

Product datasheet for **SC116058**

RAD51AP1 (NM_006479) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD51AP1 (NM_006479) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD51AP1
Synonyms:	PIR51
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116058 sequence for NM_006479 edited (data generated by NextGen Sequencing)

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ATGGTGGCCTGTGAGACATAAGAAACCAGTCAATTACTCACAGTTTGACCACTCTGAC
AGTGATGATGATTTTGTCTGCAACTGTACCTTTAAACAAGAAATCCAGAACAGCACCA
AAGGAGTTAAACAAGATAAACCAAAACCTAACTTGAACAATCTCCGAAAGAAGAAATC
CCAGTACAAGAGAAAACCCCTAAAAAAGGATGGCTTTAGATGACAAGCTCTACCAGAGA
GACTTAGAAGTTGCACTAGCTTTATCAGTGAAGGAACTCCAACAGTCACCACTAATGTG
CAGAACTCTCAAGATAAAAGCATTGAAAAACATGGCAGTAGTAAATAGAAACAATGAAT
AAGTCTCCTCATATCTCTAATTGCAGTGTAGCCAGTGATTATTTAGATTTGGATAAGATT
ACTGTGGAAGATGATGTTGGTGGTGTTC AAGGGAAAAGAAAAGCAGCATCTAAAGCTGCA
GCACAGCAGAGGAAGATTCTTCTGGAAGGCAGTGATGGTGATAGTGCTAATGACACTGAA
CCAGACTTTGCACCTGGTGAAGATTCTGAGGATGATTCTGATTTTTGTGAGAGTGAGGAT
AATGACGAAGACTTCTCCATGAGAAAAAGTAAAGTTAAAGAAATTAAGAAAGAAAGAGTG
AAGGTAATCCCGAGTAGAAAAGAAAGAGAAGAAATCTAAATCCAAATGTAATGCTTTG
GTGACTTCGGTGGACTCTGCTCCAGCTGCCGTCAAATCAGAAATCTCAGTCCTTGCCAAA
ANGGTTTCTCTGTCTTCAGATACCACTAGGAAACCATTAGAAATACGCAGTCCTTCAGCT
GAAAGCAAGAAACCTAAATGGGTCCCACCAGCGGCATCTGGAGGTAGCAGAAGTAGCAGC
AGCCCACTGGTGGTAGTGTCTGTGAAGTCTCCCAATCAGAGTCTCCGCCTTGGCTTGTC
AGATTAGCACGAGTTAAACCTTTGCATCCAATGCCACTAGCACCTGA

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Clone variation with respect to NM_006479.4
618 t=>c;782 a=>n



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006479 unedited</p> <pre>AAACCCGACTTATATAGGCGGCCGCGCAATTTCGCACGAGGAATTGAAACCGCCGCTGAAG CCAACAATAATTTGAGAACTGTAATAACCAAGCCTTGAAAGGGACCATGGTGC GGCCCTGT GAGACATAAGAAACCACTCAATTACTCACAGTTTGACCACTCTGCAGTGATGATGATTT TGTTTCTGCAACTGTACCTTTAACTATAAATCCAGAACAGCACCAAAGGAGTAAAAACA AGATAAACCAAAACCTA ACTTGAACAATCTCCGAAAGAAGAAATCCCAGTACAAGAGAA AACCCCTAAAAAAGGATGGCTTTAGATGACAAGCTCTACCAGAGAGACTTAGAAGTTGC ACTAGCTTTATCAGTGAAGGAACCTCCAACAGTCACTCAATGTGCAGAACTCTCAAGA TAAAAGCATTGAAAAACATGGCAGTAGTAAAATAGAAACAATGAATAAGTCTCCTCATAT CTCTAATTGCAGTGTAGCCAGTGATTATTTAGATTTGGATAAGATTACTGTGGAAGATGA TGTTGGTGGTGTTC AAGGAAAAGAAAAGCAGCATCTAAAGCTGCAGCACAGCAGAGGAA GATTCTTCTGGAAGGCAGTGATGGTGATAGTGCTAATGACACTGAACCAGACTTTGCACC TGGTGAAGATTCTGAGGATGATTCTGATTTTTGTGAGAGTGAGGATAATGACGAAGACTT CTCCATGAGAAAAAGTAAAGTTAAAGAAATTA AAAAGAAAAGAAAGTGAAGGTA AAAATCCCC AGTAGAAAAGAAAAGAGAAGAAATCTANTNCCAATGTATGCTTTGGTGACTTCGGTGGAC TCTGCTNCAGCTGCCGTCAATCAGAATCTCAGTCTTGCAAAAAAGGTTCTCTGTCTCAG ATACACTAGAACCATTANAATACGCAGTCTTCACTGAAGCAGAACTAATGGGTCCACC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006479 unedited</p> <pre>CCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAGACAAATGCTCACTTTAATCACA ATTCTAAATTAATTTTTCACATTAATATAGATTTTCCATAAACCAAGAAAAACTGAG TTATTATACATTTTTAACAGCTAACATGATTTGAAAATTTTTTATTA AAAATTTGATCAG AAGCTAGTTGAAATTTCTCAATGTAATATAAAAATATTCATTACAATTGTTTTTCAAAGTA AATTCAGATCTAAGCTTCTGAAAAGCTGACTATCTCATATCATAATAGGGATGACTAA GTACTTGACA ACTTTCTAAAGAACTTAACAAAAAGTGACTACTTGAAGATTACATTT ACAACAGAAAAGGCTAACATTTCTCTGCAGAGCTCTCATTTTATCATGAAATGTGGACAATC AGGAACACGTGGATGAGTGGTATCAAGAAAAAGGGCATTTCAAAAATTTCCACTTTTAT TAAAGTTTTGACAATGAAGATTTCAAAAAATGTCTTTAAATACTATTTTCTAGAGAATA ACCATCTAAATCGGAGACATATGCCATAAACTGCAACCATTNTAGTGTGTA AAAATAATT CTAAGTTTGTACTATAAAAAGATTTGGCTAAAAACAAAAACATCTTTGCGATAAAAAGTGA CAACGTAGCTTAAGTAGCTTATAAGATTTTCAAGAAATGTCTTCTGAAAGAAATAGAATGTT TTCTCTGCCAGATAANACTGAACAGTTAAAGTTAAAGTGCTATAAACTAGACAAAAGCTA GAAAGGCCATCATGTACCTAGAAAAGACAGCATGTGATGTGGACTTCATGTCGAACTGAT AGAAAACAAATACGCCCTCACAAGAAAGTATGAGAAGATATCTTATAACAACTCTCATGA GCCTTGAGAGTTACGGAAACTATCTTAAGGCTAAGGCTTTATAGAATGGAAGGATNCTTT ATTACAN</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006479
Insert Size:	2190 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_006479.2](#), [NP_006470.1](#)

RefSeq Size: 2143 bp

RefSeq ORF: 1008 bp

Locus ID: 10635

UniProt ID: [Q96B01](#)

Cytogenetics: 12p13.32

Protein Families: Druggable Genome

Gene Summary: May participate in a common DNA damage response pathway associated with the activation of homologous recombination and double-strand break repair. Functionally cooperates with PALB2 in promoting of D-loop formation by RAD51. Binds to single and double stranded DNA, and is capable of aggregating DNA. Also binds RNA.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.