGAGTTTCTACTAAGAGCGACAAAGTATAACAAGTTACAAATGCTGGAGATGAT
 CTGAGAAGTATAAGAAGATAATTCTGGTTGAAGATTTACCTAACAGTTTTATCGGGAT
 TCTCATACTTTACATGAAGTTCTAAGGAAGTATGTGAGGATTGGTCGATGCCTCTTATA
 TTTATAATCTCGGACAGTCTCAGTGGAGATAAATCAAAGGTTATTGTTCCCAAAGAA
 ATTCAGGAAGAGTGTCTATCTCAAATATTAGTTTCAACCCTGTGGCACCAACAATTATG
 ATGAAATTTCTTAATCGAATAGTGACTATAGAAGCTAACAAAGATGGAGGAAAAATTACT
 GTCCCTGACAAAACCTTCTAGAGTTGCTCTGTGAGGGATGTTCTGGTGATATCAGAAGT
 GCAATAAACAGCCTCCAGTTTTCTTCTTCAAAGGAGAAAAACAACCTACGGCCAAGGAAA
 AAAGGAATGTCTTTAAAATCAGATGCTGTGCTGTCAAAATCAAACGAAGAAAAAACCT
 GATAGGTTTTTGGAAAATCAAGAGGTCCAAGCTATTGGTGGCAAAGATGTTTCTGTGTT
 CTCTTCAGAGCTTTGGGAAAATTTCTATATTGTAAGAGCATCTTTAACAGAATTAGAC
 TCACCTCGGTTGCCCTCTCATTATCAGAATATGAACGGGATACATTACTTGTGAACT
 GAGGAGGTAGTAGAAATGTCACACATGCCTGGAGACTTATTTAATTTATATCTTACCAA
 AACTACATAGATTTCTTCATGGAAATTGATGATATTGTGAGAGCCAGTGAATTTCTGAGT
 TTTGCAGATATCCTCAGTGGTACTGGAATACACGCTCTTACTCAGGGAATATAGCACA
 TCTATAGTACGAGAGGTGTGATGCATTCCAACAAAGCCCGAGGATATGCTCATTGCCAA
 GGAGGAGGATCAAGTTTTCGACCCTTGACAAAACCTCAGTGGTTTCTAATAAATAAAAAG
 TATCGGAAAATGCCTGGCAGCAAAAGCACTTTTTCTGACTTCTGCCTACCAGCTTTA
 TGCCGCCAAAACCTCAGCTATTGCCATACCTTGCTCTACTAACCATCCAATGAGAAATCAA
 GCTCAGATTTCTTTATCCAAGATATTGGAAGGCTCCCTCTGAAGCGACACTTTGGAAGA
 TTGAAAATGGAAGCCCTGACTGACAGGGAACATGGAATGATAGACCTGACAGCGGAGAT
 GAAGCCCAGCTTAATGGAGGACATTCTGCAGAGGAATCTCTGGGTGAACCCACTCAAGCC
 ACTGTGCCGAAACCTGGTCTCTTCTTTGAGTCAGAATAGTGCCAGTGAAGTGCCTGCT
 AGCCAGCCCCAGCCCTTTTCCAGCCAAAGGAGACATGGAAGAAAACATAAATAGAAGAC
 TACGAGAGTGTGGGACATAGAAGCCAGCCTGCTAATCAGATTGCTACTTACAGCTTCA
 TTTTTGTTTCAATCAGTGGTACTTCCAGCAGAGTTAATATGCTTTTCTGATGAATTACACA
 ACAGTTTGTAAATCTTCACTTGTAGTATTTTCATCACAAGAAACCTACTCTTCTGTCA
 TCTTGAAGTAAATAGAAGATCAAGCCTTCAAATCTTAAATTTTTTCGGTATTTATTA
 TCTGTGAGTGGTTAAGGAA
 AA
 AA
 AAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT
ACCN: NM_002873

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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_002873.1 , NP_002864.1
RefSeq Size:	3164 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 (8) has an alternate 5' terminal sequence and lacks an internal exon in the 5' UTR, when compared to variant 1. The encoded protein (isoform 1) is identical to that encoded by variants 1, 5, 6, 7 and 9.</p>