

Product datasheet for **RG231696**

RAD54B (NM_001205262) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAD54B (NM_001205262) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAD54B
Synonyms: RDH54
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231696 representing NM_001205262
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGACGATCTGCAGCACCAAGTCAGTTGCAGGGGAATTCCTTCAAAAACCAAATTTATACCTCCAG
GAAGAAGTAATCCAGGTCTGAATGAAGAGATTACAAAACGAATCCAGATATAAAATTTTGAGGGTGT
TGCAATTAATAACACCTTCTCCCGTCACAAAATGATCTTAGAATATGCAGTTAAATCTGCCTAGTGAA
GAAAGTACTAGAGAAATCAATAACAGAGATAATTGCAGTGGAAAATATTGTTTTGAAGCACCTACACTGG
CAACATTAGATCCACCTCATACTAGTCAAACCTGGATGAGGAGGCACAGGCTGGTACCAGTTCACACTACAG
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

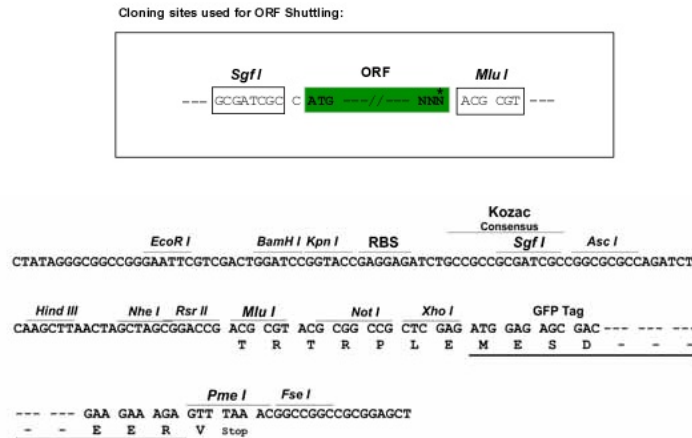
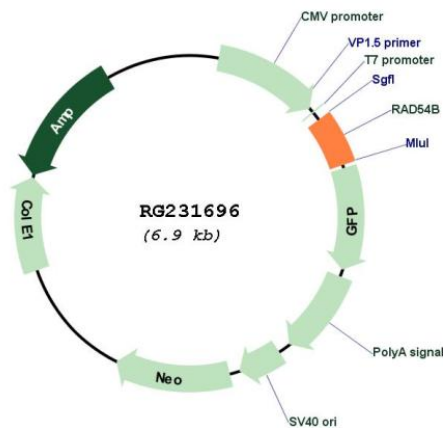
Protein Sequence: >RG231696 representing NM_001205262
Red=Cloning site **Green**=Tags(s)
MRRSAAPSQLQGNSFKKPKFIPPGRSNPGLNEEITKLNPDIKLFEGVAINNTFLPSQNDLRICSLNLPSE
ESTREINNRDNC SGKYCFEAPTLATLDPHTVQTWMRRHRLVPVHYR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001205262

ORF Size: 351 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.
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_001205262.3
RefSeq Size:	5380 bp
RefSeq ORF:	354 bp
Locus ID:	25788
UniProt ID:	O95073
Cytogenetics:	8q22.1
Protein Families:	Druggable Genome
Protein Pathways:	Homologous recombination
Gene Summary:	The protein encoded by this gene belongs to the DEAD-like helicase superfamily. It shares similarity with <i>Saccharomyces cerevisiae</i> RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays ATPase activity in the presence of DNA. This gene is highly expressed in testis and spleen, which suggests active roles in meiotic and mitotic recombination. Homozygous mutations of this gene were observed in primary lymphoma and colon cancer. [provided by RefSeq, Jul 2008]