

Product datasheet for **MC226790**

Rad51d (NM_001277941) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad51d (NM_001277941) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rad51d
Synonyms:	R51H; R51H3; Rad5; Rad51l3; TRAD; Trad-d5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226790 representing NM_001277941 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGCATGCTCAGGGCAGGGCTGTGCCGGGCCCTCACCGAGGAGACCGTCCAGCTTCTCAGAGGCCGAA
AGATAAAACAGTGGCAGACCTGGCAGCTGCTGACTTGGAGGAAGTAGCCAGAAGTGTGGCTTGTCTTA
CAAGGCCCTCGTTGCCCTGAGGAGGGTGTGCTGGCGCAGTTCTCGGCTTCCCTTAAATGGCGCAGAT
CTCTATGAGGAAGTGAAGACTTCCACGGCCATCCTGTCCACCGGCATCGAAGCCTGGACAACTACTTG
ATGCTGGCCTCTATACTGGGAGGTGACTGAAATTGTGGGTGGCCAGGTAGCGGCAAAACCCAGGCAAG
TGCTCTCCAGAGGATACAGGTGGTGCCTTCATTTGACATCTTCCGGATGCTAGATATGCTACAGGACCTT
CGCGGCACCATAGCCAGCAGGAAGCAACTTCTTCAGGCGCCGTGAAGGTTGTGATTGTGGACTCGGTCA
CTGCAGTGGTCGCCCCACTTCTGGGAGGTGAGCAGAGGGAAGGCCTGGCCTTGATGATGCAGCTGGCCCG
AGAGCTCAAGATCCTGGCCCGGACCTGGGTGTGGCAGTGGTGGTGACCAACCACTTGACTCGAGATTGG
GATGGTAGAAGATTCAAACCTGCCCTTGGACGCTCCTGGAGCTTTGTGCCAGTACCCGGATTCTCCTGG
ATGTCAGTGAAGGGCTGGGACACTCGGTAGCAGCAACGCACAGTATGTCTGACCAAGTCTCCCGCCA
GCCAACGGGTCTGCAGGAGATGATAGACATTGGGACATTGGGGACTGAGGAGCAGAGCCCAAGTACCT
GGCAAGCAGACGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001277941
Insert Size:	855 bp



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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:	<ol style="list-style-type: none"> 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_001277941.1, NP_001264870.1</u>
RefSeq Size:	6937 bp
RefSeq ORF:	855 bp
Locus ID:	19364
Cytogenetics:	11 50.3 cM
Gene Summary:	<p>This gene belongs to the Rad51 gene family whose products play a major role in homologous recombination and DNA repair. The encoded protein interacts with other proteins of this family, including Rad51b, Rad51c and Xrcc2, and plays an essential role in both DNA repair and telomere maintenance. In humans, germline mutations in this gene may be associated with predisposition to ovarian cancer. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]</p> <p>Transcript Variant: This variant (4, also known as Rad51d-delta5 or Trad-d6) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. It encodes isoform 4 which is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>