

## Product datasheet for **SC303459**

### RECQ4 (RECQL4) (NM\_004260) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RECQ4 (RECQL4) (NM\_004260) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** RECQ4  
**Synonyms:** RECQ4  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_004260 edited  
TTCGCCCTTCCATGGAGCGGCTGCGGGACGTGCGGGAGCGGCTGCAGGCGTGGGAGCGCG  
CGTTCCGACGGCAGCGCGGGCGGCGACCGAGCCAGGACGACGTGGAGGCGCGCCGGAGG  
AGACCCGCGCGCTCTACCGGAATACCGACTCTGAAGCGTACCACGGGCCAGGCCGGCG  
GCGGGCTCCGAGCTCCGAGTCGCTCCCGCGGGCGCCGAAGAGGCGCCAGAGCCCGCT  
GCTGGGGCCCCATCTGAATCGGGCTGCGACCAAGAGTCCACAGTCTACGCCAGGGCGGA  
GCCGCCAGGGCTCGGTGCCGACTACGGGCAGCGGCTCAAGGCCAATCTGAAAGGCACCC  
TGCAGGCCGACCAGCCCTGGGCCGAGACCGTGGCCTCTAGGAAGAGCCTCATCTAAGG  
CATCCACCCAAAGCCCCAGGTACAGGGCCTGTCCCCTCTTTGCAGAAAAAGTCAGTG  
ATGAGCCTCCACAGCTCCCTGAGCCCCAGCCAAGGCCAGGCCGGCTCCAGCATCTGCAGG  
CATCCCTGAGCCAGCGGCTGGGCTCCCTAGATCCTGGCTGTTACAGCGATGTCACAGTG  
AGGTCACAGATTTCTGGGGGCCCCAAAGCCTGCAGGCCTGATCTAGGCTCAGAGGAAT  
CACAACCTCTGATCCCTGGTGAGTCGGCTGTCTTGGTCTGGTCTGGCTCCCAGGGCC  
CAGAGGCTTCCAGCTTCCAAGAAGTCAGCATCCGTGTGGGGAGCCCCAGCCAGCAGCA  
GTGGAGGCGAGAAGCGGAGATGGAACGAGGAGCCCTGGGAGAGCCCCGCACAGGTCCAGC  
AGGAGAGCAGCCAAGCTGGACCCCATCGGAGGGGGCTGGGGCTGTAGCAGTTGAGGAAG  
ACCCTCCAGGGGAACCTGTACAGGCACAGCCACCTCAGCCCTGCAGCAGCCATCGAACC  
CCAGGTACCACGGACTCAGCCCTCCAGTCAAGCTAGGGCTGGGAAGGCTGAGGGCACAG  
CCCCCTGCACATCTTCCCTCGGCTGGCCGCCATGACAGGGGCAATTACGTACGGCTCA  
ACATGAAGCAGAAACACTACGTGCGGGGCGGGCACTCCGTAGCAGGCTCCTCCGCAAGC  
AGGCATGGAAGCAGAAGTGGCGGAAGAAAGGGAGTGTTTTGGGGTGGTGGTGCACAG  
TCACAACCAAGGAGTCTTGTTCCTGAACGAGCAGTTCGATCACTGGGCAGCCAGTGTC  
CCCGGCCAGCAAGTGAGGAAGACACAGATGCTGTTGGGCTGAGCCACTGGTTCCTTAC  
CACAACCTGTACCTGAGGTGCCAGCCTGGACCCACCGTGTGCCACTCTACTCCCTGG  
GGCCCTCAGGGCAGTTGGCAGAGACGCCGGCTGAGGTGTTCCAGGCCCTGGAGCAGCTGG  
GGCACCAAGCCTTTCGCCCTGGCAGGAGCGTGCAGTCATGCGGATCCTGTCTGGCATCT  
CCACGCTGCTGGTGTGCTACAGGTGCCGGAAGTCCCTGTGCTACCAGCTCCCAGCGC



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TGCTCTACAGCCGGCGCAGCCCCTGCCTCACGTTGGTCGTCTCTCCCCTGCTGTCACTCA  
 TGGATGACCAGGTGTCTGGCCTGCCACCGTGTCTCAAGGCGGCCTGCATACACTCGGGCA  
 TGACCAGGAAGCAACGGGAATCTGTCTGCAGAAGATTCGGGCAGCCCAGGTACACGTGC  
 TGATGCTGACACCTGAGGCACTGGTGGGGCGGGAGGCCCTCCCTCCAGCCGCACAGCTGC  
 CTCCAGTTGCTTTTGCCTGCATTGATGAGGCCACTGCCTCTCCAGTGGTCCCACAAC  
 TCCGGCCCTGCTACCTGCGCGTCTGCAAGGTGCTTCGGGAGCGCATGGGCGTGCCTGCT  
 TCCTGGGCTCACAGCCACAGCCACAGCCGCGCAGTCCAGTGCAGTGGCACAGCACCTGG  
 CTGTGGCTGAAGAGCCTGACCTCCACGGGCCAGCCCAGTTCACCAACCTGCACCTTT  
 CCGTGTCCATGGACAGGGACACAGACCAGGCACTGTTGACGCTGCTGCAAGGCAAACGTT  
 TTCAAACCTCGATTCCATTATCATTTACTGCAACCGGCGCAGGACACAGAGCGGATCG  
 CTGCGCTCCTCCGAACCTGCCTGCACGCAGCCTGGGTCCAGGGTCTGGAGGTCTGCCCC  
 CCAAACACAGCCGAGGCTACCACGCGGCATGTGCAGCCGGAAACGGCGCGGGTAC  
 AGCGAGCCTTCATGCAGGGCCAGTTGCGGGTGGTGGTGGCCACGGTGGCCTTTGGGATGG  
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 GCTACGTGCAGGCCGTGGCCCGGGCGGTGACGGGCAGCCTGCCACTGCCACTCT  
 TCCTGCAGCCCCAGGGCAAGACCTGCGAGAGCTGCGCAGACATGTGCAGCCGACAGCA  
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 GCACCAGGCCGCCCTCGGAGCAGGAAGGGGCCGTGGTGGGGAGAGGCTGTGCCAAGT  
 ACCCCCCAAGAGGCTGAGCAGCTTAGCCACCAAGCAGCCCCAGGACCCAGAAGGGTCT  
 GCATGGGCCATGAGCGGGCACTCCCAATACAGCTTACCGTACAGGCTTTGGACATGCCGG  
 AGGAGGCCATCGAGACTTTGCTGTGCTACCTGGAGCTGCACCCACACCACTGGCTGGAGC  
 TGCTGGCGACACCTATACCCATTGCCGTCTGAACTGCCCTGGGGCCCTGCCAGCTCC  
 AGGCCCTGGCCACAGGTGTCCCCTTTGGCTGTGTGCTTGGCCAGCAGCTGCCTGAGG  
 ACCCAGGGCAAGGCAGCAGCTCCGTGGAGTTTGACATGGTCAAGCTGGTGGACTCCATGG  
 GCTGGGAGCTGGCCTCTGTGCGGCAGGCTCTGCCAGCTGCAGTGGGACCACGAGCCCA  
 GGACAGGTGTGCGGCGTGGGACAGGGGTGCTTGTGGAGTTCAGTGAGCTGGCCTTCCACC  
 TTCGACAGCCCGGGGACCTGACCGCTGAGGAGAAGGACCAGATATGTGACTTCTCTATG  
 GCCGTGTGACAGCCCGGGAGCGCCAGGCCCTGGCCGTCTGCGCAGAACCTTCCAGGCC  
 TTCACAGCGTAGCCTTCCCAGCTGCGGGCCCTGCCTGGAGCAGCAGGATGAGGAGCGCA  
 GCACCAGGCTCAAGGACCTGCTCGGCCGCTACTTTGAGGAAGAGGAAGGGCAGGAGCCGG  
 GAGGCATGGAGGACGCACAGGGCCCGAGCCAGGGCAGGCCAGACTCCAGGATTGGGAGG  
 ACCAGGTCGCTGCGACATCCGCCAGTTCTGTCCCTGAGGCCAGAGGAGAAGTTCTCCA  
 GCAGGGCTGTGGCCCGCATCTTCCACGGCATCGGAAGCCCTGCTACCCGGCCCAGGTGT  
 ACGGGCAGGACCGACGCTTCTGGAGAAAATACCTGCACCTGAGCTTCCATGCCCTGGTGG  
 GCCTGGCCACGGAAGAGCTCCTGCAGGTGGCCCGCTGACTGCACTGCATTGGGGATGTC  
 GGGTAGAGCTGGGGTTGTGAGAGGCTAGGGCAGTACTGAGGACCTGGGCAAACTGCC  
 ACAGGGTGTGGGAACGAGGAGGCTCCAAAATGCAGAATAAAAAATGCTCACTTTGTTTTA  
 AA  
 AAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_004260
- Insert Size:** 3800 bp
- 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:** The ORF of this clone has been fully sequenced and found to contain one SNP compared with reference sequence NM\_004260.1.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_004260.1, NP_004251.1</u>
<b>RefSeq Size:</b>	3627 bp
<b>RefSeq ORF:</b>	3627 bp
<b>Locus ID:</b>	9401
<b>UniProt ID:</b>	<u>O94761</u>
<b>Cytogenetics:</b>	8q24.3
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Gene Summary:</b>	The protein encoded by this gene is a DNA helicase that belongs to the RecQ helicase family. DNA helicases unwind double-stranded DNA into single-stranded DNAs and may modulate chromosome segregation. This gene is predominantly expressed in thymus and testis. Mutations in this gene are associated with Rothmund-Thomson, RAPADILINO and Baller-Gerold syndromes. [provided by RefSeq, Jan 2010]