

Product datasheet for **SC321690**

Rad51L1 (RAD51B) (NM_133509) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad51L1 (RAD51B) (NM_133509) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rad51L1
Synonyms:	R51H2; RAD51L1; REC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_133509.2
 GGGGAACTTGAAAGTTGGATGCTGCAGACCCGGCATGGGTAGCAAGAACTAAAACGAG
 TGGGTTTATCACAAAGAGCTGTGTGACCGTCTGAGTAGACATCAGATCCTTACCTGTCAGG
 ACTTTTTATGTCTTTCCCACTGGAGCTTATGAAGGTGACTGGTCTGAGTTATCGAGGTG
 TCCATGAACCTTATGTATGGTCAGCAGGGCTGTGCCCCAAAGATGCAAACGGCTTATG
 GGATAAAAGCACAAAGGTCTGCTGATTTCTCACCAGCATTCTTATCTACTACCCCTTCTG
 CTTTGGACGAAGCCCTGCATGGTGGTGTGGCTTGTGGATCCCTCACAGAGATTACAGGTC
 CACCAGGTTGTGGAAAACTCAGTTTTGTATAATGATGAGCATTGTGGCTACATTACCCA
 CCAACATGGGAGGATTAGAAGGAGCTGTGGTGTACATTGACACAGAGTCTGCATTTAGTG
 CTGAAAGACTGGTTGAAATAGCAGAATCCCGTTTTCCAGATATTTAACTGAAGAAA
 AGTTACTTTTGACAAGTAGTAAAGTTCATCTTTATCGGGAACACCTGTGATGAAGTTC
 TACAAAGGATTGAATCTTTGGAAGAAGAAATTATCTCAAAGGAATTAACCTGTGATTC
 TTGACTCTGTTGCTTCTGTGGTCAGAAAGGAGTTGATGCACAACTTCAAGGCAATCTCA
 AAGAAAGAAACAAGTCTTGGCAAGAGAGGCATCCTCCTTGAAGTATTTGGCTGAGGAGT
 TTTCAATCCCAGTTATCTTGACGAATCAGATTACAACCCATCTGAGTGGAGCCCTGGCTT
 CTCAGGCAGACCTGGTGTCTCCAGCTGATGATTTGTCCCTGTCTGAAGGCACTTCTGGAT
 CCAGCTGTGTGATAGCCGCACTAGGAAATACCTGGAGTCACAGTGTGAATACCCGGCTGA
 TCCTCCAGTACCTTGATTCAGAGAGAAGACAGATTCTTATTGCCAAGTCCCCTCTGGCTC
 CCTTACCTCATTTGTCTACACCATCAAGGAGGAAGGCCCTGGTCTTCAAGAGACAACAT
 TTTGCTCTGTACCCAAGCTGAACCTGAACCTGGGCTCCAGAAATCCTCCCACCTCAGCCTC
 CTGAGCAGCTAGGACTACAGATGTCCACCATAACCCAGCTAATTTTTAATTTTTGTAG
 AGGTGGGTCTCATTATGTTGCCAAGCTGATCTCAAACCTCTGGCTTCAAGAGATCCAC
 CCACCTCAGCCTCCCAAAGCGTAGGATTACAAGTATGAGACTTTGCCATTCCAATGAGA
 ATTTTGTCTTAGCAATCTCATCCAATGGCCACTGGAGATGTGTAGGGCCACAAGAAT
 GAGAAAGGGGCAATGGAGTGACAGGTGACCTGCTCAGGTGCCCTCCCCAGACCAAATG
 TCCCAGGCACACAGCCATGCCCTCCACCATGGAGTACATTTTCTCCCTGGCTTGTCTGT
 GAGCTAAAGGACCAGGGACGTGGAAACAGGAGGTGAACTAAGGCACCCCGCCACCCACTG
 TGGCAGCTTGAATTTCTGAGGCTGAGACAACTAGGATCCAGTAGCCTAGATTTTGCC
 CAGTTTCTCCACTGAGTATTTACTCAGTGCTCCTGAGCCGATGCCTTCCCCTCTGCCTAG
 ATGAACCACAGCATTTTGGTAAATGCCTCAGCATGTTAGGAGCGTGGAACGTTTATTCT
 CTTCCCTCCCAATTATCCACTCTAATGGAGCAGAACCTTACATGGAAAATCCTAAACAT
 GGAAGATGATTTAAAAATGATTCACCCTGGAATACATGCTTCCAGTTGCTTCTACAGTT
 TACCTTGCTAAAGGCATTTCCGCTTCTTTGCTGTTACAATAAGCTTGCCTGCCTTGAAGA
 AAAGAAGACCAGGGCCAAAGGAAATCAGTCAAGGGAGCCTGTTTTGTCTGAAATAATGC
 ATCTATGAACAAATGAATTGAGTATAACTGTCTTTTTACATCAGTGTCTTCTGTGGAATTA
 AGAGAACATCAAAGGCCACTCCTAGCTTGTAGTATGATTAATTTGCTCTTGTGTTGGAGC
 AAGGGTTGTGAAGTCTGTCTGGCCCATCAAATGACCAATGGCTTTAAGGAAGGACTAAG
 TGACTTATGACCAGAACAAGGGAGCAGCCTGAGTCAGTCTCCCCAGTGTCTACATTGTGT
 TATTTATACTAGCAAAAAAATAGACACAATAAATGTTTCGACCATATGGCATTGGTTAAA
 TTAACATCTATACGATGGAATACTAGATGGTCATTAATAATATGTGTGAGAAGAAGGCTT
 AATCTCATGGAAAGTGTTCACACCATATTATTAAGAGAAAAAACAGATTATAAAGCAA
 TATGCATACAATGTAGTAGTTCTGTAAGAAAAAAGTATTATGTGCATTTAACTGGAAAA
 ATATGTATAAAAAATGTTAACAGTGAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAA

Restriction Sites: Please inquire

ACCN: NM_133509

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_133509.2</u> , <u>NP_598193.2</u>
RefSeq Size:	2513 bp
RefSeq ORF:	1155 bp
Locus ID:	5890
UniProt ID:	<u>O15315</u>
Cytogenetics:	14q24.1
Protein Families:	Druggable Genome
Protein Pathways:	Homologous recombination
Gene Summary:	<p>The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are evolutionarily conserved proteins essential for DNA repair by homologous recombination. This protein has been shown to form a stable heterodimer with the family member RAD51C, which further interacts with the other family members, such as RAD51, XRCC2, and XRCC3. Overexpression of this gene was found to cause cell cycle G1 delay and cell apoptosis, which suggested a role of this protein in sensing DNA damage.</p> <p>Rearrangements between this locus and high mobility group AT-hook 2 (HMGA2, GeneID 8091) have been observed in uterine leiomyomata. [provided by RefSeq, Mar 2016]</p> <p>Transcript Variant: This variant (3) represents the longest transcript. It encodes the isoform (3) that has a distinct C-terminus, compared to isoform 1 and 2.</p>