

## Product datasheet for **RG233735**

### Rad9 (RAD9A) (NM\_001243224) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rad9 (RAD9A) (NM\_001243224) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rad9  
**Synonyms:** RAD9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233735 representing NM\_001243224  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGTCTTTCCTGTCTGTCTCCGCTCACTGGCGATGCTGGAGAAGACGGTGGAAAAATGCTGCATCT  
 CCCTGAATGGCCGGAGCAGCCGCCTGGTGGTCCAGCTGCATTGCAAGTTCGGGGTGCAGAACTCACAA  
 CCTGTCTTCCAGGACTGTGAGTCCCTGCAGGCCGTCTTCGACCCAGCCTCGTCCCCACATGCTCCGC  
 GCCCCAGCACGGTTCTGGGGAGGCTGTTCTGCCCTTCTCCTGCACTGGCTGAAGTGACGCTGGCA  
 TTGGCCGTGGCCGAGGGTCATCTGCGCAGCTACCACGAGGAGGAGGCAGACAGCACTGCCAAAGCCAT  
 GGTGACTGAGATGTGCCTTGAGAGGAGGATTTCCAGCAGCTGCAGGCCAGGAAGGGTGGCCATCACT  
 TTCTGCCTCAAGGAATTCGGGGCTCCTGAGCTTTCAGAGTCAAGAACTTGAATCTTAGCATTATT  
 TTGATGCTCCAGGAGGCCGCCATCTTACCATCAAGGACTCTTTGCTGGACGGCCACTTTGTCTTGGC  
 CAACTCTCAGACACCGACTCGCACTCCAGGACCTGGGCTCCCCAGAGCGTCACCAGCCAGTGCCTCAG  
 CTCCAGGCTCACAGCACACCCACCCGGGACGACTTTGCCAATGACGACATTGACTCTTACATGATCGCCA  
 TGGAAACCACTATAGCAATGAGGGCTCGCGGTGCTGCCCTCCATTTCCCTTTACCTGGCCCCAGCC  
 CCCCAGAGCCCCGGTCCCCACTCCGAGGAGGAAGATGAGGCTGAGCCCAGTACAGTGCCTGGGACTCCC  
 CCACCAAGAAGTTCGCTCACTGTTCTTCGGCTCCATCTGGCCCTGTACGCTCCCCCAGGGCCCCA  
 CCCTGTGCTGGCGGAAGACAGTGAGGGTGAAGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233735 representing NM\_001243224  
Red=Cloning site Green=Tags(s)

MQSFLSVFRSLAMLEKTVEKCCISLNGRSSRLVVQLHCKFGVRKTHNLSFQDCESLQAVFDPASCPHMLR  
 APARVLGEAVLFPSPALAEVTLGIGRRRVLRSYHEEEADSTAKAMVTEMCLGEEDFQQLQAQEGVAIT  
 FCLKEFRGLLSFAESANLNLSIHFDAPGRPAIFTIKDSLDDGHFVLATLSDTSDHSQDLGSPERHQFPVQ  
 LQAHSTPHPPDDFANDDIDSYMIAMETTIGNEGSRVLPISLSPGPQPPKSPGPHSEEEDEAEPSTVPGTP  
 PPKKFRSLFFGSILAPVRSPQGPSPVLAEDSEGE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001243224

**ORF Size:** 945 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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](#), [NP\\_001230153.1](#)

**RefSeq Size:** 1992 bp

**RefSeq ORF:** 948 bp

**Locus ID:** 5883

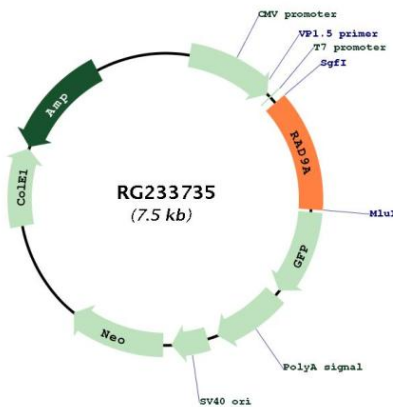
**UniProt ID:** [Q99638](#)

**Cytogenetics:** 11q13.2

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

**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]

### Product images:



Circular map for RG233735