

## Product datasheet for **MG206817**

### Rad52 (BC019123) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rad52 (BC019123) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rad52
Synonyms:	Rad52yh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206817 representing BC019123 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGGGCCTGAAGAAGCAGTCCACAGAGGGTGTGACAACCATCCTCCCTTTGTTGGTGGGAAGTCTG  
TGCTCCTCTTTGGACAGAGCCAGTATACAGCGGATGAATACCAGGCCATCCAGAAAGCTCTGAGACAGAG  
ACTGGGTCAGAGTACATTAGCAGCCGCATGGCTGGAGGAGGTCAGAAGGTGTGTATATTGAAGGTCAT  
CGGTAATTAATCTGGCCAATGAGATGTTTGGTTACAATGGCTGGGCACACTCCATCACCCAGCAAATG  
TGGATTTTGTGACCTCAACAATGGCAAGTTCTACGTGGGAGTCTGTGCATTTGTAAGGTGCAGTTAAA  
GGATGGTTCTATCATGAGGACGTGGGCTATGGAGTTAGTGAGGGCCTCCGTTCAAAGGCCTTGTCAGT  
GAGAAGGCCAGGAAGGAGGCTGTGACTGATGGGCTGAAGCGAGCACTCAGGAGTTTTGGGAATGCACTTG  
GAACTGTATTCTGGACAAAGACTATCTGAGGTCACTAAATAAGCTTCCACGACAGCTCCCTCTTGATGT  
GGATTTAACTAAAACAAAGAGAGAAGATTTTGAACCATCTGTAGAACAGGCAAGATACAACAGCTGCCGA  
CAGAAATGAAGCATTGGGACTCCCCAAACCACAGGAAGTGACTTCCCTTGCGATCAAGCCCCCACATG  
ACTCGAACATTAAGCTTCAGGGGCTAAGGACATCAGCAGCTCCTGCAGTCTGGCCGCCACCTTGGAGAG  
TGACGCCACTCACAGAGGAAGCTCCGGAAGCTCCGGCAGAAGCAGCTCCAGCAGCAGTTCCGGGAACAG  
ATGGGACTCGCCGGCAGAGCCATGCACCTGCCGAAGAGGTGGCAGCAAGCATGCCGAGTACTTCCAG  
CCCTCCAAAACACAGCACCCCTGTAAGTGCAGCCTCAGAAGTCTCCAGGAGAAAGTCGTCTTTCCAGA  
TAACCTTGAAGAGAACCTTGAATGTGGGACCTTACTCCAGACTTAGAGGACATCATTAAGCCCTTGTGT  
AGAGCAGAACCAGCCAACTTCTGCCACTCGAACCTTCAACAACCAGGACAGCGTCCCACATATCCATT  
GCCATCAGAAACCACAAGAAAAGCCTGGACCTGGGCACCTGCAGACCTGCAACACCAACCAGCATGTTCT  
AGGTAGCAGAGGTGTGTGGAAGAATGAAAGTTCTGGGTTAATCTTTAACATGTAAGGAAAGGTGCTA  
GTTCAATTTAAGACGCTGACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206817 representing BC019123  
 Red=Cloning site Green=Tags(s)

MAGPEEAVHRGCDNHPPFVGGKSVLLFGQSQYTADYQAIQKALRQRLGPEYISSRMAGGGQKVCYIEGH  
 RVINLANEMFGYNGWAHSITQQNVDFVLDLNNKFYVGVCAFVKVQLKDGSYHEDVGYGVSEGLRSKALS  
 EKARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLDVLTKTKREDFEPSVEQARYNSCR  
 QNEALGLPKPQEVTSPCRSSPPHDSNIKLGAKDISSSCSLAATLESDATHQRKLRKLRQKQLQQQFREQ  
 METRRQSHAPAEVAAKHAAVLPAPPKHSTPVTAASELLQEKVVFDPNLEENLEMMWDLTPDLEDIKPLC  
 RAEPAQTSATRTFNNQDSVPHIHCHQKPKQEPGPHLQTCNTNQHVLGSRGVWKNESGFSNLTCKGKVL  
 VHFKTLT

TRTRPLE - GFP Tag - V

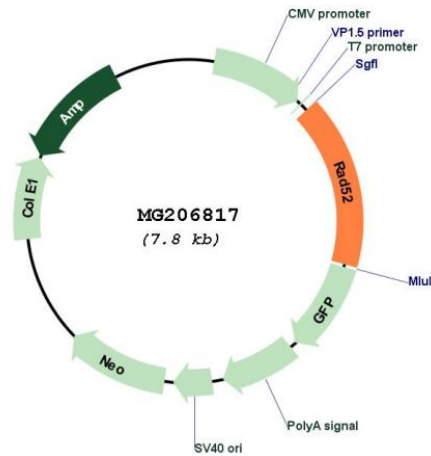
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

BC019123

<b>ORF Size:</b>	1283 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="#">BC019123</a> , <a href="#">AAH19123</a>
<b>RefSeq Size:</b>	1623 bp
<b>RefSeq ORF:</b>	1283 bp
<b>Locus ID:</b>	19365
<b>Cytogenetics:</b>	6 56.86 cM
<b>Gene Summary:</b>	Involved in double-stranded break repair. Plays a central role in genetic recombination and DNA repair by promoting the annealing of complementary single-stranded DNA and by stimulation of the RAD51 recombinase (By similarity).[UniProtKB/Swiss-Prot Function]