

Product datasheet for **RG204176**

RAD51D (NM_002878) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAD51D (NM_002878) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RAD51D
Synonyms: BROVCA4; R51H3; RAD51L3; TRAD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204176 representing NM_002878
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGAGATGATCCAGCTTCTCAGGAGCCACA
GGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGCTCAGAAATGTGGCTTGTCTTA
CAAGGCCCTGGTTGCCCTGAGGCGGGTGTCTGGCTCAGTTCTCGGCTTCCCCGTAATGGCGCTGAT
CTCTACGAGGAAGTGAAGACCTCCACTGCCATCCTGTCCACTGGCATTGGCAGTCTTGATAAACTGCTTG
ATGCTGGTCTCTATACTGGAGAAGTGACTGAAATTGTAGGAGGCCAGGTAGCGGCAAACTCAGGTATG
TCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGCAAACGTCCTATATGTAGATTCCAATGGAGGG
CTGACAGCTTCCCGCCTCCTCCAGCTGCTCAGGCTAAAACCCAGGATGAGGAGGAACAGGCAGAAGCTC
TCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGG
CACTGTGGCCAGCAGGTGACTGGTTCTCAGGAAGTGTGAAGGTGGTGGTTGTGGACTCGGTCCTGCG
GTGGTTTCCCACTTCTGGGAGGTGAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGCTGGCCCGAGAGC
TGAAGACCCTGGCCCGGACCTTGGCATGGCAGTGGTGGTACCAACACATAACTCGAGACAGGGACAG
CGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTGTGCCAGCACTCGGATTCTCCTGGACACC
ATCGAGGAGCAGGAGCATCAGGCGGCCGCGCATGGCGTGTCTGGCCAAATCTTCCGACAGCCAACAG
GTTTCCAGGAGATGGTAGACATTGGGACCTGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCA
GACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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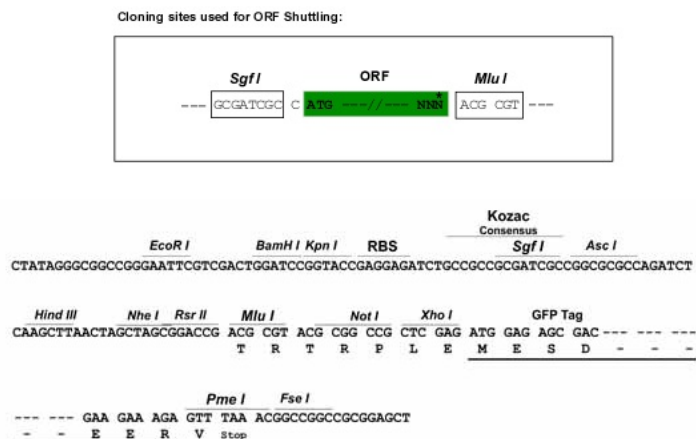
Protein Sequence: >RG204176 representing NM_002878
Red=Cloning site Green=Tags(s)

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKALVALRRVLLAQFSAFPVNGAD
 LYEELKTSTAILSTGIGSLDKLLDAGLYTGEVTEIVGGPGSGKTQVCLMAANVAHGLQQNVLYVDSNGG
 LTASRLLQLLQAKTQDEEEQAEALRRIQVVHAFDIFQMLDVLQELRGTVAQQVTGSSGTVKVVVDSVTA
 VVSPLLGGQQREGLALMMQLARELKTARLDLGMVVVVTNHITRDRDSGRLKPALGRSWSFVPSTRILLDT
 IEGAGASGGRRMACLAKSSRQPTGFQEMVDIGTWGTSEQSATLQGDQT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002878

ORF Size: 984 bp

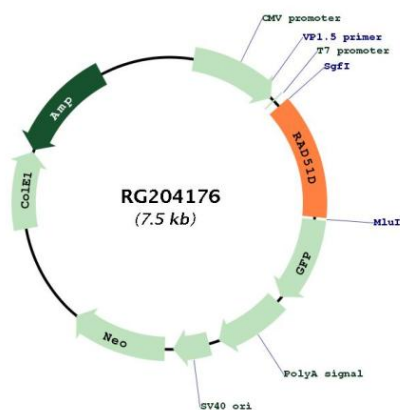
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_002878.4
RefSeq Size:	1849 bp
RefSeq ORF:	987 bp
Locus ID:	5892
UniProt ID:	O75771
Cytogenetics:	17q12
Domains:	ENDO3c, AAA
Protein Families:	Druggable Genome
Protein Pathways:	Homologous recombination
Gene Summary:	<p>The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and <i>Saccharomyces cerevisiae</i> Rad51, which are known to be involved in the homologous recombination and repair of DNA. This protein forms a complex with several other members of the RAD51 family, including RAD51L1, RAD51L2, and XRCC2. The protein complex formed with this protein has been shown to catalyze homologous pairing between single- and double-stranded DNA, and is thought to play a role in the early stage of recombinational repair of DNA. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the downstream ring finger and FYVE-like domain containing 1 (RFFL) gene. [provided by RefSeq, Jan 2011]</p>

Product images:



Circular map for RG204176