

Product datasheet for **SC321321**

RECQ1 (RECQL) (NM_032941) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RECQ1 (RECQL) (NM_032941) Human Untagged Clone
Tag:	Tag Free
Symbol:	RECQ1
Synonyms:	RecQ1; RECQL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_032941.1
 GAGATCCGAGAGTCCGAGATCCGAGAGTCCGACACAGGACAGTCCGACACCGGACAGTCA
 AACACCGGAGAGTTAGACTGGGCTTCTCGGTGGGAGAGGCTCTGGGATAACTACTGTTA
 CAGCTTTGAAGGGTCAAGGGAGGATTGGCCACCAAGCCTGTTTATTAGCAGCTGCCATT
 TGTTGAAAGAAATTTGGATTATTTAGAAACAAATTTGAAAGAAAAAGAATGGCGTCCG
 TTTCAGCTCTAACTGAGGAACTGGATTCTATAACCAGTGAGCTACATGCAGTAGAAATTC
 AAATTCAGAAGCTTACGGAAAGGCAACAAGAGCTTATTTCAGAAAAAAAAGTCCTGACAA
 AGAAAAATAAGCAGTGTTTAGAGGATTCTGATGCCGGGGCAAGCAATGAATATGATTCTT
 CACCTGCCGCTTGAATAAAGAAGATTTTCCATGGTCTGGTAAAGTTAAAGATATTCTGC
 AAAATGTCTTTAACTGGAAAAGTTCAGACCACTTCAGCTTGAAACTATTAACGTAACAA
 TGGCTGGAAAGGAGGTATTTCTTGTTATGCCTACAGGAGGTGAAAGAGCTTATGTTACC
 AGTTACCAGCATTATGTTAGATGGTTTTACTCTGCTATTTGCCATTGATCTCTCTTA
 TGGAAAGACCAATTAATGGTTTTAAACAATTAGGAATTTAGCAACCATGTTAAATGCTT
 CTAGTTCTAAGGAGCATGTTAAATGGGTTTATGCTGAAATGGTAAATAAAAACTCCGAGT
 TAAAGCTGATTTATGTGACTCCAGAGAAAATTGCAAAAAGCAAAATGTTTATGTCAAGAC
 TAGAGAAAAGCCTATGAAGCAAGGAGATTACTCGAATTGCTGTGGATGAAGTTCACTGCT
 GTAGTCAGTGGGACATGATTTTCAGACCTGATTATAAGGCACTTGGTATCTTAAAGCGGC
 AGTTCCCTAACGCATCACTAATTGGGCTGACTGCAACTGCAACAAATCACGTTTTGACGG
 ATGCTCAGAAAATTTGTGCATTGAAAAGTGTCTTACTTTTACAGCTTCTTTTAAAGGC
 CAAATCTATATTAGAGTTTCGGCAGAAGCCCTCAAACACTGAAGATTTTATTGAGGATA
 TTGTAAGCTCATTAAATGGGAGATACAAAGGGCAATCAGGAATCATATATTGTTTTTCTC
 AGAAAGACTCTGAACAAGTTACGGTTAGTTTGCAGAATCTGGGAATTCATGCAGGTGCTT
 ACCATGCCAATTTGGAGCCAGAAGATAAGACCACAGTTCATAGAAAATGGTCAGCCAATG
 AAATTCAGGTAGTAGTGGCAACTGTTGCATTTGGTATGGGAATTGATAAGCCAGATGTGA
 GGTTTGTATCCATCATTCAATGAGTAAATCCATGGAAAATTATTACCAAGAGAGTGGAC
 GTGCAGGTGAGATGACATGAAAGCAGACTGTATTTGTACTACGGCTTTGGAGATATAT
 TCAGAATAAGTTCAATGGTGGTATGGAATGTGGGACAGCAGAAGCTTTATGAGATGG
 TATCATACTGTCAAAACATAAGCAAATGTCGTCGTGTGTTGATGGCTCAACATTTGATG
 AAGTATGGAAGCTCAGAAGCATGTAAACAAATGTGCGATAACTGCTGTAAGACAGTGCAT
 TTGAAAGAAAGAACATAACAGAGTACTGCAGAGATCTAATCAAGATCCTGAAGCAGGCAG
 AGGAACTGAATGAAAACTCACTCCATTGAACTGATTGATTCTTGGATGGGAAAGGGTG
 CAGCAAACTGAGAGTAGCAGGTGTTGGCTCCACACTTCTCGTGAAGATCTGGAGA
 AGATTATTGCACACTTTCTAATACAGCAGTATCTTAAAGAAGACTACAGTTTTACAGCTT
 ATGCTACCATTTTCGATTTGAAAATAGGACCTAAAGCTAACCTTCTGAACAATGAGGCAC
 ATGCTATTACTATGCAAGTGACAAAGTCCACGCAGAACTTTTTCAGGGCTGAATCGTCTC
 AAATTTGTCATTTGAAACAAGGTGATAAAAAGATGGAGAAAAAAAATTCAGGCAACTTCC
 AGAAGAAGGCTGCAAACTGCTTACAGCAGTCTGGTTCTAAGAATACAGGAGCTAAGAAAA
 GAAAAATCGATGATGCCTGATATGAATGTTACTAAATTTTCTAATTAAGATGGTTTATG
 CAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_032941
- 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:	<u>NM_032941.1</u> , <u>NP_116559.1</u>
RefSeq Size:	2286 bp
RefSeq ORF:	1950 bp
Locus ID:	5965
UniProt ID:	<u>P46063</u>
Cytogenetics:	12p12.1
Domains:	DEAD, helicase_C
Gene Summary:	<p>The protein encoded by this gene is a member of the RecQ DNA helicase family. DNA helicases are enzymes involved in various types of DNA repair, including mismatch repair, nucleotide excision repair and direct repair. The encoded protein is involved in the processing of Holliday junctions, the suppression of sister chromatid exchanges, telomere maintenance, and is required for genotoxic stress resistance. Defects in this gene have been associated with several types of cancer. [provided by RefSeq, Jan 2017]</p> <p>Transcript Variant: This variant (2) lacks a segment of 5' UTR sequence, compared to variant 1. Variants 1 and 2 encode the same protein.</p>