

## Product datasheet for **SC322189**

### **RAD1 (NM\_133377) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RAD1 (NM_133377) 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; REC1, HRAD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>Fully Sequenced ORF:</b>	<p>&gt;OriGene sequence for SC322189</p> <pre>TGAAGAGTGGCGGGACTGGCTTCACTTCCTCCGCGGTTCTCGGAGCCGCTCGCTCCTC TTCAGGGACTTTGCTGAGAAGGGCTCTCGGGCGTCCAGACCCACCGCAAAGGTGTTGG CGATCCGCCGAGAAGTTGTTGGCCCCAGGAGCATCCCTCGGGGCCGAATGCGCAGTGGAC GATGCCCTTCTGACCAACAGATCCAAGACGAGGATGATCAGTACAGCCTTGTGGCCAG CCTTGACAACGTTAGGAATCTCTCCACTATCTTGAAAGCTATTCATTTCCGAGAACATGC CACGTGTTTCGCAACTAAAAATGGTATCAAAGTAACAGTGGAAAAATGCAAAGTGTGTGCA AGCAAATGCTTTTATTCAGGCTGGAATATTTTCAGGAGTTTAAAGTTCAGGAAGAGTCTGT TACTTTTCGAATTAATTTAACTGTCCTTTTAGACTGTTTATCTATTTTTGGATCAAGTCC TATGCCAGGGACTTTAACTGCACCTCGAATGTGTACCAAGTTATGGTTACCCTTTGAT GCTGTTCTGGAAGAAGGAGGAGTGGTACAGTCTGAAAATCAATACACAGGAACCTGA GGAGACCTGGACTTTGATTTCTGCAGCACCAATGTTATTAATAAAATTATTCTGCAGTC AGAGGGGCTCCGTGAAGCATTCTGAATTGGATATGACGAGTGAAGTCTACAAATTAC CATGTCTCCTGACAAGCCTTATTTTCAGGTTATCTACTTTTGGAAATGCAGGAAGTCCCA CCTTGACTATCCCAAAGATTCTGATTTGATGGAAGCATTTCATTGTAATCAGACCCAAGT CAACAGATACAAGATTTCTTACTGAAACCTCTACAAAGGCATTAGTCCATCTGTGAA GGTATCTATTCGGACAGATAACAGAGGCTTCTTTTATTACAGTATATGATTAGAAATGA AGATGGACAAATATGTTTGTGGAATATTACTGCTGCCCTGATGAAGAAGTTCCTGAATC TGAGTCTTGAGTATGACAATTCAGTATTTATGTGTACATTTATGATAGATGAAGTTC TTATTCTGAGTACAGTACTCTTTGTCATTTTCAATTTGATTTTCTATAGAGAAGAAGCAC AATGGGGAAGATAGGAGCAAGGTATGTACCCTAATAGTACTATGTTTTGTAATCCAT TTTGTAGAGGGCATGTAATAAATGTTTTCTGTAGTCATAGATTATTCAGGACTGTCCT TTAGTCTGTCTTTTGAACCTCATGGGAATAATTGTGAGTCAGCGTAACATTTCAAGAGTC TAAAGGTGGCCGGTGTGGTGGCTTAAATCCAGCACTTTGGGAAGCCGAGGTGGGCGGA TCACCTGAGGTCAGGAGTTCGAGACCAGCCTGACCAACGTGGAGAAACCCATCTCTACT AAAAATACAAAAAATTGGCCGGACGTGGTGGCACATGCCTGTAATGCCAGCTACTCGGGA GGCTGAGGCAGGAGAATTGCTTGAACCCGGGAGGTGGAGGTTGTGGTGTGAGCTGAGATGAC GCCATTGCACTCCAGCCTAGGCAATAAGAGCAAAACTCTGCTCAAAAAAAAAA</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_133377
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>

RefSeq:	<u>NM_133377.2, NP_596868.1</u>
RefSeq Size:	4765 bp
RefSeq ORF:	849 bp
Locus ID:	5810
Cytogenetics:	5p13.2
Domains:	Rad1
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) contains a different 5' UTR compared to variant 1. Variants 1 and 3 encode the same isoform (1).</p>