

## Product datasheet for **SC331648**

### **RAD54B (NM\_001205263) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RAD54B (NM_001205263) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD54B
Synonyms:	RDH54
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331648 representing NM\_001205263.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGATTTGTGGAAAAGAAATAGAAGTCATGGGTGTAATCTCTCCAGATGACTTCAGCAGTGGCAGGTGT
TTTCAGCTTGGAGGAGGAAGTACTGCTATCTCGCATTCTTCTCAGGTTGCCAGGAAATGTTTCTAAC
CCTTTCAAAGTGTGGTAAACCAAGTTCAAAGGAAAAAGACAGAATGATTTCCAAAATTGCAAACCA
CGCCATGACCCATATACGCCAAAATCCCTCGTTATGCCACGACCAGATAAGAATCACCAGTGGGTATTC
AATAAGAACTGTTCCCTCTTGGGATGTAGTGATTGATCCTTACCTTGTATATCATCTTCGACCACAT
CAGAAAAGAAGGAATCATATTCTTTATGAATGTGAATGGGAATGAGAATGAATGGCAGATGTGGAGCT
ATTCTTGCTGATGAAATGGGTTTAGGGAAGACATTGCAATGTATTTTCGCTCATCTGGACCCTGCAGTGT
CAGGGACCCTATGGAGGCAAGCCAGTAATAAAGAAGACACTAATTGTCACACCTGGAAGCTTGGTGAAT
AATTGGAAGAAAGAAATTTCAAATGGCTAGGAAGTGAAGGATCAAGATATTTACTGTTGATCAGGAC
CACAAAGTTGAAGAATTCATCAAGTCTATATTTTATTCTGTTCTTATTATCAGTTATGAAATGTTACTT
CGTTCCCTGGATCAAATTAAGAATATAAAATTTGATCTTCTAATCTGTGACGAGGGGCATCGTTTGAAG
AACAGTGCATTAAGACAACCTACAGCCCTATTAGCCTTTCTTGTGAGAAAAGAATAATTCTAACTGGT
ACTCCAATTGAGAATGATCTGCAAGAATTTTTTGCAATTAATTGATTTTGTAAATCCAGGAATATTAGGC
TCTTTGTCATCTTATAGGAAAATATATGAAGAACCCTATTTTTATCGAGAGAACCCTTCTGCTTCTGAG
GAAGAAAAGGAGTTAGGAGAAAAGAGCAGCTGAACTTACTTGCCTCACTGGACTCTTTATCCTTAGA
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GCACTACAGATTGAGCTTTATCGAAAGCTGTTAAATTCTCAGGTTGTGAGGTTCTGCCTCAAGGGTTG
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TTCAACTCTATAAAGGAAAAGGAATGTAGCTCAACTTGTGATAAAAATGAAGAAAAGAGTCTATACAAA
GGCTTGTAGTGTGTTTCTCTGCTGACTACAACCCTCTCCTGTTTACTGAAAAGGAGTCAAGAAAATA
CAGGTGTTGTCCAAGCTTTAGCGGTTATCCACGAACTTCGACCTACTGAAAAGGTGGTGTGGTATCC
AACTATACACAAAACCTTGAACATTTTACAAGAAGTATGTAAAGCGTCATGGATATGCTTATACAAGACTT
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TTTATTTTTTTGTTAAGTTCAAAGCTGGTGGTGTAGGACTTAACCTCATTGGAGGATCTCACTTAATT
CTCTATGACATTGATTGGAATCCAGCCACTGACATTGAGCAATGTCTAGAGTATGGAGAGATGGTCAG
AAATATCTGTACATATTACAGACTCCTAACTACAGGTACAATAGAAGAAAAGATCTATCAAAGGCAG
ATCAGTAAGCAAGGTCTTTGTGGGCAGTTGTCGACCTCACAAGACATCTGAACATATTCAGTTTTCA
GTAGAAGAACTTAAAAATTTGTTACATTACATGAAAGTTCAGATTGTGTTACTCATGATCTGCTTGAC
TGTGAGTGTACAGGAGAAGAAGTTCATACAGGTGATTCGTTGGAAAATTCATTGTCTCTAGAGATTGT
CAGCTTGGTCCACATCACCAGAAATCTAACTCCCTGAAACCTCTTTCTATGTCCAGCTGAAGCAATGG
AAACATTTTTCTGGAGATCATTTAAATCTTACAGATCCTTTTCTTGAAGAATAACAGAAAATGTGTCA
TTCATTTTTGAGAATATAACCACTCAAGCTACTGGCACA TAG
  
```

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001205263

**Insert Size:** 2181 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:**

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\\_001205263.1](#)

**RefSeq Size:** 3097 bp

**RefSeq ORF:** 2181 bp

**Locus ID:** 25788

**UniProt ID:** [Q9Y620](#)

**Cytogenetics:** 8q22.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Homologous recombination

**MW:** 82.4 kDa

**Gene Summary:** The protein encoded by this gene belongs to the DEAD-like helicase superfamily. It shares similarity with *Saccharomyces cerevisiae* RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays ATPase activity in the presence of DNA. This gene is highly expressed in testis and spleen, which suggests active roles in meiotic and mitotic recombination. Homozygous mutations of this gene were observed in primary lymphoma and colon cancer. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) lacks 5' several exons but uses an alternate 5' exon, and it thus differs in the 5' UTR and uses a downstream start codon, compared to variant 1. The encoded isoform (3) is shorter at the N-terminus, compared to isoform 1.