

Product datasheet for RC202687

RAD51AP1 (NM_006479) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD51AP1 (NM_006479) 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:	>RC202687 representing NM_006479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGGCCCTGTGAGACATAAGAAACCAGTCAATTACTCACAGTTTGACCACTCTGACAGTGATGATG
ATTTTGTCTGCAACTGTACCTTTAAACAAGAAATCCAGAACAGCACCAAAGGAGTTAAAAACAAGATAA
ACCAAAACCTAATTGAACAATCTCCGAAAGAAGAAATCCAGTACAAGAGAAAACCCCTAAAAAAGG
ATGGCTTTAGATGACAAGCTCTACCAGAGAGACTTAGAAGTTGCACTAGCTTTATCAGTGAAGGAATTC
CAACAGTCACTAATGTGCAGAACTCTCAAGATAAAAGCATTGAAAAACATGGCAGTAGTAAATAGA
AACAAATGAATAAGTCTCCTCATATCTCTAATTGCAGTGTAGCCAGTGATTATTTAGATTTGGATAAGATT
ACTGTGGAAGATGATGTTGGTGGTGTCAAGGGAAAAGAAAAGCAGCATCTAAAGCTGCAGCACAGCAGA
GGAAGATCTTCTGGAAGGCAGTGATGGTGATAGTGCTAATGACACTGAACCAGACTTTGCACCTGGTGA
AGATTCTGAGGATGATTCTGATTTTTGTGAGAGTGAGGATAATGACGAAGACTTCTCTATGAGAAAAAGT
AAAGTTAAAGAAATTAAGAAAGAAAGTGAAGGTAATCCCAAGTAGAAAAGAAAGAGAAATCTA
AATCCAAATGTAATGCTTTGGTGACTTCGGTGGACTCTGCTCCAGCTGCCGTCAAATCAGAATCTCAGTC
CTTGCCAAAAAGGTTTCTGTCTTCCAGTACCAGTACCAGTACCAGTACCAGTACCAGTACCAGTACCAGT
GAAAGCAAGAAACCTAAATGGGTCACACAGCGCATCTGGAGGTAGCAGAAGTAGCAGCAGCCACTGG
TGGTAGTGTGTGAAGTCTCCAATCAGAGTCTCCGCCTTGGCTTGTCCAGATTAGCACGAGTTAAACC
TTTGCATCCAAATGCCACTAGCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202687 representing NM_006479
 Red=Cloning site Green=Tags(s)

MVRPVRHKKPVNYSQFDHSDSDDDFVSATVPLNKKSRTPKELKQDKPKPNLNNLRKEEIPVQEKTPKKR
 MALDDKLYQRDLEVALALSVKELPTVTTNVQNSQDKSIEKHGSSKIETMNKSPHISNCSVASYLDLDKI
 TVEDDVGGVQGRKAASKAAAQQRKILLEGSDGDSANDTEPDFAPGEDSEDDSDFCESDNDDEF SMRKS
 KVKEIKKKEVKVSPVEKKEKSKSKCNALVTSVDSAPAAVKSESQSLPKKVSLSDDTTRKPLEIRSPSA
 ESKKPKWVPPAASGGSRSSSSPLVVVSVKSPNQSLRLGLSRLARVKPLHPNATST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

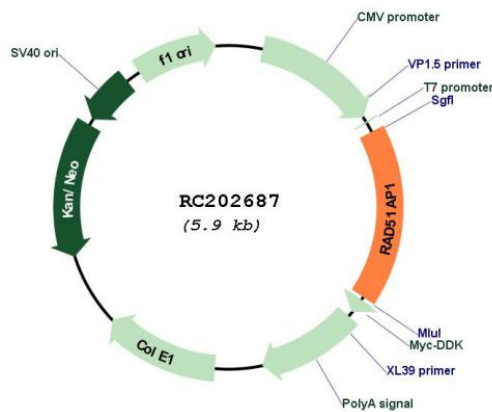
Chromatograms: https://cdn.origene.com/chromatograms/mg2392_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006479

ORF Size:	1005 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_006479.5
RefSeq Size:	2143 bp
RefSeq ORF:	1008 bp
Locus ID:	10635
UniProt ID:	Q96B01
Protein Families:	Druggable Genome
MW:	36.6 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]