

Product datasheet for **MC228271**

Rad21l (NM_001276400) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC228271 representing NM_001276400
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTACACTCATGTGCTTATGAGTAAACGGGGCCATTGGCCAAGATATGGCTTGCAGCTCACTGGG
 AGAAGAACTTACAAAGGCCATGTGTTGAGTGTAACTAGAAAATAACCATTCAAAAAATTATTCACC
 TAAGGTGAAAATTGCACTCCGAACCTCAGGACACCTTCTTTGGGGTTGTTGCAATCTACAACAGGAAG
 GCAAAATACCTTCTGGCAGACTGCAGTGAAGCATTCTTAAGATGAAGATGACATTCGCCCAGGACTGG
 TTGACCTCCCAAGAGAATTTGAAGCAGCTTACAACACTATCACATTACCAGAAGAATTCATGATTT
 TGAAATCTACAATATAAATGAGATTGATTTTCGGAGCCCTTGCTCAGAACCAAGTAGACCAGAGGAA
 ATCACACTTAGAGAAGAATATAGCAATGATCTACTTTCCAAGCTGGGAGCTTTGGGGATGAACCTGAAA
 TCCTCAGAAGACATAGCTTCTTTGATGACAACATATTAATGAACTCCAGTGGTCTTGTAGTCGAACATAG
 TTCTGGAAGCTTCGCTGAGGAAAAATCTTTGTTCTTTGACAATGGAGATGGATTTGGAGATGAAGGAGCT
 GCAGGAGAAATGATTGACAATCTATTGCAAGATGAGAGTACCTTTTTAGAAGAAGCATATTTGAACAAAG
 AAGTGTCTCTGCCTCCTGAGCTTCCCAGTAGTATAATGGTAGAACCAGGTAATTCAGATGACCAATGAT
 ACCTGAAGATGAAGAAATAAATGAAATAACATTATTATCAAAATGAAGATGAAGGATTTACTCTGGACCCA
 ATTGATGATTTAGATATTGCTGACAGGAGGAGAAGGAAAAAGAGGAGATTGCTGGTAGATCCAGTCAAGG
 AGATAAGCAGCAAGGCTATGCATAGGCAGCTTGCTTCTTTATGGACACTCTCATGGTCTGGACCTTGC
 ACCCCCCACAAAAGATTGATGATGTGGAAGAAGCGGGGAGGAGTGGATATGCTTCTGTCAACTGCTACC
 CAGGATTTGATTAATGACGAATTGAAAATGTTGTTTACAAAATGCTTCTGTCTCTGACTATAAACTTG
 CAAAATTGACACTGAAGGAGTCAGTAAGGAAAGAAGTGGGAAACCAGCAGATTGCAGAACCCTCAGTGAT
 GGGAGAGCCAAAATCCCACAGTGAGTTAGATCAACCCCAAGATTGGAAGGATGTGACTGATGAATCTGTG
 GGTAGCTTTCAGGAGAACGTCAACATGAATGTTAACTCTGAGCAGGATATTCTTGAATGATTTCTCCAG
 CTGTTGAGGGATTGTCTTCAATGAATGGGTCTTGGCCCAAGAAAATTGTCCAGCTGAATTGGAGTCATC
 AGGCAGCAAAACAAAATACTGAGGCAGAAAAATGGAATCAAAGATTATTTCAAACATTAATGTGTTACGG
 GAATTCACAAAATGGGAATGCAGTCTTTAGTCTGAAAAGCTATGCAGAAATAGTGACCGAAAACAGG
 CAGCTGCCAAATTTTATACTCTTCTCATCTGAAAAACATCGTGCTATTGAGCTGAGCCAGAGTGTTC
 CTATGCAGATATTATAGCTACAGTGGGACCAATGTTCTATAAGAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001276400

Insert Size: 1659 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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

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]