

Product datasheet for **SC325194**

RAD21L1 (NM_001136566) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	RAD21L1
Synonyms:	dJ545L17.2; RAD21L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC325194 representing NM_001136566.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTCTACACACATGTGCTTATGAGTAAACGAGGGCCATTGGCCAAAATATGGCTTGCAGCTCACTGG
GAGAAGAACTCAGAAAGGCCATGATTTGAATGTAATCTAGAGATAACCATTTGAAAAATTTCTTCA
CCCAAGGTGAAAAAGCACTTCGAACCTCAGGACACCTTCTTTGGGAGTTGTTTGAATCTATAACAGG
AAGGCAAAATATCTTTGGCAGATTGCAGTGAAGCATTTCTTAAAAATGAAGATGACATTTTGCCAGGA
CTGGTTGACCTTCCAAAAGAGAATTTGAAGCATCTTACAATGCTATCACATTGCCAGAAGAATTTTCA
GATTTTGACACCCAAAATATGAATGCTATTGATGTTTCAGAACCTTTACTCAGAACCAAGCAGACCA
GAAGAAATCACTCTTAGAGAAAAATTTGACAATGATCTAATTTTCCAAGCTGAGAGCTTTGGGGAGGAA
TCTGAAATTTCTCAGAAGACATAGCTTCTTTGATGACAACATATTACTGAATTCAGTGGTCTTTAATT
GAACATAGTTCTGGAAGCCTCACTGGAGAACGATCTCTATTCTATGACAGTGGAGATGGGTTTGGAGAT
GAAGGAGCTGCAGGAGAAATGATTGACAATCTATTGCAAGATGATCAGAATATCCTGTTAGAAGACATG
CATTTGAACAGAGAAAATTTCCCTGCCCTTCTGAGCCTCCAATAGTTTAGCAGTTGAACCAGATAACTCA
GAGTGTATATGTGTACCTGAAAATGAAAAATGAATGAAACAATATTATTATCAACTGAAGAGGAAGGA
TTTACCCTTGATCCAATTGATATTTGACACATTGCTGAGAAAAGGAAAGGCAAAAAGAGGAGATTGCTC
ATAGATCCTATCAAGGAGCTCAGTAGCAAGTTATACATAAACAGCTTACTTCTTTGCGGACACACTC
ATGGTTTTGGAACCTTGACCTCTACCCAAAGATTGATGATGTGGAAGAAGAGGGGAGGAGTGCATACA
CTTCTGTCAACTGCTGCCAGGATTGATTGATGCTGAAGTGAAGTGTGTTTACAAAATGCTTTCTG
TCCTCTGGCTTTAACTTGAAGAAAAATGATACAGAAGGAGTCAAGGGAAGAAGTGGGAAACCA
AATATAGTAGACATCCATGATGCAAGAGCCAAATTACCAGCAAGAGTTAAGTAAACCCCAACTTGG
AAGGATGTGATTGGTGGATCTCAGCATAGCTCTCATGAGGATACCAATAAAAAATTAATCTGAGCAG
GATATTGTTGAAATGGTGTCTTTAGCTGCTGAGGAATCATCTTTAATGAATGACTTATTTGCACAAGAA
ATTGAATATAGTCCAGTTGAATTGGAGTCATTGAGCAATGAAGAAAATATTGAGACAGAGAGATGGAAT
GGAAGAATACTTCAGATGTTAAATCGTTTACGGGAATCTACAAGATGGAATGCAGTCTTTAGTCTG
ATGAAGCTCTGTAGAAATAGTGACCGAAAAACAAGCAGCTGCCAAATTTTATAGCTTTCTTGTCTAAAG
AAACAGCTGGCTATTGAGCTGAGCCAGAGTGCTCCCTATGCAGATATTATAGTACGATGGGACCAATG
TTTTATAACATATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
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Restriction Sites:

SgfI-MluI

ACCN:

NM_001136566

Insert Size:

1671 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001136566.2</u>
RefSeq Size:	1808 bp
RefSeq ORF:	1671 bp
Locus ID:	642636
UniProt ID:	<u>Q9H4I0</u>
Cytogenetics:	20p13
MW:	63.3 kDa
Gene Summary:	Meiosis-specific component of some cohesin complex required during the initial steps of prophase I in male meiosis. Probably required during early meiosis in males for separation of sister chromatids and homologous chromosomes. Replaces RAD21 in premeiotic S phase (during early stages of prophase I), while RAD21 reappears in later stages of prophase I. Involved in synaptonemal complex assembly, synapsis initiation and crossover recombination between homologous chromosomes during prophase I (By similarity).[UniProtKB/Swiss-Prot Function]