

## Product datasheet for **SC215339**

### **RAD50 (NM\_005732) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	RAD50 (NM_005732) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	RAD50
Synonyms:	hRad50; NBSLD; RAD502
ACCN:	NM_005732
Insert Size:	2000 bp



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**Insert Sequence:**

>SC215339 3'UTR clone of NM\_005732

The sequence shown below is from the reference sequence of NM\_005732. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
GTTAGCTCCCTGGGATTCAATGTTCAATAAAAATCAAGATTTAAATGCCATAGAAATGTAGGTCT
CAGAAAGTGATAATAAGAACTTATTTCTCATATCAACTTAGTCAATAAGAAAATATATTTCTTTCAA
GGAACATTGTGTCTAGGATTTTGGATGTTGAGAGTTCTAAAATCATGAACTTGTTTCACTGAAAATT
GGACAGATTGCCTGTTTCTGATTTGCTGCTTTCATCCCATTCCAGGCAGCCTCTGTGAGCCTTCAGG
GTTGAGCAGTACAGCCGAGACTCGACTCTGTGCCTCCCTCCCAAGTGCATGCTTCTTCTCAA
GCACTGTTGAGAAGGAGATAATTACTGCCTGAAAATTTATGGTTTTGGTATTTTTTAAATCATAGTT
AAATGTTACCTCTGAATTTACTTCTTGCATGTGGTTTAAAAACTGAGTATTAATCTGAGGATGAC
CAGAAATGGTGAGATGTATGTTTGGCTGCTTTTAACTTTATAAATCCAGTGACCTCTCTCTGGGA
CTTGGTTTTCCCAACTAAAATTTGAAGTAGTTGAATGGGGTCTCAAAGTTTGACAGGAACCTTAAGTAA
TCATCTAAGTCAGTACCCACCACCTTCTCTCCTACATATCCCTTCCAGATGGTCACTCCAGACTCAGAG
CTCTCTCTACAGAGAGAAATCTCCACTGTGCACACCCACCTTTGAAAAGCTCTGACCCTTGAGGCC
TGATCTGCCCATCGTGAAGAAGCCTGTAACACTCCTCTGCGTCTATCCTGTGTAGCATACTGGCTTAC
CATCAATCCTGATTCCTCTAAGTGGGCATTGCCATGTGGAAGGCAAGCCAGGCTCACTCACAGAGTC
AAGGCCTGCTCCCTGTAGGGTCCAACAGACCTGGAAGAACAGGCCTCTCCATTTGCTCTCAGATGCC
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ACACAGAAATGCAACCAAGTCACACGCTTTTGAATTATGCTTTGTAGAGTTTTGTCACTCAGAGTCAGCC
AGGACCATACCGGTCTTGATTCAGTCACATGGCATGGTTTTGTGCCATCTGTAGCTATAATGAGCATG
TTTGCCTAGACAGCTTTTCTCAACTGGGTCCAGAAGAGAATTAAGCCCTAAGGTCCTAAGGCATCTATC
TGTGCTAGGTTAAATGGTTGGCCCCAAAGATAGACAGGTCTGATTTCTAGAACCCTGACTGTTACT
TTATACAGCAAAGGAACTTTGCAGATGTGATTAAGCTAAGGACCTTAAGACAGAGTATCTGGGGGT
GGTGGTGGGGTGGGGGGGGTCTAAATGTAATCACGAGTAAGATTAAGAGCAAATCAATCTAGTCAT
ATATTAACATCCACAATAACCAAGATATTTTTATCCCAAGAATGCAAGATTTTCAAGAAAATGAAAAATC
TGTTGATAAATCCATCACTATAATAAAACCGAAGGTGAAAAAATTTGAAAAAATCTAGCAGCTATA
TTTGATAAATCAACATCTCCTAGCTTGTAGCAAACTCACAGTTTTGCAATAATATTTTCTTAATGTT
ATCTGTTGCTAAATCAAATTAACAGTCATCTTAACTGCAAAATAAAACATTTCTCAGTAAATATTA
AGCCAGTTACCTTCTATCAACATGTTAATGAAAGTGCTAGTTGTTGCAGCAAAGAATAACAAAGGCAAT
ACACGATCAATATAGGCAGTGAACAAAAGTATCATTTGCAAGTTAAAACAGACTTCCCAATTTTAAAT
CTGGTTTTCCCTGAATATGTGGCATCCTTGGCAGCACTTCTGAGAGTGGCTGCTTTTCAATCCAAGAAG
CCCATGGGTTTGGAGGTGGGATAGGTGCCTTTCTGGCTTCTCATTGCTGCTTCTAGATCAGTCTCCAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCCGCCCTTCTATGAAAGG
    
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**Restriction Sites:**

SgfI-MluI

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:**

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:**

[NM\\_005732.4](#)

**Summary:** The protein encoded by this gene is highly similar to *Saccharomyces cerevisiae* Rad50, a protein involved in DNA double-strand break repair. This protein forms a complex with MRE11 and NBS1. The protein complex binds to DNA and displays numerous enzymatic activities that are required for nonhomologous joining of DNA ends. This protein, cooperating with its partners, is important for DNA double-strand break repair, cell cycle checkpoint activation, telomere maintenance, and meiotic recombination. Knockout studies of the mouse homolog suggest this gene is essential for cell growth and viability. Mutations in this gene are the cause of Nijmegen breakage syndrome-like disorder.[provided by RefSeq, Apr 2010]

**Locus ID:** 10111

**MW:** 74.5