

## Product datasheet for **SC331971**

### Rad9 (RAD9A) (NM\_001243224) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rad9 (RAD9A) (NM\_001243224) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rad9  
**Synonyms:** RAD9  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331971 representing NM\_001243224.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGCAGTCTTTCCTGTCTGTCTCCGCTCACTGGCGATGCTGGAGAAGACGGTGGAAAAATGCTGCATC
TCCCTGAATGGCCGGAGCAGCCGCTGGTGGTCCAGCTGCATTGCAAGTTCGGGGTGCAGGAACTCAC
AACCTGTCCTTCCAGGACTGTGAGTCCCTGCAGGCCGTCTCGACCCAGCCTCGTCCCCACATGCTC
CGCGCCCCAGCACGGTCTGGGGGAGGCTGTTCTGCCCTTCTCTCCTGCACTGGCTGAAGTGACGCTG
GGCATTGGCCGTGGCCGAGGGTCATCTCGCGAGCTACCACGAGGAGGAGGCAGACAGCACTGCCAAA
GCCATGGTGACTGAGATGTGCCTTGGAGAGGAGGATTTCCAGCAGCTGCAGGCCAGGAAGGGGTGCC
ATCACTTTCTGCCTCAAGGAATTCGGGGGCTCCTGAGCTTTGCAGAGTCAGCAAATTGAATCTTAGC
ATTCATTTTGATGCTCCAGGCAGGCCCGCCATCTTACCATCAAGGACTCTTTGTGGACGGCCACTTT
GTCTTGGCCACACTCTCAGACACCGACTCGCACTCCCAGGACCTGGGCTCCCCAGAGCGTACCAGCCA
GTGCCTCAGCTCCAGGCTCACAGCACACCCACCCGGAGCACTTTGCCAATGACGACATTGACTTTAC
ATGATCGCCATGGAAACCACTATAGGCAATGAGGGCTCGCGGGTGTGCCTCCATTTCCCTTTCACCT
GGCCCCAGCCCCAAGAGCCCCGGTCCCCACTCCGAGGAGGAAGATGAGGCTGAGCCAGTACAGTG
CCTGGGACTCCCCACCAAGAAGTCCGCTCACTGTTCTCGGCTCCATCCTGGCCCTGTACGCTCC
CCCCAGGGCCCCAGCCCTGTGCTGGCGAAGACAGTGAGGGTGAAGGCTGA
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001243224  
**Insert Size:** 948 bp  
**OTI Disclaimer:** 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).  
**Components:** 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).



**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_001243224.1](#)

**RefSeq Size:** 1992 bp

**RefSeq ORF:** 948 bp

**Locus ID:** 5883

**UniProt ID:** [Q99638](#)

**Cytogenetics:** 11q13.2

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**MW:** 34.2 kDa

**Gene Summary:** This gene product is highly similar to *Schizosaccharomyces pombe rad9*, a cell cycle checkpoint protein required for cell cycle arrest and DNA damage repair. This protein possesses 3' to 5' exonuclease activity, which may contribute to its role in sensing and repairing DNA damage. It forms a checkpoint protein complex with RAD1 and HUS1. This complex is recruited by checkpoint protein RAD17 to the sites of DNA damage, which is thought to be important for triggering the checkpoint-signaling cascade. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (2) contains an alternate 5' terminal exon (with an in-frame AUG) compared to variant 1. This results in a shorter isoform (2) with a distinct N-terminus compared to isoform 1.