

Product datasheet for **RC225525**

RAD51AP1 (NM_001130862) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAD51AP1 (NM_001130862) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RAD51AP1
Synonyms: PIR51
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC225525 representing NM_001130862
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGGCCCTGTGAGACATAAGAAACCAGTCAATTACTCACAGTTTGACCACTCTGACAGTGATGATG
ATTTTGTCTGCAACTGTACCTTTAAACAAGAAATCCAGAACAGCACCAAGGAGTTAAAAACAAGATAA
ACCAAAACCTAATTGAACAATCTCCGAAAGAAGAAATCCAGTACAAGAGAAAACCCCTAAAAAAGA
CTCCCTGAAGTACTTTTAGTATTCCAGCTAGTGCAAGTGCCTTGTACAAAGATGGCTTTAGATGACAAGC
TCTACCAGAGAGACTTAGAAGTTGCACTAGCTTTATCAGTGAAGGAACTCCAACAGTCACCACTAATGT
GCAGAACTCTCAAGATAAAAGCATTGAAAAACATGGCAGTAGTAAAAATAGAAACAATGAATAAGTCTCT
CATATCTCTAATTGCAGTGTAGCCAGTGATTATTTAGATTTGGATAAGATTACTGTGGAAGATGATGTTG
GTGGTGTCAAGGGAAAAGAAAAGCAGCATCTAAAGCTGCAGCACAGCAGAGGAAGATTCTTCTGGAAGG
CAGTGATGGTGATAGTGCTAATGACACTGAACCAGACTTGCACCTGGTGAAGATTCTGAGGATGATTCT
GATTTTTGTGAGAGTGAGGATAATGACGAAGACTTCTCTATGAGAAAAAGTAAAGTTAAAGAAATTA
AGAAAGAAGTGAAGTAAAATCCCCAGTAGAAAAGAAAAGAGAAGAAATCTAAATCCAAATGTAATGCTTT
GGTGACTTCGGTGGACTCTGCTCCAGCTGCCGTCAAATCAGAATCTCAGTCTTGCCAAAAAAGGTTTCT
CTGTCTTCAGATACCACTAGGAAACCTTAGAAAATACGCAGTCCTTCAGCTGAAAGCAAGAAACCTAAAT
GGGTCCCACCAGCGGCATCTGGAGGTAGCAGAAGTAGCAGCAGCCCACTGGTGGTAGTGTCTGTGAAGTC
TCCCAATCAGAGTCTCCGCTTGGCTTGTCCAGATTAGCACGAGTTAAACCTTTGCATCCAAATGCCACT
AGCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225525 representing NM_001130862
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MVRPVRHKKPVNYSQFDHSDSDDDFVSATVPLNKKSRAPKELKQDKPKPNLNNLRKEEIPVQEKTPKKR
 LPEGTF SIPASAVPCTKMALDDKLYQRDLEVALALSVKELPTVTTNVQNSQDKSIEKHGSSKIETMKNKSP
 HISNCSVASDYLDLTKITVEDDVGGVQGRKAASKAAAQQRKILLEGSDGDSANDTEPDFAPGEDSEDSS
 DFCESEDNDEDFSMRKS VKVEIKKKEVKVKS PVEKKEKSKSKCNALVTSVDSAPAAVKSESQSLPKKVS
 LSSDTRRPLEIRSPSAESKKPKWVPPAASGGSRSSSSPLVVVSVKSPNQSLRLGLSRLARVKPLHPNAT
 ST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

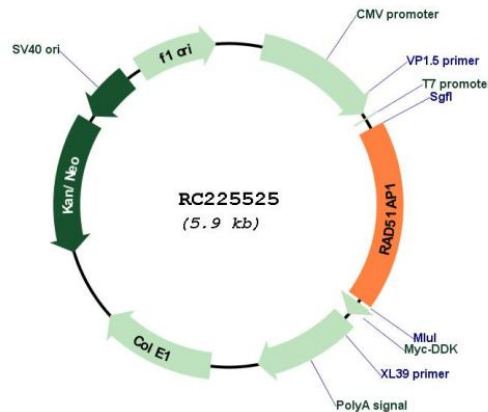
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001130862

ORF Size:	1056 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001130862.2
RefSeq ORF:	1059 bp
Locus ID:	10635
UniProt ID:	Q96B01
Cytogenetics:	12p13.32
Protein Families:	Druggable Genome
MW:	38.3 kDa
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]