

## Product datasheet for **MR229249**

### Rad51d (NM\_001277938) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rad51d (NM\_001277938) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rad51d  
**Synonyms:** R51H; R51H3; Rad5; Rad51I3; TRAD; Trad-d5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229249 representing NM\_001277938  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGCATGCTCAGGGCAGGGCTGTGCCCGGGCCTCACCGAGGAGACCGTCCAGCTTCTCAGAGGCCGAA  
AGATAAAAACAGTGGCAGACCTGGCAGCTGCTGACTTGGAGGAAGTAGCCAGAAGTGTGGCTTGCCTA  
CAAGGCCCTCGTTGCCCTGAGGAGGGTGTGTGGCGCAGTTCTCGGCTTCCCCTTAAATGGCGCAGAT  
CTCTATGAGGAACTGAAGACTTCCACGGCCATCCTGTCCACCGGCATCGGAAGCCTGGACAACTACTTG  
ATGCTGGCCTCTATACTGGGGAGGTGACTGAAATTGTGGGTGGCCAGGTAGCGGCAAAACCCAGGTGTG  
TCTCTGTGTGGTGCAAATGTGGCCCATAGCCTGCAGCAGAATGTACTGTATGTGGATTCCAATGGAGGA  
ATGACGGCGTCCCGCCTCCTCCAGCTACTACAGGCTAGAACCCAAGATGAGGAGAAAACAGGCAAGTGCTC  
TCCAGAGGATACAGGTGGTGCCTTCATTTGACATCTTCCGGATGCTAGATATGCTACAGGACCTTCGCGG  
CACCATAGCCCAGCAGGAAGCAACTTCTCAGGCGCCGTGAAGGTTGTGATTGTGGACTCGGTCACTGCA  
GTGGTGCAGCCACTTCTGGGAGGCTGGCCTTGATGATGCAGCTGGCCCGAGAGCTCAAGATCCTGGCCC  
GGGACCTGGGTGTGGCAGTGGTGGTGACCAACCCTTGACTCGAGATTGGGATGGTAGAAGATTCAAACC  
TGCCCTTGGACGCTCCTGGAGCTTTGTGCCAGTACCCGATTCTCCTGGATGCTACTGAGGGGGCTGGG  
ACACTCGGTAGCAGCCAACGCACAGTATGTCTGACCAAGTCTCCCGCCAGCCAACGGGTCTGCAGGAGA  
TGATAGACATTGGGACATTGGGGACTGAGGAGCAGAGCCAGAATTACCTGGCAAGCAGACG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229249 representing NM\_001277938  
 Red=Cloning site Green=Tags(s)

MGMLRAGLCPGLTEETVQLLRGRKIKTVADLAAADLEEVAQKCGLSYKALVALRRVLLAQFSAPFLNGAD  
 LYEELKTSTAILSTGIGSLDKLLDAGLYTGEVTEIVGGPGSGKTQVCLCVAANVAHSLQQNVLYVDSNGG  
 MTASRLLQLLQARTQDEEKQASALQRIQVVRSFDIFRMLDMLQDLRGTIAQQEATSSGAVKVVIVDSVTA  
 VVAPLLGGLALMMQLARELKILARDLGVAVVVTNHLTRDWDGRRFKPALGRSWSFVPSTRILLDVTEGAG  
 TLGSSQRTVCLTKSPRQPTGLQEMIDIGTLGTEEQSPELPGKQT

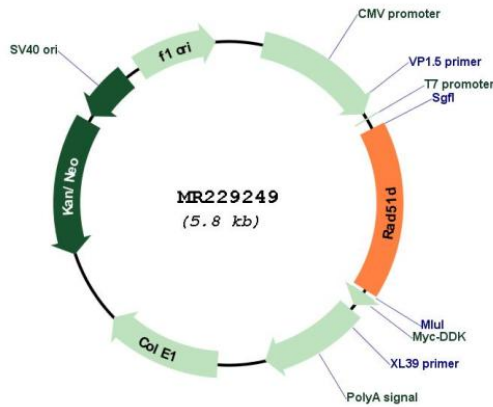
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001277938

ORF Size: 972 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001277938.1</a> , <a href="#">NP_001264867.1</a>
<b>RefSeq Size:</b>	7057 bp
<b>RefSeq ORF:</b>	975 bp
<b>Locus ID:</b>	19364
<b>Cytogenetics:</b>	11 50.3 cM
<b>MW:</b>	35.1 kDa
<b>Gene Summary:</b>	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]