

Product datasheet for MC226725

Rad51d (NM_001277942) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rad51d (NM_001277942) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rad51d
Synonyms: R51H; R51H3; Rad5; Rad51I3; TRAD; Trad-d5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226725 representing NM_001277942
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCATGCTCAGGGCAGGGCTGTGCCCGGGCTCACCGAGGAGACCGTCCAGCTTCTCAGAGGCCGAA
 AGATAAAACAGTGGCAGACCTGGCAGCTGCTGACTTGGAGGAAGTAGCCAGAAGTGTGGCTTGCCTA
 CAAGGCCCTCGTTGCCCTGAGGAGGGTGTGTGGCGCAGTTCTCGGCTTCCCCTTAAATGGCGCAGAT
 CTCTATGAGGAAGTGAAGACTTCCACGGCCATCCTGTCCACCGGCATCGGAAGCCTGGACAACTACTTG
 ATGCTGGCCTCTATACTGGGAGGTGACTGAAATTGTGGGTGGCCAGGTAGCGGCAAAACCCAGGTGTG
 TCTCTGTGTGGCTGCAAATGTGGCCATAGCCTGCAGCAGAATGTACTGTATGTGGATTCCAATGGAGGA
 ATGACGGCGTCCCGCCTCCTCCAGCTACTACAGGCTAGAACCCAAGATGAGGAGAAAACAGGCAAGTGCTC
 TCCAGAGGATACAGGTGGTGCCTTCATTTGACATCTTCCGGATGCTAGATATGCTACAGGACCTTCGCGG
 CACCATAGCCCAGCAGGTGACCAACCACTTGACTCGAGATTGGGATGGTAGAAGATTCAAACCTGCCCTT
 GGACGCTCCTGGAGCTTTGTGCCAGTACCCGGATTCTCCTGGATGTCACTGAGGGGGCTGGGACTCG
 GTAGCAGCCAACGCACAGTATGTCTGACCAAGTCTCCCGCCAGCCAACGGGTCTGCAGGAGATGATAGA
 CATTGGGACATTGGGACTGAGGAGCAGAGCCAGAATTACCTGGCAAGCAGACG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001277942
Insert Size: 828 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.
RefSeq:	<u>NM_001277942.1, NP_001264871.1</u>
RefSeq Size:	6910 bp
RefSeq ORF:	828 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 (5, also known as Rad51d-delta7,8 or Trad-d3) lacks two alternate exons resulting in the loss of an in-frame segment in the 3' coding region compared to variant 1. It encodes isoform 5 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>