

Product datasheet for **SC211975**

RAD51 (NM_001164270) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: RAD51 (NM_001164270) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: RAD51
Synonyms: BRCC5; FANCR; HRAD51; HsRad51; HsT16930; MRMV2; RAD51A; RECA
ACCN: NM_001164270
Insert Size: 1247 bp
Insert Sequence: >SC211975 3'UTR clone of NM_001164270
 The sequence shown below is from the reference sequence of NM_001164270. 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
CAAATCTACGACTCTCCCTGTCTTCCTGAAGCTGAAGCTATGTTCCGCTTAATGCAGATGGAGTGGG
AGATGCCAAAGACTGAATCATTGGGTTTTCTCTGTTAAAAACCTTAAGTGTGCTGCAGCCTAATGAGAG
TGCACTGCTCCCTGGGGTTCTCTACAGGCCTCTTCTGTTGTGACTGCCAGGATAAAGCTCCGGGAAA
ACAGCTATTATATCAGCTTTTCTGATGGTATAAACAGGAGACAGGTCAAGTACAAAAGTATCTAAA
ATGTTTATTCTTCTGTAGTGTATTAATCTCTGTGTGTTTTCTTTGGTTTTGGAGGAGGGGTATGAAGT
ATCTTTGACATGGTGCCTTAGGAATGACTTGGGTTAACAAGCTGTCTACTGGACAATCTTATGTTCC
AAGAGAACTAAAGCTGGAGAGACCTGACCCTTCTCTCACTTCTAAATTAATGGTAAAATAAAATGCCTC
AGCTATGTAGCAAAGGAATGGGCTGCACAGATTCTTTTTTTCTGTGAGTAAACTCTCAAGCAGGTT
TTTAAGTTGTCTGTCTGAATGATCTTGTGAAGGTTTTGGTTATGGAGTCTTGTGCCAAACCTACTAGG
CCATTAGCCCTTACCATCTACCTGCTTGGTCTTTTCATTGCTAAGACTAACTCAAGATAATCCTAGAGT
CTTAAAGCATTTACAGCCAGTGTGGTGTCTTGGCCTGTACTCCCAGCACTTTGGGAGGCCGAGGCAGG
TGGATCGCTTGAGCCAGGAGTTTTAAGTCCAGCTTGGCCAAGGTGGTGAATCCCATCTCTACAAAAA
ATGCAGAACTTAATCTGGACACACTGTTACACGTGCCTGTAGTCCAGCTACTCGATAGCCTGAGGTGG
GAGAATCACTTAAGCCTGGAAGGTGGAAGTTGCAGTGAAGTGCAGATTGCACTGCTGCATTCCAGCCAGG
GTGACAGAGTGAGACCATGTTTCAAACAAGAAACATTTACAGGGTAAGTAAACAGATTTGATTGTGAG
GCTTCTAATAAAGTAGTTATTAGTAGTGAATGTGCTGTTTATAGCAATTATTGCAGTGAAGCTATTTT
AAGACAGGGTTTTCCATAATCTTTTTGGCACTGTATAGGGGTGATCAGTTTCTGTTGCTTCAAGATTTGA
AACCAGAAAGGAAAGTCCCCTTGCAGATGATTGTGCTTAAAGCTAATGGAAAAATAAAAGAAAGACA
TACCA
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: Sgfl-Mlul



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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_001164270.2
Summary:	The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and <i>Saccharomyces cerevisiae</i> Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]
Locus ID:	5888
MW:	46.4