

## Product datasheet for **SC215341**

### **RAD50 (NM\_133482) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	RAD50 (NM_133482) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	RAD50
Synonyms:	hRad50; NBSLD; OTTHUMP00000065928; RAD50 homolog; RAD50 homolog ( <i>S. cerevisiae</i> ); RAD50-2
ACCN:	NM_133482
Insert Size:	1595 bp



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**Insert Sequence:** >SC215341 3'UTR clone of NM\_133482  
 The sequence shown below is from the reference sequence of NM\_133482. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTTAGCTCCCTGGGATTCAATGTTCAATAAAAATATCCAAGATTTAAATGCCATAGAAATGTAGGTCT
CAGAAAGTGATAATAAGAACTTATTTCTCATATCAACTTAGTCAATAAGAAAAATATATTCTTTCAA
GGAACATTGTGTCTAGGATTTTGGATGTTGAGAGTTCTAAAATCATGAACTTGTTCCTGAAAATT
GGACAGATTGCCTGTTTCTGATTTGCTGCTTTCATCCCATTCCAGGCAGCCTCTGTGAGCCTTCAGG
GTTCAGCAGTACAGCCGAGACTCGACTCTGTGCCTCCCTCCCAAGTGCATGCTTCTTCTCAA
GCACTGTTGAGAAGGAGATAATTACTGCCTTGAATTTATGGTTTTGGTATTTTTTAAATCATAGTT
AAATGTTACCTCTGAATTTACTTCTTGCATGTGGTTTGAAGAACTGAGTATTAATCTGAGGATGAC
CAGAAATGGTGAGATGTATGTTGGCTCTGCTTTTAACTTTATAAATCCAGTGACCTCTCTCTGGGA
CTTGGTTTTCCCAACTAAAATTTGAAGTAGTTGAATGGGGTCTCAAAGTTTGACAGGAACCTTAAGTAA
TCATCTAAGTCAGTACCCACCACCTTCTCTCCTACATATCCCTTCCAGATGGTCATCCAGACTCAGAG
CTCTCTCTACAGAGAGAAATTCTCCACTGTGCACACCCACCTTTGGAAAGCTCTGACCACTTGAGGCC
TGATCTGCCCATCGTGAAGAAGCCTGTAACACTCCTCTGCGTCTATCCTGTGTAGCATACTGGCTTAC
CATCAATCCTGATTCCTCTAAGTGGGCATTGCCATGTGGAAGGCAAGCCAGGCTCACTCACAGAGTC
AAGGCCTGCTCCCTGTAGGGTCCAACAGACCTGGAAGAACAGGCCTCTCCATTTGCTCTCAGATGCC
ACTTCTAAGAAAAGCCTAATCACAGTTTTTCTGGAATTGCCAGCTGACATCTTGAATCCTTCCATTCC
ACACAGAATGCAACCAAGTCACACGCTTTTGAATTATGCTTTGTAGAGTTTTGTCAATTCAGAGTCAGCC
AGGACCATACCGGTCTTGATTCAGTCACATGGCATGGTTTTGTGCCATCTGTAGCTATAATGAGCATG
TTTGCCTAGACAGCTTTTCTCAACTGGGTCCAGAAGAGAATTAAGCCCTAAGGCTTAAGGCATCTATC
TGTGCTAGGTTAAATGGTTGGCCCCAAAGATAGACAGGTCTGATTTCTAGAACCCTGACTGTTACT
TTATACAGCAAAGGAACTTTGCAGATGTGATTAAGCTAAGGACCTTAAGACAGAGTATCCTGGGGGT
GGTGGTGGGGTGGGGGGGGTCTAAATGTAATCACGAGTAAGATTAAGAGCAAATCAATTCTAGTCAT
ATATTAACATCCACAATAACCAAGATATTTTATCCCAAGAATGCAAGATTTTCAGAAAAATGAAAAATC
TGTTGATAAATCCATCACTATAATAAAACCGAAGGTGAAAAAATCTGAAAAAAAAAAAAAAAAAAAA
AAAAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

**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 µg dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_133482.1](#)

**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:**

59.7