

Product datasheet for **RC204439**

Rad9 (RAD9A) (NM_004584) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad9 (RAD9A) (NM_004584) 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:	>RC204439 representing NM_004584. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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Protein Sequence: >Peptide sequence encoded by RC204439
 Blue=ORF Red=Cloning site Green=Tag(s)

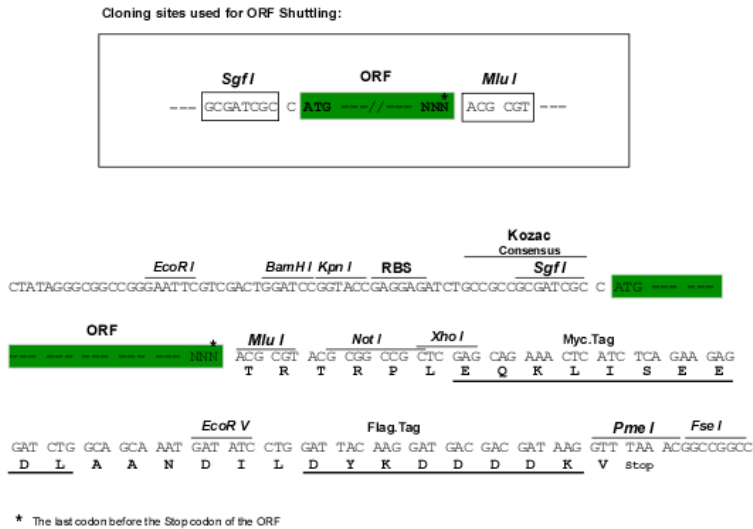
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 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC204439 also available, [TP304439](#)

Chromatograms: https://cdn.origene.com/chromatograms/mk6013_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004584

ORF Size: 1173 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_004584.3](#)

RefSeq Size: 2128 bp

RefSeq ORF: 1176 bp

Locus ID: 5883

UniProt ID: [Q99638](#)

Cytogenetics: 11q13.2

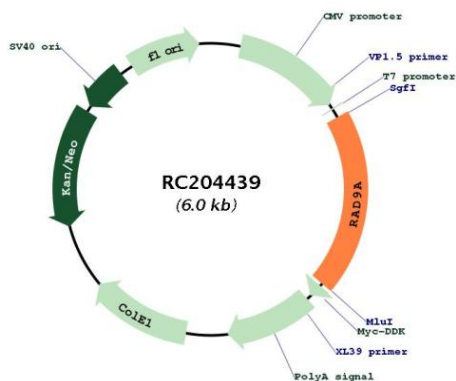
Domains: Rad9

Protein Families: Druggable Genome, Stem cell - Pluripotency

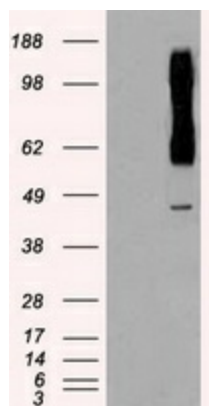
MW: 42.5 kDa

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]

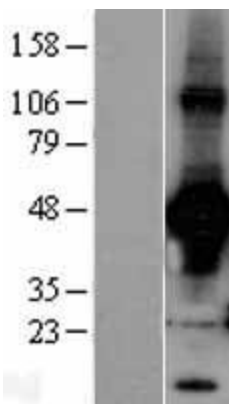
Product images:



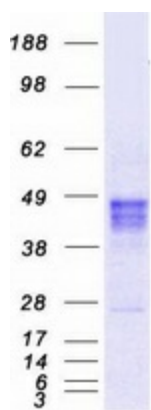
Circular map for RC204439



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RAD9A (Cat# RC204439, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RAD9A (Cat# [TA500434]). Positive lysates [LY401451] (100ug) and [LC401451] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401451]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204439 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAD9A protein (Cat# [TP304439]). The protein was produced from HEK293T cells transfected with RAD9A cDNA clone (Cat# RC204439) using MegaTran 2.0 (Cat# [TT210002]).