

Product datasheet for **RC226843**

RAD21L1 (NM_001136566) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD21L1 (NM_001136566) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAD21L1
Synonyms:	dj545L17.2; RAD21L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226843 representing NM_001136566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCTACACATGTGCTTATGAGTAAACGAGGGCCATTGGCCAAAATATGGCTTGCAGCTCACTGGG
 AGAAGAACTCACAAAGGCCATGTATTTGAATGTAATCTAGAGATAACCATTGAAAAAATCTTTCCACC
 CAAGGTGAAAATAGCACTTCGAACCTCAGGACACCTTCTTTGGGAGTTGTTTCAATCTATAACAGGAAG
 GCAAAATATCTTTGGCAGATTGCAGTGAAGCATTCTTAAAAAGAGATGACATTTGCCAGGACTGG
 TTGACCTTCCAAAAGAGAATTTGAAGCATCTTACAATGCTATCACATTGCCAGAAGAATTCATGATTT
 TGACACCCAAAATATGAATGCTATTGATGTTTCAAGCTGAGAGCTTTGGGGAGGAATCTGAAA
 ATCACTCTTAGAGAAAATTTGACAATGATCTAATTTTCAAGCTGAGAGCTTTGGGGAGGAATCTGAAA
 TTCTCAGAAGACATAGCTTCTTTGATGACAACATATTACTGAATCCAGTGGTCTTTAATTGAACATAG
 TTCTGGAAGCCTCACTGGAGAACGATCTCTATTCTATGACAGTGGAGATGGGTTTGGAGATGAAGGAGCT
 GCAGGAGAAAATGATTGACAATCTATTGCAAGATGATCAGAATATCCTGTTAGAAGACATGCATTTGAACA
 GAGAAATTTCCCTGCCTTCTGAGCCTCCAATAGTTTAGCAGTTGAACCAGATAACTCAGAGTGTATATG
 TGTACCTGAAAATGAAAAATGAATGAAACAATATTATTATCAACTGAAGAGGAAGGATTTACCTTGAT
 CCAATTGATATTTAGACATTGCTGAGAAAAGGAAAGGCAAAAAGAGGAGATTGCTCATAGATCCTATCA
 AGGAGCTCAGTAGCAAAGTTATACATAAACAGCTTACTTCTTTGCGGACACACTCATGGTTTTGGAAC
 TGCACCTCCTACCAAAGATTGATGATGTGAAGAAGAGGGGAGGAGTGCATACACTTCTGTCAACTGCT
 GCCCAGGATTTGATTCATGCTGAACTGAAAATGTTGTTTACAAAATGCTTTCTGTCTCTGGCTTTAAAC
 TTGGAAGAAAAATGATACAGAAGGAGTCAAGTAAAGGAAGAAGTGGAAACCAAAAATAGTAGAGACATC
 CATGATGCAAGAGCCAAATTACCAGCAAGAGTTAAGTAAACCCCAAACTTGAAGGATGTGATTGGTGGA
 TCTCAGCATAGCTCTCATGAGGATACCAATAAAAAATTAACCTGAGCAGGATATTGTTGAAATGGTGT
 CTTTAGCTGCTGAGGAATCATCTTTAATGAATGACTTATTTGCACAAGAAATGAATATAGTCCAGTTGA
 ATTGGAGTCATTGAGCAATGAAGAAAATATTGAGACAGAGAGATGGAATGGAAGAATACTTCAGATGTTA
 AATCGTTTACGGGAATCTAACAAGATGGGAATGCAGTCTTTAGTCTGATGAAGCTCTGTAGAAATAGTG
 ACCGAAAACAAGCAGCTGCCAAATTTTATAGCTTTCTGTCTAAAGAAACAGCTGGCTATTGAGCTGAG
 CCAGAGTGCTCCCTATGCAGATATTATAGCTACGATGGGACCAATGTTTTATAACATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226843 representing NM_001136566
 Red=Cloning site Green=Tags(s)

MFYTHVLMMSKRGPLAKIWLAAHWEKCLKAHVFEKNLEITIEKILSPKVKIALRTSGHLLLGVVRIYNRK
 AKYLLADCSEAFMKMFTFCPLVDLPKENFEASYNAITLPEEFHDFDTQNMNAIDVSEHFTQNQSRPEE
 ITLRENFNDLIFQAESFGESEILRRHSFFDDNILLNSSGPLIEHSSGSLTGERSLFYDSGDGFDEGA
 AGEMIDNLLQDDQNILLEDMHLNREISLPSEPPNSLAVEPDNSECICVPENKMNETILLSTEEEGFTLD
 PIDISDIAEKRRGKRRLLIDPIKELSSKVIHKQLTSFADTLMVLELAPPTQRLMMWKKRGGVHTLLSTA
 AQDLIAELKMLFTKCFLLSSGFKLGRKMIQKESVREEVGNQIVETSMMQEPNYQQELSKPQTKVDVIGG
 SQHSSHEDTNKNINSEQDIVEMVSLAAEESLMNDLFAQEI EYSPVELESLSNEENIETERWNGRILQML
 NRLRESNKMGMQSFSLMKLCRNSDRKQAAAFYSFLVLLKQLAIELSQSAPYADI IATMGPMFYNI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8103_c08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001136566

ORF Size: 1668 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:

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_001136566.3](#)

RefSeq Size: 1808 bp

RefSeq ORF: 1671 bp

Locus ID: 642636

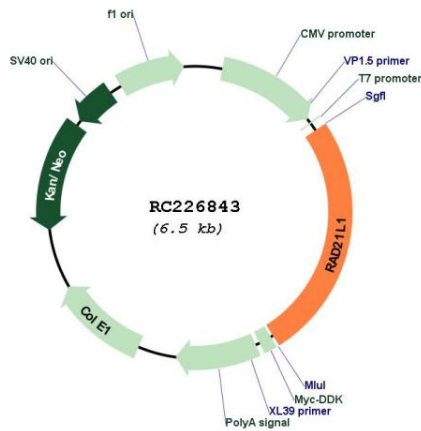
UniProt ID: [Q9H4I0](#)

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]

Product images:



Circular map for RC226843