

## Product datasheet for **SC126055**

### **RAD1 (BC009804) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAD1 (BC009804) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD1
Synonyms:	cell cycle checkpoint protein Hrad1; checkpoint control protein HRAD1; DNA repair exonuclease REC1; exonuclease homolog RAD1; HRAD1; OTTHUMP00000115992; RAD1 homolog; RAD1 homolog (S. pombe); Rad1-like DNA damage checkpoint; REC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC009804 edited

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GGGGTCCGCGTTCTCGGAGCCGCTCGCTCCTTTCAGGGACTTTGCTGAGAAGGGCT
CTCGGGCGTCCAGACCCACCGCAAAGGTGTTGGCGATCCGCCGAGAAGTTGTTGGCCC
CAGGAGCATCCCTCGGGCCGAATGCGCAGTGGACGATGCCCTTCTGACCCAACAGATC
CAAGACGAGGATGATCAGTACAGCCTTGTGCCAGCCTTGACAACGTTAGGAATCTCTCC
ACTATCTTGAAAGCTATTCATTTCCGAGAACATGCCACGTGTTTCGCAACTAAAAATGGT
ATCAAAGTAACAGTGAAAATGCAAAGTGTGTGCAAGCAAATGCTTTTATTCAGGCTGGA
ATATTTACAGGAGTTAAAGTTCAGGAAGAGTCTGTTACTTTTCGAATTAATTTAACTGTC
CTTTTAGACTGTTTATCTATTTTTGGATCAAGTCTATGCCAGGGACTTTAACTGCACTT
CGAATGTGTTACCAAGTTATGGTTACCCTTTGATGCTGTTCTGGAAGAAGGAGGAGTG
GTGACAGTCTGCAAAATCAATACACAGGAACCTGAGGAGACCCTGGACTTTGATTCTGC
AGCACCAATGTTATTAATAAAAATTATTCTGCAGTCAAGGGGCTCCGTGAAGCATTCTTCT
GAATTGGATATGACGAGTGAAGTCTACAAATTACCATGTCTCCTGACAAGCCTTATTTCT
AGGTTATCTACTTTTGGAAATGCAGGAAGTCCCACCTTGACTATCCCAAAGATTCTGAT
TTGATGGAAGCATTTCATTGTAATCAGACCCAAGTCAACAGATACAAGATTTCTTACTG
AAACCCTTACAAAGGCATTAGTCTATCTTGTAAAGTATCTATTCGGACAGATAACAGA
GGCTTCCTTTTATTACAGTATATGATTAGAAATGAAGATGGACAAATATGTTTTGTGGAA
TATTACTGCTGCCCTGATGAAGAAGTTCCTGAATCTGAGTCTTGAGTATGACAATCACT
GATATTTATGTGTACATTTATGATAGATGAAGTCTTATTTCTGAGTACAGTACTCTTTGT
CATTTTCATATTGGATTTTCTATAGAGAAGAAGCACAATGGGGAAGATAGGAGCAAGGTCA
TGTACCCTAATAGTACTATGTTTTGTAATCCATTTTGTAGAGGGCATGTAATAAATG
TTTTCTGTAGTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC009804 unedited GTTCGGGATTTTGTAAATACGACTCACTATAGGCGGCCGCGAATTCGCCATTACGGCCGG GGTCCGCGGTTCTCNGAGCCGCCTCGCTCCTTTCAGGGACTTTGCTGAGAAGGGCTCT CGGGCGTCCAGACCCACCGCAAAGGTGTTTGGCGATCCGCCGAGAAGTTGTTGGCCCA GGAGCATCCCTCGGGCCGAATGCGCAGTGGACGATGCCCTTCTGACCCAACAGATCCA AGACGAGGATGATCAGTACAGCCTTGTGGCCAGCCTTGACAACGTTAGGAATCTCTCCAC TATCTTGAAAGCTATTCATTTCCGAGAACATGCCACGTGTTTCGCAACTAAAAATGGTAT CAAAGTAACAGTGAAAAATGCAAAGTGTGTGCAAGCAAATGCTTTTATTTCAGGCTGGAAT ATTTTCAGGAGTTTAAAGTTCAGGAAGAGTCTGTTACTTTTTCGAATTAATTTAACTGTCCT TTTAGACTGTTTATCTATTTTGGATCAAGTCCTATGCCAGGGACTTTAACTGCACCTTCG AATGTGTTACCAAGGTTATGGGTACCCTTTGATGCTGTTCTGGAAGAGGAGGAGTGGTG ACAGTCTGCAAAATCAATACACAGGGAACCTGAGGAGACCCTGGACTTTGATTTCTGCAG CACCAATGGGTATAAATAAAATATTCTGCAGTCAGAGGGGCTCCGTGGAGGCATTTTCT GGAGTGGGATATGACGAGGTGGAGTCTAACAATTACCATGTGCTCCTGGCAAGGCCCTA TTTNCAGGTGATCTACCTTTTTGGAAATGCCGGGAGGTTCCCTTGACCATTCCCAAAG ATTCTGATTTGAGGGAAGCTTTCCATGGGATCAGACCCAGTCCACCAATCCCGAATTCCT TATGAAACCTTCCAAGGCGTAATCCCATTTTGGAGGGTTTTTCCGACAATAAACGGGC TTC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC009804
<b>OTI Disclaimer:</b>	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).
<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="#">BC009804.1</a> , <a href="#">AAH09804.1</a>
<b>RefSeq Size:</b>	1259 bp
<b>Locus ID:</b>	5810
<b>Cytogenetics:</b>	5p13.2
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes a component of a heterotrimeric cell cycle checkpoint complex, known as the 9-1-1 complex, that is activated to stop cell cycle progression in response to DNA damage or incomplete DNA replication. The 9-1-1 complex is recruited by RAD17 to affected sites where it may attract specialized DNA polymerases and other DNA repair effectors. Alternatively spliced transcript variants of this gene have been described. [provided by RefSeq, Jan 2009]