

Product datasheet for **SC108413**

RAD18 (NM_020165) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD18 (NM_020165) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD18
Synonyms:	RNF73
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108413 sequence for NM_020165 edited (data generated by NextGen Sequencing)

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ATGGACTCCCTGGCCGAGTCTCGGTGGCCTCCGGGCTGGCAGTCATGAAGACAATAGAT
GATTTGCTGCGGTGTGGAATTTGCTTCGAGTATTTCAACATTGCAATGATAATACCTCAG
TGTTACATAACTACTGCTCTCTGTATAAGAAAATTTCTGCTCTATAAACTCAGTGT
CCAACCTGCTGTGTGACTGTACAGAGCCGGATCTGAAAAATAACCGCATATTAGATGAA
CTGGTAAAAAGCTTGAATTTTGACAGGAATCATCTGCTGCAGTTGCTTTAGAGTCACCA
GCCAAATCTCCTGCTTCTCTCTTCAAAGAATCTTGCTGTCAAAGTATATACTCCTGTA
GCCTCCAGACAGTCTTTAAAGCAGGGGAGCAGGTTAATGGATAATTTCTGATCAGAGAA
ATGAGTGGTTCTACATCAGAGTTGTTGATAAAAAGAAAATAAAAGCAAATTCAGCCCTCAA
AAAGAGGCGAGCCCTGCTGCAAAGACCAAAGAGACAGTTCTGTAGAAGAGATCGCTCCA
GATCCCTCAGAGGCTAAGCGTCTGAGCCACCCTCGACATCCACTTTGAAACAAGTTACT
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AAGCCGCTGCCAAAACGTATATAATTTGCTCTCTGATCGTGATTTAAAGAAAAAGCTA
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TTTGATACACATGTACAATGCCCAATGCGATGCTTTGCATCCTAAATCAGCTGCTGAAATA
GTTTCGAGAAATCGAAAATATAGAGAAGACTAGGATGCGTCTTGAAGCTAGTAAACTCAAT
GAAAGTGTAAATGGTTTTTACAAAGGACCAACAGAAAAGGAAATAGATGAAATCCACAGT
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TACAAGAAAATGCTGGAATGTCACAAAAACAGTAACAATAACAAAAGAAGATGAATCT
ACAGAAAAGCTATCTTCTGTATGCATGGGACAGGAAGATAATATGACCTCAGTAACAAC
CACTTTTCTCAATCAAAGCTGGACTCCCCAGAGGAATTGGAACCTGACAGAGAAGAGGAT
TCTTCTAGCTGTATTGATATTCAAGAAGTTCTTTCTTCATCAGAATCAGATTCATGCAAT
AGTTCAGTTCAGACATCATAAGAGATCTTTTAGAAGAAGAGGAAGCCTGGGAAGCATCA
CATAAAAACGATCTTCAAGACACAGAAATAAGTCCAAGACAGAATCGCCGCACAAGAGCC
GCTGAAAGTGCTGAGATTGAACCAAGAAACAAGCGTAATAGGAATTAA

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Clone variation with respect to NM_020165.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_020165 unedited

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GTAATACGACTACTATAGGGCGCCGCGAATTCGGCACGAGGCCTCGTGCCGAATTCGG
CACGAGGGACCCCGCATCCTCGAGAGCGACCATGGACTCCCTGGCCGAGTCTCGGTGG
CCTCCGGGCTGGCAGTCATGAAGACAATAGATGATTTGCTGCGGTGTGGAATTTGCTTC
GAGTATTTCAACATTGCAATGATAATACCTCAGTGTTACATAACTACTGCTCTCTCTGT
ATAAGAAAATTTCTGCTCTATAAACTCAGTGTCCAACCTGCTGTGTGACTGTACAGAG
CCGGATCTGAAAAATAACCGCATATTAGATGAAGTGGTAAAAAGCTTGAATTTTGACCG
AATCATCTGCTGAGTTTGCTTTAGAGTACCAGCCAAAATCTCCTGCTTCTTCTTCA
AAGAATCTTGCTGTCAAAGTATATACTCCTGTAGCCTCCAGACAGTCTTTAAAGCAGGGG
AGCAGGTTAATGGATAATTTCTGATCAGAAAATGAGTGGTTCTACTCAGAGTTGTTGAT
AAAGAAAATAAAGCAATTCACCCTCAAAGAGCGAGCCCTGCTGAAAGACCAAGAGACAC
GTTCTGAAAGAGATCGCTCAATCCTCAAGGCTAACGTCTGAGCCACCTCGACATCCTTGA
ACAAGTACTAAGTGGATNNGTCTGTTGCGGGNTACATTCAAAAAGCCATTTATACATTAC
CAGCTGNTATACCGAAAGAAGAAGCCTAAAANTTTGTACAAAAGAAGCCCTCAAACCTGT
TTAATNGCTCTTGACGGTTAAGAAACTAAAACCTGGGTTTTCTTCAGAATACACGCTCTA
AAGCCCAAATTTNCCCGCCAGGCAGGGAGGTTTCTC

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020165 unedited TCTCGTGTACGACCCACTCTTAGCACTAGATAAGTAGTCATGNAAACAAACAGTTTTCA TTTTGACATAATTTCTGACAACCTCAGTGACATAAATATATCCATGTGAGCTCCTATTTTG TTTGACATGCTCACTTACCTCACATCAGTTCTGCCGATAGATTTGGTAAGTGGTGCTTTT AGTTTCCTTAATGCACCCCTCAGGATTTTCATGCAAATGAAATTATTATGACAAATTTTTC TATAGCCATTTCTAACACAGGGAACCTATAAAGAAATCAAATGTCTGCACTTCACTGTGA AAACACTAAACTCTCAGCCATAATGAGACTCCACACATTATCAGAAACCCCAAGGCATAC CAAAAAGACAAGGTCAACGGAGACAGCCTCTGGAAGGGGAGGTCATACCTGCCGCAACCT GGCCAACCATAAATCTCTAGTTTTAACATTGCCGATTTACTATCATCTCATTGAAAGC TGATGTGCTTGGGCTGTTTGATAACCCAGGCGTGGACTCGTGCTATGCTGACTCGAAC GCCTCACCCGCTCCGAACCTTTGAAACCCCGGCTTCTGCTCTAACTCTTACCATCTGGT TTCTTGACCCCTTTTCTATGACTCTTATCCACCCCTACCTTTCCACGCCCCCGCTC ACAACCTCTCTTTCTGACCCCTTTTCTTCTCTACTCTCTCCTCCCTCCCTCC CCCCTCGTACCTCTATCCCTGTCTTCCACCCCTCTCGCCTCTGACCCATCCTCT TTCTTTCAATTATAAGTCTCTCTACTCTATTTTCGTTAGCCTTCATTTCACTATCTCT ACGGCCCTCCTCCTCTAATTATTCCAACACCTTCTCATCCTTTTCTATTTCTAAAAC CCGTCCTCAATCACAATTCTCATCCCTCTTCTATATCCTTATCCCTCCGTTTCCCCCAC TCTTACTCTCTTATCT
Restriction Sites:	ECORI-NOT
ACCN:	NM_020165
Insert Size:	3000 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:	<u>NM_020165.2</u> , <u>NP_064550.2</u>
RefSeq Size:	3053 bp
RefSeq ORF:	1488 bp
Locus ID:	56852
UniProt ID:	<u>Q9NS91</u>
Cytogenetics:	3p25.3
Domains:	RING, SAP, ZnF_Rad18

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is highly similar to *S. cerevisiae* DNA damage repair protein Rad18. Yeast Rad18 functions through its interaction with Rad6, which is an ubiquitin-conjugating enzyme required for post-replication repair of damaged DNA. Similar to its yeast counterpart, this protein is able to interact with the human homolog of yeast Rad6 protein through a conserved ring-finger motif. Mutation of this motif results in defective replication of UV-damaged DNA and hypersensitivity to multiple mutagens. [provided by RefSeq, Jul 2008]