

Product datasheet for **MR230482**

Rad21l (NM_001276400) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad21l (NM_001276400) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rad21l
Synonyms:	Gm14160; MeiRAD21L; Rad21l1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230482 representing NM_001276400
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTACACTCATGTGCTTATGAGTAAACGGGGCCATTGGCCAAGATATGGCTTGCAGCTCACTGGG
 AGAAGAACTTACAAAGGCCATGTGTTGAGTGAATCTAGAAAATAACCATTCAAAAAATTATTTCA
 TAAGGTGAAAATTGCACTCCGAACCTCAGGACACCTTCTTTGGGGTTGTTGCAATCTACAACAGGAAG
 GCAAAATACCTTCTGGCAGACTGCAGTGAAGCATTCTTAAGATGAAGATGACATTTGCCAGGACTGG
 TTGACCTCCCAAGAGAATTTGAAGCAGCTTACAACACTATCACATTACCAGAAGAATTTATGATTT
 TGAAATCTACAATATAAATGAGATTGATTTTCGGAGCCCTTGCTCAGAACCAAGTAGACCAGAGGAA
 ATCACACTTAGAGAAGAATATAGCAATGATCTACTTTCCAAGCTGGGAGCTTTGGGGATGAACCTGAAA
 TCCTCAGAAGACATAGCTTCTTTGATGACAACATATTAATGAACTCCAGTGGTCTTGTAGTGAACATAG
 TTCTGGAAGCTTCGCTGAGGAAAAATCTTTGTTCTTTGACAATGGAGATGGATTTGGAGATGAAGGAGCT
 GCAGGAGAAATGATTGACAATCTATTGCAAGATGAGAGTACCTTTTTAGAAGAAGCATATTTGAACAAAG
 AAGTGTCTCTGCCTCCTGAGCTTCCAGTAGTATAATGGTAGAACAGGTAATTCAGATGACCAATGTAT
 ACCTGAAGATGAAGAAATAAATGAAATAACATTATTATCAAAATGAAGATGAAGGATTTACTCTGGACCCA
 ATTGATGATTTAGATATTGCTGACAGGAGGAGAAGGAAAAAGAGGAGATTGCTGGTAGATCCAGTCAAGG
 AGATAAGCAGCAAGGCTATGCATAGGCAGCTTGCTTCTTTATGGACACTCTCATGGTCTGACCTTGC
 ACCCCCCACAAAAGATTGATGATGTGGAAGAAGCGGGGAGGAGTGGATATGCTTCTGTCAACTGCTACC
 CAGGATTTGATTAATGACGAATTGAAAAATGTTGTTTACAAAATGCTTCTGTCTCTGACTATAAACTTG
 CAAAATGACACTGAAGGAGTCAGTAAGGAAAGAAGTGGGAAACCAGCAGATTGCAGAACCCTCAGTGT
 GGGAGAGCCAAATTCACAGTGAATGATCAACCCCAAGATTGGAAGGATGTGACTGATGAATCTGTG
 GGTAGCTTTCAGGAGAACGTCAACATGAATGTTAACTCTGAGCAGGATATTCTTGAATGATTTCTCCAG
 CTGTTGAGGGATTGCTTCAATGAATGGGTCTTGGCCCAAGAAAATGTCCAGCTGAATTGGAGTCATC
 AGGCAGCAAACTACTGAGGCAGAAAAATGGAATCAAAGATTATTTCAAACATTAATGTGTTACGG
 GAATTCACAAAATGGGAATGCAGTCTTTAGTCTGAAAAGCTATGCAGAAATAGTGACCGAAAACAGG
 CAGCTGCCAAATTTATACTCTTCTCATCTGAAAAACATCGTGTCTATTGAGCTGAGCCAGAGTGTCC
 CTATGCAGATATTATAGCTACAGTGGACCAATGTTCTATAAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230482 representing NM_001276400
 Red=Cloning site Green=Tags(s)

MFYTHVLMMSKRGPLAKIWLAAHWEKCLKAHVFECNLEITIQKII SPKVKIALRTSGHLLLGVVRIYNRK
 AKYLLADCSEAFLLKMKMTFRPGLVDLPKENFEAYNTITLPEEFHDFEYININEIDI SEPLAQNQRPEE
 ITLREEYSNDLLFQAGSFGDEPEILRRHSFFDDNILMNSSGLVVEHSSGSFAEEKSLFFDNGDGFDEGA
 AGEMIDNLLQDESTFLEEAYLNKEVSLPPELPSSIMVEPGNSDDQCIPEDDEINEITLLSNEDEGFTLDP
 IDDLDIADRRRRKRRLLVDPVKEISSKAMHRQLASFMDTLMVLDLAPPTQRLMMWKKRGGVDMLLSTAT
 QDLINDELKMLFTKFLSSDYKLAKLTLKESVRKEVGNQQAEPSSVMGEPNSHSELDPQDQWKDVTDES
 VGSFQENVNMVNSEQDILGMI SPAVEGLSSMNGSLAQENCPAELESSGSKQNTAEKWNQRLFQTLNVLR
 EFNKMGMQSFLKCLKRNSDRKQAAKFYTLILKHHRAIELSQSVPYADIIATVGPMPFYKM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001276400

ORF Size: 1656 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_001276400.1](#), [NP_001263329.1](#)

RefSeq Size: 1659 bp

RefSeq ORF: 1659 bp

Locus ID: 668929

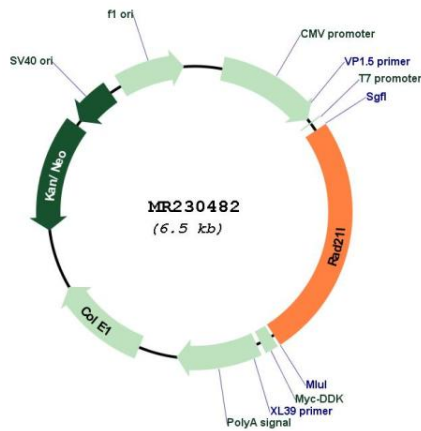
UniProt ID: [A2AU37](#)

Cytogenetics: 2

MW: 63.1 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. Not required for meiosis in females in young mice, while it is required later as mice age.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230482