

Product datasheet for **SC321679**

Rad9 (RAD9A) (NM_004584) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rad9 (RAD9A) (NM_004584) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rad9
Synonyms:	RAD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC321679 representing NM_004584. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAAGTGCCTGGTCACGGGCGGCAACGTGAAGGTGCTCGGCAAGGCCGTCCTCCCTGTCCCAGCATC
GGGACGAGCTCTACCTGGAACCTTGGAGGACGGGCTCTCCCTCCGGACGGTGAACCTCCCGCTCT
GCCTATGCCTGCTTTCTTTGCCCCGCTCTTCTCCAGCAATACCAGGCAGCCACCCCTGGTCAGGAC
CTGCTGCGCTGTAAGATCCTGATGAAGTCTTCTGTCTGTCTTCCGCTCACTGGCGATGCTGGAGAAG
ACGGTGGAAAAATGCTGCATCTCCCTGAATGGCCGGAGCAGCCGCTGGTGGTCCAGCTGCATTGCAAG
TTCGGGGTGGGAAGACTCACAACTGTCCTTCCAGGACTGTGAGTCCCTGCAGGCCGCTTCGACCCA
GCCTCGTGCCCCACATGCTCCGCGCCCCAGCACGGGTTCTGGGGAGGCTGTTCTGCCCTTCTCTCT
GCACTGGCTGAAGTGACGCTGGCATTGGCCGTGGCCGAGGGTCACTCCTGCGCAGTACCACGAGGAG
GAGGCAGACAGCACTGCCAAAGCCATGGTGACTGAGATGTGCCTTGAGAGGAGGATTTCCAGCAGCTG
CAGGCCAGGAAGGGGTGGCCATCACTTCTGCCTCAAGGAATCCGGGGGCTCCTGAGCTTTGCAGAG
TCAGCAAACCTTGAATCTTAGCATTCACTTTGATGCTCCAGGCAGGCCCGCCATCTTACCATCAAGGAC
TCTTTGCTGGACGGCCACTTTGTCTTGGCCACACTCTCAGACACCGACTCGCACTCCCAGGACCTGGGC
TCCCCAGAGCGTCACCAGCCAGTGCCTCAGCTCCAGGCTCACAGCACACCCACCCGGACGACTTTGCC
AATGACGACATTGACTCTTACATGATCGCCATGGAACCACTATAGGCAATGAGGGCTCGCGGTGCTG
CCCTCCATTTCCCTTTACCTGGCCCCAGCCCCAAGAGCCCCGGTCCCCTCCGAGGAGGAAGAT
GAGGCTGAGCCCAGTACAGTGCCTGGGACTCCCCACCCAAGAAGTTCGGCTCACTGTTCTCGGCTCC
ATCCTGGCCCCGTACGCTCCCCCAGGGCCCCAGCCCTGTGCTGGCGGAAGACAGTGAAGGTGAAGGC
TGA

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Restriction Sites:	Please inquire
ACCN:	NM_004584
Insert Size:	1176 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_004584.2
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:	<p>This gene product is highly similar to <i>Schizosaccharomyces pombe rad9</i>, 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]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longer isoform (1).</p>