

Product datasheet for **SC325802**

RAD51D (NM_001142571) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAD51D (NM_001142571) Human Untagged Clone
Tag: Tag Free
Symbol: RAD51D
Synonyms: BROVCA4; R51H3; RAD51L3; TRAD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC325802 representing NM_001142571.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

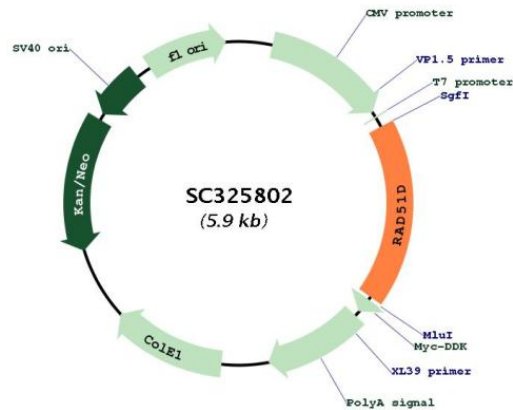
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGTGCTCAGGGTGGACTGTGCCCTGGCCTTACCGAGGAGATGATCCAGCTTCTCAGGAGCCAC
AGGATCAAGACAGTGGTGGACTGGTTTCTGCAGACCTGGAAGAGGTAGCTCAGAAATGTGGCTTGTCT
TACAAGACATGGAGGGCGCACTCAAGTGGGAACCTGGGAGGACTGCAGCTGCCTCAGGTCCCGCAGGG
AGATCGTGGAGTGGGGTCAAGAAATGCTCTGAAGAAGGCAGGACTTGGGCATGGAGGAACAGATGGACTT
TCGCTGAATGCTTTCGATGAACGAGGCACTGCGGTGAGCACTTACGCTTGTATAAACTGCTTGATGCT
GGTCTCTATACTGGAGAAGTACTGAAATGTAGGAGGCCAGGTAGCGGCAAACTCAGGTATGTCTC
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CGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGC
ACTGTGGCCAGCAGGTGACTGGTTCTTCCAGAACTGTGAAGGTGGTGGTGTGGACTCGGTCACTGCG
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CTGAAGACCCTGGCCCGGACCTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACAGGGAC
AGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTGTGCCAGCACTCGGATTCTCCTGGAC
ACCATCGAGGGAGCAGGAGCATCAGGCGCCGGCGCATGGCGTGTGGCCAAATCTTCCGACAGCCA
ACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGACCTCAGAGCAGAGTGCCACATTACAGGGT
GATCAGACATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001142571

Insert Size: 1047 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_001142571.1](#)

RefSeq Size: 2478 bp

RefSeq ORF: 1047 bp

Locus ID: 5892

UniProt ID: [O75771](#)

Cytogenetics: 17q12

Protein Families: Druggable Genome

Protein Pathways: Homologous recombination

MW: 37 kDa

Gene Summary: The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and *Saccharomyces cerevisiae* 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]

Transcript Variant: This variant (6) lacks an in-frame exon but instead includes a different in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (6) is longer than isoform 1.