

Product datasheet for **RG225525**

RAD51AP1 (NM_001130862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD51AP1 (NM_001130862) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAD51AP1
Synonyms:	PIR51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225525 representing NM_001130862 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGTGCGGCCTGTGAGACATAAGAAACCAGTCAATTACTCACAGTTTGACCACTCTGACAGTGATGATG
ATTTTGTTTCTGCAACTGTACCTTTAAACAAGAAATCCAGAACAGCACCAAGGAGTTAAAAACAAGATA
ACCAAAACCTAATTGAACAATCTCCGGAAGAAGAAATCCCAGTACAAGAGAAAACCCCTAAAAAAGA
CTCCCTGAAGGTACTTTTAGTATTCCAGCTAGTGCAGTGCCTTGACAAAGATGGCTTTAGATGACAAGC
TCTACCAGAGAGACTTAGAAGTTGCACTAGCTTTATCAGTGAAGGAACCTCCAACAGTCACCACTAATGT
GCAGAACTCTCAAGATAAAGCATTGAAAAACATGGCAGTAGTAAATAGAAACAATGAATAAGTCTCCT
CATATCTCTAATTGCAGTGTAGCCAGTGATTATTTAGATTTGGATAAGATTACTGTGGAAGATGATGTTG
GTGGTGTTCAAGGGAAGAAAGCAGCATCTAAAGCTGCAGCACAGCAGAGGAAGATTCTTCTGGAAGG
CAGTGATGGTGATAGTGCTAATGACACTGAACCAGACTTTGCACCTGGTGAAGATTCTGAGGATGATTCT
GATTTTGTGAGAGTGAGGATAATGACGAAGACTTCTCTATGAGAAAAAGTAAAGTTAAAGAAATTTAAA
AGAAAGAAGTGAAGGTAATCCCAAGTAGAAAAGAAAGAGAAGAAATCTAAATCCAAATGTAATGCTTT
GGTGACTTCGGTGGACTCTGCTCCAGCTGCCGTCAAATCAGAATCTCAGTCCTTGCCAAAAAAGGTTTCT
CTGTCTTCAGATACCACTAGGAAACCATAGAAATACGCAGTCCTTCAGCTGAAAGCAAGAAACCTAAAT
GGGTCCCACAGCGGCATCTGGAGGTAGCAGAAGTAGCAGCAGCCCACTGGTGGTAGTGTCTGTGAAGTC
TCCCAATCAGAGTCTCCGCCTTGCTTGTCCAGATTAGCACGAGTTAAACCTTTGCATCCAAATGCCACT
AGCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225525 representing NM_001130862
 Red=Cloning site Green=Tags(s)

MVRPVRHKKPVNYSQFDHSDSDDDFVSATVPLNKKSRTPKELKQDKPKPNLNNLRKEEIPVQEKTPKKR
 LPEGTFSSIPASAVPCTKMALDDKLYQRDLEVALALSVKELPTVTTNVQNSQDKSIEKHGSSKIETMNKSP
 HISNCSVASDYLDLDKITVEDDVGGVQGRKAASKAAQQRKILLEGSDGDSANDTEPDFAPGEDSEDSS
 DFCESEDNDEFMRKSKVKEIKKKVEVKVSPVEKKEKSKSKCNALVTSVDSAPAAVKSESQSLPKKVS
 LSSDTRRKPLEIRSPAESKKPKWYPPAASGGSRSSSSPLVVVSVKSPNQSLRLGLSRLARVKPLHPNAT
 ST

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001130862

ORF Size: 1056 bp

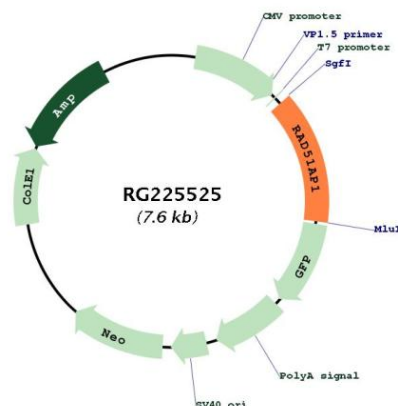
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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.

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:	<u>NM_001130862.2</u>
RefSeq Size:	2269 bp
RefSeq ORF:	1059 bp
Locus ID:	10635
UniProt ID:	<u>Q96B01</u>
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]

Product images:



Circular map for RG225525