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Product datasheet for RG204439

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:	TurboGFP
Symbol:	Rad9
Synonyms:	RAD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204439 representing NM_004584.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGTGCCTGGTCACGGGCGGCAACGTGAAGGTGCTCGGCAAGGCCGTCCACTCCCTGTCCCGCATC
GGGGACGAGCTCTACCTGGAACCCTTGGAGGACGGGCTCTCCCTCCGGACGGTGAACTCCTCCCGCTCT
GCCTATGCCTGCTTTCTCTTTGCCCCGCTCTTCTTCCAGCAATACCAGGCAGCCACCCCTGGTCAGGAC
CTGCTGCGCTGTAAGATCCTGATGAAGTCTTTCCTGTCTGTCTTCCGCTCACTGGCGATGCTGGAGAAG
ACGGTGGAAAAATGCTGCATCTCCCTGAATGGCCGGAGCAGCCGCCTGGTGGTCCAGCTGCATTGCAAG
TTCGGGGGTGCGGAAGACTCACAACCTGTCCTTCCAGGACTGTGAGTCCCTGCAGGCCGTCTTCGACCCA
GCCTCGTGCCCCCACATGCTCCGCGCCCCAGCACGGGTTCTGGGGGAGGCTGTTCTGCCCTTCTCTCCT
GCACTGGCTGAAGTGACGCTGGGCATTGGCCGTGGCCGCAGGGTCATCCTGCGCAGCTACCACGAGGAG
GAGGCAGACAGCACTGCCAAAGCCATGGTGACTGAGATGTGCCTTGGAGAGGAGGATTTCCAGCAGCTG
CAGGCCCAGGAAGGGGTGGCCATCACTTTCTGCCTCAAGGAATTCCGGGGGCTCCTGAGCTTTGCAGAG
TCAGCAAACTTGAATCTTAGCATTCATTTTGATGCTCCAGGCAGGCCCGCCATCTTCACCATCAAGGAC
TCTTTGCTGGACGGCCACTTTGTCTTGGCCACACTCTCAGACACCGACTCGCACTCCCAGGACCTGGGC
TCCCCAGAGCGTCACCAGCCAGTGCCTCAGCTCCAGGCTCACAGCACACCCCACCCGGACGACTTTGCC
AATGACGACATTGACTCTTACATGATCGCCATGGAAACCACTATAGGCAATGAGGGCTCGCGGGTGCTG
CCCTCCATTTCCCTTTCACCTGGCCCCCAGCCCCCCAAGAGCCCCGGTCCCCACTCCGAGGAGGAAGAT
GAGGCTGAGCCCAGTACAGTGCCTGGGACTCCCCCACCCAAGAAGTTCCGCTCACTGTTCTTCGGCTCC
ATCCTGGCCCCTGTACGCTCCCCCCAGGGCCCCAGCCCTGTGCTGGCGGAAGACAGTGAGGGTGAAGGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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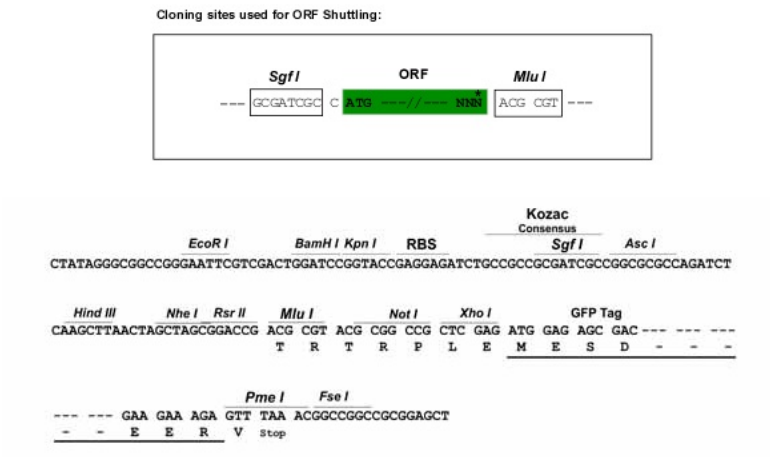
Protein Sequence:

>Peptide sequence encoded by RG204439
Blue=ORF Red=Cloning site Green=Tag(s)

MKCLVTGGNVKVLGKAVHSLSRIGDELYLEPLEDGLSLRTVNSSRSAYACFLFAPLFFQQYQAATPGQD
LLRCKILMKSFLSVFRSLAMLEKTVEKCCISLNGRSSRLVVQLHCKFGVRKTHNLSFQDCESLQAVFDP
ASCPHMLRAPARVLGEAVLPFSPALAEVTLGIGRGRRVILRSYHEEEADSTAKAMVTEMCLGEEDFQQL
QAQEGVAITFCLKEFRGLLSFAESANLNLSIHFDAPGRPAIFTIKDSLLDGHFVLATLSDTDSHSQDLG
SPERHQPVPQLQAHSTPHPDDFANDDIDSYMIAMETTIGNEGSRVLPSISLSPGPQPPKSPGPHSEEED
EAEPSTVPGTPPPKKFRSLFFGSILAPVRSPQGPSPVLAEDSEGEG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004584

ORF Size: 1173 bp

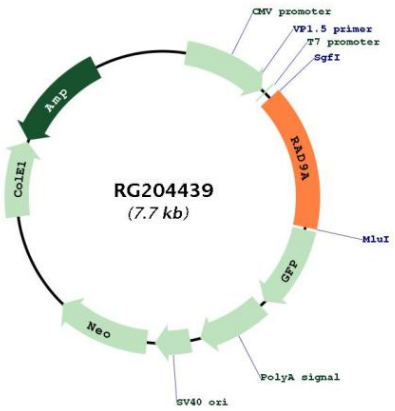
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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 RG204439