

## Product datasheet for **SC109706**

### **RAD51D (NM\_002878) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAD51D (NM_002878) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD51D
Synonyms:	BROVCA4; R51H3; RAD51L3; TRAD
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002878, the custom clone sequence may differ by one or more nucleotides

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ATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGAGATGATCCAGCTTCTCAGGAGCCACA
GGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGCTCAGAAATGTGGCTTGTCTTA
CAAGGCCCTGGTTGCCCTGAGGCGGGTGTGCTGGCTCAGTTCTCGGCTTCCCCGTGAATGGCCTGAT
CTCTACGAGGAAGTGAAGACCTCCACTGCCATCCTGTCCACTGGCATTGGCAGTCTTGATAAACTGCTTG
ATGCTGGTCTCTATACTGGAGAAGTACTGAAATTGTAGGAGGCCAGGTAGCGGCAAACTCAGGTATG
TCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGCAAACGTCTATATGTAGATTCCAATGGAGGG
CTGACAGCTTCCCGCCTCCTCCAGCTGTTCAGGCTAAAACCCAGGATGAGGAGGAACAGGCAGAAGCTC
TCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGG
CACTGTGGCCAGCAGGTGACTGGTTCTTCAAGAACTGTGAAGGTGGTGGTTGTGGACTCGGTCCTGCG
GTGGTTTCCCCACTTCTGGGAGGTGAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGCTGGCCCGAGAGC
TGAAGACCCTGGCCCGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACAGGGACAG
CGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTGTGCCAGCACTCGGATTCTCCTGGACACC
ATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTCCCGACAGCCAACAG
GTTTCCAGGAGATGGTAGACATTGGGACCTGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCA
GACATGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002878 unedited NGGTTTCAGATTATGTATACGACTCACTATAGGGCGGCCGGAATCGGCACCAGCCTGTGT CCTCTCTAGGAAGGGGTAGGGGAGGGCGTCTGGAGAGGACCCCCGGAATGCCACGT GACGTGCAGTCCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCG GACTGTGCCCTGGCCTTACCGAGGAGATGATCCAGCTTCTCAGGAGCCACAGGATCAAGA CAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGCTCAGAAATGTGGCTTGCTT ACAAGGCAGAAGCTCTCCGAGGATCCAGGTGGTGCATGCATTTGACATCTCCAGATGC TGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCAGCAGGTGACTGGTTCTTCAGGAA CTGTGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCTTCTGGGAGGTC AGCAGAGGGAAGGCTTGGCCTTGATGATGCAGCTGGCCGAGAGCTGAAGACCCTGGCCC GGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACAGGGACAGCGGGA GGCTCAAACCTGCCCTCGGACGCTCCTGGAGCCTTTGTGCCAGCACTCGGATTCTCTG GACACCATCGAGGGAGCAGGAGCATCAGGCCGCCGCGCATGGCGTGTCTGGCCAAATC TTCCCAGACGCAACAGGGTTTCAGGAGATGGTAGACATTGGGACCTGGGGACCTCACA GCAGAGGCCACATTCCAGGGTATCACACCTGACCTGTCTGCTGTTTGGGAAACAGGG AACCATTGCCGACCCCTCCACCTTCTTCCCACAACGCTCGCCGCTCACTGCCCTGGC CTGGGGCCCAAACGTTCTCACGGCTGCCCAAACAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002878
<b>Insert Size:</b>	3240 bp
<b>OTI Disclaimer:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_002878.2</a> , <a href="#">NP_002869.2</a>
<b>RefSeq Size:</b>	1849 bp
<b>RefSeq ORF:</b>	987 bp
<b>Locus ID:</b>	5892
<b>UniProt ID:</b>	<a href="#">O75771</a>
<b>Domains:</b>	ENDO3c, AAA
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Homologous recombination

**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 (1, also known as TRAD) encodes isoform 1.