

Product datasheet for **SC118373**

RAD1 (NM_002853) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD1 (NM_002853) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD1
Synonyms:	HRAD1; REC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118373 sequence for NM_002853 edited (data generated by NextGen Sequencing)

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ATGCCCTTCTGACCCAACAGATCCAAGACGAGGATGATCAGTACAGCCTTGTGGCCAGC
CTTGACAACGTTAGGAATCTCTCCACTATCTTGAAAGCTATTCATTTCCGAGAACATGCC
ACGTGTTTCGCAACTAAAAATGGTATCAAAGTAACAGTGGAAAATGCAAAGTGTGTGCAA
GCAAATGCTTTTATTCAGGCTGGAATATTTAGGAGTTTAAAGTTCAGGAAGAGTCTGTT
ACTTTTCGAATTAATTTAACTGTCCTTTAGACTGTTTATCTATTTTGGATCAAGTCTCT
ATGCCAGGGACTTTAACTGCACTTCGAATGTGTTACCAAGGTTATGGTTACCTTTGATG
CTGTTCTGGAAGAAGGAGGAGTGGTGACAGTCTGCAAAATCAATACACAGGAACCTGAG
GAGACCCTGGACTTTGATTTCTGCAGCACCAATGTTATTAATAAAATTATTCTGCAGTCA
GAGGGGCTCCGTGAAGCATTTTCTGAATTGGATATGACGAGTGAAGTCTACAAATTACC
ATGTCTCCTGACAAGCCTTATTTAGGTTATCTACTTTTGGAAATGCAGGAAGTTCCAC
CTTGACTATCCCAAAGATTCTGATTTGATGGAAGCATTTTCATTGTAATCAGACCCAAAGT
AACAGATACAAGATTTCTTACTGAAACCCTCTACAAAGGCATTAGTCTATCTTGTAAAG
GTATCTATTCGGACAGATAACAGAGGCTTCTTTTACATTACAGTATATGATTAGAAATGAA
GATGGACAAATATGTTTTGTGGAATATTACTGCTGCCCTGATGAAGAAGTTCTGAATCT
GAGTCTTGA
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Clone variation with respect to NM_002853.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002853 unedited GGGGTTACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCTCCTTC CGGTCTCGGTGGCGCGGCACGCGCGGCTCTAGGCCTCCTTCAGCTCTGTGGTGACGGT GGCCGAGGTGGAGGGCCGGTCTGAAGAGTGGCGGGACTGGCTTCACTTCTCCGCGGTT CTCGGAGCCGCTCGCTCCTCTCAGGGACTTTGCTGAGAAGGGCTCTCGGGCGTCCAGA CCCCACCGCAAAGGTGTTTGGCGATCCGCCGAGAAGTTGTTGGCCCAGGAGCATCCCTC GGGGCCGAATGCCAGTGGACGATGCCCTTCTGACCCAACAGATCCAAGACGAGGATGA TCAGTACAGCCTTGTGGCCAGCCTTGACAACGTTAGGAATCTCTCCACTATCTTGAAAGC TATTCATTTCCGAGAACATGCCCGTGTTCGCAACTAAAAATGGTATCAAAGTAACAGT GGAAAAATGCAAAGTGTGTGCAAGCAAATGCTTTTATTCAGGGGCATGGTATGGTGGCTCA CACCTGTATTTCCAGCTGCTCAGGAGACCGAGGCTGAAGCACGAAGATCGCTTGAGCTCA GGCATTAAAGACCAGCCTGGGCTGGAATATTTAGGAGTTAAAGTTCAGGAAGAGTCTG TACTTTTTCGAATTAATTTAACTGTCCTTTTAGACTGTTTATCTATTTTTGGATCAAGTC CTATGCCAGGACTTTAACTGCACTTTCGAATGTGTTACCAAGTTATGGTTACCTTTTGA TGCTGTTCTGGGAAGAGGGAGAGTGGTGACAGTCTGCAAAATCAATACACACGAACCTG AGGAGACCCTGGACTTTGATTTCTGCAGCACCAATGTTATTAATAAAAAATATCCTGCAGT CAGAGGGGCTCCGTGAAGCATTCTGAT
Restriction Sites:	NotI-NotI
ACCN:	NM_002853
Insert Size:	2620 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_002853.2 , NP_002844.1
RefSeq Size:	1776 bp
RefSeq ORF:	849 bp
Locus ID:	5810
UniProt ID:	O60671
Cytogenetics:	5p13.2
Domains:	Rad1
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a component of a heterotrimeric cell cycle checkpoint complex, known as the 9-1-1 complex, that is activated to stop cell cycle progression in response to DNA damage or incomplete DNA replication. The 9-1-1 complex is recruited by RAD17 to affected sites where it may attract specialized DNA polymerases and other DNA repair effectors. Alternatively spliced transcript variants of this gene have been described. [provided by RefSeq, Jan 2009]

Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.