

Product datasheet for **SC321013**

RAD51C (NM_058216) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAD51C (NM_058216) Human Untagged Clone
Tag: Tag Free
Symbol: RAD51C
Synonyms: BROVCA3; FANCO; R51H3; RAD51L2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_058216.1
 GGGGGACGT CACGCCG CACGCCCCAGCGAGGGCGT GCGGAGTTGGCTGCTCCGGGGTTA
 GCAGGTGAGCCTGCGATGCGCGGGAAGACGTTCCGCTTTGAAATGCAGCGGGATTGGTG
 AGTTTTCCCGCTGTCTCCAGCGGTGCGGGTGAAGCTGGTGTCTGCGGGTTCCAGACTGT
 GAGGAACCTCTAGAGGTGAAACCCTCCGAGCTTAGCAAAGAAGTTGGGATATCTAAAGCA
 GAAGCCTTAGAACTCTGCAATTATCAGAAGAGAATGTCTCACAAATAAACCAAGATAT
 GCTGGTACATCTGAGTCACACAAGAAGGTACAGCACTGGAACCTCTTGAGCAGGAGCAT
 ACCCAGGGCTTCATAATCACCTTCTGTT CAGCACTAGATGATATTCTTGGGGTGGAGTG
 CCCTTAATGAAAACAACAGAAATTTGGTGTGCACCAGGTGTTGGAAAAACACAATTATGT
 ATGCAGTTGGCAGTAGATGTGCAGATACCAGAATGTTTTGGAGGAGTGGCAGGTGAAGCA
 GTTTTTATTGATACAGAGGGAAGTTTTATGGTTGATAGAGTGGTAGACCTTGCTACTGCC
 TGCATTAGCACCTTCAGCTTATAGCAGAAAAACAAGGGAGAGGAACACCGAAAAGCT
 TTGGAGGATTTCACTCTTGATAATATTCTTTCTCATATTTATTATTTTCGCTGTCGTGAC
 TACACAGAGTTACTGGCACAAGTTTATCTTCTCCAGATTTCTTTCAGAACACTCAAAG
 GTTCGACTAGTGATAGTGGATGGTATTGCTTTTCCATTTCTGTCATGACCTAGATGACCTG
 TCTCTTCTGACTCGGTTATTAATGGCCTAGCCAGCAAATGATCAGCCTTGCAAATAAT
 CACAGATTAGCTGAATTTTAACCAATCAGATGACAACAAAGATTGATAGAAATCAGGCC
 TTGCTTGTTCCTGCATTAGGGGAAAGTTGGGGACATGCTGCTACAATACGGCTAATCTTT
 CATTGGGACCGAAAGCAAAGTTGGCAACATTGTACAAGTCACCCAGCCAGAAGGAATGC
 ACAGTACTGTTTCAAATCAAACCTCAGGGATTTAGAGATACTGTTGTTACTTCTGCATGT
 TCATTGCAAACAGAAGTTCTTCTGAGCACCCGGAACGGTCACGAGACCCAGAGGAAGAA
 TTATAACCCAGAAACAAATCTCAAAGTGTACAAATTTATTGATGTTGTGAAATCAATGTG
 TACAAGTGGACTTGTTACCTTAAAGTATAAATAAACACACTATGGCACGAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire



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ACCN:	NM_058216
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:	<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_058216.1 , NP_478123.1
RefSeq Size:	1295 bp
RefSeq ORF:	1131 bp
Locus ID:	5889
UniProt ID:	O43502
Cytogenetics:	17q22
Protein Families:	Druggable Genome
Protein Pathways:	Homologous recombination
Gene Summary:	<p>This gene is a member of the RAD51 family. RAD51 family members are highly similar to bacterial RecA and <i>Saccharomyces cerevisiae</i> Rad51 and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with other RAD51 paralogs and is reported to be important for Holliday junction resolution. Mutations in this gene are associated with Fanconi anemia-like syndrome. This gene is one of four localized to a region of chromosome 17q23 where amplification occurs frequently in breast tumors. Overexpression of the four genes during amplification has been observed and suggests a possible role in tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) is the longest transcript and encodes the longer isoform (1).</p>