

Product datasheet for **RG226843**

RAD21L1 (NM_001136566) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RAD21L1
Synonyms:	dJ545L17.2; RAD21L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG226843 representing NM_001136566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTCTACACACATGTGCTTATGAGTAAACGAGGGCCATTGGCCAAAATATGGCTTGCAGCTCACTGGG
 AGAAGAACTCACAAAGGCCCATGATTTGAATGTAATCTAGAGATAACCATTGAAAAATTCCTTCACC
 CAAGGTGAAAAATGCACTTCGAATTCAGGACACCTCTCTTTGGGAGTTGTTTCAATCTATAACAGGAAG
 GCAAAATATCTTTTGGCAGATTGCAGTGAAGCATTTCTTAAATGAAGATGACATTTGCCAGGACTGG
 TTGACCTTCCAAAAGAGAATTTGAAGCATCTTACAATGCTATCACATTGCCAGAAGAATTCATGATTT
 TGACACCCAAAATATGAATGCTATTGATGTTTCAGAACCTTTACTCAGAACCAAGCAGACAGAGAAGAA
 ATCACTCTTAGAGAAAATTTGACAATGATCTAATTTCCAAGCTGAGAGCTTTGGGGAGGAATCTGAAA
 TTCTCAGAAGACATAGCTTCTTTGATGACAACATATTACTGAATCCAGTGGTCCTTAATTGAACATAG
 TTCTGGAAGCCTCACTGGAGAACGATCTCTATTCTATGACAGTGGAGATGGGTTTGGAGATGAAGGAGCT
 GCAGGAGAAATGATTGACAATCTATTGCAAGATGATCAGAAATACCTGTTAGAAGACATGCAATTTGAACA
 GAGAAATTTCCCTGCCTCTGAGCCTCCCAATAGTTTAGCAGTTGAACCAGATAAATCAGAGTGTATATG
 TGTACCTGAAAAATGAAAAATGAATGAAACAATATTATTATCAACTGAAGAGGAAGGATTTACCTTGAT
 CCAATTGATATTTGAGCATTGCTGAGAAAAGGAAAGGCAAAAAGAGGAGATTGCTCATAGATCCTATCA
 AGGAGCTCAGTAGCAAAAGTTATACATAAACAGCTTACTTCCTTTGCGGACACACTCATGGTTTTGGAAT
 TGCACCTCTACCCAAAGATTGATGATGTGAAGAAGAGGGGAGGAGTGCATACACTTCTGTCAACTGCT
 GCCCAGGATTTGATTGCTGAACTGAAAATGTTGTTTACAAAATGCTTCTGTCTCTGGCTTTAAAC
 TTGGAAGAAAATGATACAGAAGGAGTCAAGGAAGAAGTGGGAAACCAAAATATAGTAGAGACATC
 CATGATGCAAGAGCCAAATTACCAGCAAGAGTTAAGTAAACCCCAAACTTGAAGGATGTGATTGGTGGG
 TCTCAGCATAGCTCTCATGAGGATACCAATAAAAAATTAATCTGAGCAGGATATTGTTGAAATGGTGT
 CTTTAGCTGCTGAGGAATCATCTTTAATGAATGACTTATTTGCACAAGAAATGAATATAGTCCAGTTGA
 ATTGGAGTCATTGAGCAATGAAGAAAATATTGAGACAGAGAGATGGAATGGAAGAATACTTCAGATGTTA
 AATCGTTTACGGGAATCTAACAGATGGGAATGCAGTCTTTAGTCTGATGAAGCTCTGTAGAAAATAGTG
 ACCGAAAACAAGCAGCTGCCAAATTTATAGCTTTCTGTCCTAAAGAAACAGCTGGCTATTGAGCTGAG
 CCAGAGTGTCCCTATGCAGATATTATAGTACGATGGGACCAATGTTTTATAACATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226843 representing NM_001136566
 Red=Cloning site Green=Tags(s)

MFYTHVLMKRGPLAKIWLAAHWKLLTKAHVFECNLEITIEKILSPKVKIALRTSGHLLLGVVRIYNRK
 AKYLLADCSEAFKMKMTFCPLVDLPKENFEASYNAILPEEFHDFDTQNMNAIDVSEHFTQNQSRPEE
 ITLRENFNDLIFQAESFGESEILRRHSFFDDNILLNSSGPLIEHSSGSLTGERSLFYDSGDGFGDEGA
 AGEMIDNLLQDDQNILLEDMHLNREISLPSEPPNSLAVEPDNSEICVPENEKMNETILLSTEEEGFTLD
 PIDISDIAEKRGKRRLLIDPIKELSSKVIHKQLTSFADTLMVLELAPPTQRLMMWKKRGVHTLLSTA
 AQDLIHAELKMLFTKFLSSGFKLGRKMIQKESVREEVGNQNI VETSMQEPNYQQELSKPQTWKDVIGG
 SQHSSHEDTNKNINSEQDIVEMVSLAAEESLMNDLFAQIEYSPVELESLSNEENIETERWNGRILQML
 NRLRESNKMGMQSFSLMKLCRNSDRKQAAKFYSFLVLKKQLAIELSQSAPYADIIATMGPMFYNI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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.

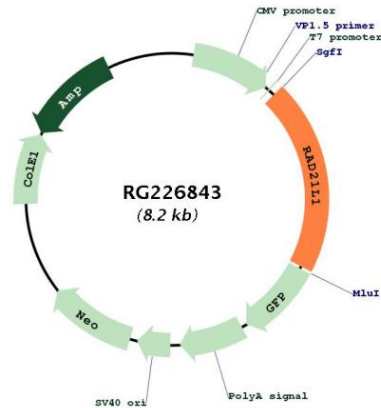
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001136566.3](#)

RefSeq Size: 1808 bp

RefSeq ORF:	1671 bp
Locus ID:	642636
UniProt ID:	Q9H4I0
Cytogenetics:	20p13
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 RG226843