

## Product datasheet for **RR210445**

### Rad51 (NM\_001109204) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rad51 (NM\_001109204) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rad51  
**Synonyms:** RGD1563603  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210445 representing NM\_001109204  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTATGCAAATGCAGCTTGAAGCAAATGCAGATACTTCAGTGAAGAAGAAAGCTTTGGTCCACAGC  
CTATTTCTCGGTTAGAGCAATGTGGCATAAATGCCAATGATGTGAAGAAATTAGAAGAAGCTGGTTACCA  
CACGGTGGAGGCTGTTGCTTATGCACCAAAGAAGGAAGTATAAATATTAAGGAATTAGTGAAGCCAAA  
GCTGACAAAATCCTGGCTGAGGCAGCGAAATTAGTTCCAATGGGTTTCACCACTGCAACCGAATTCACC  
AACGCCGGTCAGAAATCATCCAGATTACTACTGGCTCCAAAGAGCTTGACAAACTACTTCAAGGTGGAAT  
TGAGACTGGGTCTATCACAGAGATGTTTGGAGAATTCGAACTGGGAAGACACAGATCTGTACATACATTG  
GCTGTAACATGCCAGCTCCCAATTGACCGAGGTGGAGGTGAAGGGAAAGCAATGTACATTGACACCGAGG  
GCACCTTAGGCCGGAGCGGCTGCTGGCGGTAGCTGAGAGATACGGCCTCTCTGGAAGTGACGTCTCGA  
TAATGTAGCATACGCTCGAGGGTTCAACACAGACCACCAGACCAGCTCCTTTACCAAGCGTCAGCCATG  
ATGGTAGAATCCAGGTATGCACTGCTTATTGTAGACAGTGTACTGCCCTTTACAGAACAGACTACTCAG  
GTCGGGGAGAGCTTTAGCCAGGCAAATGCATTTGGCCAGATTTCTAAGGATGCTGCTTCGACTTGCTGA  
TGAGTTTGGTGTAGCAGTGGTAATCACCAACCAGGTGGTAGCCCAAGTGGATGGAGCAGCCATGTTTGCT  
GCAGATCCGAAAAAACCATTGGAGGAAACATCATCGCTCATGCATCAACCACCAGGCTATACCTGAGGA  
AAGGAAGAGGGGAAACCAGAATCTGCAAAATCTACGACTCTCCCTGTCTCCCTGAAGCTGAAGCCATGTT  
TGCCATTAATGCAGATGGAGTGGAGATGCCAAAGAC

**ACGGT**ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210445 representing NM\_001109204  
Red=Cloning site Green=Tags(s)

MAMQMQLLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGYHTVEAVAYAPKKELINIKGISEAK  
 ADKILAEAAKLVPMGFTTATEFHQRSEIIQITGSKELDKLLQGGIETGSITEMFGFRTGKTQICHTL  
 AVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAVAERYGLSGSDVLDNVAYARGFNTDHQTQLLYQASAM  
 MVESRYALLIVDSATALYRTDYSRGGEL SARQMHLARFLRMLRLLADEFVAVVITNQVVAQVDGAAMFA  
 ADPKKPIGGNIIAHASTTRLYLKRGGETRICKIYDSPCLPEAEAMFAINADGVGDAKD

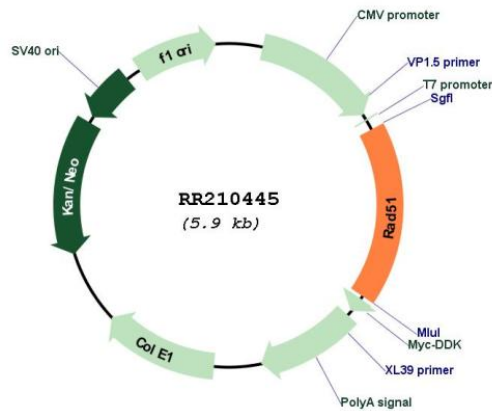
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001109204

**ORF Size:** 1017 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_001109204.1</a> , <a href="#">NP_001102674.1</a>
<b>RefSeq Size:</b>	2167 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	499870
<b>Cytogenetics:</b>	3q35
<b>MW:</b>	37 kDa