

Product datasheet for **RC233735**

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:	Myc-DDK
Symbol:	Rad9
Synonyms:	RAD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233735 representing NM_001243224 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGTCTTTCTGCTGTCTTCCGCTCACTGGCGATGCTGGAGAAGACGGTGGAAAAATGCTGCATCT
CCCTGAATGGCCGGAGCAGCCGCCTGGTGGTCCAGCTGCATTGCAAGTTCGGGGTGCGAAGACTCACAA
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TTGATGCTCCAGGCAGGCCGCCATCTTACCATCAAGGACTCTTTGCTGGACGGCCACTTTGTCTTGGC
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CTCCAGGCTCACAGCACACCCACCCGGACGACTTTGCCAATGACGACATTGACTCTTACATGATCGCCA
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CCCCAAGAGCCCCGGTCCCCTCCGAGGAGGAAGATGAGGCTGAGCCCAGTACAGTGCCTGGGACTCCC
CACCCAAGAAGTTCGCTCACTGTTCTTCGGCTCCATCTGGCCCTGTACGCTCCCCCAGGGCCCCA
GCCCTGTGCTGGCGGAAGACAGTGAGGGTGAAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233735 representing NM_001243224
Red=Cloning site Green=Tags(s)

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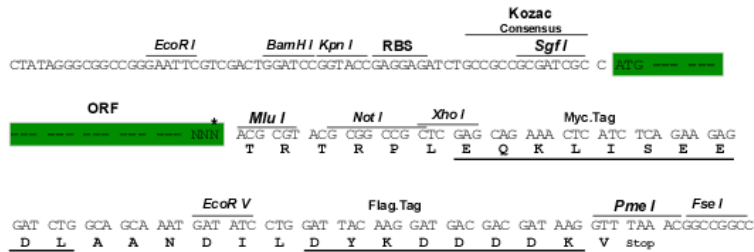
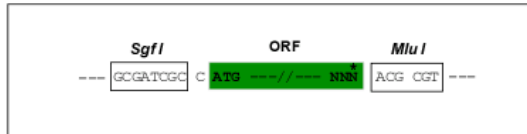
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LQAHSTPHPPDDFANDDIDSYMIAMETTIGNEGSRVLPISLSPGPQPPKSPGPHSEEEDEAEPESTVPGTP
PPKKFRSLFFGSILAPVRSPQGPSPVLAEDSEGE
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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](#)

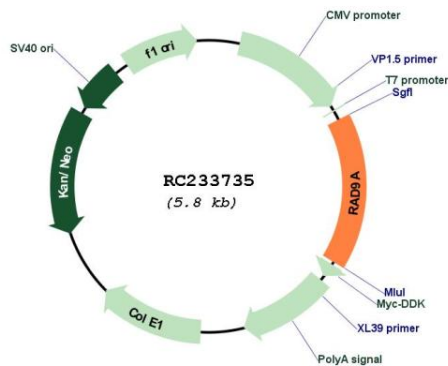
Cytogenetics: 11q13.2

Protein Families: Druggable Genome, Stem cell - Pluripotency

MW: 34.7 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]

Product images:



Circular map for RC233735