

## Product datasheet for **SC324983**

### **RAD51AP1 (NM\_001130862) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAD51AP1 (NM_001130862) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD51AP1
Synonyms:	PIR51
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001130862, the custom clone sequence may differ by one or more nucleotides

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ATGGTGGCGCCTGTGAGACATAAGAAACCAAGTCAATTACTCACAGTTTGACCACTCTGAC
AGTGATGATGATTTTGTCTGCAACTGTACCTTTAAACAAGAAATCCAGAACAGCACCA
AAGGAGTTAAACAAGATAAACCAAAACCTAACTTGAACAATCTCCGAAAGAAGAAATC
CCAGTACAAGAGAAAACCCCTAAAAAAGACTCCCTGAAGGTACTTTTAGTATTCCAGCT
AGTGCAGTGCCTTGTACAAAGATGGCTTTAGATGACAAGCTCTACCAGAGAGACTTAGAA
GTTGCACTAGCTTTATCAGTGAAGGAAGTCCACAGTCACCACTAATGTGCAGAACTCT
CAAGATAAAAGCATTGAAAAACATGGCAGTAGTAAATAGAAACAATGAATAAGTCTCCT
CATATCTCTAATTGCAGTGTAGCCAGTGATTATTTAGATTTGGATAAGATTACTGTGGAA
GATGATGTTGGTGGTGTCAAGGAAAAGAAAAGCAGCATCTAAAGCTGCAGCACAGCAG
AGGAAGATTCTTCTGGAAGGCAGTGATGGTGATAGTGCTAATGACACTGAACCAGACTTT
GCACCTGGTGAAGATTCTGAGGATGATTCTGATTTTTGTGAGAGTGAGGATAATGACGAA
GACTTCTCTATGAGAAAAAGTAAAGTTAAAGAAATTAAGAAAGAAAGTGAAGGTAAAA
TCCCCAGTAGAAAAGAAAGAGAAGAAATCTAAATCCAAATGTAATGCTTTGGTGACTTCG
GTGGACTCTGCTCCAGCTGCCGTCAAATCAGAATCTCAGTCCTTGCCAAAAAAGGTTTCT
CTGTCTTCAGATACCACTAGGAAACCATTAGAAATACGCAGTCCTTCAGCTGAAAGCAAG
AAACCTAAATGGGTCCCACCGCATCTGGAGGTAGCAGAAGTAGCAGCAGCCCACTG
GTGGTAGTGTCTGTGAAGTCTCCAATCAGAGTCTCCGCCTTGGCTTGTCAGATTAGCA
CGAGTTAAACCTTTGCATCCAAATGCCACTAGCACC
  
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Restriction Sites:	Please inquire
ACCN:	NM_001130862
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).


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<b>OTI Annotation:</b>	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_001130862.1</a></u> , <u><a href="#">NP_001124334.1</a></u>
<b>RefSeq Size:</b>	2269 bp
<b>RefSeq ORF:</b>	1059 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>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>