

Product datasheet for SC322657

RAD21 (NM_006265) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAD21 (NM_006265) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAD21
Synonyms:	CDLS4; hHR21; HR21; HRAD21; MCD1; MGS; NXP1; SCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322657
CACCTCGCAAGGGCTCCCCCTTTCCCCACCCCTCCCCGACCCTTTCCCTCCCCGG
GCCACCCAGCCGCCCACTCCCGGAGAGCAAGGTTTTCTTCTGTTTTCATAGCCAG
CCAGAACAATGTTCTACGCACATTTTGTCTCAGTAAAAGAGGGCTCTGGCCAAAATTT
GGCTAGCGGCCATTGGGATAAGAAGCTAACCAAAGCCATGTGTTTCGAGTGTAATTTAG
AGAGCAGCGTGGAGAGTATCATCTACCAAAGGTGAAAATGGCATTACGGACATCAGGAC
ATCTCTTACTGGGAGTAGTTTCAATCTATCACAGGAAAGCCAAATACCTTCTGCAGACT
GTAATGAAGCATTCAATTAAGATAAAGATGGCTTTTCGGCCAGGTGTGGTTGACCTGCCTG
AGGAAAATCGGGAAGCAGCTTATAATGCCATTACTTTACCTGAAGAATTCATGACTTTG
ATCAGCCACTGCCTGACTTAGATGACATCGATGTGGCCAGCAGTTCAGCTTGAATCAGA
GTAGAGTGAAGAGATAACCATGAGAGAAGAAGTTGGGAACATCAGTATTTTACAAGAAA
ATGATTTTGGTGATTTTGGAAATGGATGATCGTGAGATAATGAGAGAAGGCAGTGCTTTTG
AGGATGACGACATGTTAGTAAGCACTACTTCTAACCTCCTATTAGAGTCTGAACAGA
GCACCAGCAATCTGAATGAGAAAATTAACCATTTAGAATATGAAGATCAATATAAGGATG
ATAATTTTGGAGAAGGAAATGATGGTGAATATTAGATGACAACTTATTAGTAATAATG
ATGGCGGTATCTTTGATGATCCCCCTGCCCTCTCTGAGGCAGGGGTGATGTTGCCAGAGC
AGCCTGCACATGACGATATGGATGAGGATGATAATGTATCAATGGGTGGGCTGATAGTC
CTGATTCAGTGGATCCCCTTGAACCAATGCCAACCATGACTGATCAAACAACACTTGTTT
CAATGAGGAAGAAGCATTGTCATTGGAGCCTATTGATATAACTGTTAAAGAAAACAAAAG
CCAAGAGGAAGGAAGCTAATTGTTGACAGTGTCAAAGAGTTGGATAGCAAGACAATTA
GAGCCCAACTTAGTGATTATTCAGATATTGTTACTACTTTGGATCTGGCACCGCCACCA
AGAAAATTGATGATGTGGAAGAGACAGGAGGAGTAGAAAACTGTTTTCTTACCTGCTC
AGCCTTTGTGGAATAACAGACTACTGAAGCTCTTACACGCTGTCTTACACCGCTTGAC
CAGAAGACCTTAGAAAAAGGAGGAAAGGAGGAGAGGCAGATAATTTGGATGAATTCCTCA
AAGAATTTGAAAATCCAGAGGTTCTAGAGAGGACCAGCAACAGCAGCATCAGCAGCGTG
ATGTTATCGATGAGCCATTATTGAAGAGCCAAGCCGCTCCAGGAGTCAGTGATGGAGG
CCAGCAGAACAAACATAGATGAGTCAGCTATGCCTCCACCACCACCTCAGGGAGTTAAGC



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GAAAAGCTGGACAAATTGACCCAGAGCCTGTGATGCCTCCTCAGCAGGTAGAGCAGATGG
 AAATACCACCTGTAGAGCTTCCCCAGAAGAACCTCCAAATATCTGTCAGCTAATACCAG
 AGTTAGAACTTCTGCCAGAAAAAGAGAAGGAGAAAAGAGAAAAAGAAGATGATGAAG
 AGGAAGAGGATGAAGATGCATCAGGGGGCGATCAAGATCAGGAAGAAAGAAGATGGAACA
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 GTGACATCATCGCAACACCTGGACCAAGGTTCCATATTATATAAGGAGCTAGAAGCATT
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 CCTTTGAGAAAACCTTAGATTTTTGTCTGTACAAAGTCTTTGCCTTTTTCTTCTTCATTT
 TTTTCCAGTACATTAATTTGTCAATTTTCATCTTTGAGGGAAACTGATTAGATGGGTTGT
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 AGAACAGATGTGTGCAATATTGGTGCATGTAATAATGTTGAGTGGCAGTCAAAGTCATG
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 GTTTGGATATATTTGAGTATTCCGATCATGAAAACAGAAATTGCCCTGCCTACTACAAGG
 ACAGACTGATGGGAAATTATGCACCTGGTCAACTTAGCTTTTAAAGCAGACGATGCTGTAA
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 TGCACACTCCTGGTTTGGAACTTAAATAGCGTTGCAACGAAATCCTATATCCAGTTTCCT
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 CATCAGAAATCATGTGACTGTTATGATTATCAGAATGTCTTAACTTTTTAGGGCAAAGTT
 AACACTGAAAGTTCTAGCTTAAAGTGTGAAACTTTTGTGGGAAAAAATCACTTTTGA
 AACTCAGACTTCAGTGTATACCAATAATTTAAATTTATGTGAAATGTTTTAAATTTGTG
 AACTCGTAATTACTGTTTTAATGATTGAGTTTCTCAGAGTGGTAATTGTATAAAATTCG
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 AAAAGACATTGTAGATAATTGAATGTTTATTTAGAAAGGTCATTAGTTTCTTGTGTACA
 CATTTTGTAGTCTGGTTTTTGTGCTTATCGGGTTTAAATATTGTTCTTGAAAATAGTTG
 ATGCTATGTTATGTATAACTTTTCTAATAAAAGTTGTGTTATAAGCTGTAAAAA
 AAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_006265

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
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:	<p>NM_006265.1, NP_006256.1</p>
RefSeq Size:	<p>3647 bp</p>
RefSeq ORF:	<p>1896 bp</p>
Locus ID:	<p>5885</p>
UniProt ID:	<p>O60216</p>
Cytogenetics:	<p>8q24.11</p>
Domains:	<p>Rad21_Rec8, Rad21_Rec8_N</p>
Protein Families:	<p>Druggable Genome</p>
Protein Pathways:	<p>Cell cycle</p>
Gene Summary:	<p>The protein encoded by this gene is highly similar to the gene product of <i>Schizosaccharomyces pombe rad21</i>, a gene involved in the repair of DNA double-strand breaks, as well as in chromatid cohesion during mitosis. This protein is a nuclear phospho-protein, which becomes hyperphosphorylated in cell cycle M phase. The highly regulated association of this protein with mitotic chromatin specifically at the centromere region suggests its role in sister chromatid cohesion in mitotic cells. [provided by RefSeq, Jul 2008]</p>