

## Product datasheet for **SC320841**

### **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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_006479.2  
 GAAGCCAACAAGAATTTGAGAACTGTAATACCAAGCCTTGAAAGGGACCATGGTGCGGC  
 CTGTGAGACATAAGAAACCAGTCAATTACTCACAGTTTGACCACTCTGACAGTGATGATG  
 ATTTTGTCTGCAACTGTACCTTTAAACAAGAAATCCAGAACAGCACCAAGGAGTTAA  
 AACAAGATAAACCAAAACCTAATTGAACAATCTCCGAAAGAAGAAATCCCAGTACAAG  
 AGAAAAACCCTAAAAAAGGATGGCTTTAGATGACAAGCTCTACCAGAGAGACTTAGAAG  
 TTGCAC TAGCTTATCAGTGAAGGAACCTCCAACAGTCACCACTAATGTGCAGA ACTCTC  
 AAGATAAAAGCATTGAAAAACATGGCAGTAGTAAATAGAAACAATGAATAAGTCTCCTC  
 ATATCTCTAATTGCAGTGTAGCCAGTGATTATTTAGATTTGGATAAGATTACTGTGGAAG  
 ATGATGTTGGTGGTGTCAAGGGAAAAGAAAAGCAGCATCTAAAGCTGCAGCACAGCAGA  
 GGAAGATTCTTCTGGAAGGCAGTGATGGTGATAGTGCTAATGACACTGAACCAGACTTTG  
 CACCTGGTGAAGATTCTGAGGATGATTCTGATTTTTGTGAGAGTGAGGATAATGACGAAG  
 ACTTCTCTATGAGAAAAAGTAAAGTTAAAGAAATAAAAAGAAAGTGAAGGTAATAAT  
 CCCCAGTAGAAAAAGAGAAGAAATCTAAATCCAAATGTAATGCTTTGGTGACTTCGG  
 TGGACTCTGCTCCAGCTGCCGTCAAATCAGAATCTCAGTCCTTGCCAAAAAGGTTTCTC  
 TGCTTTCAGATACCACTAGGAAACCATTAGAAATACGCAGTCCTTCAGCTGAAAGCAAGA  
 AACCTAAATGGGTCCCACCAGCGGCATCTGGAGGTAGCAGAAGTAGCAGCAGCCACTGG  
 TGGTAGTGTCTGTGAAGTCTCCCAATCAGAGTCTCCGCCTTGGCTTGCCAGATTAGCAC  
 GAGTTAAACCTTTGCATCCAAATGCCACTAGCACCTGAGTGTGGTACAGGAGGAATGTTT  
 GGTTGGGAGAATCACAGCTTTACAAGGGTGTATATTTGATTTGTGTTTATATTTGAGG  
 CAGGATTTGTAATATAAAGGAATCCATTACCATGTCCTATAAATGACCTCTAGCCATTTT  
 ATGATTATGTTCTCTGTAAAACCTTTCAAGACTTCAATGAGAAGTTTGTTTATAAGAATT  
 ATCTTTCATACCTTTCTTTGTGAAGAGCGTATTCTGTTTTTCTATCAGTTCGACATGAA  
 GTCACATCACATGCTGTTCTTTTCTAGTTACATGATGTGCCTTCTAGCTTTGTCTAGT  
 TTATAGCACCTTAACTTTAACTGTTTATCTGGCAGAGGAAACATTCTTATTTCT  
 TTCAGAAGACATTTCTGAAATCTTATAAGCTACTTAAGCTACGTTGTCAGTTTTATCGCA  
 AAGATGTTTTGTATTTAGCCAAATCTTTTATAGTACAACTTAGAATTATTTACACA  
 CTAATAAGTTGCAGTTTTATGGCATAATGCTCCGATTTAGATGGTTGTTCTCTAGAAAA  
 TAGTATTTAAAGACATTTTATGAAATCTTATTGTCAAAACCTTAAATAAAGTGGAAAT  
 ATTTTGAATGCCCTTTTCTTGATACCACTCATCCACGTGTTCTGATTGTCCACATTT  
 CATGATAAAATGAGAGCTCTGCAGAGAATGTTAGCCTTTCTGTTGTAATGTAATCTTCA  
 AGTAGTCACTTTTGTAAAGTTCTTTAGAAAGTAGTTGTCAAGTACTTAGTCATCCCTAT  
 TATGATATGAGATAGTACAGCTTTTCAGGAAGCTTAGATCTGAATTTACTTTGAAAAACA  
 ATTGTAATGAATATTTTATATTTACATTGAGAATTTCAACTAGCTTCTGATCAATTTTTA  
 ATAAAAATTTTCAAATCATGTTAGCTGTTAAAAAATGTATAATAACTCAGTTTTTCTTG  
 GTTTATGGAAATATCTATATTAATGTGAAAAATAATTAATTTAGAATTGTGATTAAGTGA  
 GCATTTGTCTATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_006479

**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.

<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>	<u><a href="#">NM_006479.2</a></u> , <u><a href="#">NP_006470.1</a></u>
<b>RefSeq Size:</b>	2143 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	10635
<b>UniProt ID:</b>	<u><a href="#">Q96B01</a></u>
<b>Cytogenetics:</b>	12p13.32
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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.