

## Product datasheet for **SC117863**

### **RAD54 (RAD54L) (NM\_003579) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RAD54 (RAD54L) (NM_003579) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD54
Synonyms:	hHR54; HR54; hRAD54; RAD54A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC117863 sequence for NM\_003579 edited (data generated by NextGen Sequencing)

```
ATGAGGAGGAGCTTGGCTCCCAGCCAGCTGGCCAAGAGAAAACCTGAAGGCAGGTCCTGT
GATGATGAAGACTGGCAACCTGGCCTAGTGACTCCTAGGAAACGGAAATCCAGCAGTGAG
ACCCAGATCCAGGAGTGTTCCTGTCTCCTTTTCGAAACCTTTGAGTCAGCTAACCAAT
CAACCACCTTGTCTGGACAGCAGTCAGCATGAAGCATTTATTGGAAGCATTTTGTCAAAG
CCTTTCAAAGTCCCCATTCCAAATTATCAAGGTCCTCTGGGCTCTCGAGCATTGGGCCTG
AAAAGGGCTGGGGTCCGCCGGGCCCTCCATGACCCCTGGAAAAAGATGCCTTGGTTCTG
TATGAGCCTCCCCGCTGAGCGCTCATGACCAGCTGAAGCTTGACAAGGAGAAAATCCCT
GTCCATGTGGTTGTTGACCTATTCTCAGTAAGGTTTTGCGGCCTCATCAGAGAGAGGGA
GTGAAATTCCTGTGGGAGTGTGTCACCAGTCGCGCATCCCTGGCAGCCATGGCTGCATC
ATGGCTGATGAGATGGGCTAGGAAAGACGCTGCAGTGCATCACATTGATGTGGACACTT
TTACGCCAGAGTCCAGAGTGAAGCCAGAAATTGACAAGGCAGTGGTGGTGTGCGCTTCC
AGCCTGGTGAAGAACTGGTACAATGAGGTTGGGAAATGGCTCGGAGGGAGGATCCAACT
CTGGCCATCGATGGAGGATCTAAGGATGAAATAGACCAAAAGCTGGAAGGATTATGAAC
CAGCGTGGAGCCAGGGTGTCTTCTCCATCCTCATCATTTCTATGAGACCTTCCGCCTT
CATGTTGGAGTCTCCAGAAAGGAAGTGTGGTCTGGTCAATATGTGACGAGGGACACAGG
CTCAAGAACTCTGAGAATCAGACTTACCAAGCCCTGGACAGCTTGAACACCAGCCGGCGG
GTGCTCATCTCCGGAACCTCCATCCAGAATGATCTGCTTGGTATTTTTCAGCTTGGTACAT
TTTGTTAATTCGGCATCCTAGGACTGCCATGAATTCAGAAGCATTTTGAATTGCCA
ATTTTGAAGGGTGCAGACGCTGCTGCTAGTGAGGCAGACAGGCAGCTAGGAGAGGAGCGG
CTGCGGGAGCTCACCAGCATTGTGAATAGATGCCTGATACGGAGGACTTCTGATATCCTT
TCTAAATATCTGCCTGTGAAGATTGAGCAGGTCGTTTGTGTAGGCTGACACCCCTCAG
ACTGAGTTATACAAGAGGTTTCTGAGACAAGCCAACCGCAGAAAGAAATTGCTTGAAGGC
AAGATGAGTGTGCTTCCCTTCTCCATCACCTCGCTAAAGAAGCTTTGTAATCATCCA
GCTCTAATCTATGATAAGTGTGTGGAAGAGGAGGATGGCTTGTGGGTGCCTTGGACCTC
TTCCCTCCTGGTTACAGCTCTAAGGCCCTGGAGCCCAGCTGTCAGGTAAGATGCTGGTC
CTGGATTATATTCTGGCGGTGACCCGAAGCCGTAGCAGTGACAAAGTAGTGTGGTGTGCG
AATTACACCCAGACTTTGGATCTCTTTGAGAAGCTGTGCCGTGCCGAAGGTAATATAC
GTCCGCTGGATGGCACGATGTCCATTAAGAAGCGAGCCAAGGTTGTAGAAGCTTCAAT
AGTCCATCGAGCCCTGACTTTGTCTTCTGCTGAGCAGCAAAGCTGGGGGCTGTGGCCTC
AATCTCATTGGGGCTAACCGGCTGGTCAATGTTTACCCTGACTGGAACCCAGCCAATGAT
GAACAAGCCATGGCCCGGTCTGGCGAGATGGTCAAAAGAAGACTTGCTATATCTACCGC
CTGCTGTCTGCAGGGACCATGAGGAGAAGATCTTCCAGCGTCAGAGCCACAAGAAGGCA
CTGAGCAGCTGTGTGGTGGATGAGGAGCAGGATGTAGAGCGCCACTTCTCTTGGGCGAG
TTGAAGGAGCTGTTTATCCTGGATGAAGCTAGCCTCAGTGACACACATGACAGGTTGCAC
TGCCGACGTTGTGTAACAGCCGTCAGATCCGGCCACCCCTGATGGTTCTGACTGCACT
TCAGACCTGGCAGGGTGAACCCTGCACTGATAAGTGGGGGCTCCGGGATGAGGTAATC
CAGGCTGCCTGGGATGCTGCCTCCACTGCCATCACCTTCGTCTTCCACCAGCGTTTCTCAT
GAGGAGCAGCGGGCCTCCGCTGA
```

Clone variation with respect to NM\_003579.3

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_003579 unedited            TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCTCGTCTCGGCT            TATTGGGGACGGCCACTCTCACAGTTTGGTTCCAAACACCAGTTCCTGGATGGATTCCCG            CCATCCATGCCCCCTCTTAATTAGCCGGTCTCTCAATAATGTAGCAGCCCCCTCTACA            GATTAGACCCTGGTCTACACTTTAGCCGCTGCCTGCTTTTGACCTTTGGCTCATGGGT            ACTTGACGTTTTAACTCCTAGGCCAGGATGAGGAGGAGCTTGGCTCCCAGCCAGCTGG            CCAAGAGAAAACCTGAAGGCAGGTCTGTGATGATGAAGACTGGCAACCTGGCCTAGTGA            CTCTAGGAAACGAAATCCAGCAGTGAGACCCAGATCCAGGAGTGTTCCTGTCTCCTT            TTCGAAACCTTTGAGTCAGCTAACCAATCAACCACCTTGTCTGGACAGCAGTCAGCATG            AAGCATTATTTCGAAGCATTGTCAAAGCCTTCAAAGTCCCCATTCCAAATTATCAAG            GTCCTCTGGGCTCTCGAGCATTGGGCCTGAAAAGGGCTGGGGTCCGCCGGGCCCTCCATG            ACCCCCTGAAAAAGATGCCTTGGTTCTGTATGAGCCTCCCCGCTGAGCGCTCATGACC            AGCTGAAGCTTGACAAGGAGAACTCCCTGTCCATGTGGTTGTTGACCCTATTCTCAGTA            AGGGTTTGGGCCTCATCAGAGAGAGGGAGTGAATTCCTGTGGGAGTGTGCACCAGTC            GGCGCATCCCTGGCAGCCATGGCTGCATCATGGCTGATGAGATGGCCTANGAAAGACGC            TGCAGTGCATCACATTGATGTGGACACNTTACGCCAGAGTCCAGAGTGAAGCANAAAT            GACAGGCAGTGGTGGTGTGCGCTTCCACCTGTG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003579 unedited            GGGGGTTTTGTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTAACCTTTTTCTTTT            TTTTAACCAAAAAGTTTTTCTTATAAAAATAAATTTGGGCAAACACCATGCAGCCCTTCT            TGATGATCTTCTCCACCAACAACAAAATCAACAGGCGCCCTGTGCGAGCAAGCGTCCCC            CCTTCCCCCTACCTCCTCCCTTTCAACACCTTACCCCCACCCACCTTCTCTCCCCC            CGTATGCCTCCTTTGCTCCCTTTTCCCCACCCCTCTCCCTCACCCCCAGTTCCCTC            GCACCTGACCGCCATCTCTCCCTCGCTTTCCTTCTCCTTCTCTCTCTCTCTCTCTCT            ATCCCCTCTTTTTTCTCCCCCCCCCCCCCCCCCTGTTCTTTTTCCCTTCTTGCTTACC            TTCCCTCCTCCCCCTCGTTTCGTTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT            CCACTTTCCTCACCTCCCCATCCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT            TATCTAACAACACACACTTCT            ACTACCCTTTCTGTGTTTTCT            CTCGGCCCT            CCACTCCACCTATCATCCCTCCTTATTNCACTACATACATTTTATAATTTCTTCTCTCT            GCGCAACTTTCTCCCTACCTCCCCTTATCCTCCGATATCAATTCTTAATACCAACGCCTT            ATGCAAACATTTATTTATATATTTCCACACTATCTCCCCGTCCATCCTCTCTTTTTTTCA            CTCACTCCATCTTTTTTTTCCCTCTCGTTGTACCACCATTCTGTCCCCACCACTCTCC            CCATTTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003579
<b>Insert Size:</b>	2820 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003579.2</a> , <a href="#">NP_003570.1</a>
<b>RefSeq Size:</b>	3107 bp
<b>RefSeq ORF:</b>	2244 bp
<b>Locus ID:</b>	8438
<b>UniProt ID:</b>	<a href="#">Q92698</a>
<b>Cytogenetics:</b>	1p34.1
<b>Domains:</b>	SNF2_N, DEAD, helicase_C
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Homologous recombination
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the DEAD-like helicase superfamily, and shares similarity with <i>Saccharomyces cerevisiae</i> Rad54, a protein known to be involved in the homologous recombination and repair of DNA. This protein has been shown to play a role in homologous recombination related repair of DNA double-strand breaks. The binding of this protein to double-strand DNA induces a DNA topological change, which is thought to facilitate homologous DNA pairing, and stimulate DNA recombination. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, Dec 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same isoform (1).</p>